



*Tho. Forrest Belton.*

To make Compound  
11 lb white Lead  
4 lb Venice Aset

Annals of Pettus's notes  
Pettus's

Dr. Barton's lectures 1803-4

Oh Man! Study the Vegetables of Sky  
Country and wonder not to disturb Venus

Cherimons, water, are used  
in the stomach - the term of Op  
may be given without inducing an  
cold, but must enter some  
decoction, cold & hot infusion -

- Nerve that dropsy is not Nerve depression  
debility, but primary or secondary of the system

Handwritten signature or initials in cursive script, possibly reading "L. S." or similar.

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Have seen a copy of the *Tunica vaginalis* induced by  
Gout.

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Dr. Man. Hays

Lead — *Coler ampictrus*

*[Faint, illegible handwriting]*

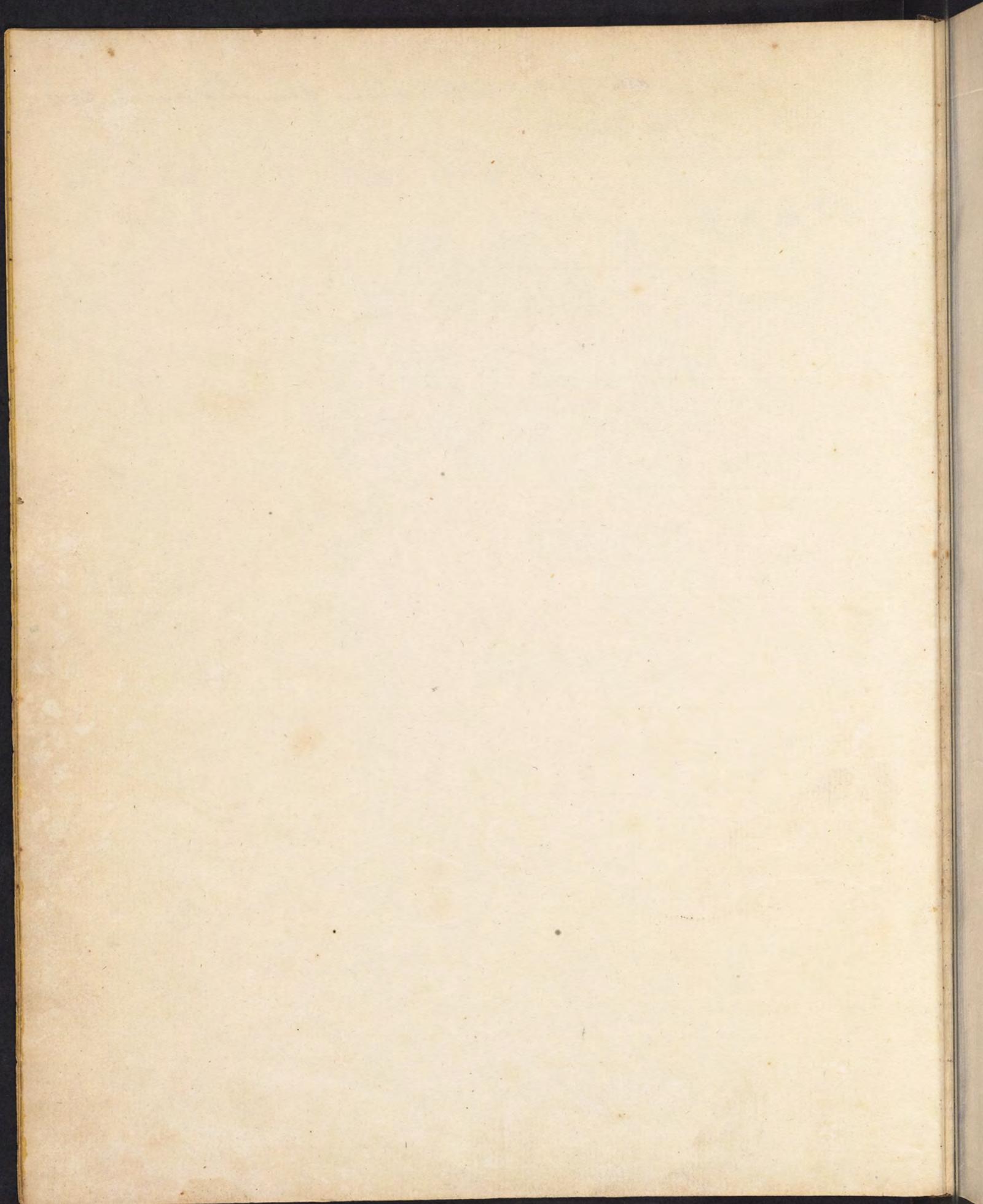
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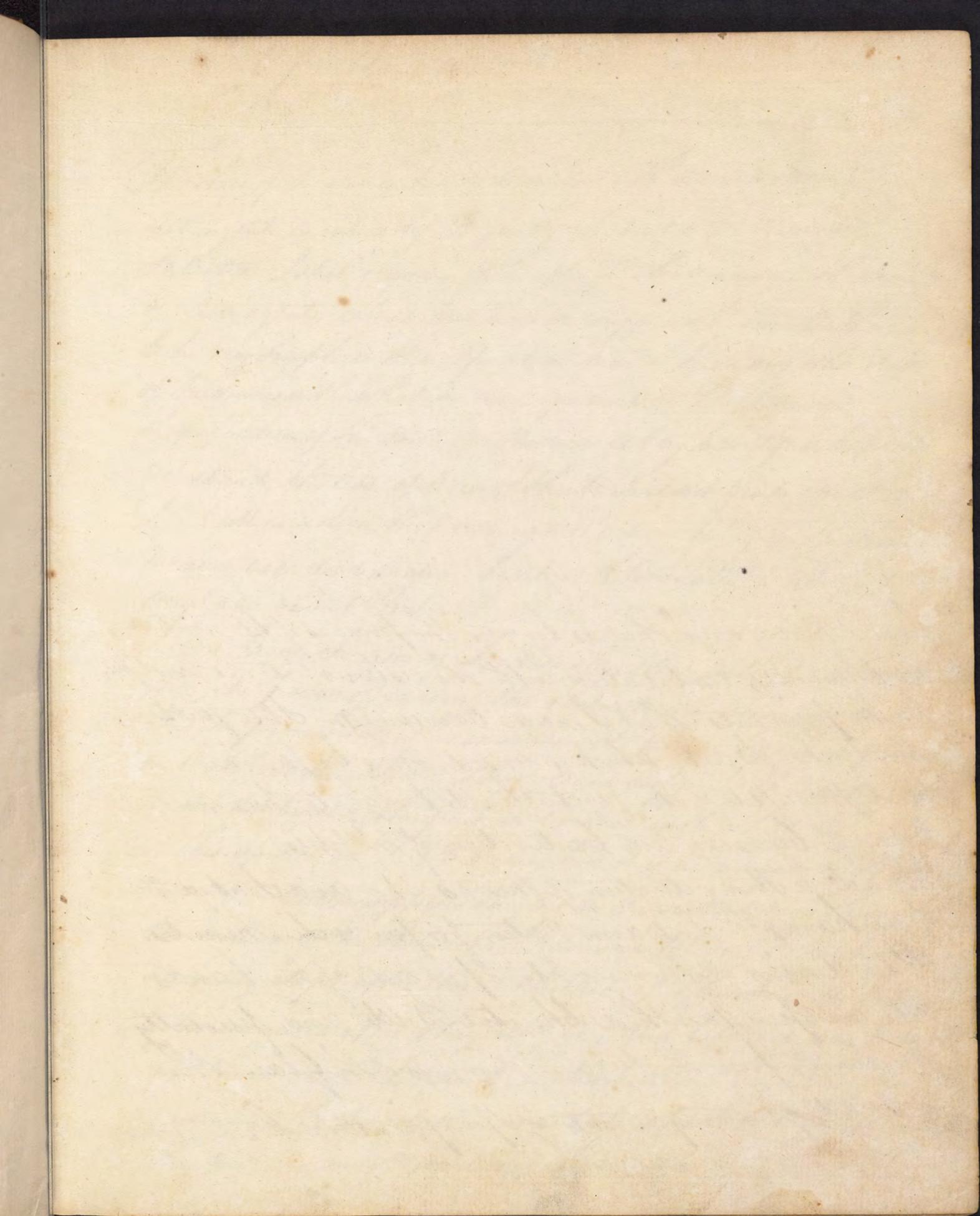
attempts are comprised of an acid and an earth  
but this has been

it reddens the T of turcol, and

other helps -

Dr. Barton suppose that some  
particles are taken in water then  
ferrous





James Moore says, "that as long as the powers of life continue, all chemical combination with the astringent is resisted. Some experiments that I made convince me still further, that Cate Bark, which is considered as by far the most powerful of the vegetable Astringents, has no power of causing any contraction of the fibres.

I made a strong decoction of this Bark and soaked one of my hands in the warm water for five or six minutes. After drying it thoroughly, I put each of my hands into an open mouthed Glass Bottle and presently perceived, from the sudden dimness of the Glass, that a much greater quantity of perspiration came from

# Of Astringents

The class of Medicines known to us under the denomination of Astringents is called by the justly celebrated D<sup>r</sup> Darwin Sabinctia. I shall consider them after D<sup>r</sup> Cullen under the name of Astringents. These Medicines are supposed by some Authors to be very simple in their Operation, more so than any other class of Medicines with which we are acquainted. D<sup>r</sup> Darwin's classification of the Materia Medica is very beautiful but will not stand the test of Ages. I think it is not quite correct, D<sup>r</sup> Cullen's notion that Astringents act on living in the same manner as on dead matter: *Videlicet* Chemically, is not quite correct as a general Rule.

James Moore Surgeon of London says that Astringents have not the power of causing the contraction of Animal fibres; this he proves or rather endeavours to prove, by some experiments on Oak Barks. Some Physicians suppose that Astringents do not act beyond the part in contact with which they are; of this Opinion is D<sup>r</sup> Heberden but it is certainly a very false One. D<sup>r</sup> Cullen supposes they act on the sentient nerves through the medium of the stomach; I have seen uterine Hemorrhagy suddenly stop'd after the exhibition of *Plumbum Acetatum*, (a few minutes after they took it) and before it was possible for the medicine to have been absorbed and carried in the routine of the Circulation so as to be applied to the Uterus; therefore we must conclude that Astringents exert their

2  
The hand which had been in the hot astringent, shew from  
the other. This evidently shew'd that the mouths of the  
perspiratory vessels had been enlarged; instead of being  
contracted by the liquor, owing to the heat.

I tried the same thing with the astringent liquor when  
cold; and I likewise endeavour'd to discover, whether there  
was any apparent difference in the degree of perspiration,  
when one hand was plung'd into the hot astringent, and  
the other in plain water of the same temperature; but  
I could not perceive that the Cataplasts had the  
smallest power in diminishing the diameter of the  
perspirable vessels.

From the above Considerations I cannot help being convinc'd,  
that whatever power the vegetab<sup>l</sup> astringents possess,  
when exhibit<sup>d</sup> internally, they certainly never enter into  
into any Chemical Combination with the body when  
applic'd externally, as they do when applic'd to a dead  
piece, nor cause any contraction and condensation  
of the fibres.

First effects on the Stomach when taken internally and from  
thence are communicated in some way or other to every part  
of the body. but as a proof that medicines are absorbed I would  
mention the fact of madder being given to pregnant women  
and thereby colouring the bones of the foetus.

In giving a class of Astringents I follow Dr. Cullen, Gregory and  
Speidman who have each given us a class under this title  
And I the more willingly do it because the operation of  
Astringent Medicines is better understood than any other.

Dr. Heberden's Ideas were certainly not correct nor founded  
on just Observations as some astringents extend their influence  
to the most distant parts of the body. they are certainly  
diffusible though not like Opium, for half a grain of the  
Sarsaparilla has stopp'd a desperate uterine Hemorrhagy  
in fifty minutes in a case that came under my observation.

There are some doubts respecting the real nature of the Astringent  
principle. some Chemists are of Opinion that Acids and  
Earths combined together form Astringents, and therefore  
that the Astringent principle must be an Acid and an  
Earth, but this is not always the case for Instance Alum  
is said to be a Sulphate of Alumine, but it cannot be made  
by a direct combination of the Sulphuric Acid and Alumi-  
nous Earth without the Addition of Magnesia. therefore  
says our professor of Chemistry (Dr. James Woodhouse)  
Alum is a combination of Aluminous Earth, Sulphuric Acid  
and Magnesia. Some are of Opinion that the Gallic Acid  
is the principle of Astringency but the facts bring forward are

4 The resin of Opium may be given without inducing an  
Narcotic effects, because the Gouty juice of the Stone  
does not act upon it. The best methods are, decoction,  
hot & cold Infusion, —————

I have seen dropsy of the Tunica vaginalis induced by gout  
and dropsy is not entirely dependent upon debility, but  
sometimes upon an increased action of the System —————

Not sufficiently conclusive.

## Pharmaceutical Treatment.

Astringents are perhaps best used in substance but there are many stomachs which will not bear them in this manner. The resinous part is not soluble in the Juices of the Stomach it is only the Gumous part that is. Water is the best Menstruum; The distilled water of Astringents is frequently Sweet infusion and decoction are the best methods of suspending the virtues thereof.

### Use of Astringents In Diseases.

In general debility and Cachexy which Cullen says often lays the foundation for dropsy the preparations of Iron with an Acid have been employed with much benefit but he does not know of any simple Astringent that may be used with advantage. I think say (Dr. Barton) that Iron is seldom proper nay I believe that it is very often hurtful that is in Dropsy of an Inflammatory nature which is the case with almost all in the beginning so that blood letting is often necessary, but after they have continued some time and a debility exists they may and have been <sup>used</sup> with advantage.

Dropsy is sometimes bro't on by the Injudicious use of tonics and Astringents. I have a case of Dropsy bro't on by giving Bark in the exacerbations of an intermittent Fever by Bleeding the Cases in which Astringents can be useful in dropsy are when great debility exists in which case, they are rather by giving tone, than increasing the arterial Action.

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Hydroceles and other dropsical affections occur sometimes in Typhus or low Chronic States of fever, they are generally cured by curing the fever, or in other words they go off pretty soon after the fever leaves the Patient.

A Gentleman in Lancaster had a dropsy of the Tunica vaginalis Testis which alternated with a gouty affection of the feet.

Use of Astringents in excessive evacuations of Blood.

D<sup>r</sup>. Cullen was somewhat disappointed in the use of Astringents in Hemorrhagy. These are divided into Active and passive, in the latter they must be useful, in the former not unfrequently hurtful: In a great number of cases of Hemorrhagy from the Intestinal Canal the first symptom is an increased Action of the Arterial System. There are some cases of this disease in which the *Campsa acetata* is useful. Diarrhea when depending upon a relaxed torpid State of the intestines or as D<sup>r</sup>. Cullen says an excessive evacuation from the intestines they may be useful, but there is often a febrile Action, sometimes from putrid Effluvia, a Gangrene sometimes supervenes upon the Diarrhea of aged persons in which case astringents are improper.

In Dysentery they are very frequently hurtful. D<sup>r</sup>. Cullen defines this disease to be an increase & Constriction of a considerable portion of the Intestinal Canal, but I do not suppose it is from this cause that they are hurtful.

Dysentery now probably is a febrile state of the Mucous Membrane of the large intestines. There are some Vegetable astringents which are used in the first stage of this disease.

8 The disease of Leucorrhoea is often accompanied with fever and the increased action of the heart and arteries often keep up the disease.

The disease of Leucorrhoea often discharges a fluid resembling venereal virus. Hunter declares that from his wife, it gave him a disease like Gonorrhoea.

Dr. Barton has given them /astriugents/ in Pyrosis. Kino seems an excellent astringent for Sweating. It has been used with success.

Dr. Barton says that Carbonic acid Gas is not an astringent, but a saline substance. Vegetabile astringents have been used by all nations for Calculus, but I believe they only relieve and do not cure the disease.

Uva Ursi Given from 6 to 8 grains in powder 3 or 4 times a day discharged large pieces of calculi.

*Scurvy.* Dr. Cullen found astringents useful in this disease, there are two kinds of it the *fluor albus*, *calidus* and *frigida*. The former is connected with fever the latter not. In the latter astringents are less useful and there are few cases in which I would not prescribe them; In the former Bleeding is the most useful and judicious mode of treatment. Iron is often useful in the Chronic State.

*Diabetes.* Astringents as *Allum Sit.* have been used in this disease but I fear they are not so useful as most people imagine. It does not always depend upon a simple debility of the Kidneys, it appears after remittent fevers the symptoms are always aggravated in the Pyrexia, it is frequently connected with an increased Action of the Arterial System, and Cases of it are seldom cured unless attention is paid to the fever. I know a case cured by an Emetic and an other most decided One by blood letting and debilitating remedies. Cullen had not a sufficiently favourable and Opinion of Astringents in discharges from the Uterus in Males. See *Practica Medica* page Seven. They are useful in Cases depending upon debility but when there is excessive action they must be trusted.

*Calculus.* They have been employed in these Cases by Dr. De Haen and Richter. Dr. Cullen says they act by absorbing Acid *Sit.* but his Opinions are not all satisfactory, Carbonic Acid gas or fixed Air can have no attraction for an Acid, it is not an Attracti and yet is very useful in Calculous cases, it is not by their tonic power either that they Operate.



WOUNDS. The ancient writers recommend astringents in wounds, they operate in curing some Old Ulcers (for they are very useful in the Ulcers) as I suppose by stimulating the part to a more healthy action to secrete good pus. Ulcers are often healed by the Peruvian Bark taken internally and Applied externally, Astringents absorb the thinner part of the Pus. Darwin says they induce Costiveness as a general rule, Astringents positively do not. And Indeed they often purge, I have frequently given Galles and Columbo root in intermittents and they often purge, so does Allums.

### Of Particular Astringents.

The mineral Astringents of Cullen I shall consider as Tonics, a great number of Vegetables contain the Astringent principle, even the leaves and roots of the Strawberry, but it generally resides in the bark. Cullen has arranged the vegetable astringents by their Botanical Affinity, but there are several reasons for not adopting this manner now. It because it would require a considerable degree of botanical knowledge in the students attending my lectures. I<sup>d</sup> conceive it better to arrange them as they possess the Astringent principle in a greater or less degree. The Cortex or Bark of some Oaks are very astringent hence their great use in tanning leather.

D<sup>r</sup> Cullen used the Oak bark in slight tumefactions of the mucous membrane of the ~~Stomach~~ ~~Stomach~~ in intermittents. See Materia Medica page 312 he began with thirty grains every two or three hours. Toasted and Roasted Almonds have been given in intermittents and diarrhea but they possess but little strength. Erysipelas seems to depend upon a contagious

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Matter similar to yellow Fever and plague and is often a very severe disease. mercury has been used in it with advantage. In London it is treated as a putrid disease and stimulants are given. In Scotland it is inflammatory. I saw more of the *Cynipidae* the winter after 1793 than ever I did before.

### *Cynipidae* *Aedes*.

*Galls*. Galls these are excrescences found upon the Oak tree:

They are produced by a kind of Insect (the *Cynipis*) which wounds the young buds or branches and deposits one of its eggs in the incision; some of the Juice of the tree exudes from the wound and the callous edges of it increase to a tubercle which serves as a nest for the egg of the Animal, after the egg is hatched the Animal eats its way through; those galls which have no hole are found to have the insect remaining in them.

They are destitute of smell but have an acrid taste. Spirit of wine and water extracts the astringent principle. The extract of Galls is a powerful astringent it is used in France by Baudouque in intermittent fevers. Sir D<sup>r</sup>. Cullen used it in combination with Gentian in the same disease. Many persons have said that Galls cause a obstruction of the viscera &c but I do not believe it On the contrary they generally purge. I could never exhibit this remedy in doses larger than six or ten grains without causing pain. These repeated twice a day. but some Authors say they have given it in much larger Doses.

Dr. Barber says that plants absorb lime  
 following the same process as when  
 they are found to have the power of  
 the trees they grow upon -  
 and can be made to bite

Use in Hemorrhoids. Dr. Boerhaave recommends equal portions of powder of Galls and Hog's lard as an Application to the blind piles. This is sometimes too strong but it is a most valuable Application in the piles. Dr. Cullen used One part of galls to eight of Lard but this is too weak. They are of most service in the torpid state of the Intestinal Canal but in the febrile state they are hurtful.

Gonorrhoea. In this disease Swediaur recommends an injection of a weak solution of Galls. in galls he increases its stringth. It is a local affection but they sometimes do hurt by inducing Huma humoralis or a Smelled testicle, Astringents when used in Gonorrhoea should be weak, if made so the solution of Galls may be used in the first stage of it but great care should be taken to prevent inflammation. Dr. Shippen my old master found the Sulphate of copper to induce Huma humoralis sooner than any other astringent. Port Wine, Claret, Green Tea, Infusion and decoction of Oak Bark, Solution of Balsam Copaiba and Mercury have all been used with success in Gonorrhoea.

✓ *Viscum Album*. Parasitic Plant  
Mistletoe. This is a powerful astringent, Colbach recommends it in Epilepsy. Dr. Cullen says it seems to be a substance of very little power in medicine. Sir John Floyer used it in quarter pious in doses from half a dram to a dram. Colbach used it in Convulsions but owned that it sometimes failed: This plant was held in veneration by

its virtues are in the Bark - it is best  
in solutions for it was Mr. Colthart  
Fl. of bitterness - in Quat. Bevers -

Dr. Barton has used the Kino in the following form  
combined with Gentian, with success in intermittents,

R. Gum Kino 48 grains

Pulv. Rad. Gentian 64 grains

Gum Opium 2 grains.

divided into 8 powders of which four

are to be taken daily for an adult.

It is soluble in Saliva, water, and Spirit of wine. In the  
respect of its being soluble in water it may be distinguished  
from the Sanguis Draconis which is insoluble in this  
fluid.

The Superstition of former ages: it was about the neck to prevent witchcraft, and taken internally to expel poisons. It has been celebrated as a specific in Epilepsy. Palsus but virtues to which it was greatly to be wished that experience gave any countenance.

Gum Kino. D. B. supposes Kino next to Gummi rubrum Astringens Gambiense. Obs. Med. Lond. Kino. the Gum Resin. Kino was first introduced into notice by Dr. Fothergill as being a very useful vegetable astringent. A late German Author has used the Kino dissolved in lime water with advantage in those cases in which astringents are indicated. It has lately been used in Gonorrhoea but one great Objection to its use is its Colour. The following is the manner in which it has been used.

R Pulv. Gum Kino ʒii  
" " Arab ʒi  
Aqua Bulliant ʒxxx An ft. Mist.

G. Kino ʒv to ʒ30  
qu. Arabiz  
Aqua Bulliant

This has been injected into the Urethra in many cases with complete success, in others it has been given internally with a salutary effect especially when the disease has been of long standing when great inflammation exists in the Urethra. The quantity must be diminished.

In Diarrhoea both Acute and Chronic it has been given with advantage, sometimes the Tincture of Opium has been added to allay the pain when great. This last is a fine addition to the Medicine and greatly increases its efficacy.

It is of a Eye-water, soluble of Spirit  
and water -

Or an over flowing - in combination with  
alum. M. C. - when the ulcer app-  
in a mildest - It acts by stimulating the  
part to a more healthy action

The English - salt - Montpelier berry -  
It a water. In Sea-coast

kept in the bottle, the bank  
wound to have none, but this is over  
when mixed with the Juice of  
of Iron it makes a O. Lash -

Intermittent of extreme delicate Calves

flour does -

Extract Catechu. Two species of Mimosa this has been given in some Cases internally but it is principally used in the East mixed into an Unguent with other Astringent Extracts and Applied with advantage to Old Ulcers.

Uva Ursi. This is the *Arbutus Uva Ursi* of Linnæus it is found in New Jersey, Penn<sup>a</sup> New York, and as also in England. Some Physicians are of Opinion that the Ancients were well acquainted with it and employed it in some of their diseases. They are of Opinion that Dioscorides was acquainted with it and used it frequently. but all this uncertain for the nomenclature of the Ancients is so different from the Moderns and at the same time so obscure not having recourse to Botanical peculiarities, that it is impossible to ascertain what many of the remedies they mention in their writings are. The leaves of the Uva Ursi are quite Astringent and produce a styptic sensation on the tongue when chewed. The leaves when dry have the Colour of the Succus Pycnanthemum and strike a black Colour in a Solution of the Sulphate of Iron (though I do not conceive this to be a good test for an astringent) Water extracts the virtues of it better than Alcohol and decoction better than infusion; it has been given with advantage in Calculus Nephriticus and Calculus Vesicae Urinaria by D<sup>r</sup> Jurian who gave from five to ten grains

20 We know, that Urea may be  
rejected into the Urine without in-  
creasing the flow of urine much.

After 33- a new fails to  
in Pul. Con - but Dr. B has had no  
effect in the urinary stage  
Anangury in Blisters - Dr. Mitchell

At a dose and repeated it four or five times a day. but Dr.  
Barton gives it much longer doses in the same diseases  
and with evident relief of the troublesome symptoms. De  
Haen gave it in doses of  $\mathfrak{ss}$  -  $\mathfrak{ss}$  -  $\mathfrak{ss}$  at a dose and repeated  
three or four times a day. It is not merely in cases of  
Calculus that it has been used De Haen used it in  
Catarhus vesicae and Dysuria. A Dr. Barton has used it  
in cases of Mictus Cruentus or Bloody Urine both by  
two Stimulating injections used in a recent case of Gonorrhoea  
which had been prescribed by a person little acquainted  
with his profession, in this case it produced the most happy  
effects, it has been used in Fluor Albus with Advantage.  
I have succeeded very well with it in several cases of Gonorrhoea  
Virulenta it has been given internally in infusion and decoction.  
I have given it with success in several cases of Gonorrhoea with  
swelled testes and have exhibited an infusion as an injection  
in some cases of Chronic Gonorrhoea or Gleet, it is a most valuable  
medicine in all forms of this disease. Bell used it in what  
he called the fourth stage of Gonorrhoea, and thinks it the  
best medicine that can be prescribed his dose was from  
 $\mathfrak{ss}$  to  $\mathfrak{ss}$  three times a day. It is difficult to explain the  
modus Operandi of this medicine, it <sup>does not much</sup> increase the pulse and  
frequency ~~and~~ <sup>perhaps</sup> of the pulse and in large doses it  
is said to produce nausea but I never experienced any form  
it and have taken it considerable quantity, upon the  
whole I am inclined to think that it has been the artifice

*[Faint, illegible handwriting covering the page]*

That have been exhibited with it, and not the Uva Ursi that  
produces the sickness at Stomach for we find that those  
persons who mention this effect of our remedy gave it in  
combination with other remedies particularly Opium, which  
we know has that effect on many persons. If it is given  
in Nephritis Podagrica it immediately relieves it but  
at the same time produces a tightness and sense of constriction  
of the Chest which is very troublesome. I have frequently  
taken it in this disease which I am very subject to, it  
instantaneously relieves the Complaint but I was sure to  
have the Constriction of my Chest to a considerable degree  
In very large doses it purges Blispon says it diminishes  
the Irritability of the ~~Uterus~~ Uterus and Coats of the Bladder  
D<sup>r</sup>. De Haen supposes the Uva Ursi to rob the Calculus  
of the Mucus which it contains, and thereby alter the attraction  
of the Integrant parts by which means it falls to pieces and  
is expelled along with the Urine, but from numerous facts  
it is proved that the Uva Ursi has been of great service in  
Cases of Calculus when no effect was produced upon the  
Stone. D<sup>r</sup>. Kuhn of this City prescribed this medicine for  
a boy in Pennsylvania Hospital who had a Calculus he  
was Eleven years of Age after taking it two months he  
voided his stones with the Urine, The dose he took was from  
ʒi to ʒʒ three times a day, he was discharged supposed to  
be well and after being gone some Weeks returned with

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His former symptoms much as when he came in the first time he was again put upon the use of the same remedy which was persisted in for three or four weeks when he was again discharged supposed to be well, he again returned in the course of four five weeks and was continued in the use of the medicine for some time when he was discharged well, since which time he has had no attack of the complaint. Although several years have now elapsed since he was discharged. I forgot to mention that the last time he was in the Hospital warm Olive Oil was injected into the Bladder which much allayed the irritation. I have found it useful in One Case when discharged several pieces of Calculi. It is often of service in this complaint by altering the Urine which is frequently thick and acrid. After taking this for some time the Urine regained its natural colour and consistence and was thereby deprived of its acrid qualities. Perhaps One reason of this medicine being of service in certain diseases is owing to its containing an astringent and bitter quality combined and therefore is a Tonic, it also sometimes shews a manifestly Astringent effect.

*Grassum maculatum*, grows in various parts of the United States it is found in the vicinity of this City where it is known by the name of Crow-foot, the root is a very

To be used as a ledger



Powerfull Astringent without containing any bitterness it is  
much used in the vicinity of German Town by Dr. Hoen in  
in Cases of Cholera Infantum and Morbus, by generally used  
it boiled in Milk, and as it is a very fine Astringent I think  
ought to be used much oftener than it is in Cholera which  
Appears to be a fever of the intestinal Canal. It has been used  
in Nephritis with some Succs and another Germanium called  
by some the herb Robert has also been used with success in this  
Disease.

~~Uta~~ <sup>Muscipora</sup> Americana or Alum Root is one of the most intense  
Astringents I am acquainted with. The Root is the part most  
frequently employed in Medicine which has been used in fine  
powder in Cases of Cancer, taken internally and also the  
whole Ulcer covered with it, this I submit to you upon the  
Authority of several Physicians in the Western Territory especially  
near Fort Pitt where it grows in great Abundance, this is  
supposed with very good Authority to be the Vegetable astring<sup>t</sup>  
which in Combination formed The (with Arsenic) famous  
Cancer powder of the celebrated Dr. Martin and which he  
used with Succs in several Cases in this City. I think it is  
seldom of use Alone in real Cancers, but that it has often cured  
Obstinate Ulcers which have been mistaken for Cancers, and here  
I may observe that Astringent Medicines are not used half so  
often in Obstinate Ulcers by our Surgeons as they certainly  
deserve. I would recommend this plant as a fine subject for  
a Thesis.

The animal cannot have  
 the bone colour by itself -  
 the Amphibian -

Dr. Barton recommends in Jaundice  
 a gala Rickets - gala - is it colour  
 of some note -  
 to colour bones Dr. Barton suggests  
 by chemical affinity it is af-  
 fected from the bones  
 they loose their colour.

Virginiana Præparata. or New Wood. commonly called  
Virginia Broom Brake or Cancer Root is found by Linnaeus  
in his class of *Dydimamia*, and Order *Asiospermia*. It is a  
very powerful astringent and contains a great quantity of  
bitter matter it can therefore be used as a Substitute for  
the Peruvian Bark with great prospect of Success. it  
has been used in *Fluor Albus*, and has performed some  
surprising Cures in Old Obstinate Ulcers which has  
resisted every other remedy Applied to them.

*Tramentilla*. This is not to be found in North America,  
it is a native of the Old World and appears to be a very pure  
Astringent and has been used in the process of Tanning leather  
in Italy. it has been used as a Substitute for the Peruvian Bark,  
in combination with Bitters particularly Gentian it has been  
found of great Service, it has been highly recommended to  
prevent Abortion and when we consider that this is  
frequently induced by a relaxation of the parts we are not  
surprised it has been of Service, it has also been recommended  
in Cases of *Fluor Albus*.

*Rubia Tinctorum*. This has been recommended in  
those Cases in which Astringents are indicated but it  
possesses very weak Astringent powers its most celebrated effect  
is that of colouring the Hous of such Animals as are fed  
upon it. Of late it has been recommended as an emmenagogue  
under which head it now properly belongs. and where  
we shall consider it more fully. Madder

By the union of Sulfur and alumine, it has  
 been used in tanning, but it was not found  
 to answer - it has been used in Intermitting  
 fever joined with uterine, about 1 hour before  
 the paroxysm came on - from 5 to 10 grs -

In Colera Infantum alumine mixed down with Gum  
 arabic with sugar -

Sulphate of Alumina, <sup>+</sup> Or Alum, is very Abundantly  
diffused throughout the Earth, it is found in large  
quantities in many lands, it is a most powerful astringent and  
is frequently used both externally and internally in many diseases  
we will first consider its internal use and afterwards the  
external use thereof, it has often been used with advantage  
in Cases of Red Blood and Dr. Cullen used it in uterine  
hemorrhage in large Doses. the only Objection to its use is that  
when given in Considerable quantities it purges when Senna  
or Abacis is to be added. His dose was from five grains to a  
Scruple twice and three a day. Dr. Fowler used it in Scabietic  
Cases and speaks very highly of it the following is the recipe  
which he generally used the dose of alum from  
5 to 20 gr -

R Pulv. Alumina ʒi

" Galias ʒss

rubbed well together and divided into ten doses of which two  
three and a four were given in a day. I have succeeded with  
this says Dr. Patton in Cases of hemorrhage when the Sae-  
nturion has failed. Dr. Thompson speaks of having used it  
with great Success in several Cases of Fluor Albus but Dr.  
Cullen does not think it of much use in this disease. it  
has been used as an injection in Gonorrhoea in conjunction with  
a decoction of Oak Bark, Galis. the following is the manner  
in which it has been used

R Cort. Querc ʒi

Q. Balaust ʒxxx

boiled down to 10 when ʒii of Alum are added or simply

Acid Diabates —

Dr. Cullen says he has used it in Lym-  
pho — in every state —

cases are in here —

Dr. Bar — I ask on the Pulse quickness  
a little

By adding half a dram of the Alum to eight Ounces of water  
and injected into the Urethra but these are too strong when  
much inflammation exists Alum why has been recommended  
very highly in Gonorrhoea, and Dr. Wistar used it with  
great Advantage in One Case. Dr. Dover recommends it in  
Cases of Diabetes in which he says he has succeeded well and mentions a number of Cases which  
certainly tend to show that it is sometimes of great Service. Several  
Physicians have used the Alum in intermittent fevers  
combined with Nutmeg giving it an hour before the commence-  
ment of the Cold fit. Dr. Lind thinks it next to the Cinchona  
in these Cases and Dr. Kildair of Scotland has used it with  
Candia Alba in the dose from five to Eight grains of the former  
to a dram of the latter and given three or four times a day.  
Dr. Chaumes used it in the malignant fevers of South Carolina  
in combination with the root of the Seneca Polygala the  
Fruit. The bark he added thereto when it had a disposition to run  
off by the bowels.

Of its External Use, it is frequently prescribed mixed with  
common water in Ophthalmia and in the Ophthalmia  
Tarsi and seems to be preferable to any other Astringent, in  
Some Cases the common proportion was from five to Eight  
grains to an ounce of water. It is also used in Gargles in  
Cynanche Tonsillaris, Maligna but also in the Common  
Sore Throat, a method of making a gargle which some use  
is by adding a quantity of Sumach and Seneca Polygala  
in proportionate quantities.

all the same and as soon  
 mixed the nitre of an egg with all the  
 for gun - All the rough with -

Do 311 -  
 last 10 11  
 and more 92 -

of Lead - Has Lat Lead heat  
 at 594

The matter of Lonic is brown  
 down by the nitre of Silver  
 and has cat one in a white the  
 other in a yellowish -

It is proper to observe here that we shall take no notice of a great number of Medicines plac'd by D<sup>r</sup>. Cullen in his Class of Astringents because we believe them to be of little Service, and to be very weak and moreover many of them will come in more properly when we consider Tonics which will come next.

## Of Tonics

The celebrated D<sup>r</sup>. Cullen was of Opinion that by the combination of Astringents and Tonics the best effects were produc'd he thought that Medicines exerted their effects upon the minute terminations of the Nerves and was propagat'd from thence to every part of the System he was of Opinion that the muscles were compos'd of the minutest terminations of the Nerves. Astringents and Absorbents. I am of Opinion that almost if not all Astringents act by Stimulating in a particular degree, but that by so doing a particular action is produc'd which when situated in the Mouth we call a Corrivation thereof. I think that their Action cannot be explain'd by their Stimulating effect if we suppose that though they Stimulate it is done by all in the same manner, but the contrary is the case. The greatest number of Astringents are Tonics, but the contrary is by no means the fact, it is true a tonic power is in general the best; when bitter and Astringents are combin'd as in the *Cinchona Officinatis*. Tonics and Tonics are terms of a very Mechanical Nature and denote such Articles of the Materia Medica as give strength or tone to the Muscular fibre in particular and to the whole system in general, by them I mean certain Medicines that give or impart strength to the

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Body whether Applied externally or taken internally

Bitters are not Tonics because they are bitters, and this is proved by several facts. 1<sup>st</sup> There are many intense bitter Astringents which were never supposed to be Tonics as Opium and a great number of the hottest Vegetables, 2<sup>d</sup> Many Tonics are not bitters as for example the preparations of Copper, Iron, the Muriate of Tin, Capsum Ammoniacum &c to which may be added Galles which are a very valuable Tonic, without containing any bitters. Cold Bath, cold Air, Exercise, Alum &c, The Sulphuric and Muriatic Acids are excellent Tonics yet are destitute of Bitterness, we see then that many Tonics are not bitters, but it is generally admitted that all Bitters are Tonics perhaps some exception may yet be found to this suggestion or principle, a combination of Bitter and Astringent enter into many of the Tonics, yet some of our most valuable ones are destitute of one of the principles thereof viz. Astringency.

No medicine can exert a tonic effect upon the System that does not produce some effect upon the Arterial System, D<sup>r</sup>. Cullen asserts that bitters are not Service in the intermittent fevers, I am of Opinion that they are and that they do it by virtue of their Stimulant property, D<sup>r</sup>. Cullen says bitters do not increase the frequency and fullness of the pulse, but I am firmly persuaded that they do which is proved by many facts where otherwise is the heat and sense of string the produced by the taking a Dose thereof and how is the nausea which sometimes occurs to be accounted for, further more

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We know that the force and frequency thereof is produced by  
throwing a decoction of Bark into the system

All the different Gentians are intermittents as the *Gentiana Lutea* &c.  
Different Bitters possess different degrees of Stimulant power, it  
may with propriety be said that all the virtues of the Materia  
Medica are Stimulants, but I do not believe that they all exert  
their good effects upon the human body merely by virtue of  
that property perhaps at some future day a scale will be constructed  
showing the force by which all medicines act by their  
Stimulant property upon the human body and their relative degrees  
of action but I do not think such a scale will ever be of that  
great practical utility which some suppose a great deal is to  
be met in Authors upon the Materia Medica about Sedatives  
but from numerous facts and the new principle of Animal  
life (Dr. Brown) I hold it to be fact that no such medicines  
as direct Sedatives exist and that all those Medicines which  
were formerly called Sedatives are indisputably Stimulants  
or Incitants, it has been common to use the *Digitalis purpurea*  
as an unanswerable Objection, but we now will know  
that the primary Effect of *Digitalis* is Stimulating and  
that the reduction of the pulse in force and frequency only  
a secondary Effect, Opium is ranked by Dr. Cullen among the  
Sedatives it is true he puts in his Order of the narcotics but class  
Sedatives and we know it is a powerful Stimulant  
From the foregoing Observations it may be thought perhaps  
that I believe Medicines to act in a great measure if not



Entirely by Stimulating but I do not believe that it is merely by  
virtue thereof and that they all operate in the same manner  
only differing in power or that it is by a certain Quantum  
thereof far from it, I believe that they all stimulate and that  
their good effects depend upon that Operation, for it is a fact  
well known that different Stimulants taken so as to agree in  
power produce a very different Effect, Water taken in such  
quantities as to intoxicate produces Inanimability, Brandy  
or Rum that combined with acousiness and rough manner  
of expulsion, while wine taken in such quantity as to  
produce the same effect viz Intoxication, produces  
Hilarity and politeness.

Bitter is a simple perceptive or taste made upon the tongue, Taste,  
which cannot be defined it may be called an impression  
made upon the Organ of taste which imparts an Idea  
to the mind this Idea being always produced by similar  
substances of the same nature is therefore entitled to name  
and which is called bitterness, we are not acquainted with the  
Component parts of bitter and are therefore uncertain whether  
all bitter possess similar Component parts as far as respects  
the bitterness, some of our best bitters are without smell and  
others are possessed of a high degree of Aromatic quality, some  
of them give out an essential Oil others do not, some of the strongest  
bitters yield no Oil in distillation, bitter and Aromatic qualities  
reside frequently in the same Vegetable, as we see in Snake  
root. I agree with Dr. Cullen that Tonic medicines do not

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Popes any Saline virtues, may be far from that asserting their effect it has been found that the most powerful bitars have no Saline properties, neither do they possess any Acid property, it is true that many of the bitars yield an Acid or neutral Salt by being subjected to the Chemical test or trials, but I am of Opinion that those Substances which are commonly said to reside in them are prepared by the different chemical combinations and Affinities.

I am now in a few words to consider the various Diseases in which they have been recommended, and to determine with what propriety they can be exhibited, those cases Dr. Cullen whose Authority ranks high in the Medical World observes that in some most Obstinate Cases (and other of Dyspepsia) affections of the Stomach they have done very great Service, in many cases they promote the Digestion especially when the Stomach depends upon Acidity either primary or induced by previous disease when the bitar or Gastric juice become vitiated bitars combined with Astringents afford relief, they have been recommended to remove Fiscal Obstructions, they in general I believe are not of much Service when exhibited with this View, but there is one Species in which they do good, that is in Cases of Constipation depending upon debility of the intestines which is frequently the Case with the Sedentary and Studious, Chamomile has been recommended particularly for this purpose I know not that is superior to many others, if it is perhaps one reason why it is so, may be that it is not so stimulating as some others.

Potusae Said to possess minute quantities, in general I believe

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They do not, although perhaps some of them may, there is only one  
Case in which they can be said to be so, that is dropsy coming on  
after long continued or protracted intermits or remittents whereby  
considerable debility has been ~~produced~~ produced in which case  
they act by removing that by which means the Absorbents are  
rendered able to perform their proper Actions, in which case the  
effused fluid is taken up and part of it is sent from the Blood  
by the Kidneys and so cast out of the System. Panderion  
is one of those remedies which have been used in dropsy, combined  
with Alkali Salt, but some Authors doubt the usefulness  
of this combination, if when given there is a phlogistic diathesis  
they do harm. I may remark at this time that the frequent  
use of hot teas in inflammatory diseases are productive of  
much injury, nothing is more frequent and at the same time  
more injudicious than Chamomile, Centaury and how some  
tea in Pleurisy, Pneumonia &c.

Bitters and Citters are very useful in Dyspepsia Nictica, and all  
Cases of Menstrual debility where that exists from any cause; Bitters  
Sometimes act as Sudorifics especially when given in the form of tea  
accompanied with a considerable quantity of warm water in which  
Case they are also to prove diuretic, but I believe it to be the aqueous  
menstruum which accompanies them, that produces this effect if  
not entirely at least in a great measure, Dr. Cullen says they are  
Sometimes useful in Dysentery and Spasmodic Cholera. Pure Bitters  
when given in large doses have been known to purge, but the  
same may be said of Astringents, it is known that  
Albumen one of the most powerful Storop will purge if given in



Large Doses. Bitters are said to be emmenagogues, as Stimulants, and  
if this they may be so. They are very useful in Chloecosis, when to  
prevent their bad effects they should be combined with Starch, with  
which the patient should be enjoined to use constant and moderate  
exercise and to drink malt liquor, some Authors highly recommend  
them as Anthelmintics, they sometimes discharge worms by means  
of their purgative quality, the Santonium has been particularly  
recommended for this purpose; bitters have been employed both  
externally and internally for ~~the same purpose~~ in cases of Obsolete  
Sore legs, they are said to cleanse the Ulcers and produce healthy  
granulations, perhaps they are of Service in some Cases by means  
of their Astringent quality, and the One which possesses this  
virtue in the greatest degree is the Cinchona Officinatis.  
They have been employed in fomentations and Cataplasms for  
dismissing tumors, when combined with aromatics they may  
be useful but I cannot conceive how they are so, they are said  
to possess a narcotic power, it cannot be denied that many of  
them do not and I believe that such a power is not  
necessarily combined with many bitters, Dr. Cullen says bitters  
seem to possess something of a Astringent, and narcotic nature, and  
when continued for a long time destroy the tone of the Stomach,  
this is not the fault of the Medicine but of the improper method  
of exhibition. There are some idiosyncrasies of Constitutions when  
they produce bad effects, but we are not to avoid using  
them upon that account, for in some persons these situated  
things possess of no power produce similar effects.



When given in Cases of regular and inflammatory Gout, and persisted in for a long time they remove it so that it will disappear for several years, but it never fails to return again with ten fold violence, and then to be regular attacking the head, Stomach, and frequently carrying off the Subjects thro' with Apoplexy, so that it is impudent and very improper to exhibit them in this disease with a view of removing it. Many writers have differed as to the most proper explanations of Tonics and their Method of Action.

By Tonics I mean such Medicines as give strength and Vigour to the System without giving much force and frequency to the pulse. The best Tonics are a Compound of Bitter and Astringents as the Cinchona.

D<sup>r</sup>. Cullen held an Opinion that Gout was dependant upon morbid Matter in the body, and that it always was preceded by ~~an~~ Coecal with an affection of the Stomach, which he supposed to be at any time. D<sup>r</sup>. Barton says Gout does not depend upon a morbid Matter nor is it preceded on Coecal with an affection of the Stomach for I have had several attacks of Gout to come on at a time when my stomach was in a perfectly healthy State. D<sup>r</sup>. Barton says that in his family the Gout always makes its attack without any previous affection of the Stomach, and unexpectedly while they are perfectly healthy, now this destroys D<sup>r</sup>. Cullen's Theory that it always takes place in the Stomach previous to an attack of the Gout.

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I have made it a subject of enquiry among my Gouty patients since I discovered this in myself, and find that numbers are attacked with gout at a time when their Stomachs were perfectly healthy. I am acquainted with above twenty persons who have paroxysms of regular Gout without any preceding or concomitant Thirst, Being to Dr. Cullen's believing the Gout to depend upon morbid matter he supposed the paroxysm to depend upon the efforts of the System to throw it off, this he called the its Indicative nature and supposed it to be proper for certain powers to propel that which was noxious from the system, that is a painful Thirst and to be ranked with the Acheus of Van Helmont as there is no more proof of the existence of One than of the Other and the Opinion of Boerhaave that Man possesses a soul that watched over him and kept his body from harm by propelling those hurtful powers that were applied and preventing their action on the System has just as much to support as either Cullen or Van Helmont's Opinions.

From some foregoing Observations as well as some mentioned by some other Authors a question will naturally arise in your minds, viz. Can Bitters ever be safely used in the treatment of Gout? The Ancient Physicians allowed Bitters to do both good and evil in the Gout, some of them we find recommending medicines of this Class highly, others saying they have been of service in their hands, we all remember how celebrated the Pettant powder was half a Century ago for the cure of this disease yet I believe few Physicians would prescribe it in this



Country now. Certainly it would not have fallen into dispute without a cause, it must have been in great harm in many Cases. Galen says Bitters are of Service in Gout, in the first four years but after that period they do harm and many practitioners of the last Century support this Opinion of his. They never fail to render the disease irregular if taken and persisted in for several Years, at the same time that they bring on Dyspepsia, Hypochondriasis &c, and it is now the Opinion of all well informed Practitioners that they do more harm than good, as they produce other diseases worse than Gout when they relieve it. Where Acidity of the Stomach or Intestines Occur from Gout Bitters could be given with advantage but they should not be persisted in for a long time. It has been observed that the Gout is more irregular in the United States than in Europe and that when it begins regular, it sooner becomes irregular it is now the case totally than it was fifty years ago, and up to now than it was four years ago, it appears as though some bad change had taken place since then either in the State of the Atmosphere or somewhere else with which we are not acquainted which predisposes to more violent diseases than formerly, but it appears as though there was a turn taking place, and that we should again have more simple and less violent diseases to contend with than we have had for some years past. It has been observed that the Cinchona always does harm in the Gout so that when it is proper to give Tonics or Bitters

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The Bark should always be avoided. The Dogwood Bark has been given with advantage in some Cases of Gout attended with debility, and in Rheum's dependent thereon, it may be observed that this last Symptom or Complaint mentioned is very frequently a Symptom of Gout, Tonics and especially that Class the most called Bitters should always be given in Substance when the Stomach will bear them any how or else, for many of them particularly Bark, Gentian, and Colombo, do not give out much of their valuable properties to decoction or infusion, and that Tinctures made with proof Spirits or Alcohol does not perfectly extract them, not to mention that we can never exhibit any Medicine in Tincture in large Doses on Account of the Menstruum. Colombo and Bark should always be given in Substance if the patient can possibly retain it, On his Stomach as they do not give out ~~out~~ their Virtues well to any Menstruum, but there are many Cases in which it is absolutely necessary to use Bitters in infusion, decoction, and tincture, but as a general rule we should never employ the Spirituous or tenous Tinctures unless we cannot avoid in as many persons thereby acquire a love of Spirits. Digestion and trituration have also been employed in Diseases with Succap. Tonics give out their Virtues better to warm than to cold water, and the longer the Water digests on the Tonic, the more the Bitters are extracted, but the shorter the time the Water remains thereon the more pleasant the decoction is. it has been found by numerous experiments that twenty four hours is a sufficient length of time to

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Let the Water remain on the Tonic, and that if it remains longer, a disagreeable taste is contracted. Wine does not extract the Virtues of Bitters better than Water, and the few Water will in general answer every purpose that wine would with the advantage of not being disadvantageous to the patient, for we know that many persons have become intemperate by a love of Spirituous liquors which they first contracted from that very bad custom of using Wine Bitters, and it is our duty to prevent persons becoming Drunkards and by no means to prescribe any medicine that would have a tendency to make them so through the menstruum used to prepare it. perhaps the only case in which wine ought to be used as a menstruum for Bitters is in those cases where we wish to produce a greater stimulant effect than the Bitter would do alone, but in these cases we should be exceedingly cautious. Bitters can be given in Substance in many cases when it would be improper to administer them either in infusion in Wine or Tincture on account of their stimulant property. A new Method of giving tonics has been promulgated by the Count de Gray, it is by triturating the medicine in cold water for a considerable length of time, by which means it takes up the finer and more volatile parts of the Tonic, and leaving the grosser, but this will seldom or ever be used by the Generality of Physicians, on account of the trouble and expence of the Apparatus necessary to do it according to de Gray's manner by means of a Digester with an extract

+ Dr. Barton says the *Gentiana Letea* never  
has been found in America

The Virtues of Tonics by Water so as to prevent the more volatile parts escaping. One made according to Papius would answer the best and if this method could be brought into general use it would be greatly preferable to any other except giving the medicine in Substance as the more volatile which is always lost in decoctions made in the Common manner are here preserved. Tinctures made with proof Spirits and Alcohol extract the Virtues of Tonics better than anything hitherto brought into general use, but one great inconvenience in them that they cannot be given in considerable quantities in this manner on Account of the Menstruum. I shall now to treat of particular Bitters and first of the Gentiana or Gentians these are all bitters and Stimulants or Incitants the first to be taken notice of is the.

*Gentiana Lutea* or Common yellow Gentian is a native of the Old World, but has been found in some of the Mountains of Pennsylvania, the root is several feet long and is cylindrical. Water and Alcohol extract the Virtues the latter more powerfully than the former. The infusion proves Antisepitic preventing the putrefaction of beef thrown into it for some time, it has been given with great advantage in dyspepsia and debility of the Stomach and intestines, it dissolves or attenuates Pessia phlegm improves the Appetite and assists digestion. it is a principal ingredient in the *Clava Stomachicum* which is composed of the following Articles, *R. Cor. Alcant.* ʒvi  
Extract of Gentian ʒss. and pot Wine two pounds, this is

+ Brancy French

Digested on a Sand bath for several days and afterwards Strain'd.  
The Dose is half an ounce four or five times a day. The *Trinctum*  
*Stomachicum* also contains Gentian, it is made in the following  
manner. Four Ounces of the Peruvian Bark, Orange Peel and  
Gentian of each ʒss on ʒii Water pour pounds; These are  
digested several days upon a Sand bath. The Dose is One ounce  
four or five times a day. The Yellow Gentian has been said to  
be of great Service in the Gout and Calculus, but from what  
was said upon that Subject when treating of Pities in  
general it may be presumed that it does more harm than good.  
As to its Use in Calculus complaints I can say little but presume  
that it is of no Service in those which are accompanied with  
Gout which is frequently the Case.

Gentian ought to be always given in Substance and in fine  
powder as it exhibits its best effects when given in this  
manner as it is the best bitter we are acquainted with, and  
not inferior as a Tonic to Colombo or Quapica. Some writers  
say that the Gentian is as good as the Bark in the cure  
of intermitting fevers, but that when given with this intention  
it ought to be combined with Galis. I believe the Cinchona  
to be superior but that the Gentian stands next to it.  
It has been given combined with tormentill already treated  
of under the head of Astringents and Galis which it is said  
under the effects more durable. Dr. Whyte gave it with  
success in all Cases of Debility or long continued remittent  
or Intermittent fevers in this form as it when combin'd

Hydrastis -  
Zausneria  
H. Landicus -  
Cannemide

With Oak bark, it has been recommended by some writers in  
Visceral Obstructions and Cases of Dropsy. They gave  
the extract in doses of ten grains three times a day.  
It is said to have been useful in Worms, I have no doubt in  
Sometimes expelled worms when it acts as a Cathartic. It  
has been made the base of several Quacks remedies, and is  
the principal remedy in Houghtons Elixer known by the  
name Gentiana Composita Structura of the Edinburgh  
Dispensary. In some Cases of Obstinate Cuts it has been  
given internally combined with the Rust of Iron in the  
dose of Eighth grains of each and repeated three or four  
times when persisted in for a long time has cured them  
uniformly I never knew it to fail.

• *Gentiana Centaureum* of Linnaeus it grows in Italy and  
Pennsylvania the leaves and Root are the parts principally  
the parts employed in Medicine they are very bitter. The bitterness  
is extracted better by the Spirit of Wine than Water, but the  
Observations made when speaking of the *Gentiana* are applied  
with peculiar force here. Dr. Murray says, this is ~~not~~ less  
Antiseptic than the *Gentiana Lutea*. The *Centaureum* is certainly  
not so good as the Yellow *Gentiana* as it purges in large doses  
and much more frequently than it. It does not agree so well  
with most Stomachs as the *Gentiana Lutea*. It has been  
given by some Physicians in Jaundice when it depends  
upon Torpor of the Liver, *Caecula Jelis* it may have been  
of Service. There are several other Species of *Gentiana* found  
in the United States that are not to be met with in other

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Countries, but it has not been discovered that they possess  
any superior virtues to the Common Yellow Gentian. Before  
leaving this Subject it may be proper to observe that the  
Gentiana Centaurium is not the Centaury to be met with  
in our Markets, which is of a different Genus entirely, that  
which we buy in our Markets under this name is the  
Piponica Angularis of Linnæus it appears to possess the  
Common virtues of Centaury but not in so great a degree.

*Quassia.* So called from Quassy a negro fellow who first  
employed it in the intermittent fevers of Surinam with great  
Success, it is the *Quassia Amara* of Linnæus and grows in  
South America, Surinam, Sumatra and Java. every  
part of the tree appears to possess a considerable degree of  
Bitterness as the root, bark, leaves, flowers, wood, it is a  
pure, powerful and very agreeable Bitter without possessing  
any astringency. It has been used as a Substitute for the Bark  
in the cure of intermittent fevers with Success. Dr. Monro  
used it in Dyspepsia and other affections of the Stomach with  
Success he also used it in Dropsy in the dose of fifteen and  
twenty grains three or four times a day and has a high  
Opinion of it. Dr. Lettison says it is the best of all medicines  
in affections of the Stomach, Hysteria, Atony &c. he used it in  
the following manner viz. to half a dram of the powder he  
added a Temple of white Vitriol upon which he poured 8oz  
of boiling water and boiled down to 6oz this when cold he

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Give half an ounce four or five times a day, but I think it  
impossible to tell which produces the best effects in this  
prescription for we know Vitriol Album to be a powerful Tonic.  
Simplicity should be aimed at in all our prescriptions and  
deceit goes hand in hand with knowledge, Some Cases  
is certainly due to the Authority of Began. who says he used  
it with advantage in Gouty Cases, it is much to be regretted  
that he did not give us the History of the Cases in which  
he found it successful without which it is impossible for  
us to administer it without standing a great chance to  
do more harm than good, and from what was said when  
speaking of the Use of Bitters in Gout you may remember that  
I thought they could seldom be prescribed without doing harm  
and if continued in for a great length of time never fail of  
producing Dyspepsia, Fever, Dropsy or some other disease worse  
than the Original one they were given to Cure, so that I consider  
the Use of Bitters in Gout to be in general a dangerous and destruc-  
tive practice. The Tussac Amara has been recommended in  
Calculus Complaints and in debility of the primæ Viæ, in the  
former disease it can only be used with advantage when  
the patient is debilitated and no inflammatory action present.  
In Chronic Diarrhoea which is frequently continued from  
weakness of the intestines this Medicine has been found of  
great advantage, some have combined Colomco with it  
when given in this disease,

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*Quassia Excelsa* or *Polygona* of Linnaeus, is a tall tree which grows abundantly in the Island of Jamaica, it contains a fine bitter in great quantity in every part of the Tree except the Pulp of the Fruit, leaves, roots, barks, and ligneous fibres also contain an equal portion. The Physicians in the Island in which it grows say they have employed it in dropsies with success, which supervene upon long continued intermittents and remittants which have debilitated the patients very much, they have also used it in intermittents, in Cholera it has been found highly serviceable, it is a very proper remedy for Dyspepsia, and has been used in that disease if it can be so called which Surgeons call Pica and known among the Natives by the name of the Dirty disease of the Negroes, the dose was from fifteen grains to a scruple.

### *Quassia Simarouba* or Mountain Quassia.

The virtues of this medicine are extracted by Water and Alcohol, Cold water extracts more than hot Water, it has been used with success in many Cases of Chronic Diarrhoea some have highly recommended the Simarouba in Dysentery, if it is used in this disease it can only be in the last Stage and after all inflammatory action has finished for if administered before it must inevitably do harm. Therefore it can only be of use in Dysentery Cases after all inflammation is gone, and when the Tenesmus is kept

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Up by Debility of the intestines. Authors caution us against  
using Simarouba in Dysentery when from the long Continuance  
thereof or any other Cause bear inducement to believe Ulcers to  
exist in the Colon or Rectum for say they in these Cases  
it generally does harm. Dr. Ross says that in putrid fevers,  
as he calls them it has performed wonders. The fevers which  
he designates as putrid were attended with great debility loss  
of voluntary motions, some great perspiration but sometimes  
burning sensation of the Skin, and very dry, low Delirium and  
Subustus Siccidinum with a most violent Diarrhoea so as  
to trouble the Patient incessantly to go to stool, Examinations  
of a dark Colour, and in a great number of Cases, Petechia  
over the whole Body.

<sup>Menyanthes</sup>  
~~Sparganium~~ *Sipolia* of Simons is an intense and strong bitter  
and is a very pure one it has been used in Gout by Dr. Astruc  
who says it kept off the regular attacks of the Gout for some time  
but that it was of little advantage as soon other symptoms of  
Gout came on, it is used in Jusy in Gout, and Rheumatism by the  
Country people.

The Marsh *Sipolia* of the English and grows plentifully in  
Jusy and some parts of Pennsylvania, it is a strong bitter  
and strikes a Black Colour, with a Solution of the Sulphate  
of Iron, if given in doses of Forty and Sixty grains it proves  
Cathartic. It has been used in Gout but from preceding observation  
on the use of Bitters in Gout you may judge of my Opinion of  
the use of this Medicine herein. The whole vegetable proves Sour.

• *Moringanthes*

\* *Lupulus communis* of *C. castaneus*,  
*Moringanthes*, *Centium* *doctum* bitter may be  
used in brewing, but the hop is the most plea-  
sant.

The best preparation for Medical purpose is a watery infusion of the dried leaves it has been used Rheumatism; having never used it myself in this disease I cannot say much of its virtues therein.

*Mithans* or Buck bean has been used in Artthritis by some Authors, the more common use has been in the form of fomentation in Cases of Sinia Capitis and many Cutaneous Eruptions in which it is said to prove a valuable Medicine, some have used a poultice made of it in Cases of Sinia but the majority prefer the fomentation.

*Centauria Benedicta* or *Blepharistemma* valued by the good old Women Benedictus. It possesses considerable Bitterness which is best extracted by Cold Water, it has been used as a Cataplasm and in fomentation in Cases of Cancer in which it is said to have been of Use. In intermittent Fevers it has been successful and has been used in Plague by some of the Levant Practitioners, it certainly has been of use in many Cases of Yellow Fever which is usually allied to Plague, but I believe it has been of Use after the inflammatory Stage, the most common purpose to which it is applied is that of assisting Emetics in which Case it is given in the form of tea in Combination with a large quantity of Water, it is certainly very fit for this purpose.

*Stimulus Lupulus* or Common Hop the properties are much the same as other Aromatic bitter herbs. Some Authors have a high Opinion of the Efficacy of the Virtues of the Hop, Symplicianus, but fourteen hundred for the Stone not one of whom when Porter or malt Liquor drinkers, this is powerful fact, but I

Dr. Barton made a tincture by adding 4 drams of  
 the Hop Blossom to  $\frac{1}{2}$  pint of Alcohol of which he  
 let stand for ten minutes, and gave 50 drops of it  
 for a dose to adults he speaks of it in very high  
 terms; as not leaving that unpleasant Head ache  
 the next day that Sassafras does. This tincture  
 must be frequently agitated during its  
 mixture and kept in a temperature from  
 90 to 100 degrees & draw its surface up  
 covered with oil he believes however  
 Barton says there is a narcotic  
 narcotic power inherent —

In 1709 Dr. B. said that the Hop  
 was a narcotic —

Still think Matt Liguors favour the formation of Calculus. Hops  
posses an anodyne property, a Tincture of them has been used  
in Edinburgh which produced Sleep in many Cases where  
Opium has failed Hops Pillows induce gentle Slumbers.  
They produce Sleep in George 3<sup>d</sup>. when nothing else would.  
Mr. May was of Opinion that since the addition of Hops to matt  
Liguors fewer Cases of Calculus have Occur'd. This I think  
is a mistake for Dr. Sydenham who practis'd twenty years  
since this took place, mentions this very prevalent in London.  
Dr. Darwin says Men Dieters have Gout while those who  
drink Matt Liguors have Gravel, and is of Opinion that they  
tend powerfully to produce Calculus Complaints. I think  
Matt Liguors lay the foundation for Nephritis and Calculus  
at least that has been the Case in myself for I, I drink or  
suck or sip of Peter I am sure to have an Attack of Nephritis  
nay I cannot drink a Wine glass full thereof without experiencing  
Pain in the Kidnies. The same effect is produced upon my Brother  
by the use of Peter but perhaps it may be an idiosyncrasy for us.  
Therefore you must not rely exclusively upon these facts but wait  
for more. The Peter is certainly a powerful Tonic which depends  
in a great measure upon the Hops it contains. Dr. Cullen thought  
there was something nauetic in Hops perhaps it may be so,  
but I have no positive proof of the fact. Peter is used as a  
Tonic in many Cases of Debility it is preferable to wine says  
Dr. Boerhaave for Patients labouring under Typhus Fevers.

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This powder was first brought into Europe by the Jesuits and  
hence its name, it is very delicious, half a dram of the  
powder's Sud was made into a bolus and given to a  
dog, on whom it produced in a short time convulsions and  
Death, Dr Lewis says 2 grains are equal to an oz  
of succinebark.

§ 3. Rem.

It certainly is a most valuable article in the Cure of Chlorosis  
I believe the continued use of Porter to be more injurious than  
that of Wine.

1. *Saba S. Ignatia* or the bear of *S. Ignatius* is the most  
intense bitter substance discovered along with its bitterness it  
possesses a considerable narcotic power, if given in large doses  
it produces Nausea, vomiting watery cold sweats &c.  
it has been used in intermittent fevers. Dr. Lind gave three  
grains of it infused in a pint of boiling water dose 3℥ three  
times a day. In three cases of intermittents attended with venereal  
Obstructions he administered the *Saba S. Ignatia* in the  
manner mentioned already. Two completely recovered it failed  
in one of the three, his experience with it amounts to  
this, that in many cases it was successful but that it  
also failed in many which were afterwards cured by the bark  
or other Tonics, it has been recommended in Epilepsy some say  
they derive use in with advantage Dr. Darwin has used it  
in this disease but he does not highly extol its virtues in  
this Complaint.

*Nux. Vomica*, Professor Brugman says it is nearly allied  
to the *Saba S. Ignatia* the berry thereof is of an Orange  
Color. The Seed which is the Part used in Medicine yields  
upon Chemical Analysis a Gumous and bitter matter of which  
a watery ~~Salt~~ Extract. The effect of the *Nux. Vomica* upon  
Dogs is very powerful half a dram killed a large Mastiff

= It has been used by a Taylor in Guinea with great success  
in tutians. A man may take three times as much of  
this medicine as a very large dog. Hence that rule of the  
celebrated Albe Fontana, of poisons destroying according  
to the size will not hold good here. It has been used  
in Lumbricus or round worms with advantage.

Cotton dipped in a decoction of it and applied to the  
Umbilicus has been found an useful anthelmintic in  
Children.

In four Hours, it caused Stupor and Apoplexy as when  
given in doses not so large produces powerfully in large doses,  
it stupifies so much that the Animal can neither see  
hear or feel, but is disputa that it exerts such powerful  
effects upon Men as upon Brutes and I may observe now that  
Some Medicines exert powerful effects upon us, that show but  
little when given to other Animals and this is the case, the next  
Somnia has been used to with success in intermittent fevers,  
An Empiric, Aquina much famed in India by curing their  
intermittent fevers with this medicine, It has been used  
as an Antispasmodic and said to possess great virtues in  
Expelling Sinus, the Tincture is commonly used.

*Sumaria Offinatis* or Common Sumitony of the English,  
The Sensible qualities are those of a bitter without odour, Watery  
Extract upon being Scarcely affords Chyristals resembling nitre  
which burns and detonates in the fire, This is one of those  
remedies used by the Ancients under the name of *Mentanus*,  
Hoffman says it is a valuable Sweetener of the Blood, we  
may here remark that all those Medicines formerly used  
with this intention and elapsed by *Matrua Medica* writers  
under this head are powerful ones. Dr. Cullen says this  
medicine is useful in many cases in which Bitters are  
employed, he says it is of service in cutaneous affections  
approaching to Leprosy. I have known it very successful  
in the *Sama* disease, Stansbury used it in Scabies as well  
as Leprosy, Dr. Thomson used a Gentianian of Leprosy by

Dr. Johnson has used it with much advantage in the bilious diarrhoea of the East Indies. Dr. Fucival says he has used it with advantage in the Cholera of tutting children. Dr. Botton has used in its old state given in substance, which is the form of exhibiting in any disease whatever, the tincture is the most powerful 2 1/2 oz root to 2 proof spirit is the recipe in the London dispensary.

Giving him three or fourtable Spoonfuls of the fresh juice  
twice a day and every other day a purge it generally purged  
him several times.

*Bauhinia Virginiana*. The bark of the root is reduced to fine  
powder, a heaped tea spoonful given several times a day in  
Cases of Dysentery with advantage. I have never used it  
myself and can therefore say nothing of its virtues from  
Experience.

*Lantana Opifolia* is a bitter nearly allied to Colombo.  
The bark of the Root is the part formerly used in Medicine,  
it has been recommended in those Cases in which Bitters and  
Tonics are useful, having never used it myself I can say  
nothing from experience of its virtues it is now generally  
relinquished for Colombo.

Colombo is One of the most powerful of all bitters, it is a  
Native of Asia and is perhaps One of the purest Bitters we are  
acquainted with. The Active part resides in the Root.  
Dr. Pereira made experiments upon the Action of this  
Medicine upon the Heart and Arteries he found it to  
be a Stimulant, It has been used in Dysentery by Dr. Pereira,  
who says it was of Service in those Cases in which astringents  
could not have been exhibited. (i.e. In the first Stage, In  
this City we have only used it as a Tonic, Dr. D. Moore found  
it of Service in Bilious Vomiting, after the Bowels had  
been first well Opened. he says it produced the happiest  
effects. It has been used with great advantage by some

Dr. Mouton of the 17<sup>th</sup> century who was contemporary with Sydenham says he used them with success in intermittents. Sir John Pringle has used it to mitigate the gripes in dysentery. 36 to 8

This has been used by Dr. Clark of Edinburgh as a remedy in Gout. Dr. Cullen says I was not living in the city when the cases occurred to Dr. Clark, nor have I heard what was the fate of those persons afterwards; but I have since learned or have been informed of many persons who have drunk the tansy tea as a remedy for Gout, of these however I have known several who have taken without any advantage and some others who reported that they had been relieved from the frequency of the Gout. Rosenstein joined it with milk as an injection in ascoides.

milk, water, night and morning

Physicians in that nausea so troublesome to pregnant Women,  
I have found it useful in Dyspepsia, which must be given in  
Substance and in large Doses; I have frequently prescribed it  
Combined with ribis & ferri, it may be given in doses of from  
fifteen grains, to forty and even <sup>thirty</sup> Sixty Now and four times a  
day.

Chamamillum or Chamomile. Dr. Hoffman has a  
high Opinion of this Medicine he gave the flowers in Powder  
in Doses of from Thirty to Sixty grains in intermittent fevers.  
He used it in flatulent Cholics and observed it generally to prove  
Cathartic which is perhaps one reason of its Success in Cholice.  
The flowers are made into a tea and given in many Cases  
both by Physicians and Old Women.

Sanaculum vulgare commonly called in this Country Tansy  
is used as a Tea in intermittent fevers to produce a Solution of the  
disease, it is moderately bitter and a strong and not very disagreeable  
flavour it has been recommended in Cases of Hysteria and in Cases  
of Surms.

Artemisia Absinthia or Wormwood is impregnates the milk  
of Cows who feed upon it with a bitterness on distillation an Oil  
is obtained. The leaves are much powerfully bitter than the flowers.  
The extract is said to possess a narcotic power, but Dr. Cullen says  
that when this effect has been produced by it, It has depended  
upon a certain idiosyncrasy of Constitution, I believe that a detentive  
quality is not necessarily contained in Bitters, Tho' not a part that  
Wormwood is not a Narcotic the contrary I think is the Case

= Artemisia Abyssinica. The flesh of sheep is rendered  
 bitter by feeding on it, the essential oil does not possess  
 any bitterness. Linderstjerna and his commentator Kungelius  
 has asserted that it possesses a narcotic power, but this  
 appears to have been a particular Idiosyncrasy in the  
 \* Instances they mention. On the other hand Pinnaeus  
 informs us that persons have taken wormwood very long  
 for 6 months together, observed no such narcotic effects.  
 I have not had an opportunity says Dr Bullen of making  
 proper Experiments, but Heister with Bergius and  
 Gleditsch, the odour of worm wood seems turbulent,  
 that is giving some confusion of head, and formerly  
 when it was a fashion to drink Teal, that is ale in  
 which worm wood is infused, it was commonly alleged  
 to be more intoxicating than other ales.

It has been used in intermittent Fevers Combined with Cloves.  
Some have also used it in Syphilis.

*Aristolochia Longa* is a native of the Southern part of Europe. The root which is the part commonly employed in Medicine is an Emmenagogue. Dr. Cullen used it in Chlorosis, it is one of the better Medicines formerly celebrated in the Cure of Gout. It enters as a principle ingredient in the Composition of the Pottland powder. In a great number of Cases the Pottland Powder has done mischief, it receives its name from the Duke of Pottland who himself received great benefit from it and afterwards made it public. Out of 500 patients who took it for Gout in England the whole number were dead in the Course of Three years, in some it produced Dyspepsia, in others fever, Diarrhea, Dropsy, Apoplexia &c. The Pottland powder is composed entirely of Bitter Articles of which the *Aristolochia* as mentioned above forms a principle part. The following is the Composition of the Pottland Powder.

R. *Aristolochia Longa*

*Gentiana*

*Gummander minor*, Sive *Succum Chamæ* of Linn.

*Cantarium minus* — *Gentiana* Crub. of Linn.

*Chamaepitys*, *Succum Chamæpithy*, of Linn.

of each equal parts to be mixed intimately together being previously reduced to a fine powder. One dram of which is to be taken every Morning ~~for ten~~ ~~times~~ fasting for three Months without the least interruption the patient fasting nothing for



An hour and a half after it. Forty Six grains are to be taken,  
daily in the same manner for the succeeding three months.  
Half a dram every day for the next six months: and half a  
dram every day for the second year.

In nine Instances says Dr. Cullen, I had occasion to know, or  
to be exactly inform'd of the fate of persons who had taken the  
Portland powder, for the time and in the quantities prescribed.  
These persons had been liable for several years, before to have  
regular fits of the Gout inflammatory, regular and painful;  
but after they had taken the medicine for some time, they were  
quite free from any fit of inflammatory Gout, and particularly  
when they completed the course prescribed, had never a regular  
fit, nor any inflammation of the extremities during life. In no  
instance however was the health of the persons totally entire.  
Soon after finishing the course of medicine, they became habitually  
indisposed in several shapes, and particularly they much affected  
with dyspepsia, and what are called nervous complaints.

In those whom I knew some dyspeptic symptoms appeared,  
which gradually increased in the form of an Acid or hyperthorax,  
especially the latter joined with Anasarca, in less than two, or at  
most three years proved fatal. These Accidents happening to  
persons of high rank, became very generally known in this  
Country, and has prevented all such experiments since.

*Aristolochia Serpentaria* or Virginian Snake Root, is  
a bitter united with an aromatic principle, it contains a Gumous  
Extract, from the experiments of Sir John Pingle it is proved

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To be an Antiseptic Cure of the body. It possesses little astringency  
It is a tonic and most especially a Stimulant as it always raises  
the Pulse, and increases it in force and frequency, it must be  
given with great Caution and is improper in all inflammatory  
Cases. Dr. Cullen Says the Aristolochia Serpentaria is of  
great Service in all ~~inflammatory~~ Cases of Typhus Malignus  
Combined with the Cinchonid. Sir John Pringle used it in  
the low State of Malignant fevers. Dr. Wittens used it in  
the plague when the patients were much weakened and  
found it of Service. His works ought to be read by every Student  
of Medicine as it is the best work extant on that disease, and  
as it has become interesting to every medical practitioner in the  
Cities of the United States to be well acquainted with it, as  
we have its Modification and something very near it epidem-  
ic at every Summer in our Sea Ports.

Dr. Hillary used the Virginian Snake Root in Yellow fever  
when the pulse began to sink, on the third day he began  
to exhibit it or sooner if the case required, but I may here  
observe that his experience and that of the Medical practition-  
ers of this City agree in this for they seldom found it  
necessary to give it before the third day, except in some  
very desperate Cases when the pulse sank sooner, and  
both have observed that if given during the first or inflamma-  
tory Stage it never failed of doing harm. Therefore Considerable  
Caution is requisite in giving it so as to time the medicine well  
that it may not be given too soon, as to do harm, nor too late as

St. John's River

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To be of no Service at all, Dr. Morton used it in intermittent fevers  
with advantage many more Authors could be mentioned but  
those are sufficient. In all Cases in which the Bark it can  
be given with or in Wine either in intermittents or any other  
Disease the medicine will be very improved by the addition of  
the Virginian Snake Root as I have found by frequent experience.  
An Aged and respectable practitioner of New Jersey informed  
me that in a fever which became epidemic in his neighbourhood  
that began in November he cured it with great success. The  
Symptoms of this fever were a pain in the Side and Head,  
generally Coma, burning heat of the Skin attended with  
Cachexia and Petechia and frequently subcutaneous  
Tenderness, all those that were bled died while very few of  
those that were not bled and took the Snake root died.  
His mode of exhibiting it was as follows. To half an oz of the  
Spirituos Tincture of Snake Root was added an ounce of  
the strong decoction. This was taken every three or four hours.  
The Serpentina has been given in Tincture, decoction infusion,  
and Substance, but from the difficulty of reducing it to a fine  
powder, I have seldom used it in Substance. The decoction is the  
preparation in which I have generally employed it which is  
certainly the best preparation we have of it. Some have given  
the Tincture. The dose is from half a dram to half an oz.  
but one fault is that with the Tincture we are unable to employ  
it in Cases where there is danger of exciting inflammation,  
and it can never be given in such large doses as the decoction

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On account of the Stimulating nature of the Monstrum.

*Amygdala Amara*. The bitter almond is the produce of a tree resembling the Peach tree (The Kernel of the fruit is the part used in Medicine) the *Amygdalus Communis* of Linnæus. The bitter almonds have been highly recommended in Intermittent fevers. Bergius says he cured intermittents by the following formula when the bark had failed. Two drams of the soluble Tartar, Honey an Ounce and half, The Kernels of bitter almonds One Ounce These were rubbed together into an emulsion with a pint and half of water, The dose was from half an Ounce to two or three a day. The bitter almond is deleterious to brutes killing dogs, Cats & but not Men.

*Citrus Aurantium* of Linnæus called *Aurantium Hispanicum* by some Authors, it is the Bark or Cortex that is used in Medicine. It is bitter and contains a Volatile aromatic Oil. The Bark of the *Citrus Aurantium* has been employed in intermittent fevers. Dugan had a high Opinion of it, he used it in quartan intermittents in several Cases with Success. Heiophylus used it in three Cases, the first two he completely cured of quartans by giving a dram of the medicine every two Hours, the third he failed curing with it, he is of Opinion from many trials which he has since made with it, it cures about as many as it fails to (I.C.) about the half that take it, a few years ago the leaves were highly celebrated at the Hague for the Cure of Convulsions Epilepsy and Cholera Putorum, but have now fallen into disrepute there, I presume they were of better Service in those Cases, Dr. Cullen says he was often disappointed in them.

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8

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In Austria they are used in Chorea Sancti Viti but as we  
know this disease frequently to disappear from persons afflicted  
with it, while they were taking nothing. It is true they have  
more credit for the cure of it than is justly due.

*Arnica Montana* or *Jamaica Leopards Paw* is our  
Austrian plant, used by Dr. Collins of Vienna in Convulsions  
it was his practice to promise a Castoreum before exhibiting  
the *Arnica*. This plant grows in different parts of Europe  
particularly in Germany. It has an Acid bitter taste and  
when bruised emits a pungent odour which excites Sneezing.  
Dr. Astruc used it in intermittent fevers, Cullen says he  
cured many cases of intermittents by the flowers, Bergius used  
it in the same disease without success in Sweden, but we  
must recollect that intermittents are more obstinate there  
than in other Country, De Haen used it in Dysentery  
with great advantage and thinks it a Specific, it has been  
very useful in the Diarrhoea that occurs in the last Stage  
of Malignant fevers, he used it in the Symptomatic Diarrhoea  
that occurs in the last Stage of Phthisis pulmonalis. Buffon  
speaks highly of its use in the above diseases. I do not think  
it probable that it has not been of use in the cases in which  
it is said to have done service as some suppose for it is  
a powerful medicine and Helvius has often done good as  
Buffon and Bergius say.

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*Eupatorium Repoliatum* of Linnaeus, grows abundant-  
ly in wet situations in the neighbourhood of this City, it is known  
to the Country people by the name of Thorough Wort and Beef  
Wort because its leaves are opposite. From its sensible qualities  
it must possess considerable power the leaves are bitter and  
astringent. The Seneca Indians use it in intermittents; it is  
certainly an excellent Substitute for Bark; and almost a  
Specific in cutaneous affections. In the James's river ring worm  
a species of *Herpes*, this has been found to cure this disease  
Amare after everything else has failed, this *Herpes* of James's  
river affects the Arms, Testicles and Gluteal muscles from whence  
it proceeds into the Anus and up the Rectum proving very  
troublesome, frequently dangerous and sometimes fatal; the  
*Eupatorium* is given internally in decoction so as to purge and  
prunge a Cataplasm of the fresh leaves and a fomentation with  
them are also used with very great success in this James's  
river *Herpes*. Dr. Sayer who read a Memoir upon the Subject  
to the Philosophical Society (now lost) says he used it in cases  
of Aphæctation in the form of poultice with great success he  
prefers it to the *Cinchona Officinalis*.

*Lichen Islandicus*. This a species of Moss growing  
in great abundance in Iceland, hence its name. It has  
also been found in the northern Countries of Europe. The  
sensible qualities of the *Lichen Islandicus* are those of a  
very pure bitter without any astringency, and is



Contains a large quantity of Sarcinaceous matter, One Ton of  
it will yield as much farina as half a Ton of wheat or Rye.  
The Inhabitants of Iceland separate the bitter from the farina  
by maceration in Water and then use it as an article of food,  
a great deal has lately been said in Europe upon its Virtues,  
Phthisis Pulmonalis and at least fifty dissertations have  
appeared upon the Subject all having experienced of its good  
effects, but Medical Testimony is a curious Thing you must judge  
for yourself as containing a large quantity of nourishing  
matter combined with its bitterness, it may be of Service in  
the Syphilitic Stage of Phthisis.

*Cuscuta*, Is the Croton *Clusina* of Linnaeus is brought  
to us from the Bassama Islands and particularly from  
One of them of the name of Clusina from which circumstance  
it was long known by the name of Clusina. It was used in  
the Seventeenth Century in intermittent and remittent fevers  
by the Stabians from their great aversion to bark were  
obliged to substitute many medicines for that safe and  
invaluable medicine.

In the Norway Fever a species of plague attended with  
Petechiae it was found to be of more Use than any thing  
else that was used. It is certainly a Cordial Juice, Bergius  
says it is of more Service in Hemoptysis than a great  
many medicines which are commonly used. but Dr.  
Cullen says he thinks it must do harm in these Cases

Carrot

N. J. Botany, divisions in 1804-8.

- 1<sup>st</sup> *Cimicifuga officinalis*. Linn. *Lanifolia* Nutt. Pale.
- 2<sup>nd</sup> " " *oblongifolia* " Red
- 3<sup>rd</sup> " " " " Yellow
- 4<sup>th</sup> " " *ovalifolia* " White
- 5<sup>th</sup> " " *eximia* Roxburgh.
- 6<sup>th</sup> " " *Caribbea*
- 7<sup>th</sup> " " *longistylis*
- 8<sup>th</sup> " " *spinosa*
- 9<sup>th</sup> " " *Fontea*
- 10<sup>th</sup> " " *condensata*
- 11<sup>th</sup> " " *limata*
- 12<sup>th</sup> " " *floribunda*
- 13<sup>th</sup> " " *brachyacarpa*
- 14<sup>th</sup> " " *aristifolia*
- 15<sup>th</sup> " " *pinckneyi*

The next bank is also green  
also trees

The next effices - from the  
dunes





Of Cincho, when the Court returned to Spain he carried a quantity of the Bark along with him and gave it into the hands of the Jesuits of And. Mombes to administer it to those ill with intermittents from whom it derived the name of Jesuits Bark.

The Peruvian Bark is one of those substances in which the bitter and astringent are united, the Bark is a very powerful Tonic, and I believe that its Tonic power depends upon the proper Combination of bitter and astringent for as bitter and Astringents are both Tonics when given in a simple State and by themselves their Virtue must certainly be increased by a Combination. The Bark has been given with advantage in Dyspepsia, the powder should be given.

There have been many disputes about the manner in which Bark acts to cure intermittents, it appears to cure them by its Tonic power and thus prevents the recurrence of the Paroxysms, Dr. Senis says the Operation of the bark depends upon some principle with which we are not yet acquainted; but he now stands to a certainty continues he, that the Bark operates by virtue of its particular Combination of bitter and Astringent.

Use of Bark in intermittents. Dr. Boerhaave rules for exhibiting the Bark *eo cum morbis jam aliquo tempore duravit*, In this Van Swieten and Sydenham follow Boerhaave but they both agree that there may be some

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Exceptions to the general Rule as upon intermittents attacking  
persons labouring debility (colder). The Bark should by all means  
they think be given when dangerous debility is likely to supervene  
by delay. The Mucilage of Symplicium is by Wild and deserves no  
attention. Bark may be administered very early in Scurvy fevers  
even after the first paroxysms and with the most perfect safety.  
Another question has agitated the Republic of Medicine; viz  
Can Bark be administered with safety without a previous  
preparation of the Body? or may it be given immediately without  
such preparation? Dr. Cullen sometimes gave an Emetic or  
Cathartic before administering it especially when he supposed  
a Superabundance of Bile to be present and when the Strength  
of the patient was sufficient to warrant this plan.

I will observe that in the intermittent fevers of this City (Phila. &c.)  
and Suburbs is generally inflammatory. Blood letting and purging  
must be had recourse to before the Bark can be given with  
safety or advantage. Nay the Scurvies and quartans of our  
falls are sometimes so inflammatory as to require seven or eight  
Bleedings before the inflammatory action has been subdued.  
Otherwise the Bark would have done incalculable mischief.  
Emetics so often recommended generally I believe do harm, as  
they excite the irritability of the Stomach which we should  
by all means tend to allay. However the Bark cannot be  
retained on the Stomach. Purgatives can be given they  
generally consist of ten or fifteen grains of Calomel, a



Scruple of Jalap or Rhubarb, with four or five of Calomel.

*Theriacal* *podophyllum peltatum* &c. In bilious fevers I have commonly combined a Scruple or less quantity of Rhubarb with each dose of the Bark for the first two or three days, by which means the bile was well evacuated and not pent up in the vesiculae *Sellis* or *Ductuum*.

In Cases of Obstructed viscera some Authors say Bark is painful Dr. Cullen is of a contrary opinion and says he has given the Bark with success in intermittents attended with considerable visceral Obstructions.

In Cases when the Obstructed viscera are considerable and if the intermittents are not violent Bark may be dispensed with and the use of Chalybeate and other Medicines had recourse to. When great Obstructions are combined in a patient with a violent intermittent, not attended with inflammatory action, I have given the Bark internally and ordered the Abdomen over the indurated part to be rubbed with mucous Ointment twice or three a day, and sometimes I have combined the Calomel with the Bark so as to produce a gentle Purgation. In intermittents when inflammatory action prevails the Bark never fails to increase the disease and injure the patient.

A diversity of Opinions have prevailed among Physicians about the most proper time of exhibiting the Bark in intermittents. Dr. Cullen pleads hard for exhibiting the Bark just before

\* Clarke. Ride I

The Paroxysms, he says that in Cases of Tertian fevers when the Paroxysm came on at Noon he gave this medicine in the morning preceding but not in the preceding afternoon. The practice of giving bark immediately before the paroxysms come on generally does harm by increasing all the symptoms and as we know the Stomach to be very irritable at the accession Bark given at this time is very apt to induce a troublesome puking which is not easily allayed by which means the Stomach is undid and unable to retain several Doses given immediately after the fever is gone off. In some Cases it may be necessary to dispense with this mode for instance where the intermissions are very short, the paroxysms very violent and great debility existing it may be dangerous to delay in any time. In these Cases I have given the Bark in large Doses immediately before the accession of the Paroxysm with advantage for in these Cases the patients commonly die with the Second Paroxysm, these are the most violent form of tertians such as Somnolentia occur in this City and neighbourhood where if the bark is not thrown in largely immediately after the sweating stage goes off and continued until the next accession, the Patients will scarcely survive.

A question now naturally presents itself, For can Bark be administered during the hot stage of intermittent fevers? Many authors say it can be given herein with advantage but my dissent is my Opinion for I have never given a dose



Of Barks just before the fever came on without its being generally  
increasing the fever considerably. In the *febris Soporosa* of some  
Authors or a fever attended with coma, sometimes with Colic and  
Diarrhea and constantly with great debility the Bark has  
been given with manifest advantage. There are some Intermittents  
which are attended with a determination of Blood to the Head.  
These occur frequently in Minorca and are called by D<sup>r</sup>.  
Elyhorn Apoplectic Intermittents in which he says he gave the  
Bark in very large Doses.

Intermittents and remittents certainly arise from the same  
Cause viz Miasmata and are of course not different  
Species they are certainly only varieties of the same disease.  
The intermittents becoming remittents and *vice versa*, but Bark  
should not be given in these cases while the inflammatory  
action exists in the System.

*Synocha*. In this fever which is always inflammatory in  
the commencement) the Bark generally if not always does harm.  
This fever occurs in Phlegmasia. Now I may observe that  
in primary inflammations the Bark always does harm,  
but when it occurs as a symptom of intermittent fever (which  
is sometimes the case) and when great debility at the same  
time prevails, the Cinchona can be given with great advan-  
tage. There is a disease which is sometimes seen in this City  
and Suburbs and very frequently in Jersey known by the  
vulgar name of Head Plurisy which begins with a

J. B. considers the Bark as one of the most efficacious remedies in Rheumatism <sup>to be exercised</sup> during the absence of Pain. he has frequently known it to prevent the return of Paroecism.

Rigor afterwards a fever sometimes of an intermittent but more frequently of a remittent type. The Pain is sometimes periodical but often constant, Delirium, loss of voluntary motion and sometimes asphyxia. In this disease bleeding has been very generally injurious and never fails to increase the violence and morosity thereof. On the contrary the Cinchona must be given in large Doses in which case a cure is frequently accomplished, its action may be assisted by Blisters Applied near the seat of the Pain which generally relieves it. This disease appears to arise from the same cause that intermittents and remittents do.

There are Cases of Pneumonia in which general Blood letting has been carried to as great extent as the patient will bear and after topical Blood letting, purging &c has been used without effect whereby the patient is debilitated so much as to prevent these remedies being longer persisted in, yet still the pain remains and assumes a periodical or intermitting form. The Bark can be resorted to and given with great Success plentifully.

\* In Inflammatory Rheumatism after Blood letting has relieved the increased action, and when interruptions of pain occur attended with a weak, full and low pulse the Cinchona can be administered with advantage, but here I must observe that the Bark is very injurious in Rheumatism while great inflammation exists.

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Use of Bark in Gout. Concerning this question a great diversity  
of Opinion occurs among Physicians some saying it is very useful  
Others holding contrary Sentiments. D<sup>r</sup>. Sydenham was much  
attached to it and frequently prescribed it. D<sup>r</sup>. Sarti did not find  
it of use. D<sup>r</sup>. Gougeon observes that Bark and Bitters or Tonics in  
General when long continued do much harm, but that when the  
Stomach is much debilitated it may do good when given only for  
a short time in which case it acts by giving Tone to the Stomach.  
My Opinion of the Use of this Medicine in Gout can be of little  
Service to Mankind, In attending Gout when very great  
debility exists Bark has been said to be of Service, but in my own  
Case it always produced a Stricture across my Breast. D<sup>r</sup>.

Thomson describes the Gout as sometimes appearing in an intermit-  
ting form, I have had it in this shape myself.

I would restrict the use of the Cinchona entirely to Cases of regular  
Gout attended with great debility, and when it has never attacked  
the Head or Stomach.

Typhus This disease is supposed to arise wholly from Human  
Effluvia, but I have seen it arise from Marsh Effluvia, in its  
first Stage it is inflammatory, in which Case Bark does harm  
but when that Action is subdued and <sup>depression of</sup> debility exists it can be  
given with very great advantage and with strict Rules of propriety.  
but we must always have recourse to the pulse to determine at  
what period it will be proper to begin with the Cinchona.  
This has been called a Continued fever, but Typhus does not

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Always put on a continued form, when the interruptions of the  
Fever are regular and distinct, it should by all means be given  
during the interruptions.

In Plague which is a true Synocha, Bark is improper until the  
inflammatory action is gone, when it should be used very liberally.

In Dr. Doering's account of the Plague he says that he bled all very  
largely and lost about eight in an Hundred even if Bubo and Pustulae  
occurred, when the pulse sank rapidly he poured in the Bark.

Dr. De Meunier says Bleeding does harm in the plague he gave  
the Cinchona from the very Beginning to aid which he added  
Mineral Acids, Blister, Virginia Snake Root &c &c &c  
Rauvanna Cinchona pour nearly allied to the plague with the  
Cinchona.

Moreton used it in the same disease, but here I may observe that  
as to the use of any particular Medicine in the Plague, we are not  
certain it has done either good or harm in it or that it has ever been  
exhibited in cases of the Eastern pestilence. Scoring writes describe  
very different diseases under the name of Plague.

Use of the Cinchona in Yellow Fever, this is spoke of as continued  
fever, but the description an often by Osseward, it sometimes puts  
on a tertian type. It is a Synocha and is ushered in with  
inflammatory symptoms. In 1793 the disease was called a  
putrid fever, In the first stage, Bleeding, purging and Anti-  
phlogistics were employed with advantage, the Bark was very  
useful after the full pulse, pain &c was removed. Dr. Blair

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found it useful in the Early Stage, and that it is generally  
fruitful. Bark has been recommended in another form of fever  
Viz Exanthematic. These fevers in their first Stage are also  
inflammatory and of course the Bark is injurious until this action  
is subdued, frequently after the febrile Affection is gone Considerable  
debility remains in which case the Bark can be given with great  
advantage. This Stage of the Disease has been called by some  
writers putrid, Bark has been used in the Eruptive fever of Small  
Pox, but here it must have done Immense injury and destroyed  
the lives of a majority who took it, for we all know this to be highly  
inflammatory and it was impossible to prevent the Bark from  
increasing these Symptoms Dr Cullen says he hardly ever observed  
a Case in which Bark was proper in this baridous Eruptive fever,  
but allowing it capable of favouring Suppuration, it does not appear  
that this occurs during the Eruptive fever, he says it is of the putrid  
Kind it may act by its Antiseptic powers and maybe proper, but  
he never saw such a Case, I however differ from Dr Cullen as  
febrile state of the System is necessary for Suppuration which is  
sometimes present and consequently the Bark would be improper.  
+ but sometimes when the Puscles should appear the pulse is  
febrile & then the Bark may be advantageously given, to excite the  
arterial System. Dr Monro found it useful in these Cases.  
Keenster had recourse to it in the Second Stage for the elevation  
of the pustules.

Measles. This is an inflammatory exanthematic Disease



Which even bleeding will the most be prevalent in this City  
the last Winter and nearly all agreed several bleedings. But it  
cannot be supposed the Bark would be useful but in a kind  
described by Dr. Watts which he termed putrid, Bleeding was  
injurious and the Bark and Wine was found very useful. The  
Hæmorrhage which follows the measles when permanent is best  
treated by the Bark.

Erysipelas. Percivus recommended it in this disease. Hoffman  
and Sydenham speak of Erysipelas being combined and appearing  
in the Plague. I have seen a case of it with yellow fever. A Lady  
after the puncture in the Arm with variolous matter had Erysipelas.  
This disease is very generally of an inflammatory nature and requires  
bleeding, purging &c. but the Bark must be shut out. Dr.  
Forsyde gave it in doses of half a dram every hour, but Dr. Cullen  
declines that he found it generally shut out.

Dysentery the Bark has been strongly recommended but Cullen  
found it useless in the first Stage. He considered Dysentery to  
depend upon constriction of the Colon, but I have elsewhere told  
you that it depended on an inflammation of the mucous membrane  
of the intestines. Dr. Cullen says when it puts on a Tertian the Bark  
is absolutely necessary as it is then very similar to intermittent fever.  
I have seen yellow fever appear under the mask of a Dysentery.  
Morton used Bark in Dysentery when combined with  
peppermint the combination with Opium, and being the first one who  
used Opium in this disease he assumes much credit for it. Clegg has  
observed the similarity between Tertian Fever and Dysentery. He

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Lapthy Commence alike and use the Bark Some have given it  
merely to prevent mortification. Pingle gave it in this disease.  
Douglas found great dependence on it, In the Years 1784-5 SMD  
in Philadelphia, Describing a peculiar form of a Scurvy Fever  
and I think it was much more commonly connected with Fever  
than it is at present.

**Cholera Morbus** This sometimes requires Bleeding, and often  
yields to Diluents and Opium, Sometimes it assumes a Scurvy  
form and yields to Bark.

**Catarrhs** With fever it is generally connected with an inflammatory  
Diathesis and hence the Bark must be improper. I have seen two  
Cases where Cathart was combined with intermittent fever where  
Bark was useless. Dr. Cullen says that in those Habitual Catarrhs  
depending upon a weak perspiration and weak force of the Heart  
and Lungs Bark can be given with Success. Here I suppose there  
is a great Accumulation of fluid in the Lungs and only to be  
obviated by strengthening the System of the parts and Bark  
is the most effectual. There is some truth in this Observation.  
There are many who have narrow Chests that are thus situated.  
In every inflammatory Affection of the Lungs the Bark must  
be hurtful. I am now to speak of its Use in  
**Hæmorrhagis of Red Blood**. There are two Species active  
and passive. I believe there is 99 in 100 of the Active, Epistaxis  
One where the Bark must be improper. Hæmoptyses Cullen  
found this disease very generally inflammatory and the Bark  
hurtful. Others think well of it. Hoffman used it in Hæmop-  
tyses but I agree with Cullen that there are some Cases depending



On ability in which the Bark would be hurtful. I however do not think that Menorrhagia is a frequent passive Hemorrhage. On the contrary it is very frequently an Active One, and requires Bleeding Digitalis and Acetate of Lead.

Bloody Urine. This is much more frequently of an Active kind than that from the Kidneys in which when passive the Bark was useful.

Phthisis Pulmonalis. This in its early Stage is very generally connected with an Inflammatory Diathesis which must be cured by such Medicines as encrease the Tonus of the System as Barks.

Dr. Cullen was of Opinion that nine Cases out of ten when Bark was given it proved injurious. When hectic fever attended and assumed a tertian form the Bark sometimes suspended it but in frequently returned. The Physicians of the United States of North America do believe unanimously of Opinion that Bark is injurious in the first Stage of Phthisis, and that it is good when Hectic fever supervenes.

Dropsy. when supervening upon a remittent or intermittent fever or from any other Cause that has induced great debility and weak morbid Action in the System, Bark may be given with great advantage and is given in the declension of those diseases will prevent the effusion of Water constituting Hydrops and in these Cases ought never to be dispensed with.

Gangrenas This is often of two kinds, first without and the second preceded by inflammation. Mr. Hunter defines inflammation to be over and Action of the parts, where Gangrenas is accompanied or preceded by inflammation Barks must be hurtful never failing to encrease the inflammatory Action, and thereby rendering



The complaint more violent, but after the inflammatory action is  
Subdued and ability remains the Bark can be given with great  
advantage, and should be exhibited largely to support the strength  
of the Patient.

The Albi Soutana tried the effects of the Cinchona in the Bite of  
the Tiper, by plunging the bitten part and keeping it in a direction of  
the Bark for a considerable length of time, but it was of no Service.

**Schrophula and Rickets** I am of opinion that Schrophula and  
Rickets are by no means connected, or have any alliance with one  
another, as some have supposed but believe that both may be sometimes  
prevalent in a system greatly debilitated in which case the Cinchona  
can be given with great advantage. Dr. Ferrius and Dr. Fothergill  
used the Bark with advantage in these diseases if we can depend  
upon their testimony. Dr. Cullen says he never found it of Service,  
I have a two Cases of Schrophula and as many of Rickets in dispensary  
Patients while I was a prescribing Physician to that useful  
Institution. Of late the Sopsi Alkali has become a fashionable  
remedy in the British Hospitals for these Diseases.

**Cancer.** Dr. Putt, Akenide, De Haer and Cullen say they  
have seen it of use in this disease, Akenide used it in combination  
with Cicuta and Opium, for my part I think it of little use in  
Cases of Genuine Cancer.

**Of the use of Bark in certain Spasmodic Affections.**

Epilepsy has two Stages an inflammatory, and one without, but  
perhaps there are Cases of Epilepsy in which no inflammation  
ever existed and which depended upon debility or Mobility.

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In the Second Species or Stage of the disease, Bark may be of Service. Dr. Warmhoff, and Mead have used it. Dr. Cullen says that in Epilepsy attended with periodical paroxysms and debility he has found it of Use.

Tetanus, I have not experienced of the Use of Cinchona in this Disease, but refer you to Dr. Rush's Memoir read before the American Philosophical Society and printed in one of the Vol<sup>s</sup> of their transactions.

Chorea Santi Petri. It has been useful, when I was a Student at this University a fellow Student was much troubled with this Disease and at last, relieved himself, with the Cinchona. He is now settled in York County in this State and is still afflicted with the Disease which he moderates by the same Means, he informed me that it always suspends the Chorea for some time while a plim never fails to encrease it, in general this Disease is cured by Tonics, but Cases Occur occasionally which yield most readily to a contrary Method of treatment. I was once called to see a pregnant Lady afflicted with Chorea and found her pulse moderately full and Hard, I ordered her to lose twelve ounces of Blood which entirely cured her.

Chin Cough and Whooping Cough. This is to be treated as an inflammatory disease, which is always is at its first Attack but after it has existed for Weeks or longer the Patient becomes debilitated in which Case Bark has been found of Service.

This Disease was some time ago Epidemic in Germany and the

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Physicians then declare they found Bark very useful after  
the inflammation was subdued.

**Asthma.** This sometimes depends upon a certain mobility of  
the system when the Bark has been found useful, there is a  
kind of Asthma which comes on Periodically in which this  
Medicine has been found of great Service.

**Hysteria** in this Complaint when inflammation exists the Bark  
does harm but when debility takes place it can be given with  
Success.

**Melancholia** when attended with debility has been treated by  
Bark with complete Success.

**Angina Pectoris.** Dr. Smith recommends the Bark here but  
as it is generally of a Gouty Origin, believe the Bark ought to be  
used with great Caution.

**Scurvy.** Bark has been recommended here by some Authors, I  
believe it is not so useful in this Complaint as some Physicians  
would lead us to believe, I think many give it from Theory  
believing the disease to depend upon putrefaction and the Bark  
to be Antiseptic, they therefore concluded it to be a very proper  
Remedy. It is certainly a good Dentifrice and will cure the Gums  
of Sponginess, and loosen the Gums arising from Putrid and decaying  
Teeth.

**Jaunderice.** Watter recommends it in this disease upon the Authority  
of Meinhoff, but I never found it of Service. On the contrary from our  
knowledge of the Seat, Cause & Nature of the disease I am convinced it  
would frequently do harm.



We come now to treat of the use of the BARK as an Application  
Externally.

### Of The external use of the BARK.

Hellvetius recommends it in intermittents to be made into a  
poultice with wine and Applied to the Abdomen. Dr. Pine,  
recommends a Tutteda Shirt to be used in intermittents and  
remittent fevers. He had it made by quilting several Courses of pow-  
dered BARK between a double Shirt, and worn next the Skin it  
certainly can be employed with great advantage in this way in  
infants when the tender Stomach will neither bear or retain the  
BARK, but care should be taken to remove the Spirit during the  
paroxysm of the fever otherwise it would seldom fail to be increased  
thereby. I cured a Child of my own in this manner and observed that  
if the Spirit was kept on during the paroxysm it was considerably  
increased in Violence. It has been used as a poultice in Old Ulcers  
and in Thores or Wounds tending to Gangrene as well to parts  
after Gangrene has taken place to stop it and after it has stopped  
to preserve of the Dead from the living part.

The infusion and decoction has been used as wash for Ulcers when  
Fetid or Indolent or when tending to Gangrene or Mortification.

The legs and feet have been immersed in a strong decoction of BARK  
and kept there for some time to cure intermittents.

When BARK has failed in curing intermittents, they have been  
cured by Mercury, Arsenic &c but when it is properly managed  
it will cure ninety nine out of One hundred simple Intermittents  
Sometimes when BARK has failed I have combined it with

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Mercury and by that means succeed, but now I may observe  
that because Mercury and Arsenic sometimes lose their efficacy,  
when Bark has failed that they are therefore preferable in the  
treatment of this disease, for although they succeed in the treatment  
in these cases, yet when a comparative trial is made we find  
Bark will cure ten times as many of them as the other remedies,  
for when the Scurva tries they will fail twelve times whereas  
when Bark fails once in Scurva twenty times.

*Cortex Angustura* This was introduced into practice in 1788,  
from the Island of Demerica we are unacquainted with the natural  
History thereof but it is believed to come from South America this supposition  
is confirmed by the name of Angustura is the term for a narrow pass  
between two mountains. It is intensely bitter to the taste and slightly  
aromatic leaving a strong sense of heat and pungency in the throat  
& anus. The Odour is singular.

Water either cold or warm extracts the bitter quality, and spirit the  
aromatic and acrid part of the Bark; therefore the cold infusion  
is sometimes to be preferred as it retains all the aroma of the bark  
which is lost in a great degree in the decoction and the same  
objection can be made to the Tincture of this Bark that was  
made to the Tinctures in General viz That they could not  
be largely employed on account of the stimulating nature of  
the menstruum. The best Tincture is made with the dulcified  
Spirit of Wine, but Brandy extracts the Bitter tolerably well.  
The Angustura Bark is an excellent Antiseptic and certainly  
ranks higher for this than the Cinchona, and with great

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Property. The pure Resin is not Soluble in Water and therefore  
should not be given by itself, but the extract is perfectly Soluble,  
for which reason it is to be prepared as a medicine. The dose of the  
Bark is a Scruple every two or three hours but less will do.

In intermittent fevers this Bark has been used with great success,  
Some Authors say it is preferable to the Bark, but I believe few  
of us will accede to this. It is said to be preferable to the Cinchona  
in Dyspepsia because it is less liable to purge and therefore  
by all means to be avoided when the patient is low, it has been  
recommended in Ulcers of the Throat and in Cynanchus Ulcerosa  
and said to have been found highly useful. There are some Head  
Aches which recur periodically in which this medicine has been  
justly celebrated for being. Dr. Pearson used it in Affections  
of the Stomach, as a general Tonic. It has been said to exert greater  
powers than any other Tonic medicine with which we are acquainted  
but this I think is certainly by no means the case, for the most  
of us agree the Cinchona is better.

Chlorosis and uterine Obstructions have frequently been  
cured by this medicine some prefer the decoction, in these cases;  
Others with more reason the infusion, and some others the Tincture.  
Perhaps some have used it in this disease but from what I have  
said elsewhere of the use of Tonics in this Complaint you may  
readily believe I do not approve of its use in the early stage  
thereof but that it may have been useful when it has continued  
for some time and is only kept up by debility and habit; in  
which case it operates as a Tonic giving strength to the body.

"Dr. Beaton informs us that he has heard of the  
Leaves of the Tulipe tree having been employed with great  
advantage in Gout, they are laid in a heap of on  
the part affected, and ease by producing great sweating,  
it is of no consequence whether they are dry or green

This medicine is to be preferred to the Cinchona in the diseases of Children that require Tonic as it more readily remains on their tender Stomachs. And I think says Dr. Barton it is valuable medicine.

*Magnolia Glauca* I am happy in having it in my power to refer you to an excellent Inaugural Thesis written on this Subject in this University by Dr. J. C. Pier.

*Liliostemon Scutigerus*. If a plant nearly allied to the Magnolia, the leaves are used in Virginia to produce copious Sweating and Respiration for this purpose a large leaf is bound upon a part of the Body and supposed to remain until the effect is produced if the patient more an addict. In this way they have been used by Dr. Condy who applied them to the feet when they were cold and in certain diseases he first wet them with milk and says that unless Care is taken to dip the leaves in Milk they will not produce their effects, for further particulars on the Use of this medicine in diseases I am happy in being able to refer you to a Dissertation written by my pupil Dr. Rodgers when he has also given the best Analysis that was ever made here of a vegetable.

*Peumus Virginianus* or Wild Cherry Tree, for information I refer you to a dissertation by Dr. Morris published here two or three years ago.



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## *Salix Alba*

of Linnæus or White Willow of the Americans is said to be very Antiseptic, and has been used in Hemorrhages and Obstructions of the Uterus, but when any inflammation attends it cannot fail of doing harm, and can be only of Service when great debility attends.

D<sup>r</sup>. Hall who used it frequently in intermittent fevers says it is an excellent medicine, D<sup>r</sup>. Cullen says that his Observations and experience show it to have been of some advantage in intermittents Bogue says he found it useful in intermittents, but as a medicine adapted to the Majority of Cases of intermittents he prefers the Cinchona. There are three Species of this, the *Salix Alba*, the *Salix Pentandra*, and the *Salix Latifolia*.

## *Aesculus Hippocastanum.*

or Horse Chestnut. The seed nut has been used as a Sturcutary in Cases of Obstinate Head Aches and Ophthalmias, The Bark has been used in intermittents fevers, D<sup>r</sup>. Cullen says he generally found twelve grains or two Grains to Cure, and he thinks it can be used with great propriety as a Substitute for the Cinchona, D<sup>r</sup>. Cusson details twelve Cases he cured by it.

## *Aesculus Miva*

or Bark Tree of this City is a delicious Vegetable and of course possessed of considerable medicinal qualities, if well investigated, it is a tolerable Substitute for the Cinchona.

## *Switonia Sibirica*

or Chamoda comes from the East Indies, it is an Astringent<sup>s</sup> Aromatic bitter, and is the best Substitute for the Cinchona yet known the East Indian prefers it to Bark, and I have used with great success in Fevers.

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## Cornus Florida

or Dogwood, I have used it with success in several cases of intermittents.  
Dr. M<sup>r</sup> Crary found one hundred cases of intermittents cured by it.  
It is certainly a medicine deserving particular attention and as its  
properties have not been thoroughly investigated, I think it would  
make an excellent subject for an inaugural dissertation and as Smith  
recommends it. There was the D<sup>r</sup>s Sentiments in 1802 - 3

## Cornus Siccua

or Red Willow is supposed by some to be of more value than the above  
as being stronger. I can say little of the virtues of this as not having  
used it often, but think it deserves to be tried in intermittent fevers.  
For further information on the best articles see Dr. John  
Walton's dissertation published in 1803 where the subject  
has been handled in a masterly manner.

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I have now to treat of the different Metallic Ferrous, Iron,  
Copper, Silver, Mercury, &c. and begin first with Iron

## Ferum. (Placed by Cullen in Astringents.)

Or Iron. There are several preparations of Iron used in Medicine as the  
Rubigo ferri or red Oxide of Iron, The filings and the powder thereof  
The Ferrous Chalybeate &c.

Use in Hemorrhages. There are of two kinds Active and passive or those  
attended with Inflammation and those without or those ~~with~~  
depending upon debility. In the first Species the preparations of this  
Mineral are always injurious, in the latter they are very useful and  
frequently necessary. There are also several discharges attended with  
debility in which these preparations are of infinite advantage.

Amenorrhoea or Omission of the Menstruum of the Latins, this depends upon  
two Causes, first when Considerable Sore of the uterus exists attended  
with Inward flow and frequency of the pulse, pains in the Head  
Back and Loins every time the Menses ought to appear with a wild  
and Staring Eyes, And 2<sup>d</sup> Upon debility when there is not attended  
sufficient in the uterine Arteries to <sup>force</sup> expel the Blood to their extremities  
with the force necessary to rupture them. In the first Species Iron would  
do much harm, and remove the Complaint for her bleeding, purging  
&c. ought to be used but in the second Species of that depending upon  
debility, the preparations of Iron are of essential Service always and  
ought never to be omitted. This last Cause of Amenorrhoea is much  
more frequent than the generality of Physicians believe.

Hematuria or Discharge of Bloody Urine, when attended  
with debility these preparations are good, they should be given



In combination with warm Water or Chamomile Tea, and which  
should be taken in large quantity. but as there are two Species of  
Hæmaturia, the inflammatory or that attended with inflammation  
or increased Action of the blood vessels and arising frequently from Wounds,  
Contusions or Calculi in which Sponges would do harm and that arising  
from debility or want of tone in the Vessels we should be careful to  
distinguish the One from the Other, but sometimes it may be inflammatory  
in the beginning and the patient sink from debility with loss of blood  
as our practice must be regulated by the pulse.

Gouts originate from Gonorrhœa in the first place and are kept up  
by either general or local debility or by the Vessels of the part having got  
a habit of effusing a fluid continue after the cause which first  
occasioned them to do so ceased to act in these cases the preparations  
of Iron are the best remedies which we can use, and the Astringents  
yield to them when nothing else will cure it, I frequently combine  
them with Colombs. they must be persisted in for a long time,  
beginning in small doses and gradually increasing; when managed  
in this manner, I have never failed in curing a gut how long  
standing soever it has been.

We come now to consider in what manner the preparations of Iron  
act upon the body.

The Iron operates first upon the Stomach, and secondly from thence  
to every part of the Body. Dr. Hodges experiments prove Iron to  
have been found in the lymphatic glands of a Dog who had  
taken a dose of it, but he continues it went no farther for he says  
Sheep Dogs a considerable length of time after giving them the  
Copperas but could never detect it in the Chyle of the rectification

S. B. has used now sprinkled over Cancer.

Chyli, I have many reasons for believing that the Lymphatic  
Glands are a part of the Digestive Organs, and that the Chyle  
undergoes some Change after it is absorbed by passing through  
them before it gets to the trunculum Chyli and from thence into  
the Circulation, but I think it is not improbable that it will  
be after be discovered in some Animals the Lymphatics do take up  
Iron and carry it into the General Circulation and I believe that  
Iron is taken up by the Absorbent Vessels of the Human Body and  
so gets into the Circulation, and this is proved by Analogy with  
Vegetables for if you immerse a branch of an appropriate Vegetable  
in a Solution of green Vitriol, the absorbent Vessels of the plant will  
take up the Solution, and it shall be conveyed to every part of the  
plant which can be plainly perceived by the naked Eye especially  
in the leaves.

I have next to treat of the dose of Iron, Dr. Cullen found the rubigo  
ferri the best preparation thereof, he begins in doses of  $\text{ʒij}$  grains  
and encreases to a dram, I have been in the habit of using the rust  
of Iron beginning with five grains which I encrease to ten or twelve  
which I have seldom gone beyond, and I have continued in these  
doses until my patients have taken five or  $\text{ʒij}$  hundred grains  
thereof, the English and American Physicians generally prefer the  
rust and frequently combine it with Cinnamon, but the Italians  
give the filings reduced to very fine and say it is much better than  
the rust.

I ought to mention that Iron had been used in intermittent  
and all diseases attended with debility in a majority of which  
it is a very proper medicine, the Arabians were very fond of it in



These Cases, for as they were great enemies to the Prussian Bark  
they were obliged to substitute every thing that afforded any reason  
to believe it possessed of Tonic powers.

### Copper Or

Cuprum is arranged by Cullen in his Class of Astringentia: it  
certainly possesses a considerable degree of Astringency, and there  
is great reason to believe it to be a powerful Sore, Dr. Linnæus and  
Hermann say Copper is insoluble in the fluids of the Human  
Body, but it is certain that Copper is soluble in the Gastric liquor.  
Dr. Huxham mentions the case of a Child he was called to visit who  
had swallowed a piece of Copper Money which was retained four  
days, when it was ejected considerably eroded and produced some  
of the distressing effects of Copper upon the Child, there is the  
case of a Child recorded in the American philosophical transactions  
who swallowed a cent that remained with it for twelve days  
when it was discharged half dissolved, Two instances of Children  
swallowing cents have occurred in this City which were discharg-  
ed considerably eroded in ten in one and in thirteen days in the  
other. Copper exerts some very deleterious effects upon the human  
Body when taken in too large quantity, such as loss of Appetite,  
Colic pains and great uneasiness about the Cardiac, Delirium,  
Mania, Slow and feeble pulse, and great debility of the individual  
kind, Hemiplegia, Apoplexy, sometimes Obstinate Costiveness, or  
other violent Diarrhea, Purging, Vomiting, Affections of the head,  
Erythematous Eruptions &c &c &c

Copper exerts its effects upon other Animals besides Man, Dogs  
that lick the Copper plates with care used in making the



Crystals of Copper do not live long. Birds are not affected by it for they will drink the green liquor prepared by Suffering the weak Kingan or Water to stand in the Copper Vessels until green without experiencing any bad effects.

Congo Aris or Verdigras is formed by first fermenting the refuse of Grapes with Sourd Wine. This refuse is afterwards laid in alternate Strata with plates of Copper Six Inches long and five broad in this State they are left for a certain time; after which they are taken out and placed edge wise in a Cellar where they are sprinkled with Sourd Wine. In this Situation the Verdigras Swells up, and is afterwards Scraped off, put into Sacks of Leather and exported to Foreign Countries.

The Crystals of Venus or Antate of Copper is formed by boiling weak Kingan or the above until a pellucid Appear when Sticks are put in it and it is similar to Chrysalis. The Verdigras is used externally as an escharotic, and the Antate is sometimes given internally in Obsolete Ulcers, it forms the Basis of a celebrated Cancer powder. It is also given as an injection highly recommended by some Authors in very Obsolete Glands. Eight grains of the Congo Aris is well rubbed together with four Ounces of Olive Oil and used as an injection. The following is another way in which it has also been used as an injection, to the Ovarium of the Congo Aris is added four Ounces of ~~Water~~ the Spirit of Sal Ammoniac and well rubbed up together.

Nitriolum Ceruleum or Blue Nitriol

has been used in Intermittent fevers, beginning with a quarter

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of a grain and increase to a grain three or four times a day,  
Dr. Donald mentions the following form of this medicine, to  
four grains of the Sulphate of Copper he added thirty two of the  
extract of Bark and made sixteen pills of the whole of which  
he gave three four times a day, he cured two persons of intermittents  
that had resisted the Bark and every other medicine which he  
had tried in twelve days. A Physician of Bath cured a number  
of intermittents with it in combination with Canthar. Alba,  
he gave a grain of the former and a dram of the latter three times  
a day.

### Cuprum Ammoniacum

has been used in Epilepsy, it is common to begin with the fourth part  
of a grain and increase into a grain two three or four times a day.  
I have known three Cases cured by it. I cured a Gentleman a number  
of Conges of Epilepsy by it, he took six hundred grains of the medicine  
before he was perfectly cured, and has not had a fit of it for seven  
years past. Dr. Cullen used it with success in this disease.

There is no doubt but that the Cuprum Ammoniacum or  
Ammoniate of Copper is a very powerful medicine, when a  
patient first begins to take it, it produces Nausea and sometimes  
Vomiting, and if given in too large doses all the Bad Effects produced  
by Copper, to prevent the Nausea it has been combined with  
Ginger and given fasting.

Dropsy this medicine has been used in Dropsy and is said to  
have proved powerfully diuretic and to have cured several persons.  
It has been used as an Anthelmintic and is said to destroy  
Worms very Effectually. The Emetic Effects of Copper are well



Known and was formerly much more employed than they are  
now. For since the introduction of Mercury as a Medicine, and the  
Use of the Lunar and Common Caustics, Copper has been very  
much neglected as an Escharotic. In some Cases the Copper  
has cured Obsolete Ulcers when Mercury has failed in the  
Open Ulcers of Scrophulous patients the Ferruginous Ointment  
has been used with great Success it has also been used to Char  
to dry them up.

The Ferruginous when sprinkled in fine powder over an Open  
Chancere will dry it up and heal it sound in a short time.  
It is used as a Wash for Obsolete Ulcers and indolent Ulcers in  
the proportion of two grains to the Ounce of Water. It has also  
been used as a Collyrium in inflammations of the Eyes. Dr.  
Cullen says he has known a Solution of Arg. A. of Use in  
the inflammation of the Cornea.

Agua Sapphaurina has been used as a Collyrium in inflam-  
mation and affections of the Eyes, it appears to possess  
Advantages over a weak Solution of Arg. A.

### Argentum

Or Silver. This is now never used in its crude or Metallic form  
and the only preparation used in Medicine is the Argentum Nitratum,  
Nitrate of Silver or Lunar Caustic is used to take fungous  
flask and is the best escharotic we are acquainted with. Dr.  
Cullen says that a Solution of the Nitrate of Silver is an excellent  
remedy in Old Ulcers, making them put on fine healthy granulation  
he makes four kinds of Ulcers. 1<sup>o</sup> The Leprous. 2<sup>o</sup> The Eruptive,

Dr. Laidine in the New York Medical Repository mentions  
having cured two or three Cases of Epilepsy by means of  
the Nitrate of Silver.

The Third is the Consequence of Buboes after the Venereal Venus  
is gone, and the Ulcerous Ring Worm well known in the East and  
frequently seen in the West Indies. Lunar Caustic can be applied  
to Ulcers without producing much pain if rightly applied the  
following is my mode of Application. The Caustic is in Solution into  
which I dip a Camels hair pencil, and apply it to the Ulcer, and  
having a basin of cold Water standing by me I immediately dip  
another brush in it and apply the cold Water to the part touched  
with the Solution of Caustic, it instantly extinguishes the pain

The Retard of Silver has been used in Epilepsy, Dr. Senn says  
it sometimes aggravates the Symptoms at first but afterwards  
cures the Disease it frequently purges at first and always keeps the  
bowels gently open, he began with small doses and gave to the  
extent of three grains twice and three a day, I have heard of a  
Case of Angina Pectoris being cured by it.

A Physician of Lima gave it to twenty Epileptic patients and  
cured the Majority of them, he increased the Medicine from the  
fourth part of a grain to three grains a day, Epilepsy consists  
of two kinds or Species One is attended with inflammation and  
the other without, and with debility in the first kind it  
sometimes does good but often harm, while in the last Stage it  
does good. I have given it two in Cases with some advantage.

Caprum Ammoniacum is also often used in Epilepsy, I should  
as soon think of leaving off Bones in intermittents, as I should  
in this Species or Stage of Epilepsy. Van Swieten records the  
Case of a Man becoming stark, who took the Lunar Caustic

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Have you to believe in or not. The Lunar or purging pill is made by dissolving Silver in the Aqua Acid, ~~and~~ evaporating them until Crystallization is produced, dissolving these ~~crystals~~ Crystals in distilled water and evaporating it until Crystallization is produced, then Crystals are made into pills with any suitable Gum and two or three grains taken in the morning, if this does not operate, repeat the dose every two or three hours until the Effect is produced - it dose  $\frac{1}{2}$  of a grain

## Stannum

Stannum has also been used in medicine, Dr. Allston and many other Physicians gave Stannum in powder without its producing any bad effects. Stannum is soluble in the Stomach, Dr. Allston says he gave from a scruple to a dram of powdered Stannum in James 1730. The powder of Stannum has been used as an Antispasmodic and also in Epilepsy. Dr. Donaldson mentions several success by its use of Epilepsy. Dr. Fothergill has used it and thinks it of no service except in those cases depending upon Worms which it cures by expelling them. Dr. Cullen does not consider Stannum as a Tonic in his Materia Medica. I have very little difficulty in saying it is a feeble one, but I must believe the testimony of great and reputable Physicians who gave their testimony of its good effects in expelling Worms, and I think it operates,

X Mutually.

Dr. Barton ~~thinks~~ <sup>thinks</sup> it into the class  
of Antivenereals

Dr. Barton says that a child took 13 of Lead without  
producing any distressing disease. Plants flourish  
better in Lead water.

" Dr. Mistow mentions when talking on the Absorbents  
that the Men employed in <sup>digging</sup> the Delf Mines, if  
they continued in that employment about 25 or 30 days  
were always affected with Colica Tristernum, they only  
immersed the hand into the lead which was kept in  
a suspended state by means of some viscid fluid;  
A very convincing proof in his opinion of Colicular  
Absorption —

\* This may be immediately detected by throwing into the  
suspected liquor, a pinch of common Salt when the  
Lead will be precipitated in the form of Ash colour  
powder —

Dr. Barton says that a child took 13 of Lead  
without its producing any distressing disease

# Plumbum

Or Lead is plac'd by Dr. Cullen in his Class of Astringents. It is certain that many of the preparations are very Astringent. Lead in its Metallic form does not possess any medicinal virtue.

There are three preparations of Lead now commonly used, the White Lead, the Saccharum Saturni and the Extract of Goulard. Calves Lead the easiest of all Metals without known, it is doubtfull say some persons whether Lead when used externally is absorbed, I believe it sometimes is.

Colica Pictonum is a disease produced by the absorption of Lead into the human body, it is frequently induced by drinking freely of Cider Wine &c. As the Wine musters sometimes mix the plumbum Autatum with some Wine or Cider to make it Sweet. This brand is not discernable by the Taste and frequently the Colic is the first manner of a persons having taken Lead into the Stomach, but the Cholera Pictonum is produced by other means than Lead for persons for persons who eat Apple butter made in Copper vessels are said to be troubled with it.

This disease is uncommonly common in Poitiers in France and Amsterdam where its name is frequently terminates in Paralysis of the Side and Arms. It is very Common amongst Painters and Potters as well as those who work in Lead mines. In some of these last is produced Scurvy and Slow Consumption. A Potter in this city informed me that he prevented his Men from taking the Cholera Pictonum by making them eat plentifully of Butter and other Oily matter.

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And Dr. Redman of this City says that in some of the great  
Manufactories of Europe they employ the same preventive with success.  
Dr. Huhn says that in the Lead Mines of Rupia they prevent this  
disease by making the men eat plentifully of Lead, Bread and  
Soup, and never sit down to eat until they have washed their hands,  
and face well, by which means the Colicæ Pictorum was seldom seen  
amongst them. This disease is cured by emptying the bowels very  
fully. Bleeding is seldom proper but some Cases occur when it is  
necessary. Dr. Cadwallader recommends the Oculi Rivi and Chyristals  
of Tartar. Mucousal purges are proper, Opium is given to prevent pain  
when inflammation does not exist, Opium very frequently purges in  
this disease much oftener than in any other, the warm Bath is an  
excellent remedy. Sometimes Cures of Cold Water thrown on the feet.  
Guaiacum has been used here but I shall mention this in another  
place.

Lead sometimes brings on Rheumatism in the wrists especially in  
Potter who only dip their hands and wrists in the glazing Composition.  
Typefounders are also troubled with this effect of Lead, Dr. Sydenham  
had it also induced in him by warming the Types he worked with  
in very cold weather, finding out the Cause he discontinued the practice  
of warming them and soon after got well.

Ambrosium Saturei when taken by mistake to the quantity of  
Ounces two drams does not produce the usual symptoms of Colic,  
Palsy. For it only purges and purges pretty smartly.

Diseases in which the preparations of Lead are Used.

Goulards extract is used in poultice in Cases when they are necessary  
and always pain inflammation. It is also used as a Collyrium

Goulards extract mixed with Crumbs of Bread  
and applied to a Lumen

Glauber Salts mix'd with bread I think is preferable

In sycteria in fistulae, sores and Gonorrhoea  
Lead ought to be used with Gentian. Dr Darwin used the  
Lead in inflammation and Gangrene

Goulards extract has been of great Disadvantage <sup>was</sup> externally  
Mr Latotie bathed his Throat which was affected with  
the Gout with a solution of lead which expelled the  
Inflammation and produced the most violent  
Cholick and nearly death

Dr Bartow has used the Sac Sat, with success in  
a case of Intermittent that resisted every other  
medicine, in combination with Opium the  
formula, R Sac Sat gr 6

Opium : 1

Con ros gr 5

and wash for Sores when inflamed, used also to prevent inflam-  
mation in wounds. Erysipelas When this last mentioned complaint  
it is sometimes hurtful as it must be used with extreme Caution.

D<sup>r</sup>. Cullen says he has seen it produce Mortification in these Cases.  
Darwin says he has seen the same thing, it is common to apply it  
to Burns, it does well enough for Small Ones, but I would not recommend  
the Application to One of any extent, especially as we have seen so  
much better Use of Lime water and Oil. Lead and Mercury when  
combined have been a Means that both failed to do in their Separate  
States. In the Scrophulous Ulcers of young people this medicine has  
done much Service but that in Old people it does harm.

### Internal Use

The *Sassafras Sibiricum* has been used in Epilepsy by D<sup>r</sup>. Gagey some  
Years ago, D<sup>r</sup>. Rush has used it in Epilepsy with some  
advantage. D<sup>r</sup>. Santorum used it in Pertussis but has not been  
followed by succeeding practitioners. It has also been used in Mania  
Hypochondriasis, & Sympthomania &c. but I have had no  
Experience of the Use of it in these diseases myself. Et Mueller found  
Intermittent fevers with it in combination with Bitters.

Hunter used it in Pneumonia and several other inflam-  
matory Cases with Success. A Physician of Pennsylvania uses  
it in combination with the *Thalictrum Latifolium* a poisonous plant  
in inflammatory fevers he declares it lowers the pulse relieves the  
pain and produces as good effects as blood letting. I fancy few of  
you will follow this mode of treatment. D<sup>r</sup>. Reynolds Physician  
to the King of England tried it in Seventeen Cases of Plethoric  
*Pneumonia Pulmonalis* out of which he cured four, he says,

Nitrogen of Lead, <sup>aliquo</sup> Nitrogen of detritage -

Sugar of Lead <sup>protracting</sup> in Hernia Humoralis

20 Grs of White Nitret 10 Grains of the Sugar of Leads  
in 10 ℥ of Aqua Fontana -

The Tonic power of Lead in intermittents -

Sugar of Lead in Continuation with Kimo in intermitted cases  
which baffled the power of every other remedy

Lead in Epilepsy - Agricola mentions the use of  
it in D. of infants -

Dr Barton says he does not think Lead as good as some  
other Medicines in Epilepsy

Lead in Hoop and Cough - Lead in Tetanus - Dr Hunter -

used Sugar of Lead and placed his patient while  
taking it in an ice House for the Cure of Tetanus -

Mirgazin made use of Lead in Mania & Melancholia

Lead has been used with great advantage in

Cholera infantum and Cholera mortuus - Dr Gray  
Sugar of Lead is better when the disease is kept up  
by a latent fever in the intestines

Brachia checked by the use of the Sugar of Lead

German writers used the Sugar of Lead in S. p. Cronalis

Dr Barton used the Lead in Hemoptoe with great ad-  
vantage -

If he did that it was doing by Will, for I believe it is much more  
than we can see with any medicine without a wound. He also  
says in a letter written to Sir George Baker that he has used it in  
Uterine Hemorrhages with success attended with Opium and  
occasionally giving a Cathartic so as to keep the bowels constantly  
open, he first gave it to one and finding it succeeded so well, he afterwards  
gave it to several others labouring under Uterine Hemorrhage with  
great pain he combined the Sassafras and Opium together in the  
last disease. I was called says Dr. Burton to visit a man said to  
be bleeding to Death at his nose and found him to be with a profuse  
Epistaxis, he had lost four or five pounds of Blood, and was still  
bleeding very freely, finding the Situation of the Brain very delicate.  
I determined upon a bold practice and accordingly gave him Eight  
grains of the Stannum Autatum, which stopped the hemorrhage  
in half an hour and he had no return of it, the medicine produced  
no ill effects upon him.

There is certainly much less danger in the use of Sassafras Saturni  
than most people suppose, I think it a very valuable medicine  
and have used it in many cases of Hemorrhages of various kinds,  
Hemoptysis was cured by it in the hands of Dr. Rymer. In a  
Case of Melina after Dysentery when the patient discharged a  
Gallon a day, was perfectly cured by taking a ~~grain~~ grain three  
times a day and persisted in for a short time. I found a m<sup>r</sup> book  
(a man given to intemperance) of Hemoptysis, he was without pulse  
when I first saw him, after a small bleeding I put on a large  
blister, I gave him ten powders containing each one grain of the  
Sassafras Saturni and two of Gum Arabic, he took one every two

D.B. says he thinks that the sugar of Lead might be used with advantage.

In Hemorrh. It is very certain that many of the old Physicians used the Lead without that caution the moderns think so necessary.

sugar of Lead deserves the name of a Specific in Hemorrh. if any thing does -

D. Renault has related some cases where the Lentura saturnina in the fluxus Hemorrh. which produced Cholera - D. Renault gave the Lead in Combination with Opium which cured the Hemorrh. with producing Cholera -

In Hemorrh. with advantage -

In Hemorrh. of the uterus with Opium

In Epistaxis combined

D. Barton thinks five grains of lead to six or eight of Vit. Alb. suffices in the inflammatory stage of gonorrhoea

Hours, and after he had taken five was perfectly blind or so well  
as not to take more, no disagreeable effect was produced by the  
Medicine. I have used it in Hematemesis, uterine Hemorrhage, with  
equal success. four grains send a patient of mine that had a most  
violent uterine Hemorrhage. This Medicine exerts its effects most  
powerfully upon hemorrhages from the Stomach and intestines, it  
is one of the most important articles of the Materia Medica.  
We come now to consider the modus operandi of it, it raises the  
Activity, frequency and force of the pulse perhaps in the same  
manner as Digitalis, this is not all the Operation of Lead for it  
acts sooner and more officiously in curing Hemorrhage, than  
general Bleeding, Purging and low diet which raises the pulse  
more rapidly than Scabarium Saturni, Digitalis lowers the  
pulse more than this Medicine yet it does not act so officiously  
in Hemorrhage, it must therefore have a double Operation which  
I think is the Astringency. This is also corroborated by the Use of  
Alum. The Mineral Acids do which do not possess the power of  
lowering the pulse, for a number of very ingenious Experiments  
on Lead I refer you to Dr. Sims's dissertation.

Also in Gonorrhoea Lead has long been used in Gonorrhoea as in injection  
in the proportion of a grain of the Scabarium Saturni to the Ounce  
of Water, this is frequently not strong enough it is therefore increased  
to two and three grains to the Ounce and frequently combined  
with the Vitriol Albi or Sulphate of Lime in the proportion of two  
grains of the last to one of the first, it is remarkable that neither  
of these Medicines are so good in Gonorrhoea Separately as when

- D. Burton used the Sugar of Lead in Hemorrhages  
 1. Can a child die of it. Lead checked the disease in  
 2. Adults. The weight of the Lungs 15 grs in twenty four hours  
 with the greatest ad.
3. Mr C. Hemorrh. I gave the Sugar of Lead internally  
 2 grs with 15 grs of Arabic Gum powder which checked  
 the Hoop and the Menstruum returned.
- Mr D. Hart a Hemorrh. of the intestines, I gave the S. & S. Spee  
 S. & S. Spee<sup>4</sup> Sugar to be dissolved in 12 Drops - it checked the  
 Hemorrhage and cured the patient.
- Uterine Hemorrh. I gave the Lead to a Lady in the 14<sup>th</sup>  
 day of the M. 2 grs with Opium it acted as a power-  
 ful Sedative and checked the disease immediately.
- Dr. Boerhaave says the sugar of Lead can be given with  
 advantage in H. from the uterus preventing Abortion.
- D. Burton says the Lead can be of service without pro-  
 ducing Secknef.

Combined together when it does not yield to the external use  
of these Medicines. I have given the Sarcocolla Saturni internally  
in doses of One and two grains three a day which never failed of curing  
them, but it was only when I failed to cure the disease by Injections  
that I gave it internally. Dr. Hunter used to say that if he ever  
was attacked with Tetanus, he would be put into an Iron House  
and have a Solution of Sarcocolla Saturni thrown over him and  
take it internally. From this we can collect his Opinion of this  
disease that it was inflammatory.

Dose of the Medicine this must be regulated by the disease and the Age  
of the Patient and Habit of Body, nature of the Case. For It Is  
It must sometimes be given in large doses, the largest dose I ever  
have given was Eight grains, as already mentioned and One of Opium  
is in Dr. Jonsa late Physician, Surgeon of this City gave a lady  
a dose a patient of his try it with Uterine Hemorrhage which  
consisted of twenty grains and thereby saved the patient. I have  
found it very useful in Uterine Hemorrhage in small doses.  
This remedy better deserves the name of a Specific in Hemorrhages  
than Bark does in intermittents, if it was possible for there to  
be such a thing as a Specific.

## Stimulantia

I prefer this term to that of Stimulantia although both are  
perfectly synonymous One to the Other, on account of its having been  
up abused by many Medical Writers. Stimulantia or Stimulants  
are words which are generally used in a very general sense.

Of Particular Stimulants or Stimulants. The first which we shall  
hear of is One of great importance to mankind producing effects to

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to obtained from few others. I mean

## Opium

This is a very powerful Stimulant, but I do not set it at the head of my class of Stimulants, because I do not believe it to be a the most powerful for I am acquainted with several more powerful.

This medicine is one of the most valuable that we have received from the kind Author of Nature, it is the produce of the poppy *Somniferum* of Linnæus which is cultivated very largely in Egypt, the East Indies, Persia and some other Provinces of Asia for the purpose of making Opium. That which comes from Thibes in Egypt and here called Thibain Opium is usually the best esteemed. This Juice is brought to us in cakes or loaves, covered with leaves and other vegetable matter to prevent their sticking together. It is of a solid consistency yet somewhat soft and tenacious, of a dark reddish brown colour in the mass and when reduced into powder yellow of a faint disagreeable smell and bitterish taste accompanied with a pungent heat and Acrimony. Opium is made by making incisions in the heads or Capsules of the *Papaver Somniferum* when half grown and the Juice scraped off with an Iron Scoop and worked in an Earthen pan in the Sun till it be of a proper Consistency to be formed into the cakes already mentioned. Opium has been made in the State of New York by Mr. Pitkin and it was good as the foreign Opium, Mr. Jones of South Carolina is now turning his attention to the cultivation of the poppy to make Opium, and thinks to make handsome profits by it, as he has

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No doubt of a ready Sale, as this will be seen, whereas that which is imported is frequently adulterated with other Substances.

I now must consider the effects of Opium upon the human Body and other Animals, I shall treat first of the application of Opium externally, when Applied to a Superficial Wound of the Cuticle it produces pain and inflammation, but after some time these Subsides, Languor, inability to motion and Sleep come On. Dr. Cump says a Solution of Opium dropped into the Eye produced in ten minutes, pain inflammation, and an Effusion of tears, a Solution scuffed up the Nose he says produced Sneezing, the same injected into the Nutha produced heat and pain thereof, I have combined Opium with Plumbum Autatum in Solution as a mitigation for Gonorrhoea with considerable Success. Dr. Weston Applied an aqueous Solution to a fresh made Wound, it produced irritation and considerable pain for some time, Bergius says that when applied externally it stimulates and if kept on for a sufficient time will induce Sleep and Vesication, but Dr. Cump says he has Applied it to the Sound Skin and never found it to Vesicate. Weston and Cump applied a quantity of Opium to their wrists and bound it on, which they supposed to remain for several hours without experiencing any pain or Vesication being induced, Dr. Donald Donno applied large Opium plasters to the temples of a patient labouring under a periodical Head Ach with the effect of producing Sleep and relieving the pain. Dr. Mosely says Opium Applied externally in Sitania is of no Service



Dr Lind applied a plaster composed of Opium and Camphor, to  
the feet of a person labouring under Tetanus and who by Cauterizing  
the patient. Dr Cullen says Opium may be employed by being  
applied to the Skin, Rectum and ~~Stomach~~ Stomach when applied  
to the Skin (he says) it operates first upon the adjacent nerves  
and diminishes their Sensibility, by which means it relieves pain  
and Spasms of the Stomach, when they exist in any other  
part of the body, a plaster containing Opium, was applied to the  
Epigastric Region, it relieves Spasms of the Stomach, stops  
vomiting, removes pain &c It is also used in the form of a poultice  
for certain affections of the Body, for External Use the Opium  
is best employed in Tincture. Dr Henry Jackson in his Surgical  
Thesis, made a number of experiments upon Opium, which  
differ materially from some made by other persons particularly Cullen  
he is of Opinion that Opium produces little effect when applied  
externally, for my part I can bear testimony that Opium Applied  
externally produces their characteristic effects the same as when  
taken internally, although it requires its greater quantity to do it.  
A Lady about three years ago applied some Laudanum to the  
temples of a patient of mine, it produced in her, sickness, nausea,  
and inclination to Sleep, she had never taken Opium in any form.  
In what manner does Opium act when externally Applied?  
Does it act on the extremities of the Nerves and Solids thereabouts?  
or is it absorbed into the Circulation? I believe it does both, why  
should it not, we know that mercurial Ointment and Suppuration  
when applied externally to be absorbed. I come now to treat



of Opium when taken Internally, and of its effects upon the natural  
 vital and animal functions, when taken internally, the pulse is  
 very soon increased, becoming stronger, fuller and more frequent, after  
 some time it becomes much diminished in force and frequency,  
 but very resty, which goes off after some time, if the dose taken  
 be very large, it produces Apoplexy, Mania and Convulsions, but  
 these effects are produced by other Narcotics besides this as Conium  
 Maculatum, Brandy &c.

D<sup>r</sup> Waller saw a sharp kind of Apoplexy brought on by an  
 excessive dose of Opium caused by exciting Traying. Linnæus  
 saw a case induced by the same cause by running the  
 sharp end of his cane up the Aortul so as to produce a large  
 Hemorrhage from it. D<sup>r</sup> Boerhaave says Opium encreases  
 the Circulation. Scallus says it quickens and raises the pulse  
 he says this is the first Operation of this Medicine and that after  
 some time it diminishes it, he says that when taken in large quantity  
 its push effects are so soon over as not to be much pursued or attended  
 to. D<sup>r</sup> Cump has proved beyond all doubt that Opium is a  
 Stimulant, having Breakfasted says he upon and eat lightly  
 of Bread, Butter, at twelve took one grain of Opium in Water,  
 my pulse beating seventy its natural Standard, in two minutes  
 it was seventy in five seventy four in ten seventy six in fifteen  
 seventy eight, in twenty seventy four in thirty the same, in  
 forty seventy two in fifty five it beat forty five pulsations in  
 a minute. A few minutes after I took one and half grains of  
 Opium.

Minutes	5 to 10	15	20	25	30	35	40	45	50	55	60	80	90
Number of Pulsations	74	75	76	78	79	80	81	82	83	84	85	82	82



As my pulse increased in frequency It also increased in force during  
which time I felt exhilarated and sprightly, after some time when  
the secondary operation came on, I felt languid, dull head &  
head ache, and some nausea which went off in about three hours  
in a sound sleep. My two former prejudices In this chain (says  
Benton) believed and taught that Opium was a Sedative, but they  
had never examined the pulse of a patient immediately after he  
took opium. The fact is now well established I think that  
Opium is a Stimulant and increases the force and frequency of  
the pulse, it also increases the heat of the Skin, Dr. Cullen found  
it to be so in every one of his experiments, he says it produced flushing  
of his face and Burning of the Palms of his hands. The *Animus*  
*Alvium* which Opium generally induces proves it to be a Stimulant  
and upon examination of the Bodies of persons who have died  
from taking an excessive quantity of Opium, we find the  
Blood vessels of the Brain turgid and distended with Blood.  
We come now to consider the Operation of Opium upon the  
Natural functions.

It induces Sleep; loss of Appetite is the constant effect of the  
Continuance of it for some time. it increases the perspiration and  
induces Costiveness. It was used to allay the great hunger of pain  
experienced in a famine in the East Indies when it was sold  
up at a great price for this purpose, Opium does not always  
diminish the intestinal evacuations for Opium generally proves  
purgative in Diarrhoea when attended with much fever. It  
appears to purge generally when a torpor exists in the Intestines

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What is the reason it so frequently purges in Cholera Pitomum.  
It certainly discharges Stasis from the intestines and Stomach  
as every other Narcotic will do.

Is Opium a diuretic? Meuser says it is, Dr. Mour found  
it useful in Dropsy, Mr. Mason says he found several Cases  
of Dropsy with it, but I suspect there was some duction in  
Mason's Cases, Dr. Haller asserts that Opium diminished  
the Secretions of Urine and Saliva, in himself, it is agreed by every  
Physician that it increases the Secretion of the Skin which frequently  
continues after the pulse is lowered by it, and the Secondary  
effect has continued for some time. In some Cases it induces a  
troublesome itching of the Skin which continued for some time  
in a lady of my Acquaintance, it is generally prevented by taking  
a bowl of any warm fluid as Tea, Coffee, Sage tea &c. In some  
persons after taking it it induces an Eruption on the Skin  
similar to Miliaria. Dr. Haller says he has discovered  
Opium by the Smell in the perspiration of persons who had  
taken it. Dr. Clump is of Opinion that Opium diminishes  
all the Secretions except that of the Skin, but I have attempted  
to prove that it increases almost if not all the Secretions.  
The Larvae of Insects some feed upon Opium, I have fed them  
upon it alone for some time they were nourished very well, this  
goes some way to prove it a Nutrient, I think it proves it not  
a poison. We are now to treat of its effects on the Animal  
Secretions. It increases the Salivary of the Mind disposes to  
and increases the Venereal desires, produces Erection of the Penis &c.



After some time the patient becomes dull, febrile, languid and inclined to sleep, if taken in large doses it produces delirium.

Convulsions and death. The convulsions produced by Opium are said to be of a peculiar kind and greatly resembling Tetanus. They are certainly tonic spasms, having complete interruptions which continue for some time, but they are excited by the smallest motion or even by touching the patient, and in one case a complete Opisthotonos was produced, but Opium does not always produce convulsions, for I saw a person die from an over dose of Opium without convulsions, it has been used in a few drops to produce Narkotism, when a young man I was so foolish as to take a few drops of Laudanum every time I felt sleepy to cause me when I wanted to study, I was also once coffee made strong.

Opium produces very different effects upon Maniacs, rendering some furious and calming others, but it is only when they are highly excited that it produces this effect, and in this case Brandy and Alcohol would do the same effect, in these cases I have known Opium and other Narkotics calm the Maniacs and produce sleep. I attended a Gentleman in consultation with Dr. Paken in whom Brandy and Opium produced the same effects Mr. Turner and in many instances I may remark their operation is similar. That Opium is an irritant has been proved by the facts and experiments already corroborated by the following circumstances. 1<sup>st</sup> Its taste which as already mentioned is pungent and irritating applied to excoriated parts produces pain, inflammation,

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Raises the pulse &c. Opium when given an hour before the  
Paroxysm of an intermittent frequently prevents the Occasion of it  
which is undoubtedly done by its Stimulant Operation from the  
following facts and Observations it is plain that Opium will do  
harm during the Continuance of inflammatory Actions but after  
that is Subdued it is a valuable and useful Medicine. It is  
aserted by Dr. Boerhaave to be hurtful in every Case where Blood letting  
is necessary, but I cannot agree with this learned Author for  
I believe there are Cases in which it may be necessary to draw Blood  
and immediately give an Opiate to compose the patient as in  
the Clope of a Pneumonia &c. but it should be used with great  
Caution in these Cases. There are also some Cases of Rheumatism  
in which it will be requisite to draw Blood and afterwards give  
an Opiate. The first Operation of Opium is that of a Stimulant  
but its Second Operation that of a Sedative or in other Words it first  
increases and afterwards diminishes the pulse, when you see find  
that whenever ~~the pulse~~ it has been given in inflammatory  
Airs it has subsided and afterwards diminishes the  
pain which diminishes the pain which returns again as soon  
as the Second Operation is done. If by any accidental Cause  
those who are accustomed to take Opium cannot procure it, they  
sicken, grow faint, languid, and die frequently unless they take  
Altho' it, Brandy or Wine as a Substitute which answers instead  
of Opium, totally well, and this part goes a great way the  
Stimulant nature of Opium for if it was not a Stimulant  
how comes it that the Suckers when out can substitute nothing



That answers the purpose so well as the most powerful Stimulants.

Dioscorus Alpinus remarks that those who are accustomed to take Opium were languid dull and did not sleep they could procure it in several Cases of Mania originating from the excessive use of Spirituous liquors In which it may be dangerous to abstract the Stimuli suddenly I have given Opium as a Substitute for their accustomed doses of Spirits, and by this means cured them of the Mania and also of the love of Strong Liquors. In some Cases I have given the Lacedaemon by itself and conjoined with Opium. The practice of those who believe Opium to be a Sedative is very Contradictory to their Theory, for they recommend it in Cases attended with debility and forbid or use it very cautiously in those attended with inflammation, for Instance they use it freely in Atonic Gout which depends upon debility, now according to their Theory it ought to be banish'd by debilitating the Patient still more, whereas we find it of great Service. This is one of the many inconveniences to be met with between the Theory and practice of the celebrated Dr. Cullen. Dr. Brown certainly deserves great Credit by erecting a proper Theory of the Action and effects of Opium, he says it produces Insensibility when taken in large Doses.

A fact may now be started against Opium which is, Opium is a Stimulant and acts or exerts its anodyne properties merely by virtue of its incitant power why do not more powerful Stimulants act as anodynes. Dr. Cullen says in Answering this question we must take into Consideration a number of Circumstances



As the greater or less diffusibility of them, the length of time they  
act. See Lu Camp On Opium. The Idea of explaining the anodyne  
effects of Opium merely from its Stimulant power is very ingenious  
but will not I believe stand the test of examination, Opium I believe  
certainly produces anodyne effects by virtue of a certain principle  
independant of its incitant power, which it possesses in common  
(though in a high degree) with other Narcotics. The effect which  
any Stimulant produces on the body depends in a great measure  
on the preceding Stimulants which have been used, for Instance  
if the patient has been taking Alcohol immediately after  
Opium, the last will not produce that effect which it would  
had he not taken the Alcohol, for the first exhausting the  
excitability being proportionally exhausted the Opium produces  
less Effect, we may sum up the Operation of Opium in a few  
words. 1<sup>st</sup> It Stimulates, 2<sup>nd</sup> This Stimulant Operation is  
of a diffusible nature 3<sup>rd</sup> That it is soon exhausted or in other  
Words the Stimulant effect is soon over, after which the pulse  
is raised in force and frequency &c. This is its Sedative effects  
when taken in too large Doses it produces Stupor, Convulsions,  
Apoplexy &c. I recommend Dr Alexander Wilsons experiments  
on Opium to you for your perusal. I come now to treat of the  
Use of Opium in continued fevers. Dr Cullen divides fevers  
into three kinds, Synochus, Typhus, and Synocha. They are  
all in the beginning of an inflammatory nature, and these  
Symptoms continue longer in these diseases than in the first

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On inflammatory Stage of Yellow fever, Dr. Cullen was decidedly  
of Opinion that Opium did harm during the inflammatory  
Stage of these diseases. All fevers are produced by Stimuli and  
according to the greater or lesser quantity producing them will the  
inflammatory Stage last. The Stimuli which produce the  
plague are of the highest or first Order therefore it is the most  
violent disease we are acquainted with. The inflammation must  
be cured first either spontaneously or by Medicine before the  
Opium can be given with advantage. In the Second Stage of  
Febrile diseases, Delirium frequently supervenes from Debility on  
the accustomed proportion of Stimuli being absent in which  
Case Opium, Bark and Wine have been given with advantage.  
For Instance the delirium which takes place in Typhus fever,  
can only be cured by these remedies carefully exhibited according  
to the varying States of the System. Many Physicians are  
divided as to the proper time to begin with the Exhibition of  
Opium. Dr. Sydenham says it should not be given until the  
tenth day, but this rule is by no means to be depended on, for  
in many diseases the inflammatory Stage will not last a third  
time, and in others will continue much longer and Opium can  
never be given with success while this continues.

Use of Opium. In Continued fevers Dr. Gilchrist says  
Opium may be given with success in the first Stage of what  
he calls the low nervous fever in his treatise upon it. He says  
when given early it prevents the disease running on for some

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And the debility of it is thereby removed. That if given in the forming  
Stage it prevents the disease. He says he prevents the delirium  
from coming on. if given fully after the formation of the disease  
he also says he cures he cures the delirium if given while the  
patient is labouring under it. ever since the publication of  
Dr. Gilchrist's Opium has been used more frequently than formerly.  
Dr. Cramer made a comparative experiment on two patients  
labouring under Typhus Malignus with delirium to one he gave  
an Opiate at bed time to the other he gave none. The patient  
who took the Opiate rested well all night and was perfectly  
free from delirium in the morning. The other was restless all  
night, Delirium and fever increased whereas the fever of the first  
was diminished. He frequently gave Opium in combination with  
Camphor and says it uniformly relieved his patients and  
produced a determination to the skin his recipe was as follows.  
Of Opium  $\text{℞}$  ana and half grains, Camphor from ten to fifteen  
grains. This was made into a bolus and taken at bed time, or  
dissolved in Water. He also frequently prescribed the following  
Recipe.  $\text{℞}$  Gum Camphor ʒss Spirit Turbani ʒvss Aqua  
Solut ʒi An Two thirds of this was taken at going to bed and  
the remainder some time after from thirty to forty drops given  
the next day undid the patients comfortable and appeared to  
shorten the time which appears very long to patients in this  
situation.

Dr. Cullen says that in this disease. (Typhus Malignus) when  
attended with delirium, Subcutis Tendinum Ichth has



Exhibited Opium with advantage and he calls it a Sovereign  
Remedy now, but I must be repeated every 8 hours, in the 2<sup>nd</sup> Stage  
of this disease when frequently the patient cannot sleep. It can  
be given with the greatest advantage in curing refreshing Sleepers,  
Opium is of use in the Diarrhoea which frequently occurs as so  
troublesome Symptom in some fevers, for when it occurs in fevers  
attended with great debility it destroys the patient by soon ex-  
hausting. In typhus it is favourable to promote a loose habit,  
for I have seen one stool debilitate the patient to such a degree  
as to bring on fainting Fits, but in general Costiveness does harm in  
febrile diseases. I am so well convinced of the utility of Opium in  
Typhus that ~~was~~ I should as soon think of laying aside the lancet  
in violent Pleurisies as the Use of Opium in this disease, but as  
we know that the Stimulus of Opium is soon over, we must  
repeat the Medicine often, so as not to let the Effect of one dose  
go off before we give another, Sweating sometimes takes place  
in Typhus in this case we must lay aside the Opium as it  
would have a tendency to increase it and run to some other incident.  
You have no doubt heard of the harm which Opium did in the  
Yellow fever and as you know in this disease, the liver is inflamed.  
Which Opium never fails to increase, but when no inflammation  
exists in any part of the body and when there is an obstinate  
vomiting, Opium has sometimes been given to stop it with  
success. I may observe that in general I consider Opium  
highly improper especially in the first Stage thereof.

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**Rage.** This is an highly inflammatory disease. Therefore Opium must do harm while the inflammatory action exists, after which it may do good; It has been recommended in this disease; I can say nothing of its use from my own experience.

**Intermittent fever** It has been used in this disease by Galen, Et Mueller, Bellini and several others among the Ancients and most of the Moderns have used it. Bellini recommends ~~the~~ Opium to be given an hour before the cold fit comes on if given a greater length of time before, it does no good and if given during the exacerbaton it does harm by encreasing the fever. Yet sometimes produces Death.

The Effects of Opium are said to be more Uniform in intermittents than that of any other Medicine. Dr. Lind gave it in the hot fit and pleads hard for its use in it, but If delirium came on he postponed the Opium until it had gone off he gave 60 drops of Laudanum or more, that was not sufficient in two or of the Tertian & Sarcos, This certainly in some measure prevents the ill effects that the Opium would have produced. When Opium is given in intermittents it certainly takes up Pain to be sure, for my part I think Dr. Lind's practice a very dangerous One, and my experience has uniformly been the worse of his for I never saw it given during the hot stage without making the patient worse, I saw a man aged twenty five two grains of Opium in the hot fit of a light tertian fever, it produced violent

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Pain in his head followed by Delirium and after some by Coma.  
I have sometimes followed Lind's Method of giving thirty or forty  
drops of Laudanum in a Cup of Strong Coffee at the Commencement  
of the Paroxysm. I have cured twenty patients in this manner.  
I have reason to believe that Coffee deprives Opium of its Narcotic  
effects in a great measure and I am confirmed in this Opinion  
by the experiments of Professor Cauminati.

Professor Cauminati ascertained what quantity of Opium  
was sufficient to kill Hens, a number of other fowls. See  
he gave to some of them the necessary quantity mixed intimately  
with powdered Coffee and found it to produce little effect. He  
ascertained that it was necessary to use three the quantity of  
Opium when mixed with Coffee to produce the same effect which  
it would have done had it not been mixed. Dr. Cullen says that  
when Opium is added to Bark it takes up of the Simplicity to  
Cure the Fever. Dr. DeJussie says he found Sal Armoniac to be  
an excellent addition to the Bark when added to it.

I come now to treat of the Use of Opium in Phlegmasia or rather  
the abuse of it therein. The greater number of Phlegmasia are  
attended with considerable inflammation, in which case Opium  
will do harm and the remedies must be blood letting, purging &c.  
There are some inflammatory Cases in which we wish to produce  
Sweating &c. and this is commonly done by Stimulating Substances.  
Now Opium causes too tight and can be used but in this case it  
Operates by producing an Evacuation which more than



Counters its Stimulating effect, the most common which  
we use of Opium with this intention is in the form of Dover's powder.  
These are used in inflammatory Rheumatism in which case they  
do good when given cautiously. When a Stone is passing through  
the Uterus, attended with great pain, Sob, Bleeding and purging.  
Dr. Cullen mentions the use of Opium in the Inflammatory  
State of Suppuration of the Small Pox. In Pneumonia which  
is always an inflammatory disease, Bleeding, purging, Cold diet,  
and regimen with Bleeding are the most proper remedies, and while  
the inflammation Opium is highly improper and injurious.  
After this is subdued it has been given with advantage to relieve  
the Cough Sob in combination with substances that determine  
action to the Skin as the Mixture Mucilaginous of the Edinburgh  
Dispensatory. De Haen recommends a mixture of Sassafras Oil  
and Laudanum to be used. Dr. Hammett used a combination  
of Calomel and Opium in Pleurisy. I have known many a  
Life saved by it in the Pneumonia which sometimes occurs in the  
Natural Small Pox and in Puerperal Women in which last it  
has prevented abortion. Almost all Authors bleed first in these diseases  
after which Opium may be given with advantage. Pneumonia  
is one of these diseases in which Bleeding must be several times  
repeated, and the use of Opium should not be entered upon until  
cessation of inflammatory action.

Opium is hurtful in all inflammatory Cases unless it produce evacuation  
by Sweating or Urine, Dr. Cullen says it is always hurtful in

Pulv Doveri, ℞ Opium ℥i  
Spicas - ℥i  
Sulphat potas ℥i

rub well together  
from 10 to 15 gr. every two or 3 hours -

Rheumatism attended with inflammation unip in Swarts the  
patient febrile.

Opium has been much used in Catarrhs but I may here observe that  
Catarrh is always attended with inflammation in the beginning  
but that after sometime the Cough is kept up by habit when it  
can be given with advantage, it is generally given in this disease in  
Combination with several other articles of the Materia Medica.

The most common is the Mixture Mercurialis of which the following  
is mine. *R. Suctura Opii Campborata Unciam Unam, Nivi  
Antimonialis Guttos Centum et quadringentos. Extract Glycyrrhiza  
Atractodes rubea rub. clous with Six or Seven Ounces of Water of this  
a table Spoonful is to be taken every two Hours.*

Rheumatism this is of two kinds the acute and Chronic. The first  
is always in inflammatory disease, and to be treated by Bleeding, general  
and topical after which a Copious and Universal Sweat must be  
for 12 13 or 24 Hours complete the Cure. The second species arises  
from debility of the parts and requires a different treatment. The  
Sweat which we wish to induce in the patient is best brought on  
by some remedy that does not Stimulate too much and as all  
Sudorifics are Stimulants it behoves us to Choose that which  
will induce the most efficacious Sweat with the least Stimulant  
effect such as Opium, Dover's Powder, the Composition of which is as  
follows. *Spicae Indicae and Opium of each of One Dram, Sulphate  
of Pot Ash common Calceatritiolated Tartar One Ounce. The  
Opium and Spicae Indicae must be rubbed intimately with the*

" Wait 10 minutes and if sweat dont break out give  
a little drink - - - - -

Sartar and gear-Cair: Should be taken that the Combination  
is perfect. Ten grains of this powder Contains the grain of Opium  
And One of Iperacuanha, The dose is commonly from ten to fifteen  
grains every two hours. The vitrolated Sartar is only used for the purpose  
of dividing ~~in~~ the other parts. I have used Gum Arabic instead of it.  
A particular mode of giving it is now used, which Dr. Cullen describes  
particularly. he says it should be given in the morning, after the ordinary  
time of Sleep is past, and while the patient is still in Bed, he should  
have a flannel Shift on and be wrapped in Blankets, the Body and  
legs well covered, the powder is then to be made into a bolus with a  
water and swallowed whole, no drink to be given until the Sweat  
breaks out which if it is only partial, and not on the extremities, Bottles  
filled with warm water, or hot Bricks should be applied to the  
feet and new Covering put on them. The patient is now to drink  
thin gruel, weak Sage and Chamomile Tea, Sometimes Potage is  
given. This Sweat must be continued for 12<sup>h</sup> 18 or 30 hours after  
which the patient will feel entirely well, but great Caution is requisite  
he must first pull One hand out of Bed then an Arm, after Some time  
both. The bed Cloaths must be diminished gradually after which  
the patient is to be wiped dry and wrapped in a flannel Gown or dress  
sensibly warm, he must keep his room for Several days, he must  
quite weak, he may eat weak Soup, Chicken broth, dry Toast &c.  
for the time he keeps his room if the Sweat does not break out in  
the beginning he may thro' also and Sometimes a little Wine.  
This method of inducing a sweat has also been used with



Success in several Cases of Dropsy, this is a febrile disorder, Dover's  
powder prescription contained a quantity of Nitre and extract of  
Liquorice, Dr. Sydenham was of opinion that Opium did harm in  
Rheumatism by causing it to continue longer than it otherwise would  
have done or fixing it to some particular part, but he was under the  
influence of critical days, he says it should not be given till the 5<sup>th</sup>  
day, but it should not be given says (Dr. Baillon) until the  
increased action is subsided, this will sometimes be in a shorter  
period of time or less longer, Dr. Sturlock says the narcotic effects  
of Opium are prevented by the Spicacubas with which it is  
combined in the Dover powder, this is a species of Rheumatism  
which comes on after the acute has continued for some time in  
which the Irritability is accumulated or the ~~action~~ <sup>action</sup> has increased  
say much, it is attended with quick pulse, and great pain and  
great debility, here Opium and Cast does good.

Dr. Hamilton found Opium and Calomel combined of more Service  
in Rheumatism than any thing else.

Gout when regular in the feet should by no means be treated with  
Opium, for here it will do much harm, Dr. Brown and his followers  
believe Gout to depend upon debility and gave strong Stimulants  
to cure it, Dr. Brown's arguments are founded upon the debility  
which exists in the Bodies of those persons who are subject to irregular  
Gout but here the debility is the Effect and not the Cause of the  
disease, Gout is certainly at its commencement an inflammatory  
disease, it makes its approach like other inflammatory diseases,  
Irregular and returns, Gout when in the Stomach it produces

Dr. Barton speaks in the highest terms of the combination  
tion of Quinier & Opium in gout of the Stomach —  
and he says he has taken as much as an ℥i of Quinier  
in a few hours —

Sickness, vomiting and great pain in the Stomach, Opium may  
be given with advantage, it should be given in large doses. and  
frequently repeated as its effects are soon over, Dr. Cullen has gone  
so far as to give ten grains twice a day. Thus have you far beyond  
this I have myself taken Six Grains of Sulphur Ether and twenty  
grains of Opium a day. I have taken three ounces of Ether in three  
bowls with the effect of removing the pain from the Stomach. =  
Favola has been Opium used in this disease since the days of  
Sydenham. In the mild kind and during the inflammatory stage  
of the Malignant it does harm, but if Convulsions come on it must  
be given, in which case it is useful, after the 4<sup>th</sup> or 7<sup>th</sup> day and  
during the filling of the pustules it does good, when great debility  
exists as in the Favola Confusa it does good, wine should also  
be given them. In the secondary fever of the Confusa kind  
Opium, Bark, Wine and acids are good says Morton and Cullen.  
In this stage Soup, Morton a diarrhoea is frequently fatal,  
Huxham De Haen and Cullen; when a young man thought a  
Diarrhoea useful and used to bring it on by means of purges, but was  
soon left stark off and gives wine acids etc which do more good.  
Sydenham used Opium.

Mazels or Rubella. They are often in inflammatory Com-  
plaints and to be treated by bleeding moderately, cool Air, gentle  
purgatives and Blisters, but Opium does harm, after the  
inflammatory action is subdued it may do good. before it  
increases though the Milt Mucilaginous is the best method  
of employing Opium; a Diarrhoea sometimes attends the

The best remedy for sick headache is a few drops of  
Sassafras given in a cup of strong coffee —

Hemicrania is a very distressing complaint & is  
completely relieved by opium — — —

Mucous which must be checked if it continues long.

Scalatinæ, I have little to say of its use in this disease, for it is generally so inflammatory that Opium does harm or so mild as to do ~~no~~ not to under it necessary.

Dysentery. Dr Sydenham trusted the cure of Dysentery to Opium almost entirely, he gave gentle purges at first and afterwards twenty five or thirty drops of his liquid Laudanum three times a day. And you know that his Laudanum was twice the strength of Ours.

Dr Cullen was influenced by his theory to the prejudice of Opium, and I think he did not see so many Cases, if he or he would not have said what he did of the use of this Medicine in it. By its Stimulating quality it sometimes does harm, it may sometimes be given immediately without preceding purges, but in a majority of Cases it is necessary to use Cathartics before you give it. I have a slight touch of Dysentery every Year for 12 or 13 past, and have immediately recourse to Opium with great Advantage, and I am certain that we are more afraid of the Constipating effects of it than we ought to be, and that we ought to use it oftener than we do.

Tetanus A Physician gave twenty ounces of Laudanum in twenty four hours to a patient labouring under Tetanus, and thereby cured him, to another he gave fifteen pounda grains in seven days, and to a Negro ninety grains in ten days, both of whom recovered. I may here remark that all those physicians who have cured Tetanus with Opium, employed in it large Doses, and those that failed used it in too small doses, it certainly has done good in some very violent Cases, and the Scurf of Bark and Wine in it

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Ought to increase our Confidence in this Medicine, for we know it is  
useful in those diseases in which they are useful.

Hydrophobia has been very seldom cured, we should examine  
with attention its peculiar Nature. In its first Stage it is inflammatory.  
The Causes inducing it are Stimulating, viz. the bite of a rabid Animal,  
Rattle Snake, Stramonium, and Camphor as related by Dr. Alston.  
Purston says he found Opium useful, Hillary says it is baneful,  
subdued the Spasms of the Throat and ulcers the patient. Loven  
says he cured two Cases of Hydrophobia by means of Opium. Dr.  
Frank used it in two Cases without Success. I may here mention  
that of late a plant has been recommended in this disease, by  
the Name of Pimpernel, and our Legislature have censured  
themselves very ridiculous by their noticing it, for it appears to  
possess no Activity. This pimpernel was formerly held in great  
esteem, as a Cure for it in Germany, Holland and Switzerland  
but has fallen thus into disgrace, for not being possessed of  
any Activity and many having the disease who took it. This is  
a plant known to Botanists by the Name of Amagallis.  
A person in Lancaster was bit by a Mad Dog and immediately  
began to take the Amagallis or Pimpernel, which he continued  
for seven Weeks, during which time he took four hundred grains.  
He was nevertheless seized with Hydrophobia of which he died.  
A Case occurred in the City to Dr. Rush and Physick which  
proved fatal the boy said taken the Amagallis for three weeks  
to prevent the disease, but without effect he died. Upon this  
whole this plant has no more smell or taste than Sallad and



Populus no more activity.

*Chorea Sancta Vitis* In this disease Opium has been given with advantage, Dr. Sydenham used bleeding, purging, Opium and Blisters, and Bitters alternately, but I suspect be cured more by the Bitters than by Blood letting, Prussian Bark, the preparations of Iron, Exercise, Cold Bath, pure Air and Opium has cured several. I have cured a Case by Blood letting as already mentioned, Opium is certainly a very proper remedy in many Cases of this disease.

*Epilepsy* Sometimes arises from debility and loss of Blood by hemorrhagy, but Aulus Helicinus for Satallus does not mention it, and if it often arose from this Cause he could not fail to have seen it as he drain'd such immense quantities of blood from his patients, that he could not fail to have produced it had it depended upon this Cause alone. It Occurs in plethoric habits often than in any other. Dr. Cullen says he cured more by low diet than any other remedy, this proves it to be attended with if it does not arise from debility Plethora. A fit of Epilepsy is frequently brought on those who are Subject to it by a determination of Blood to the Head, Sometimes Epilepsy occurs at stated periods having regular intervals and attended with debility, here Opium has done good.

I had a patient a Lady some time ago under my care with Epilepsy brought on by a fright Occasioned by the Blowing of the Dutch Church in fourth Street near what she lived. The great fit came on at Nine O'clock in the Evening and just after she went to bed, if she sat up it did not prevent the fit coming on. Her habit was very irritable, I gave her three grains of Opium

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Every evening an hour before the fit came on and perfectly cured  
her in ten or twelve days.

In that species of Epilepsy which occurs from an Aura Epileptica  
Opium has been used with some success. Dr Hain of Vienna has  
related a case of Epilepsy of this kind which occurred during sleep  
at regular periods which he cured by Opium. In far the greater  
number of patients troubled with this disease, the fits came on  
at night or during sleep it does not depend upon an horizontal  
position or warmth of the bed cloaths for it occurs if they  
sleep in a Chair without covering.

Palpitations of the Heart when it occurs from Spasm Opium  
does good, but in a great number of cases it depends upon Gout  
and does not depend upon an organic Affection. So often as the genuality  
of Physicians imagine. Sauvages relates a case of it occurring from  
Gout. I have frequently had palpitations of my breast says Barton  
immediately after the Gout has left my head.

Asthma of this kind are two kinds the inflammatory and the  
Spasmodic in the first species Bleeding and the Antiphlogistic  
treatment in general with pure Air must be had recourse to, in  
the last Opium has been used with great advantage. I have used  
it with success, and generally use it frequently. In the first  
species I have sometimes used it in the form of Mith. Mucilaginoso.  
Pyrosis or Water Brash is a disease very common in the  
Western parts of Pennsylvania, in Lapland and in Scotland.  
Linnaeus paid great attention to it, he gave to some persons Sulphur  
and encreas'd it to the quantity of a Scruple for a dose, but you know  
that we can take larger quantities of it than the same Animals



And that it exerts its powerful effects upon Men. Cullen and Sump-  
wood Opium. I have had little experience of its Use myself but used  
it with Sump in two Cases that came under my Care.

*Colica* This is of two kinds the inflammatory and the Spasmodic.  
In the first Bleeding, purging, Milder Sed. may be used after which it  
may be given in Small doses and cautiously, when vomiting occurs  
it can be given more freely and with effect in stopping it. In the  
Spasmodic kind it should be given frequently and in Considerable  
Doses, in that variety called the bilious it is also good and in  
*Cholera Pictonum* good purges frequently. See.

*Cholera Morbus*. There is no disease in which Opium is so  
uniformly of use as in this. Sometimes it will be necessary to  
clear out the Stomach and intestines before we begin to exhibit  
it, but when that has been done by the disease, and when great  
debility exists it must be given immediately.

*Hysteria* of this there are two Species the one attended with  
Inflammation and the other in which none exists but depending  
upon debility and increased irritability of Body. In the first it is  
of Use until the increased Action is subdued, in the second it  
has been given with advantage the Tincture has been used frequ-  
ently in combination with the Tincture of Asafetida in this sense  
and with Sump.

*Mania*. Wepfer in his Account of Mania says he cured several  
Cases of it by Opium. he began with Small doses and  
increased so that some of his patients took fifteen grains in a  
dose. Dr. Cullen says it sometimes does good at other times.

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That ever depends upon an Organic Affection or mal Conformation of the Brain, Opium is of no Service but that ever depends upon Occasional or exciting Causes it may do good, I have used in very large doses in this disease and found that if it was continued in for a length of time Eruption took place all over the Body which degenerated into troublesome Sores, that would not heal until the Opium was left off. I found it of considerable advantage in some Cases but never made a complete Cure of it.

Peuperal Mania and that arising from excessive use of Stimulating and Spirituous liquors, we must use other Stimulants and the best of all we can use is Opium, I never have failed with it.

Gangrenes. There is a particular kind of Gangrene, that which is incident to all persons attacking old persons toes, and progressing slowly over their foot and up the leg until it destroys them which seems to arise from Deficiency of Action in the extreme Parts of the parts, in this Opium was given by Mr. Pett with the happiest effects it should be given constantly and persisted in for a long time, beginning with small doses and increasing gradually until the desired effect is produced.

Syphilis. The Use of Opium in this disease first began in the Year 1779 a young man had been labouring under it for a great length of time, and had taken great quantities of Mercury, to little effect until he was become emaciated considerably and very weak when the Mercury was left off, and not being able to rest on account of the pains in his limbs he was



Ordered to take an opiate at bed time, this he did and finding  
it to agree with him, producing rest and cessation from pain he  
continued to take it and gradually increased the quantity, when  
he had it for some time perceiving his health to improve and his  
Strength to increase. The Physician ordered him to take small  
doses through the day, his Sore gradually ~~was cured~~ healed, the  
pains left him, and after some time he was completely cured.  
This cured induced a number of Physicians to try the use of Opium in  
Syphilis, but after repeated trials it was found that it would cure  
persons in similar situations to the young man whose case was  
related, but that it would not cure them if no Mercury had been  
used, and no person now depends entirely upon the use of Opium  
in this disease, it relieves the pain &c. By itself. Mercurius has  
never cured Syphilis but when combined with Opium Calomel or  
Corrosive Sublimate it has no doubt been of great Service in many  
Cases where the patients have taken Mercury in large quantities,  
and the disease remained stationary during the use of it, and  
for a long time and in the obstinate Ulcers that are left by Buboes  
attended with flaccid Lips &c. the use of Opium has made the  
Cure progress rapidly. Dr. Sydenham a Dane supposed Opium  
acts by rendering the System insensible to the action of the  
Syphilitic Virus, and thus preventing its doing harm and  
Eliminating it from the System.

**Hemorrhagy** This is of two kinds the acute and passive, in the  
first it always does harm, in the latter it sometimes does good.  
In Hemoptysis attended with a great Cough it sometimes  
does good by removing the Cough and thus the Cause of the disease

The number of years may be given in hand  
 to the first or second or third or fourth  
 of the hundred years. The year a great deal more of  
 them in the first or second or third or fourth

Is done away but as this disease is the unity mine Cases of one  
hundred inflammatory. The Opium will do harm in the same propor-  
tion.

Epistaxis is of an Active kind Occurring in the beginning of fever.  
then Opium does harm; I believe this form of Hemorrhagy to be constantly  
of an Active kind. I was told of it that Occurred in a certain Colonel  
Beachad which resisted all the usual remedies that could be applied.  
and Dr. Hahn says that every thing was tried in vain until recourse  
was had to the styptic powder of Roscanis. This powder of Roscanis  
Appears to be says Dr. Hahn nothing but the Carbon of Willows, it  
produces its good effects in a few minutes. The Colonel had been almost  
Converted into an Ice house before this was tried. Having it  
Applied to his head face, breast, Abdomen, back, thighs, legs and  
Arms, as well as hands and feet without effect.

Hemorrhoids very often an active hemorrhagy it Occurred  
in the beginning of yellow Fever in which case Opium did  
harm.

In Calculus, Opium may be given without regard  
to the fit - a man troubled with the Stone took 40 grains  
of Opium patients can bear a great deal more of  
Opium in fits than when well,



# *Hyposciamus Niger.*

This is a very Active Medicine and makes the nearest Approach to Opium of any other Medicine of the Materia Medica. It is a very powerful Medicine, Some persons in a mistake eat of the roots & of taking them for Passies, it produces Coma, delirium, Mania, Double Vision, red and inflamed eyes. Intolerable Heat and inability to bear the light and after a considerable length of time after their recovery weak eyes. A Swab took it in mistake and had well nigh killed himself, it produced a diarrhoea, delirium, red and inflamed eyes and gangrenous Spots all over his Skin. The difference between Opium and the black Hellebore is that Opium produces Constipation while this generally purges, upon dissecting the body of persons killed with this the texture of the Brain was found turgid and inflamed and frequently a serous effusion in the ventricles. Dr. Stouffer used it in Convulsions, Mania, Melancholia &c. he began with small quantities and increased it to ten, fifteen and twenty grains a day, he says it sometimes produced disagreeable effects as head ache, delirium. he says it generally had an anodyne effect and frequently did good when Opium did not, but that it sometimes failed when Opium succeeded. Which it has frequently done good when Opium has not. I have had more experience with this medicine than any other American Physician, and from my experience of its salutary effects I am convinced that it ought to be used oftner than it is. Dr. Geyser used it in doses of one grain at first every night and increased to eight, it produced a copious flow of Urine

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Pain & Continence and Scurrilous. In two Women labouring  
under Amenorrhoea it produced a Salivation and brought on  
their Menses. Dr. Monro relates the Cure of a girl afflicted with  
Mania wrought by this Medicine. Dr. Aubrey Sottergia cured two  
Cases of Mania by it he gave five grains every Morning and evening  
increasing gradually until the patients took half a dram at a dose,  
both recovered in six Weeks after they began the Use of this medicine  
we should always begin with one grain or less at first. Dr. Stock  
Used it in Hemorrhagy I conceive this Medicine to be about as good  
as Opium in Hemorrhagy and that the same author laid down  
when treating of the use of Opium in this disease as very applicable  
here ~~that~~ <sup>not</sup> that it must be used in Cutive Hemorrhagy or while it  
exists in the System It has been used in Menorrhagia in the  
Mania of Femoral Women. Narcotics, such as Opium, Henbane,  
Stramonium &c are the best remedies. Dr. Cullen says Henbane  
was more disposed to give troublesome Sleep, but I always found  
it to give refreshing Sleep, Chorda is sometimes troublesome and  
an Obsolete Complaint, Blood letting, purging It must be used  
after which Opium is very good and As Henbane is nearly allied  
to Opium, and has the advantage of purging it must be preferable  
to it in this disease, One grain of the Extract, taken at first and  
increased to three grains three times a day has cured very Obsolete  
Chordas. I think Henbane is peculiarly adapted to Cases of  
Obtinate Colic in which Opium is not always admissible.  
The Hyocyanus Pigen is not a native of this Country, but has been  
brought here from Britain, I have seen it growing like a  
native plant near the White House Jefferson County Virg<sup>a</sup>  
and is called by the Country people thereabout Devils Cabbage,

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# Satura Stramonium.

The Stem of the root of this plant is said to be poisonous. The Stramonium is an universal Stimulant, producing Delirium Coma, Vertigo &c. Dr. Cooper has written an excellent Dissertation upon this Subject and made a number of Experiments on it to determine its effects upon the pulse. One grain of the powdered leaves raised his pulse from Twenty two to Eighty four in a <sup>Minute</sup> second. To a man aged 40 he gave  $\frac{ss}$  grains of the leaves reduced to fine powder, his pulse beating Twenty its Natural Standard In

Minutes	3	6	10	15	20	25	30	35	45	65	70	80	90	95	105
Beats	20	24	28	31	35	41	43	75	79	80	87	100	99	102	100

New & more grains were given

This is a very Active medicine and was used by Dr. Stank in Mania and Epilepsy. he used the expressed Juice made into an expressed Juice Extract, he began with small doses and gradually increased them to very large Doses. Dr. Fugony used it in Mania. he procured two different parts of the extract, one from Dr. Stank at Vienna the other from Dr. Ludwig at Lipsick who was certainly interested in procuring the best, that the Efficacy of the medicine might thereby be improved, he found the last must stronger than the first, he says he never cured but one case with it. Dr. Pulten thinks it not perfectly adapted to mania and Epilepsy, he doubts not but there are cases to which it is suited but we are not acquainted with the precise cases in which it is so. Dr. Auser says he has used the Stramonium in Epilepsy in several cases with success

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Spind in Herb Saps Outber, in those who had regular returns  
of the fits and found it most beneficial when given just before  
the fit for a day or so. In this medicine he combined the use of  
Low Diet and Cool regimen. Those persons who have it irregular  
or at long time of Intervals must take the Stramonium constantly  
or they will miss the time they ought to employ it.

The Seed is the most powerful part of this plant, and should  
be gashed before used. One Scruple of the Seed may be powdered  
and mixed with ten grains of flour and some water into a mass  
these may be divided into ten pills One of which may be given three  
times a day. I have used this in a Case of Epilepsy combined or  
attended with fatuity without Sleep he took a grain twice a  
day at first. He had a patient of Mania by in first pursuing  
the top of ten Ounces of Blood, he began to take the medicine on  
the first of July, he took One pill three a day untill August  
24<sup>th</sup> and then discharged.

Mary Hill a patient belonging to the Pennsylvania Hospital  
had been afflicted with Mania for a considerable length of time  
had used many medicines with little effect. I began on the 15<sup>th</sup>  
of July to give her a grain of the Extract of Stramonium, on the  
26<sup>th</sup> increased to two grains, and ever since One every night. On the  
first of August she took Eight grains every night, on the fifth  
day of August she took 14 grains at night when the same dose  
was ordered to be given without encreasing it. On the 23<sup>rd</sup> she  
was ordered to take grains 18 and on the third of September  
she took a Scruple at a dose had blisters Applied to the head.

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Scotch to 10<sup>th</sup> Same dose, October 11<sup>th</sup>. She took half a dram on  
the 25<sup>th</sup> it was encreas'd to 35 grains which was continued until  
November 25<sup>th</sup> when she was discharged cured, I gave this  
Medicine in a boy at 14 with very great advantage in the  
Hospital, Betsy M<sup>rs</sup> Conroy aged 14 afflicted with Epilepsy.  
Bled her Cop and gave her of the Extract of Stramonium One  
grain at night on the 15<sup>th</sup> July, 20<sup>th</sup>. She took two grains three  
times a day, August 6<sup>th</sup>. She took three grains three times a day,  
and on the seventeenth she was discharged cured, this case  
occurred from fright and was attended with fatuity.  
In Moony a Maniac to whom I gave it It produce dilatation of  
the pupils of the Eyes, and paralysis of the palpebrae which  
was removed by suspending the Medicine for a few days, and  
Applying a blister to the back of the Neck, after which it  
was resum'd without the effects being produc'd. In  
Epilepsy with plethoric Habit and a determination of blood  
to the Head, it is improper and appears to have a detensive  
Action on the Brain. D<sup>r</sup>. Cooper mentions the case of a man  
being cured by it, this man afterwards became by patient, I gave  
it with manifest advantage. In this case I thought the  
Medicine was not applicable, as he was of a plethoric Habit, yet  
he was cur'd by it, so that we must make our Observations before  
practical facts. Bergius used it in Melancholia he gave it  
in doses of from One to 5 grains three a day until the pupil  
became dilated, then kept it Stationary by which he cur'd several.  
I can with pleasure refer you to D<sup>r</sup>. Cooper's Thesis -

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## *Cornium maculatum*

of Linnæus commonly known by the name of Cuinta or Hemlock the  
Seeds are Stupid and Stem Spotted. It is not a native of this Country,  
but has become very common in Jersey. I wish you to lay aside its  
common name not being proper as there are two plants known by this  
name, of different Virtues. Dr. Cullen classifies it in Sedantia and  
Dr. Brown in his class on irritantia, it certainly is a powerful Stimulant  
than any of those already mentioned and less so than Belladonna, in  
large doses it produces Anxiety, Cardialgia, Vomiting, Loss of Appetite,  
Tutigo, Aphonia, Delirium, Madness, Convulsions, Blindness,  
frequently a Salivation and a copious flow of Urine, Dissections of  
of Animals killed by it show Inflammation of the Stomach, Brain  
and intestines. Dr. Houder Cuncta Cuncta with the extract of the leaves.  
Bergius observes that it is useful in Cases of Genuine Cancer, but  
that it generally Cuncta Scrophulous Cancer and Old Venereal Sores.  
Adamsen in his Essay on Mordant poisons says it is an important medi-  
cine, it has been used in the form of a bath by Dr. Stoth half a pound  
of the Seeds with ten Ounces of the leaves, boiled with Eight gallons of  
Water in a Copper Kettle for one hour then poured out into a wooden  
trough, in which the patient is to get and be covered up only  
leaving his head out. In this manner he says Scrotal Cancer were  
Cuncta, when the Cancer was situated in parts that the bath  
could not act upon, for instance in the rectum, part of it was  
injected up by means of a Syringe, the same was done when  
it was situated in the Vagina, Bladder or Uterus. The  
*Cornium maculatum* has lost the high Character it once



Poppice for the Gum of Canum for it was formerly believed to be a Specific for it, but still retains a considerable share of credit, and I believe it is generally used in Canum by every Physician of the present age. Schiurus Contracted uterum Some have used the different preparations of Mercury, Opium did not seem in every Shape, Injections of the fresh made extract of the Conium into the uterum was of essential Service in one Case when it had been employed for twenty five days all the pain was suspended during the whole of this time, and the patient remained comfortable, but died at last for want of Medical Assistance arising to the Yellow Fever having made its Appearance all the Physicians were so hurried in attending patients that they had not time to attend to him.

Scrophulae while I was one of the attending Physicians of the Philadelphia Dispensary, I found a Case of Scrophulae with it. The patient began with taking a grain at a dose and increased so as to take from forty to sixty five grains a day; Dr. Home says it is peculiarly adapted to Old Ulcers on the legs, and particularly those situated near the Ankles joints, attended with an enlargement of that Joint A decoction is made of the fresh or dried leaves into which the part affected is put in Contraint the Swelling and Cures the Sores. Dr. Cullen has used it in Cases of Gemini Sypro and found its good effects very manifest, he used it both externally or internally in consequence of which desquamation took place and The patient left a print on one of his feet in his bed when he arose in the morning, if the medicine was left of for a few days the desquamation ceased



And returned again upon the exhibition of the Medicine. Suttie  
mentions a whole family being cured by its of Syphilitic Eruptions.  
It has cured Old Ulcers in the Throat after Corrosive Sublimates has  
failed, but perhaps it would not have cured it, had not the  
Sublimate been first used as Opium in Syphilis. It has been  
used in Elephantiasis also in Syphilis. The late John Hunter, says  
he cured several Cases by it. Bell found it useful in Obstinate  
Ulcers, from Buboer and has healed them, up by its effect. After  
Mummy has failed, Mummy leaves made into a poultice and  
Applied to the part and the expressed Juice given internally.  
Puffin's Pulmolitis D<sup>r</sup> Poison used Vitriol's Ashes and bicuta.  
put into a tea cup and inhale it, as it evaporates all together,  
it produces a sensation of coolness in the Lungs, removes the local  
inflammation and Heals the Ulcers.

He also sometimes found a Tincture by macerating from ten to  
thirty grains of the dried leaves of the Corium maculatum,  
in half an ounce of Ether for several days and given ~~several~~  
~~days~~ internally in the same dose as the Ether alone can be  
used he succeeded best in the Plooid and Scrophulous Puffin's  
Pertussis or Hooping Cough has been treated with the Corium  
by D<sup>r</sup> W<sup>m</sup> Batten he used it in twenty Cases, but gave it in a  
Watery Mixture. In Children he gave it in half a grain that  
even but one year old and gave a grain more for every year  
above that until he came to ten years grains which is the  
dose for an adult. D<sup>r</sup> Cullen mentions the Case of a Woman  
who had a tumour on herself, to taking until she took a  
dram at a dose, her pain being out she sent to to an



Apothecary for some Justs, but having been advised by some  
person that whenever she got a fresh quantity to be Coupled  
how she took it and begin with a less dose than she was  
accustomed to take, she took only twenty grains which produced  
such salutary effects as had well might proved fatal to her.

### Atropa Belladonna <sup>one</sup>

of Linnaeus or ~~xxx~~ Deadly Nightshade is placed by Botanists in  
the Order Solanaceae, the Berries resemble some kinds of Cherries, and the  
taste of them is sweet. The root is the most powerful part of the plant,  
when taken in large doses its effects are a dryness of the Mouth,  
Hoar and faint difficulty of deglutition and articulation. Increase  
discharge of Urine, pulse full and strong, Aetiology of Dropsy, dilation of the  
pupil, Hoar Countenance, in Children a swelling of the face and  
members of the body, Uncommon Lopsidedness, Staring Eyes, utterance  
Silence and seeming thoughtfulness, Sharp and copious Sweat after  
having taken this Medicine for some time these effects diminish.  
This stands higher in the Scale of vegetable Stimuli, than any  
thing we have yet considered, and produces Purgem when taken  
in large Doses. Boerhaave says it diminishes the Sensibility of the  
Stomach so much that fourteen grains of Tartar Emetic will not  
Act. This is the most powerful narcotic substance known. When  
too much has been taken into the Stomach we must use White  
Nitric and Spuacantia to discharge it, externally the Atropa  
Belladonna has been used in Scirrhus and Cancer Cancer of the  
Breast by the Spanish Physicians. Dr. Cullen used it in a Case  
of Cancer of the breast and Schirrhosity of the Lip and Cured

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A Sore of that nature on the Lape Eye Lid by Dr. Bush used  
in Putusis after it had continued for 8 days, it has never been  
used in the United States

## Lauo Cerasus

This is the Prunus Lauo Cerasus of the celebrated Linnæus, and  
must not be confounded with the Kalmia Latifolia or Angustifolia  
which are very different plants. Dr. Cullen classifies the Lauo Cerasus  
amongst his class of Sedatives. Dr. Darwin places it in his class of  
Inutants. I can speak but little of this plant from my own  
experience, but have not the least doubt of its being a Stimulant.

If taken in too large quantities it has produced Tetanus, which is  
I believe in ninety nine cases out of one hundred produced by  
Stimulants. It is true no inflammation is found on Dissection of the  
bodies of persons who have died of Tetanus, but of late several Authors  
have affirmed that the Lungs are inflamed.

The Lauo Cerasus has till lately been employed in medicine.  
Dr. Brown Langrish says it is employed in his neighbourhood.  
Dr. Darwin mentions a Case in which it was used in the cure  
of the grain with advantage, Dr. Cullen says its effects on the  
Nerves are different from that of Opium and other Narcotics which  
in their first Operation induce Sleep commonly, and which says he.  
I do not find to have been ever employed observed as the effect of the  
Lauo Cerasus, but Dr. Cullen is certainly mistaken for Opium  
does not always induce Sleep on the contrary in very inflammatory  
Cases it generally induces Wakefulness, or delirium.



## *Prunus Virginiana*

or Wild Cherry tree is arranged by Linnæus in the first Order of the twelfth Class of his Sexual System the Class and Order *Fernandica, Mangynia*, it appears to be somewhat allied to the *Lauræ Cerasus* and appears to possess some Astringency, it increases the force frequency and fulness of the pulse, and has been recommended in intermittent fevers. Symplic Nutrition and the *Hæmorrhæa* that attends *Pléthoris* and arising from any other Causes *Chronic Dysentery* and *Diarrhæa* &c. See *L. C. Morris's Thesis* printed in 1802.

## *Kalmia Latifolia* and *Angustifolia*

These are undoubtedly Stimulants of considerable power, for a particular description of these plants, as well as for a variety of well devised experiments on them I refer you to the *Inaugural Thesis* of *D<sup>r</sup> George G. Thomas* of Virginia printed in this University in May 1802 who also treats of their Use in diseases, it is merely sufficient to state that he found the following effects on the pulse after taking Eighteen grains of the *Kalmia Latifolia* his pulse was beating Seventy nine Strokes in a Minute

Minutes	5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	110	120
beats	82	81	81	83	83	84	85	86	86	89	91	88	82	79	78	78	79	79

The following was made by the *D<sup>r</sup>* with the *Angustifolia* to a healthy man aged 33 affeting with a trembling in his hands from the excessive Use of Ardent Spirits, One hour after eating a light Dinner he gave him 12 grains of the leaves



His pulse beating Seventy Eight Strokes in a Minute in five Minutes

Minutes	5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	110
Beats	84	89	93	96	97	96	95	92	89	88	85	83	80	78	78	78	78

## Camphor

D<sup>r</sup>. Cullen places it in his Class of Sedatives, but I have no doubt, of its being a Considerable Stimulant, it is true that its Stimulating effects are not so decided as some other Medicines, for Instance the *Datura Stramonium*, it is the produce of several Shrubs and trees, but that which is employed in Medicine is procured from the *Laurus Camphora*, but it is also procured from the *Laurus Sassafras* and *Benzoin*, and *Storax*, the Oil of *Sassafras* appears to be nearly mixed to Camphor. The *Laurus Camphorata* grows in Japan, and the Cape of Good Hope it is frequently found in a concrete form in the Trunks of the Wood. Water Chemically dissolves a small quantity, it Oils yields by distillation. It has a bitter and taste in the common State, but not in its native State. D<sup>r</sup>. Crawford says ten grains of Camphor in the native State when added to an Ounce of Peruvian Bark, improves it very much so that it will thereby cure intermittents, that it would not otherwise have done. Camphor will swim on the Surface of Water.

Bergius found it evaporated least in a dry Open Air. It is allowed by all that but a small quantity is soluble in an aqueous Menstruum, but it is soluble in its own weight of Alcohol

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If water is added to the Spirituous Solution, it immediately precipitates  
the Camphor. It is Soluble in the Muriatic and Sulphuric Acids,  
in the last of which of which it is of a red colour. Nitric Acid dissolves  
it forming a yellow Liquid. By Distilling Nitric Acid several  
times with this Substance it is decomposed the Oxygen of the  
Acid unites with the Camphor, which becomes converted into an Acid.  
This unites with different Substances forming Camphorates which  
are not entitled to our Notice as Physicians. Dr. Boerhaave found that  
Camphor was readily miscible with Water, by adding a small  
quantity of powdered Gum Myrror to it before pouring on the  
Water, it is necessary to filter it afterwards. There is a preparation  
much used in this City known to us by the name of mixture  
Camphorata I make it in the following manner. ℞ Camphor  
ʒiii Gum Myrror ʒss Gum Arabic ʒiii. ℥vi ʒss Aqua Font.  
38. This will soften the System when Camphor given by itself  
will not and patients take it better.

Camphor differs materially from every other Substance we are  
acquainted with, it has lately been obtained in large quantities  
from the pinky Ash. I come now to treat of its effects upon  
Animals and 1<sup>st</sup> On Insects. Pismires upon whom it exerted  
considerable effects making them very lively for a few minutes,  
but afterwards killed them. The same thing happened when  
Camphor was put in a glass with Wasps, like Scorpions &c  
all of whom died, it did not destroy Moths. Lice are  
destroyed more readily by it in Summer and when the North  
Wind blows under which Circumstances it produced considerable

*[Faint handwritten text visible on the right edge of the page, including fragments like "to", "co", "w", "N", "J", "Al", "im", "a", "p", "w", "ban", "ban", "Sim", "In", "w"]*

Effects also upon Men, Professor Cuminati says it affects  
Frogs with distention and death, on Birds and quadrupeds,  
Cuminati and Menghini say its effects are not uniform,  
Some immediately after they took it had Anxiety, jerking, Convulsions,  
Vomiting, they were frequently purged and Salivated and sometimes  
Sillia, In some it produced Death more readily than in others and  
its effects were more violent in Birds than in Quadrupeds, Dogs  
by taking Ninety grains of it, were unduly furious on food as  
complete Hydrophobia, but subsided after some time, Six drams  
always occasioned Death, occasioning first a Constipation of the  
Stomach, Hydrophobia and Convulsions, the Stomach, Lungs, and  
Brain were inflamed, Cuminati injected a Solution of Camphor  
containing two drams into the rectum of a Rabbit, the effects  
were the same as if taken by the Mouth, the greater part of them  
that he served in this manner died with Convulsions.

I have found a Solution containing Camphor good in destroying  
Ascariides, the heat of the bodies of Animals, who are under the  
influence of Camphor is increased this I think proves it to be  
a Stimulant, yet Dr. Cullen says it is a Solative, it induces  
frequently Stupor and Sleep, the Active powers appear to reside  
in the vapours or Solatile parts, this is proved by the substance  
being found after the substance has produced its effects, and it  
cannot be absorbed because it is Solid, yet I believe part of it is  
sometimes absorbed, the Odour is sometimes perceived in the Urine,  
In One Case I was convinced that it was absorbed, for it was discovered  
in the Stool, although Purgatives were frequently employed to



Keep the Patients, Persons ignorant of the patients having taken  
Camphor plainly perceived the Odour thereof both in the Naphins  
and Body of the person. Momm found the Smell and taste of it  
in the Stomach of a Frog although he had Applied it to the  
Foot of the Animal. Similar Experiments are made by Philip  
Alexander Wilson. In his Inaugural Dissertation and says it  
was Absorbed when Applied to the external Surface of the Body,  
but when Applied externally it produce an inflammation of  
the part to which it was immediately Applied, Dr. Peveral  
was the first who says it destroyed the irritability. Carminati  
concludes the same from his experiments.

Effects of Camphor on the Human Body, Dr. Whyte says  
A man Swallowed half a dram of it, which produced a sense  
of fulness in his head, Surgeon of the blood vessel of his face.  
Dr. Guffin found two Scruples produced Dumbness, redness the  
pulse and diminished the heat on a degree. In Dr. Alexander it  
produced Tremulous Alacrima, vertigo. Yet at first his pulse was  
diminished and afterwards it rose very high, perhaps he attended  
only to its second and third effects. Collinson gave from ten to thirty  
grains every three hours in Bilious fever, he says it diminished  
the heat of the Body produced a fuller and slower pulse which  
went in half an hour. The Physicians of the seventeenth Century  
believed Camphor to be of a cooling nature, but they were  
certainly mistaken in their notion of the effects of this medicine.  
Dr. Quain says large Doses produced a flushed face and general

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Suppression of the Continuum, frequently Delirium and Sometimes  
Mania after Death which had been induced by Camphor taken  
in large quantity it appeared that the Apels of the Brain  
were distended and inflamed. Dr. Alexander Moore says Camphor  
increases the force and frequency of the pulse and causes flushed  
face. Spad (says this Audacious Physician) a patient who took  
too large ~~was~~ a quantity of it in his tea, it produced Delirium,  
red face, Inflamed Eyes and great restlessness. Dr. John Moore  
Experiments late of the Almshouse but now a practising  
Physician in the Neighborhood of this City prove it to be  
a Stimulant and a Narcotic.

Dr. Whytt says some suppose this Medicine to be of a cooling nature  
but he is fully persuaded that exactly the reverse is true, it always  
produces a Sensation of Warmth when he takes a Dose of it, Some  
think it a hot Medicine, Others a refrigerating One, Camphor  
has its effects upon the whole System, The Eyes, Skin, face, Articular  
System, shew it to be of a heating nature, I do not think it so  
heating as some other Medicines are not as much so as some  
persons suppose, yet I consider it to be considerably so, I have  
published a paper in the 4<sup>th</sup> Volume of the Transactions of  
the American Philosophical Society on the effects of Camphor  
upon Vegetables.

I come now to treat of the use of Camphor in diseases and first  
of its use in fevers.

In Fevers, Camphor was used for a long time indiscriminately



In all kinds of Fevers but since the time that Physicians have  
entertained a more correct Idea respecting the Mucus Operandi it  
has been only used in those attended with great morbid Action or  
with debility and it has been especially used in Typhus Mütter  
attended with delirium, Subsultus Tendinum, Coma &c. in which  
it has been found remarkably useful, the Experiments of Sir  
John Pringle, shew it to possess considerable Antiseptic powers  
out of the Body, which has led some to use it in what they  
call low putrid fevers, Pringle says he found Camphor useful  
in the Sill and Hospital fever, and that it acts in curing  
these patients by virtue of its Antiseptic power but here his practice  
and theory run counter to one another for he expressly says that  
it must not be used in the first Stage of these diseases, and that  
purgings and Antiphlogistic remedies must precede it, he limits  
its use to the second and third Stages in which it has been found  
of great advantage, now he just ridicules the inflammatory action,  
and afterwards gives the Camphor which acts as a Stimulant,  
and if it only acts as he supposes it to do, why precede the use  
of it by these depleting remedies surely if the disease was a putrid  
one from the commencement the sooner Antiseptics are used the  
more Speedy and certain will be the Cure.

Hersham when treating of the putrid Petenar and Sill Fevers,  
says Camphor is a valuable Medicine, composing the patients  
and inducing easy Sleep as well as giving them Strength and tone,  
and that if given with Opium it proves Sudorific, there is a



Prescription in which Camphor enters as an ingredient that  
has been found highly useful in low Typhus fever and what some  
Authors call putrid Fevers, the following is the combination.  
Peruvian Bark, Contrayva, Virginian Snake root. (Serp. Virgin.)  
and Camphor.

Gangrenes. Dr. Collin prescribed the Camphor in the Dry  
Gangrene with great advantage as he says he gave it internally  
and used it to the part. Also as an external Application he rubbed  
it down with Gum Arabic, and then added Water thereby forming  
a Solution of Camphor in Water which he kept constantly applied  
to the putrid part. There is another way of rubbing down  
Camphor that is by adding one single drop of Alcohol to one  
Scruple of Camphor, it can be very easily made very fine,  
Nitro will also produce the same effect, but as its action is different  
from that of Camphor, it is disagreeable to employ it when made  
fine in this manner in diseases attended with great debility.

Small pox. A Physician of the name of Rosenstein asserts that  
Camphor & its ~~oil~~ ~~essence~~ has a peculiar power in preventing  
a ~~particular~~ ~~poor~~ the small pox, by practicing after this he says  
he has frequently prevented its affecting any part he wished to.  
He combined Camphor with Pomatum with which he covered  
the face neck and eyes and mouth, with the anterior part of  
his Traces, thereby preventing the eruption of the pustules on  
these parts, if he added the pomatum alone without the  
Camphor no such effect was produced but the pox came out

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On the part as it is wanted, do in all cases substitute by Camphor.  
This is found to be the case is a very important fact but it stands  
alone no person having repeated the experiments.

D<sup>r</sup> Haller used Camphor in the Malignant Smallpox with  
advantage. Sydenham used it also and says he found it useful.  
Camphor has been used in General and local inflammation diseases  
attended with and without emesis or inflammatory action.

Several Physicians have used it in general inflammatory diseases.

Hopman says he used it in inflammatory cases with Sumps.

Wrambott also used it in diseases attended with inflammation  
but he we must remark that they used it in conjunction with  
powerful Antiphlogistic remedies as he bled very largely, purged

gave diluent Acids and Saline Medicines in considerable quantity

and only gave the Camphor in the intermissions of the Fever or as

soon as it became very mild, and here we must remember that it

is the practice of many very judicious practitioners to give bark

in inflammatory diseases as soon as an intermission takes place.

Wrambott also generally combined the Camphor with Nitre.

Potter says he gave Camphor in puerperal fever with Sumps,

but I believe that puerperal fever is always an inflammatory

disease (says Batton) and to give copious and frequent

bleeding. I never lost a patient in this disease that I bled very

largely & thus I frequently lost patients where I adhered to the

old plan of treatment, by giving Bark, Wine and Opium, although

I paid the greatest possible attention to my patients and they



Situation in life so as to have every thing I order'd actually performed. And we find that the disposition of Patients who have died with this disease, uniformly shew great inflammation to have existed in the abdomen and uterus. I do not believe that Camphor has ever done good here and I think it has often done a great deal of harm.

Rheumatism, of this kind are two kinds the acute and a chronic in the first it has never done good except when it was just beginning towards the chronic kind. Dr. Cullen thinks it is useful under these circumstances and also in Gout sometimes a case of the use of Oil of Camphor causing a translation of the Gout from one foot to another and then to the knee, which shews us how extremely cautious we ought to be in using any Application that could produce a translation of disease especially when situated in a part not vital as in the extremities. These Applications are certainly ingenious in Inflammatory Rheumatism, Soluble Camphorated Liniments are very pernicious in acute Rheumatism, I was call'd to see a Negro Man who had been subject to the Rheumatism in his hip for which his misters used him to rub the part with Opodeldoe, he said so and having a pain in his Shoulder rubb'd that also after which he went to bed and was found to all appearance Dead in a few hours after being sent for I had been all ways to bring him too, but all to no purpose for he died I know of another Case in which the patient expired an hour after washing the



Treat affected with the Liniment. Mr. Carr - In fourth Street  
near Market had a pain in his arm for which he rubb'd his  
arm with Camphorated Liniment which was in a short time  
reliev'd it, but his other arm was then seized with paralysis  
which he then rubb'd also with the Liniment, the paralysis of  
the arm was removed but his tongue became immediately affected  
with it. This Gentleman was my patient.

Plasters and Sinapisms also frequently obtain in Acute Rheuma-  
tism and always in regular Gout in the feet, I had a slight  
touch of the Gout in my foot to increase it I apply'd a Plaster  
but it produc'd great vertigo and Head ache. The same thing  
happ'n'd to my brother upon applying a Sinapism.

Sumbago. A Physician who practis'd Medicine some Years  
ago with great Success in London us'd Camphor in Combin-  
ation with Ather with which he says he cured Sumbago and  
painful affections of the joints of seven Years continuance. I  
have ather to throw the Gout from the Head to the feet in 30  
minutes, but if it is not chronic in the Head I would by all means  
forebear the Use of Ather for fear it should be driv'n to some more  
vital part and thus occasion Death, neither should we apply  
Camphor in this Case for the same reason. This last Medicine  
appears to possess a peculiar power of translating diseases.

Doct'r a German Physician us'd Camphor in Epilepsy  
in combination with Cuprum Ammoniacum, and white  
Petrol, by which means he has cur'd a few patients he says,

*[Faint, illegible handwriting covering the page]*

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Chouda's <sup>5</sup> Vita Camphor has been found of Service here  
Dr. Duman in his Medical Commentaries mentions the Case  
of a Girl cured of this disease by this alone.

Use of Camphor in Mania and Melancholia, In the Twenty fifth  
Volume of the London Philosophical Transactions there are four Cases  
recor'ded of Mania which were cured by Camphor.

Dr. Sinclair, Mr. Lata a Surgeon in Edinburgh also cured a Case of  
Mania by Camphor, the patient began to take the Medicine in moderate  
doses and increased so that the patient took fifty grains three times a  
day. Debergen says he was very successful in Mania he gave the Camphor  
in very large Doses and continued the Use of it for a long time. I have  
given it in several Cases without Success, in the Case I fear I did harm,  
for he died sometime after taking the Camphor.

Several Cases are related by Authors of Nymphomania that were  
cured by Copious Bleeding, Some cured a Mr. Aikin of Melancholia  
combined with Mania by Camphor he took it in very large doses, it  
produced a very Copious Salivation which was kept up for a long  
time except this one Case I never cured a patient by it, Dr. Wilson  
and others have informed me that they have seldom found it of Use,  
we are not perfectly acquainted with the Circumstances which gave  
just grounds for believing that Camphor is suited for this or that  
Case of Mania or Melancholia, but from Theory we should suppose  
it not adapted to those Cases where there is much phlogosa or a  
full habit and that it is best in those of a spare habit and debilitated  
by either previous or present disease in the first kind if given it  
should be founded by Copious and repeated bleedings, upon the whole

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I believe that those Cases in which the Countenance is plain,  
little Strength and Metabolic Mania are best adapted for  
the Use of Camphor.

Gonorrhoea, Camphor has been used in this disease. The external  
Use of it is recommended to the Paris and I attended a Gentleman  
in Consultation Dr. Shipper who had been troubled with an  
Obstinate Gonorrhoea for some time that yielded to nothing the  
Dr. had used. The Gentleman was perfectly cured by an injection  
made of Camphor, in the proportion of half a dram of Camphor,  
One dram of Gum Arabic and Eight Dr. Ounces of Water.

Chancous Ulcers Opium has been frequently used in these and  
often does harm when that is the Case by combining it with Camphor  
they are generally cured, Camphor combined with Opium produces  
beneficial effects, which would not have resulted from the separate  
Use of both. By the combination when given in the low States of pious  
or frequent Substitutes Tenderness, periodic expelling Sleep Etc.  
Lazo says Camphor combined with Bark cures intermittents  
sooner than Bark alone and that half the quantity of Bark  
will be necessary. I have used this combination in Cases of intermittents  
fever, and think that one Ounce of Bark combined with two  
Scruples of Camphor will cure an intermittent sooner than two  
Ounces of Bark by itself, Camphor is said to render Mercury milder  
when combined with it, Dr. Cullen says that if Camphor be  
combined with Calomel it diminishes its purgative Force, Meusnier  
Lazone says it gives new Strength to Mercury, he gives it in

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Obstructions of the Glands of the Uterus &c

Cole's says a mixture of Camphor and Mercurial Ointment has cured patients of Syphilitic Eruptions which the Mercury had failed to do of itself, his preparations were a Suple of Camphor to an Ounce of the Ointment, This Combination of Camphor and Mercurial Ointment Salivates as soon as the Ointment would if no Camphor was mixed according to the Observations of the celebrated Dr. Cullen.

I have frequently used it in the Philadelphia Dispensary when I was an attending Physician for that very useful institution, and always found the Camphor greatly to improve the Mercurial Ointment, but I am firmly of opinion that it does not alter its Salivating effects.

Dr. Horn found this Ointment to cure the Uterus which the mercurial Ointment failed to cure by itself, I heard a Gentleman of a Cancer of the Scrotum by it after every thing else failed.

Dr. Cuthbert of the United States Frigate says he has cured a Cancer of the Scrotum by it after having tried the Mercurial Ointment and Salivating the patient without effect, Dr. Greenwood used Camphor in Strangury induced by Caustics, Dr. Heberden relates a case of Strangury induced by Camphor, but I do not think that Heberden's were true cases of Strangury, Dr. Cullen says he has used it more than fifty times and never found it to produce Strangury, but even allowing that it has produced Strangury, yet this does not invalidate the Use of it in Strangury, how frequently do we cure a disease induced by the excessive Use of a Medicine by giving small doses of the same, I have cured Strangury excited by Blister by applying Ammoniac Blister, Husband calls Camphor Mercury Mentum of

Dr. Barton mentioned having prevented Strangury in a  
Lady who had always suffered very much on that account  
when situated; by giving a large quantity of the infusion  
of No. 100, made by putting two Drams into half  
a Pint of Water.

Cartharides. Some Physicians formerly anointed Blister with Oil of  
Camphor but now does at this day seems to arise in preventing  
Strangury. The best way is to give plentifully of mucilaginous and diluent  
drinks. Mr. Adams cured a Case of Strangury by using Liniments made  
with the Oil of Camphor and Olive Oil after the Catheter had been  
introduced fifty Seven times. I never saw any on this Method of  
preventing Strangury now.

Now to treat of the dose and preparations of Camphor  
It is common to begin with one or two grains three times a day which  
has been increased to Sixty grains at a dose, and this repeated  
three and four times a day in pills or in Bolus. It sits best on  
the Stomach when given in pills dissolved or suspended in a fluid  
as in the Mixture Camphorata already treated of or when mixed  
with a thick Mucilage of Gum Arabic which is the form used  
by Dr. Baker of this City. Dr. Huxham used Camphor mixed with  
Nigella being first triturated into the form of an Emulsion with Oil  
of Almonds or the Oil of Sweetgum, in this way he Succeeded in curing  
Dysenteries and Dysuria. Another Way of giving it is  
recommended by some viz Camphor fifteen grains Oil of Clove  
3 Drops rubbed together with a little Gum Tragacanth Six grains  
Six for one dose. This was repeated three, four and five times as  
the patient would bear it given also combined with Opium as  
already mentioned which improves it very much. At present I  
shall say nothing of the Antispasmodic Virtues of Camphor, which  
I shall treat of Elsewhere.



# Moschus

Musk is obtained from an Animal called *Moschus moschiferus* by Linnæus, it Inhabits Siber, Sorkin, Siber, China, Keeping generally in herds <sup>on</sup> the Tops of the highest Mountains, from whence they occasionally but seldom descend into the valleys. The Musk is obtained from the Males only and grows in a bag which is found or rather projected from the middle of the Abdomen of the Male, as soon as the Animal is killed this Bag is cut off and tied up in which Situation it dries. In this bag several foreign matters are contained, Musk is a hard reddish brown, and viscid substance with a bitter subacid taste it is of a very adhesive nature in consequence of which it is often adulterated, Musk is very liable to be bad, and it is seldom that we can procure in a pure, Spicade and unadulterated State, when pure it is the most odorous Substance in nature, and retains its Odour longer than any other Substance with which we are acquainted, it is inflammable, has an Oliginous pulp and strong smell. The Chymical Analysis of Musk is not complete unless it has been decomposed lately, It has resinous and mucilaginous with some Saline parts. The Saline Matter coagulates or rather crystallizes upon the addition of Ammoniac. Dr. Cullen places it amongst his Antispasmodics. I have no hesitation in saying it is a Stimulant, in large doses, it produces weakness of the Stomach and some of heat about the Stomach, Pringle used it in intercurrent Gout, Dr. Cullen also used it under the same circumstances and found it of Service. I have used it frequently in intercurrent



Goit when it affects the Head and Stomach and Thirst is of more  
Service than almost any thing else I am very partial to in these Cases.  
Tetanus. In this disease it has been highly recommended, Dr. Hillary  
used it in Combination with Opium with Success, it directly abates  
the Convulsive Spasms the Medicines should be given in very large  
doses which may be diminished as the Spasms go off, Dr. Disputer  
relates the Case of a Lady bound by Musk after she had taken Seta  
Gums and used the Cold Bath without advantage she began in  
pretty large doses and increased so as to take half a dram every four  
Hours, after she had been using it but a short time, she took the  
first dose immediately before the Spasms came on and they were  
considerably checked by it and after some time she was perfectly  
Cured. Hydrophobia the Chinese make great use of Musk in  
this disease and esteem it as a Specific for the prevention thereof.  
They make use of a prescription as follows, Musk fifteen grains  
Native and factitious Cinnamon of each one Scruple. They give the  
third of this at first to an adult and after a few doses are taken  
they increase it so as to give the whole for a dose.

It procures a Suspension of the Symptoms and refreshing Sleep  
as well as taking off the dread of water. I cannot deny the Efficacy  
of Musk in Hydrophobia. Dr. Hillary used it with Sump but  
we must not let that be used very largely first and then use the  
Cold Bath after which he gave the Musk. It was used in  
Combination with Opium In Cholera Pictonum by Dr.  
Hillary who says he found it of great advantage in this disease.



But we must be certain that the musk is good and Genuine, otherwise we are not to expect the beneficial effects from it. The best criterion to Judge of the Strength of it is by the odour thereof which is very strong in that which is pure, I must say that the dealers in Musk are obliged to cover their noses and mouths while buying or inspecting a pound of it otherwise the odour will act with so much force upon them as to produce Hemorrhage from the nose or Lungs and sometimes Vertigo. The Apothecaries mix Saffron with it frequently by which means they greatly increase their profits and hurt the Character of the Article as a Medicine, for whenever we fail with a Medicine, we are apt to impute it to the Medicine without, taking the pains to investigate and see whether it was in a pure and sound State.

D<sup>r</sup>. Costrongh gave it in Indoes from six to ten grains and D<sup>r</sup>. Cullen says it must be given in doses from ten to thirty grains.

Mania D<sup>r</sup>. Cullen says he has used the Musk with advantage in Mania it has also been used in low Nervous Fevers attended with Subsultus Sarcasmus also in Typhus and in the low State of an Chronic Fevers. M<sup>r</sup>. Pendegrash says that the Crocodile and Alligator of the Mississippi afford good Musk about four Penns each Animal from 4 grains under Shimbelleis

### Castoreum

Is the produce of an Animal, that which comes from Russia is the best; Chemical Analysis shows it to consist of a Resin Gelatin and by dry distillation Oil and Ammoniac, it is odiferous Substance found in a bag situated near the Anus of the Animal from which

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It is obtained. Dr. Cullen says it is antispasmodic and that  
it must be given from One grain to Thirty. It was formerly given  
to promote perspiration and as a cordial, Antispasmodic, and  
Emmenagogue. I can say nothing of the Virtues of Castor, from  
my own Experience having never used it, it is frequently used in  
France One Ounce of it is put into Sixteen ounces of proof Spirit.  
Dose half an ounce two or three times a day.

### Saffron

The Crocus Sativus or Mysus of Linnaeus commonly known by the  
name of Saffron. Saffron is used by our good Women during the  
eruptive Stage of Small pox, Measles and Scarlatina they say it  
helps to drive them out, The Stigmata are the only parts employ-  
ed in Medicine. This is the only Instance we have of the use  
of Stigmata of Vegetables being used in Medicine. The Virtue of  
Saffron is extracted by Water, Wine, Spirits and Keger. Dr. Moore  
says it is an elegant and useful Aromatic, produces Exhalation  
of the Spirits gentle anodyne effects and relieves pain. Dr. Cullen  
entertains a mean Opinion of Saffron, he says it never found in  
useful, it certainly possesses considerable power produces eruptions  
on the Skin and encreases the heat of the Body I have seldom  
used it myself.

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# Gummi Fetida

Asapafetida. The Gummi Asapafetida of Linnæus is found in Asia, but there is a species of it found in this Country the Gummi Canadaensis which grows plentifully in Pennsylvania. The Asapafetida loses much of its odour by keeping it is one of the Gum Resins, but the Gum abounds in the largest quantity. This is the most valuable medicine of the Fetid Gums, frequently proving laxative by which means it greatly relieves persons troubled with flatulents Cholics, it has also been used in Aspasmodia Asthma, it has a determination to the Lungs and acts as an expectorant, for which purpose it is much better than the celebrated Gum Ammoniac. Dr. Donald Monroe combines Asapafetida with Opium, he says the nauetic effects of this last Medicine are thereby prevented. I believe Asapafetida to exert an Anodyne Effect. Dr. White says it causes Sleep. Geoffroy says it is an excellent medicine to prevent the bad effects arising from an Overdose of Opium. In a majority of persons who take Asapafetida it proves laxative. Dr. John Miller says it is the best remedy that Old Women can take for their habitual Costiveness. Troopon Buguis used it in intermittent fevers, he found it very useful in very obstinate Cases, and he thinks Peruvian Bark improved by mixing it with a quantity of Asapafetida, he says he cured one hundred Cases by the following prescription, Asapafetida two Drams, Spiritus Mindereri Socominis Ouncum Pulgii ten Drops, rub the Peruvian Bark and Asapafetida together with a



Little Spiritus Mindereri, then add the remainder, Strain the  
Mindereri, pour it into a vial and cork it tight the dose is from  
a dram to half an ounce. Professor Bequius used Apafetida  
in intermitting fevers, and found it useful in Old Cancers when the  
Pain had failed. Gynaechi Scabralis malignans, the um dries  
are Remedy of Oxy mel of Spirits Ect, then Gum Ammoniac and  
Apafetida it has also been used with Success by Dr. Kuhn of  
Lancaster in Pennsylvania in the Common Gynaechi Scabralis.  
be used also injections of Laudanum in it, Physicians have  
employed it in various forms Some have used it in Substance  
Others in Tincture Some in Mixture Ect, when given in Substance  
it is some time before it has any effect, but when given in Tincture  
its effects are immediately obvious, the Tincture when made with  
Spirit of Wine or Aqua Ammoniac is most powerful, Some use a  
Mucilag Solution made with Sugar and which is certainly a most  
excellent Formula, to this Some add 5 or 6 more drops of the Oil  
of Peppermint to every half Spoon of the mixture, of late Apafetida has  
been highly recommended in Cases of Bones, the persons who have  
wounded it Say it promotes exfoliation of the Carious part  
A Number of Cases are related by them which seems to prove the  
fact, but Some experiments made in the Alms House in  
this City do not confirm its having such a Virtue.



## Gummi Ammoniacum

The Gum Resin. It is a concrete Gummy Resinous Juice, brought from the East Indies usually in large Masses composed of little lumps or tears of a milky colour but soon changing by being exposed to the Air of a yellowish hue, we have no certain Account of the plant which affords this Juice. The Seeds are usually found amongst the Stems and resemble those of the Umbelliferous Class. This Gum exerts its power as an antispasmodic than any of the other Gums it has been recommended as an expectorant but Dr. Cullen says it is not a powerful one. It has also been recommended as a diobstruent and given in several Obstructions and Cases of Amenorrhoea, but It does not appear to exert much power. Galbannum and Sagapenum would next fall under our notice but I consider them of such little Virtue and power I shall not treat of them.

## Alliacea

Is an order of Vegetables, which I am now to speak of they in general possess a strong Odour having a distant affinity to the Substances last treated of. I shall only treat of two Species in this order 1<sup>st</sup> The Allium Sativum

The Allium Sativum of Linnæus or Garlic of the English has a strong Odour in Northern Countries but in Warm Climates less so. Some persons and particularly the Sclavos use it over their bare Shoulders. The external use of Garlic Shows its to possess considerable Activity when first Applied it excites pain and irritation, after

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Locusts excite pain and irritation, after some time a blister  
when blined it is more diffi-  
cile and acts sooner on the System  
it stimulates the Stomach, helps digestion, its Stimulant power  
is very powerful when taken internally and is soon propagated all  
over the System raising the pulse and encreasing its force and  
frequency, it can also be discovered in the perspiration by means of  
its peculiar Odour and also in the Urine it certainly proves certain,  
D<sup>r</sup> Sydenham blind drops with it, D<sup>r</sup> Monro blind several  
drops by means of the exhibition of the Allium sativum as its  
Stimulating effects pervades every part of the Human Body, it can  
only be given in Drops without fever or with it with the Heber  
Type and when the blintation is languid it is a useful expectorant  
it is applied to the Sides of the feet in Synapsims when it creates  
rumps, Pain and inflammation and if left on long enough Resolution  
is induced, given internally Just before the paroxysm of an  
intermittent fever it prevents the accession of the fever, To be in  
Authors recommend us to begin with exhibiting a blow Morning  
and evening and encreasing a blow every day untill the patient  
is cured. Bagius and Aucas used it in Deafness, the Symp  
Semper Vivum is mixed with the Juice of the Garlic and dropped  
into the ear morning and evening it restores the sensibility of  
the Nervous apparatus of the Ear, Common people of Scotland  
use it as an Ointment of food when boiled, I was once quite

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Deaf (says Barton) and was cured by Galien, a Clove was  
wrapped in a fine rag and applied to the ear, it has also been  
used in this manner in very obstinate Ear Aches with Swells.  
It has been used a long time as a Libonrupte. and some say  
with Swells.

### Allium Prunum

Galien used the beads of Lutes and says they are excellent  
Libonruptis the Greeks is almost a Specific they obstruct  
paroxysms and prevent it's return. Professor Olyner relates  
a case cured by it, and since that time has been frequently used  
by the regular Physicians and in the British Hospitals.  
The method of using them consists in taking a handful of the beads  
and boil them in Sixteen Ounces of Water, down to twelve, Strain  
and take from half an ounce to an ounce in the course of four hours.  
I do not believe that Lutes disperse the Stone, perhaps they  
prevent the formation of one when given when no Stone exists  
and if one <sup>exists</sup> prevents the cure of it Dr. Cullen says they operate  
by means of their acrid powers some suppose they exert a  
particular action on the Coats of the Bladder and perhaps  
prevents the formation of Acid the manner of exhibiting this  
Lutes is first the patient begins with taking half a dram  
or a Scruple every morning of the Root and increased ~~as~~ to  
to take several Ounces one, two, or three a day, or the roots  
may be brewed and made into pills, if the patient cannot

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Take it raw by itself or they may be rubbed down to a mixture with the Mucilage of Gum Arabic or an Oxy-mel may be made in the same way that Oxy-mel of Squills are. In this way Mr Boerhaave used it in Dropsies with Success, he mentions the Case of several persons cured with the Allium powder, I may be remark, that the Allium plants ought not to be given in Dropsies attended with increased action, but that when there is great debility they may be given with advantage.

### *Coniferae*

of this order only One Genus will be taken notice of the *Pinus Sylvestris* or Pine tree.

#### *Pinus Sylvestris*

The *Pinus Sylvestris* or common pine tree of this Country which grows plentifully in Jersey and many parts of the United States and affords the Turpentine but the true Turpentine known to us by the name of *Subiassia Veneta* is obtained from the *Pinus Lauz* or *Lauz*. This is an Acid Substance and when applied to the Skin inflames it to a considerable degree, it might by itself perhaps be an useful rubefacient (says Cullen) but when we would prevent its Operation from going too far it is not easy to wash it off the Skin, it gives great pain while producing its rubefacient effects. Several Authors recommend its Application to fresh wounds but I do not think the practice good unless in certain Cases when they do not take the practice goes, on the admission or Suppuration

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Inflammation, when we wish to give the Serpentine internally  
it must be combined with some bland substance to make it  
Sir easy upon the Stomach upon which it exerts most decided  
effects. This an universal Stimulant and generally operates on  
the intestinal Canal, it may be so managed as to prove one  
of our best Laxatives if given as an injection, Half an ounce of the  
Serpentine is to be triturated with the Yolks of two or three eggs  
after which Water may be added as an injection in Cholera and  
very obstinate Costiveness if any Milder does not operate. Serpentine  
Appears to be carried into the Blood vessels Showing itself in the  
Urine and sometimes in the perspiration it is true that has been  
denied by Dr. Boissac a late Graduate in this University who  
attempts to prove that absorption is carried on by the Lungs  
and not by the Skin which enters but his experiments have been  
repeated with a different result by other Gentlemen of accuracy but  
even admitting them I do not think they prove it, Serpentine  
parents Asparagus communicating its odour to the Urine of  
persons who have eaten of it this fact was discovered Dr. Franklin  
who after having eat plentifully of Asparagus accidentally  
saw a Star of Serpentine which he plucked from a board while  
standing by it. he observed when he made Water no odour of the  
Asparagus could be observed in it after which he began to  
Experiment on the Subject and during the remainder of his  
life was in the habit of taking a little Serpentine after eating  
of Asparagus to prevent the odour thereof in the Urine.



It imparts the odour of pitch to the Urine, Part of its power  
of expectoration of the Lungs this has led some to give it in Phthisis  
Pulmonalis a very injurious practice as it is by no means adapted  
to the Phthisis which appears to depend upon excessive inflamma-  
tory Action, that produces Ulcers and afterwards prevents  
their healing. Sarpentine is a diuretic as must be well known  
to every person and has been used in Calculus Complaints but  
is very frequently to be found useful in consequence of its being  
too stimulating a nature which will also render it painful in  
Nephritis Calculosa.

Glut It has been long celebrated in curing this Complaint  
and very Justly I have often used it and very generally succeeded  
with it in curing this disease. Dr. Cullen used it in this Stage of  
disease, he says that he is fully persuaded that the Sarpentine  
or copais much the same Balsam Copaiba operates only in  
curing this disease by inducing some degree of inflammation upon  
the Urinary for says he I have had some instances both of Sarpentine  
and Balsam Copaiba producing a manifest inflammation  
in the Urinary to the degree of occasioning a Suppression of Urine,  
but at the same time when these effects went off, a glut which  
had existed for some time was entirely cured, I have known a  
most obstinate glut cured by a decoction of Pitch Wine, some have  
been in the habit of using the most powerful stimulants, but  
I think they are frequently improper and sometimes do more

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Hum. I have frequently given from fifteen to twenty drops of  
Balsamum Copaiba in any mucilaginous Mixture and  
repeated at three or four times a day. Sometimes I have used  
the Subintha (Says D: Bartr) made up into pills  
and given in as large doses as the Stomach will bear. Theor.  
Albus is by many allied to glut. D: Cullen says he never on  
at least he seldom found the Subintha useful in its  
Crude State. On the contrary of it says the D: has been that  
his Small Stomachs can bear the quantities of the medicine  
that might be supposed. It is now necessary to observe that most  
of the virtues of Turpentine that has been mentioned depends  
upon an Essential Oil. The

### Oleum Subintha

Externally Applied this Oil irritates and excites some degree of  
Inflammation upon the Skin and is therefore a useful rubefacient,  
and has been used with success in intermittent fevers by rubbing  
part of the Body with it an Hour before the paroxysm so as  
thereby to prevent it especially when mixed with Camphor.  
It produces Laxative and sometimes very generally derided in the  
Opinion of D: Home who also says it produces Stomachic  
now and then, a Woman took Sixty five grains by the order of  
a Quack it produced Stomachic, Bloody Urine, excruciating pain  
in the Back and Loins, Delirium and in fifty days death,  
having previously indeed dropsy. Home used it in Sciatica

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Rheumatism Joh, his recipe was as follows, *St. Subinsh* ʒii  
Honey One Ounce twice, a dram to be taken every morning, and  
evening, Out of Seven Rheumatic Patients to whom I gave it,  
five were cured and two reliev'd, it produces a Sense of Heat in the  
Stomach increases Appetite. The Oileum Subinshina has been  
recommended in internal Hemorrhages particularly in the  
intestinal Canal it sometimes induces Costiveness, and must be  
used very cautiously.

### Burgundy Pitch

has been used in Deafness in the same manner as Gambi was  
recommended to be used being first covered with a bit of gauze.  
Suppurative has been ~~used~~ said to be taken into the circulation  
by a retrograde motion of the absorbents but this is not the  
Case

### Pis Siquidia

or Tar is produced by burning the Pine in a particular manner  
which is already well described in Natural History, it is a  
good pectoral medicine in Asthma and Old Coughs, A mixture  
of equal parts of Tar and Mutton Suet or of five parts of Tar to  
two of wax forms an Ointment which some have thought of use  
in Ulcerations. Dr. Cullen mentions one Empirical practice of  
basting a leg of Mutton with Tar the Gravy of which is used  
in cutaneous eruptions Lepa Got. The Unguentum Pice has  
been used in Suppurative Eruptions, Tar Water has been extolled

Tan Water has been used very successfully as an Injection in  
Gonorrhoea by a Practitioner in Philadelphia according  
to Dr. Sydenham and in diseases of the neck of the Bladder

Efficacious in *Phthisis Pulmonalis* and taken to the Amount  
of a pint a day in two three or four doses. Bishop. Buxley recommends  
it very highly for having Curative. The taste is a little Acid it  
contains an Oil and acts as a gentle Laxative it generally also proves  
diuretic. Tar and Tar Water has been used in *Impetiginous Eruptions*  
D<sup>r</sup> Cullen used it in *Impetigo*. *Dyspepsia*.

### Balsamum Copaiba.

The virtues of Balsam Copaiva are very similar to Turpentine,  
See D<sup>r</sup> Fossugill's work on the effects of Stimuli on the diseases  
of the Lungs. It has also been recommended in Ulcers of the  
Kidney and in Nephritis by some while others firmly declare  
that it does much harm, from its Stimulating power it must be  
evident that it is not adapted to diseases attended with  
inflammatory action and of course as Nephritis is attended  
with inflammation it ought not to be used. In *Phthisis Pulmo-*  
*nalis* it is also said to have been used with success but it does  
not appear to be adapted to this disease and if it has even  
done good it must have been in the last Stage when great  
debility was present.

Uterus. It has been used with great advantage, it acts better  
on the Uterus than Turpentine, The dose is from ten to twenty  
drops twice or thrice a day, but it can be given in much larger  
doses, I have given as much as Sixty drops at a dose thrice  
a day in doses of thirty drops it generally proves laxative.



*Gonorrhoea.* The balsam Copaiva is generally used in the West Indies, in Gonorrhoea both taken internally and used in the form of an injection of which the following is a recipe, Calomel four grains, Balsam Copaiva thirty or forty drops, Gum Arabic two drams water eight ounces, mix intimately together the Syringe full to be injected into the Uthra <sup>4 or 10 times</sup> every day, and in Old Gonorrhoea when there is no scalding or Chorde it never fails as a laxative it is very nearly allied to Turpentine. Dr. Cullen says he learned of an Empirical practitioner that it gives relief in Hemorrhoidal affections, I have says he frequently employed it with Simp. 30 or 40 drops with powdered Sugar One or twice a day.

### *Myrra*

*Myrrh;* Gum Resin brought from the East Indies in Globes or drops, of various ~~drops~~ Colours and magnitudes, the natural History of Myrrh is unknown the best Sort is of a brown reddish or reddish yellow Colour somewhat transparent, when taken into the Stomach it proves gently aromatic causing considerable heat thereof and expelling wind and strengthening the Uthra, in frequently occasions a bilious Diaphoresis. The pectoral qualities of Myrrh have been much extolled in Britain it has been a very fashionable remedy. It has been used in Guys Hospital London in the Suppurative Stage of Phtisis, but we do not think it adapted to that State of the disease in this Country, unless

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Guarability exists and then its operation is as an Injunct  
How Acetic fern was treated with myrtle by Dr. Moses Griffith,  
his recipe was as follows from ten to fifty grains of myrtle, Alkaline  
Salt of Wormwood One Scruple. Saw Mantis half a dram mix them  
well together and give the patient as much as the Stomach will  
bear. The Myrtle is by Balsamic and more Acid than most  
of the Balsams, it has been used in clearing Old Ulcers.  
Dr. Cullen says it has been used in Amenorrhoea but he does not  
think much of it, for my part I have not had much experience  
with it but should think it useful. Dr. Sydenham uses  
it in his Scitis Alba which I take to be the same disease with  
the Chloasis of our times. Myrtle is used in powder, Lintus  
and mixture, water extract, the Virtus thereof better than Spirit,  
which is the case with most of the Gum Resins.

### Gum Guaiacum

Gum Guaiacum is procured from the Guaiacum Officinale of Linnaeus the  
Lignum vitae of the English, Gum Guaiacum is improperly called so for  
it is a Gum Resin it has been used in Syphilis. Bell says it is good in  
Venereal blotches on the skin, he gives several cases cured but mentions  
that when cured with Guaiacum they were peculiarly apt to return it  
certainly suspends some of the most desperate symptoms of this disease  
it is best in those cases when Mercury has been used prior to the  
Guaiacum. There is a preparation which was of great much celebration  
in the West Indies for curing the Worst of Syphilitic symptoms,  
Take of Common rum three parts, powdered Gum Guaiacum three



Quercus, this is to be set in the Sun for three days shaking it  
frequently, then strain and put in tight bottles, this dose a table  
Spoonfull every morning fasting, the Juice it is said must be  
Rum, Brandy will not do it is said. This must be continued  
in for a year or longer a Gentleman who had nodes and other  
Tropical affections of his legs was reputedly cured by this medicine.  
Dr. Dorrer treated Gout and Rheumatism with Guaiacum and  
speaks highly of it, he used the Potato Sinter in very large  
doses; he frequently gave three and four Ounces of the Potato Sinter  
a day. Dr. Cullen does not give a favourable Account of this medicine.  
I think Dr. Dorrer has ascribed too much to Guaiacum, Gout is a  
milder disease in warm climates than in northern regions which  
may be one reason why the Dr. was more successful in the West  
Indies with Guaiacum than they are in Europe or even in the United  
States. It has been given in Rheumatism and palsy with success.  
It has been said to cure Epilepsy in the West Indies, but we must  
remember that Epilepsy is epidemic there and now frequently  
cured by removing from a cold to a warm climate than by any  
thing else except a low diet. I have prescribed a blood letting in acute  
Rheumatism and at the same time given in aqueous Solution  
or Menstruum of Gum Guaiacum with benefit. I have  
the following is the formula which I have used and think very  
favourably of. powder of Gum ~~Arabic~~ Guaiacum half an oz. Powder  
Gum Arabic two drams rubbed well together <sup>and</sup> ~~add~~ add half an oz  
of Sugar and nine Oz of Water. The dose is an oz three times a  
day. Dr. Cullen rubbed Guaiacum with Sugar and mucilage



of Gum Arabic I was to give 15 grains of Gummi Serapenti ad op.  
Cholici Pitomum. I have prescribed the aqueous Solution of Gum  
Guaiacum in a case of Cholici Pitomum a patient of the Philad<sup>a</sup>  
Dispensary with success. Dr. Bergius says in his Materia Medica  
~~that~~ of having frequently used it in this disease with advantage.  
Dr. Jothu gill of London also used it in Hoemorrhoids Action to be  
that of an unusual, violent or Stimulant, in a Patient of the  
Alms house of this City who was afflicted with Rheumatism and  
Gout, it produced a copious Salivation that he discharged  
Sixteen OZ of Saliva in twenty four hours.

### Liquid Ambra Syracifera

of Linnæus Commonly Styrap according to Pottius Quercus is obtained  
from a tree growing in the Island of Tobago in the Red Sea. And  
I may add from my own knowledge in Every part of the United  
States of North America from New York to Mexico. The Vulgar  
have given it the name of Sweet Gum to the tree which produces the  
Liquid Ambra. It is a Gum Resin and has been used in a number  
of diseases Some persons have ascribed to it very wonderful Virtues  
in Phthisis Pulmonalis, but I know nothing of them myself neither  
do I believe it to be a proper remedy for Phthisis. Dr. Cullen says  
An Empiric Practise came to his knowledge with it which was  
mixing it with some Ointment Substances in the proportions of  
one part of Styrap to two of Ung<sup>o</sup> Basiliconis & Gum. It has been as  
he says of use with the Serum in paralytic limbs as was a  
particularly in ability of the Limbs following inlets.

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# Daphne Mezereum.

of Juniperus commonly called Mezereum, Mezereon, or Spurge Olive  
(Radic. Cortes) The Mezereon has been extensively used in Lisbon  
for the Cure of Syphilis and given in Decoction. There is a prepara-  
tion called the Lisbon dish drink, which is the one generally used  
There. The Recipe is as follows. R. Sassa-pilla Shru drams,  
Guaiacum One dram, Rad Glycyrrhiza One dram, Tini Antimo-  
nialis Sixty drops, Mezereum Shru oz, Water two pounds. This was  
put for three days on a Sand-bath at 100° of Fahrenheit, then  
Strain and let the patient take as much as his Stomach will  
bear and repeat it as often as he can without exciting any  
disagreeable effect. This is one Way in which it has been made  
and used but I believe the following to be the best formula. Take  
of the Root of Sassa-pilla Shru and Bruised Licorice raspings  
of Guaiacum. Liquorice root brued of each Ounces, Bark of Mezereum  
root Shru drams ditto of water ten pints measure with a gentle  
Beat for Six hours, then boil it down to five pints adding  
towards the end the Bark of Mezereum root and Strain the Liquor.  
This is the formula published by Dr. Donald Monro in the  
Physical and Chirurgical essays of Edinburgh. The following has  
also been used by some and particularly by Dr. Monro. Take  
of Sassa-pilla, Red and white Sanders of each Shru Ounces,  
Mezereum two oz, Gallician 1 oz Water Seven pounds. Digest for  
Several days. I do not think the dish drink ever cured Syphilis  
by itself without a Combination with Mercury, but it certainly



has been of Use in Venereal nodes arising from a thickening of the  
Periosteum of the Bones but It is not so good According to Dr  
Rufus's Observations when the Bone is affected but In pain of the  
Bones from Syphilis after the patient has taken a considerable  
quantity of Mercury it has been of Service. Dr Monro used it and  
Horn also found it useful in removing Scrophulous tumours  
and affections of the Glands. Dr Cullen speaks favourably of it  
in Cutaneous Eruptions. Bell used it in combination with  
Mercury and found it useful in tending frequently to break old  
Ulcers after Mercury alone had failed, it is not uncommon to  
see Sore curran under the Use of Mercury when the Surgeon  
must use Lewis's, or Bank, Sims, Porter and Muzeron's, Kennedy's  
Acetion and old Sores which Mercury although pushed to a  
great degree had failed to cure. Muzeron has been used in Hemorrhoids  
Hemuratis. In the inflammatory Stage it is certainly beneficial  
but after that is gone and a morbid enlargement of the Testis and  
Epididymis with a hardening thereof it may be used with  
advantage. Dr Ferguson used to recommend his patients should  
wear afflicta with a paralysis of the Flaccid to Chew Muzeron  
for considerable length of time and he seldom failed of curing  
them thereby. I come now to treat of the external Use of the Bark  
of the root. The bark of the root contains a very Acrid Matter.  
which Applied to the Skin readily excites a blister, and a

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Considerable discharge of Serum, and as by repeated Applications the  
Can be continued without any erosion of the part it has frequently  
been employed in Scars as a perpetual Issue, with all the effects of  
Submedicis. In Cases of very obstinate Ophthalmias the Bark is dip'd  
in Vinegar and apply'd behind the ear; of great use especially if  
kept on long enough to produce Resolution. it causes very considerable Sensation  
of Itching in the part to which it is apply'd, but I am perswas'd they it  
has been of most Service in Ophthalmias when apply'd on the Arms  
near or upon the deltoid Muscles or on the inside of the legs but  
from my own experience I am unable to determine what it is the  
base or that it is not so. Upon the whole I am led to think very  
favorably of it the Bark has also been apply'd to induce Resolation  
in Epiphora and it is said with some Reason it certainly  
induces a better Matter than Cantharides.

## Siliquosa

They contain a notable animony very much akin to that of the Alliacs,  
and like these seemingly disposed to pass off by the Kidnies, they have  
therefore always been considered as diuretics, the only plants of this kind  
that I have known of are the two Sinapi and the Raphanus Rusticarius.

## Sinapi

Semen, The Seed, black and white it is used internally and externally  
and Internally Dr. Bergius gave a table spoonfull four or five  
times a day in Febrile intermittents but not in others he also gave  
the bruised Seeds in Mordump and indigestion of the Stomach but

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Great Caution is requisite in every Case in which it is Exhibited.  
Baron Van Swieten Says he knew a Case of a person who had a large  
dose exhibited to him while labouring under a fever, it produced  
a number of disagreeable Symptoms which terminated in Convulsions  
and death. The Siliquose plants have all been recommended in Chronic  
Pneumation and Palsy, if there are no inflammatory Symptoms  
present they may be given with a liberal hand. The Seed of the Sinapi  
unbruis'd has been given to the Amount of one or two table spoonfulls  
three times a day it increases of the Secretion by the Kidnies and when  
used unbruis'd does not excite much heat of the Stomach but when  
bruis'd it excites great heat in slight Cases of Palsy and  
Pneumation. I have used it with great advantage and found  
that it generally produced Catarrhs also. Dropsy has been treated  
by the Semen Sinapi and found to be of Service in increase of the  
quantity and heat of the Urine. I would restrict its use to dropsies  
not attended with inflammation especially that coming on  
after intermittent fevers, may not dropsy sometimes depend upon  
a disorder of the Hepatic System, and would not the mustard promise  
much here. I hold it just and true that all durations may be useful  
in dropsy. Scorbuts or Scurvy has been successfully treated  
by the Siliquose. The Operation of mustard Seed ~~has~~ must be  
similar to its Operation in Dropsy, *Viz* Stimulating the  
absorbents and Skin. I come now to treat of its use externally

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Mustard is often used with and without the raphanus rusticus  
in the form of a Sinapism, which is made as follows, take a  
Certain quantity of the flour of mustard according to the strength  
you wish to have the Sinapism mix it up with whear or rye flour  
(the latter the best) and strong vinegar so as to Wet all of it well  
after which it may be applied as you see fit. The Common  
and the Strongest way to make the Sinapism is by taking two  
parts of the flour of mustard One of Rye flour, and strong  
vinegar a sufficient quantity to impregnate it well, Dr. Cullen  
says that mustard which has already been prepared for the  
table is the Strongest, but I do not believe the Dr. saw for it  
loses considerably of its strength after standing ready made for  
several days and therefore surely it cannot be so strong as that  
fresh made, Mustard and horse radish applied to the skin  
cannot bear to the point to which they are applied, Pain  
emerge a redness and after sometimes ~~occurs a~~ Vesication,  
Their operation is alone Stimulant being now powerful so than  
even Cantharides, Horse Radish is stronger than mustard,  
Sinapisms operate sooner than blisters, I have frequently known  
them cause pain in less time than ten minutes after their first  
Application, Their evacuating effect is trifling and my opinion is that  
they are alone Stimulants or Irritants and do almost if not entirely  
act by exciting or creating a new action in a superficial and by

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Dangerous part than has already or primarily affected.  
Convulsions from Suffering. In this Complaint Sinapisms give  
relief almost instantaneously, and are a very invaluable remedy here  
which ought by no means to be dispensed with, Convulsions occurring  
during the Eruptive Stage of the Small Pox are to be treated with  
Sinapisms. I think I never saw any remedy to do greater Service in  
this Stage of Disease, than this of which we are now treating.  
Intermittent fevers. A Sinapism applied to the Neck before the coming  
on of the Cold fit frequently prevents it and not infrequently cures  
the disease. In Strangury produced by the Gout attacking the Bladder  
Blister has been used with great advantage and from Analogy  
of reasoning alone we might suppose Sinapisms useful and facts  
confirm this to be ~~the~~ the case for I have frequently used  
Sinapisms in Strangury in Gout with very great advantage and think  
them preferable to Blister. In singular and retrocedent Gout it sometimes  
produces very dangerous Symptoms, I know a Gentleman of thirty five years  
of age who had singular and retrocedent Gout who applied Sinapisms  
to his feet if possible to bring it there, but they produced Vertigo, it ensued  
Puking &c. which had all night terminated fatally. The practice in  
person Subject to Gout is very nice and difficult, the feet must be well applied  
in Hamell and if no perspiration is induced on them it is liable to be  
singular, Cold is very bad for Gouty patients and generally detains  
it to some vital part, Sinapisms are very good in preventing the too  
Ridiculous Operation of emetics. Mr. George Wilson formerly a pupil of mine  
was apparently dying from the excessive Operation of a large dose



Of Antimoniac Wine I apprehend large quantities to his feet which  
brought him to an a band in a short time.

## Rapum Rusticarium

As the Cochlearia Armorica of Linnæus is the Horse Radish  
of the English; the root is the part which is used both for Culinary and  
Medicinal purposes for which it is cultivated in Gardens in flowers it  
is not so early perfect it is in this country. Horse radish root  
has a great pungent smell and a penetrating acid taste. The medicinal  
effects of this root are to stimulate the Solids and promote the fluids.  
Scarcely it seems to extend its action through out the whole habit and  
affect the minutest glands. It has frequently done service in some  
kinds of Scouries and some other Chronic ~~Scouries~~, Dr Sydenham  
frequently recommends it in Dropsies following the Intermittent fevers.  
In Chronic Rheumatism and palsy it has been infused in Wine  
and given some advantage. Bergius recommends it to be cut down  
in small pieces but not bruised and a table Spoonfull to be swallow-  
ed fasting every morning. he also used it in this manner he says  
with Sump in Arthritis. Dr Morry Physician General to the Army  
of the Emperor of Germany Perpicin Switzerland used a Saturated  
 decoction of the Horse Radish to the quantity of Eight Ounces a day  
with Sump in Dropsies and Scoury. I may here mention that there  
are several proofs that the Siligeros plants are carried into the  
Circulation; Several of them impart an odour and taste to the  
(Flesh) of Animals that feed thereon. They may also be evidently

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Received in the Urine etc. I have an Spas in my Legs and when  
ever I eat of Horse radish I have a violent Urine and extreme  
irritation in the Spas. I may be remark that Horse radish  
is much stronger than mustard exciting more powerful irritant  
effects and therefore requires greater Caution in its Exhibition.  
it is frequently added to Mustard in Sinapisms to make  
action and Stimulus and if of great use in all those diseases  
in which the mustard is useful, the same Cautions and  
Observations being requisite for the successful use of that were  
given with respect to the former Medicine.

### *Faluiana Officinalis*

of Siniacus, Commonly called *Faluiana Sylvestris* or Wild *Faluiana*.  
The root. This plant ought to have been placed amongst the *Satida*  
immediately before the *Asafetida*. It is an irritant but perhaps not  
always the most powerful one, it produces profuse Sweat and vomiting given  
in large doses it occasions anxiety but this effect is prevented by the  
addition of a little Cinnamon. It has been often used in Epilepsy It  
was first brought into esteem by Tabius Columna; who by taking  
the powdered root in the dose of half a Spoonful, was cured of an  
inveterate ~~of~~ Epilepsy after many other Medicines had been  
tried in vain, D. Moserian mentions having cured several  
with it, and Sympson says he cured many boys and as many girls  
of Epilepsy by means of it. he says it generally brought on the  
Menses when Suppressed or Obstructed, Sauvages relates a

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Curious Case of Epilepsy in which the man was ~~was~~ always  
attacked with in during the out of Coition and at no other time.  
he gave him very large doses of the Saluvian by which means he was  
supposedly cured. In 1706 Mousband used the root in Epilepsy  
to the amount of One and two drams at a dose three or four times a  
day by which means he cured two Cases perfectly, but I must not  
neglect to add here that they both discharged great quantities  
of Worms previous to being cured, and during it. Dr. Donaldson more  
says he has not found it of any use. I have used it in three Cases  
two of whom even little affected by it. The third a Son of Mr  
Thomas Seiper of this City was perfectly cured, he was twelve years  
Old and had not been long troubled with it, he took a simple  
tincture a day, and discharged upwards of One hundred round worms.  
Directly after which he was cured, he had been previously satisfied  
by Calomel and had taken several other Medicines without experiencing  
any relief. There is no doubt but that this Case depended upon worms  
and I think a great Majority if not all of those who have been cured  
by Saluvian depend upon Worms. Dr. Haller used the powder  
Saluvian in Hysteria and Epilepsy he also frequently used it  
in Cholera St. Vite all these three diseases I believe frequently  
arise from Worms. Hence a patient of this last disease with  
Stimulata feri and Saluvian combined. Dr. --- cured himself  
of Cholera St. Vite by means of Saluvian. Sharp and Casminati  
used to give from One to two drams at a dose three times a day

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In Hemorrhoids, Bark is also very good in this disease, The  
Salerian two ounces, Peruvian Bark half an ounce, Sol Sal Ammon 3ii  
with Syrup of Lingiber, enough to make a mass, of this from One to  
two drams may be given five or six times a day, This prescription has  
frequently cured Hemorrhoids which I take to depend often upon Gout,  
I have seen nine or ten cases and do not know one but what arises from  
Gout and occurs in a Gouty Family, Salerian has been used for some  
in dimness of Sight, Dr Huxter used it in Gutta Serena in doses of half  
a dram with which he cured a number, he believes it to arise from a morbid  
Affection of the Stomach dose from ʒss - ʒi - ʒii or ʒiii times a day,  
Use of Salerian in Putrid fever, Salerian has been recommended here  
and said to be found useful some say as much so as Snake root,  
It is much used in the Hospital of Vienna in this disease, It is  
accounted then Antiseptic and Antihelmintic, a strong infusion  
killed Lumbicæ and sometimes Sericeæ, I used it in two cases of  
Gripes in the Pennsylvania Hospital but it did no good, in the  
in pro and Cathartic Effects, They took half a dram three times a day  
and increased to two drams without effecting the disease, They were  
both very obstinate Cases, One was complicated with Mania the  
Other with Fatuity almost all these patients then was every thing  
tried upon without making any alteration of the disease, The  
following is a formula which has been highly recommended for  
evacuating the Salerian, Take of the root of Salerian two ʒss, cut piece  
Spirit of Wine Sherry two ʒss digest and strain, then add Aqua  
Ammoniac four ʒss, the Salerian should be suffered to digest



Eight days, Dr. Cullen advises that the Salutar should be  
given in Substance.

## Succinum

Amber is a Solid, bitter, bituminous Substance dug out of the  
Earth, or found upon the Sea Shores; the largest quantities are  
met with along the Shores of Poland, Prussia and Pomerania.  
It is of a white, yellow or brown Colour, sometimes opaque and  
sometimes very clear and transparent, Amber has little taste or  
Smell unless it is rubbed, water does not extract any part thereof  
but artificial Spirits of Wine afford a good Tincture of a bitter and  
Aromatic taste, Chemists are divided concerning the Natural  
History of Amber, some affirming it to be of a Mineral, others of a  
Vegetable, and a third Class, that it is of an Animal Origin.  
I believe that those who believe it to be of a Mineral Origin are right.  
This is the most general and I think correct Opinion, we seldom  
use Amber in Medicine in its crude State as we generally employ  
the Oil thereof, obtained by distillation from Amber, the first  
part that rises over into the receiver is thin, the second thicker, the  
third part is called the Oilum Succinum rectificat  
of a hot pungent taste, an Aromatic flavor and is not Soluble in  
Spirits of Wine, It is given internally in doses of ten or twelve  
drops as an Antispasmodic also in Swellings, Pleurisy and Pyrosis,  
I had a most obstinate Case of this last mentioned Disease, by  
beginning with five and increasing it to thirty drops three  
and four times a day, It has been celebrated for its Action on the

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Muscular System, but I do not know how it has happened to  
acquire the Crises which is that of acting alone on the muscles  
without affecting the arterial System. Dr. Donato Manno, says  
it is a Stimulant, and he rubs it paralytic limbs with advantage.  
I think it is decidedly a Stimulant and that the following experi-  
ments prove the fact at half past seven O'clock P.M. after supping  
My grain Tea, Bread and Butter. Took at 6 O'clock fifty drops  
of the rectified Oil of Amber my pulse beating Seventy two its  
natural Standard and in ten minutes it was 74 in fifteen  
76 in twenty 76 in thirty minutes 78, full and strong. Had at  
this time a pain in my Head and general languor. At fifty it was  
at 80. Languor and pain increased in 60 minutes at 79 not so  
full in 80 minutes 77 in 100<sup>m</sup> 74 - In one hundred and twenty  
minutes my pulse beat seventy. Pain in the Head gone a little.  
Lapitude and listlessness remaining, a few days after the above  
mentioned experiment was made Took (Says Mr. Young) fifty drops  
more of the Oil my pulse being as before at 72. In ten minutes beat 73  
small and soft attended with frequent sighing, in forty five, 73,  
In fifty five minutes it beat 73. In sixty 71 in seventy it beat 70.  
Now took fifty drops in now in 80 it beat 70 skin cooler than usual,  
in 90 minutes it beat 68. Had a revivis and felt a disposition to do  
nothing. In 100 minutes it beat 66, at half past ten a pupil of  
nine took ten drops (Says Doctor) In his pulse beating Seventy four,  
in 5 minutes it beat 84 four increased in 15 minutes 86 in 20 min-  
utes 84 continued heavy and flaccid. He now took thirty

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Drops now Sighing, was much increased in 35 minutes 86 pulse  
much smaller in 40 minutes 80 In 45 Sighing in 60 Skin  
cooler than natural heat and Circulations Set Sir M<sup>r</sup> Jackson  
took 10 drops of Oil of Amber, his pulse beating 74 its beating  
Standard In 5 it beat 74 in 10 minutes 73 in 15 minutes 73  
in 20 minutes 72 in 25 min<sup>s</sup> 71 - In 50-72 It continued to  
rise from this until it arrived at its Original Standard but did  
not exceed it during the operation, the pulse appeared a little fuller  
than natural but was not increased in force and frequency, I think  
this remedy (Oil of Amber) ought to be placed near to Camphor which  
appears to be the most proper place for it, having now finished  
the Consideration of some Stimulants or those Medicines which operate  
only or principally by virtue of their Stimulant power, I now  
come to Consider another Class of Stimulants which are the  
Evacuating Stimulants or in other words a Class of Medicines that  
Stimulate but whose principal Operation is to produce a discharge  
of some kind of their Stimulating power and in following this  
order or Class of Stimulants it is best to begin with the Superior parts  
of the body and descend gradually to the inferior parts, I must  
now consider Emetics

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## Erpina

Erpines. These are Medicines that procure a discharge from the  
Nose, Sometimes of a mucus Sometimes of a thinner fluid but which  
in both Cases we suppose to proceed from the Schneiderian membrane  
mucous folicles of upon the internal surface of the nose and Cavities  
adjoining it, it is Sometimes attended with Sneezing at other  
times without, it occasionally proceeds not farther than to  
occasion an increased Circulation of the blood in the vessels of  
the nose, it often goes farther and produces and afflux of fluids  
from the neighbouring parts whereby it empties the neighbouring  
Vessels, for which reason they do good in Catarrhi and  
Odontalgia. They have also cured Obstinat Head Aches and  
Sometimes ophthalmia. Dr. Sullen says they may be of use in  
Palsy and paralysis, all writers agree that Erpines act  
Specifically but I believe (says Barton) that many of them act  
Specifically for when taken into the Stomach they produce  
Sneezing. Opium is an Expectorant for when taken into the Stomach  
it produces vomiting, Nausea &c. Poisonous Honey produces  
stimulating effects on those who have taken thereof and excites  
violent Sneezing. This last effect does not occur as soon as it is  
taken into the Stomach but after it has been eaten several  
hours by which time probably it is absorbed and taken into  
the Circulation. Hydropthalmus Internus or the Hydropthalmic  
State of the Eye as Dr. Rush says is has been cured by Stomach-



Saturday, Dr. Ferri speaks of Stems as the first that the patients  
try fully according to the Circumstances after which he used. Erbinus  
putty fully. I have no opinion as to their utility in this disease  
with an do I think that I shall ever use them as they do not  
appear to me to be adapted to the disease, but in those cases  
that have existed in other umdis it would be right to  
make trial of them. Deafness. There are some cases of deafness  
in which Stimulatives might be used for Instance in those  
depending upon Obstruction of the Meatus Auditorius Externus  
and sustained from Wax or from a Cold Swelling them  
or any other similar Cause &c. Some persons complain of unusual  
noises in their ears which they compare to high winds, the noise  
of a tea boiler, drum &c. This is often cured by blisters over the  
Mastoidic group of the Osse Temporum, Cupping, Issues and  
Purgatives, a Flannel should be bound round the head. This is  
indeed almost an indispensable thing to be done. Dr. Ferri  
whose paper upon this Subject I recommend to you all to read  
says that Erbinus may be used, Gutta Serena In this Complaint  
a Stimulatory powder has been highly recommended composed  
of Mucicinal Snuff; ten grains of Turkish Mineral, thirty grains  
of Tobacco a little of this to be suffused the Nose, Asarabacca  
has been used in the treatment of Gutta Serena from my own experi-  
ence I can little of it. In some cases it may be good, Sauvages  
describes an Amaurosis plethorica in which he used phlebotomy



By opening the Frontal Sin and suffering to run until it stopps  
of itself, attended with a good Mercurial Salve, It sometimes cures  
from Syphilis of this I have known three Cases they were all cured  
by mercury. Mr. Staurin in his excellent paper upon this Subject  
describes several Cases also arising from Syphilis that were cured  
by Mercurials and Stimulatives, Mr. Simms says he thinks  
Erbiums an very valuable Stimulative virtues of the Materia  
Medica and have been too much neglected.

### *Peta Polygamis*

The Juice of the root and the Powder thereof was frequently used  
as an Eribine by Galen and from thence it has had a place  
in the Materia Medica but I do not think much of it as it  
appears to possess very little activity and I only mention it here  
that I may not neglect to call your attention to some of the errors of  
the Ancients as well as the now Modern writers, some of whom have  
attributed considerable virtues to it, but without sufficient experi-  
ence. Dr. Cullen says that in all Nutrients which he has made  
of in the form of that when the Juice or powdered root was  
snuffed up the nose it gave no large or durable Evacuation

### *Asarum Europaeum*

Cott's foot or Wild ginger as it is called by the Country people, or  
asarabacca is a very useful Eribine in the dose of a few grains, snuffed  
up the nose and repeated every morning and evening, it produces  
a copious flow of fluids; It is the basis of Pule's Stimulative

"This Plant I am informed has been often used by the  
Female Part of the Creation to produce Abortion; which I  
have every reason to believe that it sometimes does.

And enters into the Composition of all the Cephalic Snuff It proves  
of great Service in Tooth Ache and Ophthalmias, Dr. Cullen says that  
the London College have added too great a proportion of Cephalic  
plants in the powder Murmurations which under the dose of the  
Osarum (the Chief Ingredient for far more bulky than Cocaine  
for a proper exhibition) I find says he that three grains of the  
Osarum is a proper dose and that four grains of the total powder  
makes a Cocaine Snuff."

### Nicotiana

The Nicotiana Tobaccum of Linnæus. This as it is commonly  
prepared for persons who amuse themselves with Snuffing I  
found may with people unaccustomed to it be conveniently  
employed as an Ertine but it has this disadvantage which  
all others also have in some degree that by repetition its power is  
diminished or rather the effect bears in a greater measure  
for the strength of the Snuff continues the same but the same  
Capacity does not exist in the patient to be acted upon as at  
first Dr. Cullen says that it will be of different force with  
different persons, but that in a moderate dose it is never violent  
with any repetition Once a day it may like the Osarum continue  
a discharge for some time. If Snuff has been <sup>used</sup> for a long time, the  
sudden discontinuance is very dangerous and if the patient is of  
a Gouty Diathesis or has plethoric a disease of the Brain in all  
probability will occur it is certainly a Narcotic in whatever

An Ointment made of the *Stictociana* in the same manner as  
the *Argentum Saturni* *Stamonium*, is prepared has been  
found very efficacious in Indolent old Ulcers, as I was  
informed by a Jesuit Father in India, who told me  
that he had employed it very often.

Manner it is used but habit deprive it of its detentive effects, in a  
great measure and renders it inactive but we see some persons who are  
great Snuffers subject to tremors, Paralysis &c. Dr. Cullen says the  
Snuffing in *Esop procerus* & *Dyspnoea* &c. It causes a pain in the  
Stomach which occurs at a regular hour daily but if the snuff is left  
off the pain ceases to recur and *Pinus* &c. Loin says that the  
daily use of Snuff is the reason why nervous diseases have increased  
fidelity he says that Maniacs are very fond of Snuff although they  
were not previous to their disease, they will eat it in considerable  
quantities if they can get it but I have observed says our Author  
that in a majority of Cases it was hurtful to them I have seen the  
Maniacs fond of it says Barton in the Pennsylvania Hospital  
but not being able to procure it themselves and thereby prevented  
from using any quantity, I can not determine whether it would  
have been injurious to them or not, In One Thing I must contra-  
dict Dr. Loin as far as respects the United States "He reports  
that Nervous diseases are more prevalent now than formerly"  
This I do not believe may I am certain that they are in any thing  
worse in this City than they were forty years ago, It has been  
said that there are many diseases well known to us, that never  
were seen by the Ancients, but in this there is some error, Syphilis  
and rabis Canini have been cited as two of them, but it is  
pretty certain that Hippocrates knew and described the last  
and David appears to have afflicted with the first when

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He exclaimed "my Sores are putrid and Corrupted because  
of my foolishness for my Sores are filled with a loathsome disease  
and there is no Remedy in my flesh" And it is pretty certain  
that Job had Syphilis when he exclaimed "that his Sores were full  
of the Sin of his Youth, which shall lie down with him in the  
Dust."

### *Euphorbia officinarum*

of Linnaeus, the Euphorbium is a Gum resinous Substance obtained  
by a Spontaneous Exudation from a large Oriental tree, it is brought  
to us immediately from Barbary in Pieces of an irregular  
form and pale yellow colour externally but somewhat white within.  
They easily break within the fingers, lightly applied to the tongue  
they affect it with a sharp biting taste and on being held for  
some time in the Mouth they prove vehemently acrimonious, inflam-  
ing and Exulcerating the parts. It is a very Acid Substance &  
must be used with great Care, otherwise it will inflame the  
Sclerotic Membrane. Et D. Cullen says that it inflames  
that it inflames the internal Surface of the Nose produces  
Hemorrhagy therefrom attended with violent Sneezing it has  
been used in the Cure of Inflammation of the Eye, and Odontalgia; Hillboius Abbas  
I have used it in Abscessions of the Head with Success.

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# Sialagogae

Sialagogues I define to be such Medicines as excite and encrease the Secretion of the Glands, There are two kinds of Sialagogues, the external and internal. The first are parts commonly called Masticatories, There are certain Acid Articles which when taken into the Mouth produce a copious flow of Saliva by Stimulating the adjacent glands and thereby inducing them to a greater Secretion. The Masticatories are a considerable number of Corks which produce this effect.

## Cranthus Pyrrhnum

The root of the Cranthus pyrrhnum Chusca excites a copious flow of Saliva and has been used with advantage in Odontalgia, the root when finely powdered is a stimulatory producing Swelling.

## Struthium Bellatorium

The Struthium Bellatorium has been used as a Masticatory but it is not so Acid as the pyrrhnum, yet it is supposed of powers which are well worth being better known.

## Lanthoylum Glava Hermitis

or tooth Ach root is a very powerful Stimulant, and Sialagogue, It is called by some Authors the Ash leaved tooth Ach tree, There are two Species of the Lanthoylum, the first of Southern of which we treated above is very worthy your attention, from its affinity to Mercury, the second or Northern Species is the Lanthoylum frax Sinopolium, this is not so powerful as the first, but is still supposed of considerable Medical Virtues as an external Sialagogue.

Some now to treat of the

The Seneca Polygala has been very much recommended by  
D<sup>r</sup>. James Mather of Maryland in his *Practical Treatise*,  
and has published a number of cases in the *New York*  
*Medical Repository* in which it appears to have  
acted in the form of a *Salutaris* Eviction.

## *Seneca Polygala*

or Seneca Snake root. This plant the *Polygala Seneca* of Linnæus is a very good Masticatory, after chewing the root a few minutes it excites heat and a copious flow of Saliva, I believe this to be the best Sialagogue that we have without treatment of. It has been used in Odontalgia and in Rheumatism, Spine pains & a pain without a general affection of the ~~head~~ System. In topical pains of the Head from Chronic Rheumatism or any other cause, Cupping topical and general bleedings must be used, Mites to the part and Sulphur Churned and given in decoction Internally.

## *Raphanus Rusticanus*

or Horse radish has already been treated of under the head of Stimulants but I must now consider it as an external Sialagogue, for it is certainly possessed of some Power as such and has frequently employed with advantage in Odontalgia and several other complaints and deserves greater attention as a Masticatory than its barbaric brethren.

### Of Internal Sialagogues

## *Hydrargyrum*

The Use of Mercury in Medicine was very little known before the fifteenth Century, the Ancients considered it as a corrosive poison though of itself totally void of Acrimony taste and Smell. Use of Mercury in Fevers. In the fifteenth Century Sir Andreas Mucyenes used a Corrosive Sublimate to excite Salivation in intermittent Fevers. In 1701 Homberg used Calomel to

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Salivate in Putrid Intermittents and in Dropsie, Dr. Christolm  
and in the Bullam fever or as he believes the Yellow Fever and  
is certainly was very similar to our Epidemic, his indications were  
first to discharge from the Stomach and intestines Acid humours,  
2<sup>nd</sup> to Obviate Putrescence Inflammatory Diathesis, 3<sup>rd</sup> to  
Obviate putrescence, and lastly and 5<sup>th</sup> to revive debility. So ~~drugs~~  
And when the first indication he gave Tartar Emetic <sup>grains</sup> Glauber's  
Salt three once water two pounds of this he gave a Wine glass full  
every two hours he says he seldom found blood tinging urine in the  
Yellow Fever and that the blood had no inflammatory crust on the  
top when drawn (I may add that I seldom saw inflammatory blood during  
our Epidemic) as an Antiphlogistic Dr. Christolm gave a pile Com-  
pound of Calomel five grains, Tartar Emetic ten grains and Quin two  
grains every two hours. He mentions that he gave the patient four hundred  
grains of Calomel before the Mercury affected his Mouth, Dr. Christolm  
says that at first his practice was violently opposed by his pro-  
v<sup>er</sup>titious<sup>2</sup> fellow but that after some time seeing the Superior officers  
whereof they all readily fell into it after which he had no opposition  
(I come now to hear of the use of Mercury in yellow Fever of this City)  
and am very happy in being able to inform you that out of many  
hundreds that were Salivated only Eight or Nine died. Salivation  
sometimes ceases spontaneously after having been pretty copious  
for some time and I have found that bear is the best remedy to bring  
it back it acts by inducing a new Action after destroying the old  
One especially when Salivation ceases very suddenly. It is a very safe

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General Rule that children under two years of age cannot be Salivated  
and therefore it is evident that Mercury cannot be given to Children under  
two years of Age in the Yellow Fever with intention to Salivate, but  
Dr. Pison says he has found it useful when it does not Salivate  
and that in these Cases in Children it produces a great Secretion from the  
Nose, Mercury is certainly good for Children in the Yellow Fever although  
it does not Salivate, In 1781 a dysentery raged in the Dock yards  
in England at Newcastle fourteen died in a few hours under the  
Usual treatment, Dr. Clarke visited them and not finding the  
Common remedies to Answer he gave Sulphur Soda Bicarbonate &  
very little Opium and found the most of his patients cured, he did not  
know whether it Operated as a Cathartic or as a Mercurial; but the  
Dysentery again appearing the following year, he found that the same  
treatment succeeded ~~for~~ and observed that as soon as the Gums became  
Sore they got well, he observed that Mercury cured those persons of  
Dysentery who had very irritable Stomachs although they could  
not retain the Saliva in which Case they were <sup>by</sup> Dr. Sydenham's  
Muty or forty grains of Calomel to produce a Ptyalism but some  
took a dram in the last Stage before the Mouth became affected  
Dr. Salmon says he operated with discharging the Scybala and producing  
Natural Stools, found it was finally not necessary to Salivate the patients  
to obtain a Cure in these Cases, he gave a powder composed of Spicaria  
two grains Opium One grain. Cuta ppt or Coluber ten grains as  
indicated One was given every Morning and evening, Dr. Band used  
Mercury in dysentery and so does Dr. Duffin, I have <sup>later</sup> used Mercury  
in Dysentery and think it the best remedy, I have seen more

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Suppuratione. It is in Dysentery than when used the best  
Oil and other purgatives, but Mercury is not good in Dysentery  
attended with Scabities. It is a maxim that no patient  
take Mercury without its producing any effect either purgative  
or Salagogue that it is doing or will do. I know of two patients  
who died of Hemorrhage from the intestines and of another who had  
an exfoliation of the Alveolar process of the Upper Jaw, which  
terminated in Death. In these patients Mercury neither purged  
or Salivated although they took large quantities of it. In 1774  
Dr. Hamont's Case had Calomel and Opium in Dysentery  
Maligna to which he added a Gargle of Corrosive Sublimated  
Cyanide. I suspect of this there are two species the Symptomatic  
and the Idiopathic, the first is a very violent disease having patients  
out of the world very suddenly and I think its violence greater  
and its tendency to death almost certain as in Hydrophalus  
Internus. The Idiopathic is a milder disease and yields sooner  
to medical Aid at the same that I think it is contagious; the best  
Remedy is Calomel in combination with Speacuantha, I would  
advise you to read Dr. Cuyus excellent paper upon this disease  
and examine his admirable plates. In Pneumonia Inflammation  
mercury is seldom used, but there is a species of Pneumonia that  
occurs in the neighbourhood of low and marshy grounds and is  
particularly described by Dr. Hamilton which appears by his  
description something like a bilious fever he gave Mercury largely  
and with great advantage. Hepatitis is a disease that occurs



In all hot climates, but particularly in the East Indies, it is more frequently seen than elsewhere. This is a disease of a putrid or inflammatory Diathesis and is to be treated by Bloodletting, Purgings, Blisters, leeches, and Mercury. Dr. Clarke says that Mercury should always be used in this disease in pretty large quantity but gives a caution respecting its administration that it should be given but sparingly if at all while there is much inflammation or a full and bounding pulse.

**Rheumatismus.** The use of Mercury in Rheumatism is completely established especially in the chronic kind. Dr. Hamilton was attacked with Rheumatism attended with high inflammatory action he took the Mercury so as to induce a Salivation by which he was perfectly cured. I have used it in combination with the Quinaum with great advantage when I conducted as to induce a gentle Salivation which be continued for a considerable length of time.

**Colicia Pictorum** is caused often by Lard which seems to act by destroying the ~~nerve~~ tone of the muscular fibres, cold Bath or Buckets of cold Water dashed on the patients have cured. This disease diminishes the Excitability of the Alimentary Canal and of the bile produces a Weakness and Cramp of the muscles of the body and particularly of the extremities thus producing Paralysis of the Muscles the Action of the Heart and Arteries, Nerves of the Skin, Salivary glands & Glands are Affected with tumours in their passages it has been said that Colic Pictorum

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Was induced as well by Mercury, as by Lead but this is an error for  
the Choleric produced by Hydrargyrum is essentially different from  
the disease which we are now considering and from the remarks of  
D. Catterbush it appears that Hydrargyrum is the best remedy for this  
disease he says it is a most important article in the treatment  
 thereof. Whistler (Say, Barton) that it is the best of all remedies  
 when given so as to Salivate, it is not necessary that it should  
 purge so as to be useful on the contrary the good effect are proved  
 from experience when it does not prove Cathartic, D. Catterbush  
 also remarks that the preparations of Lead are best to  
 relieve the disease brought on by Mercury, and in Salivation when  
 the Mercury ~~is~~ attacks the Alveolar processes of the Maxilla  
 Superior.

*Hydrocephalus Intensus* is in its commencement  
 a febrile disease of a true remitting type attended with irregu-  
 lar pain in the head, but generally, very severe, peculiar  
 sensation of the eyes on being exposed to light, Stupor and  
 low pulse, double vision, obstinate Constipation, vomiting and  
 a considerable discharge of Urine, frequently Convulsions (in some  
 considerable connection to the *Tumor Arterialis Apoplexy*) after some  
 time blindness to all appearance, very great dilatation of the pupils  
 and now the Hæmorrhages begin to pass indistinctly, upon dissection  
 Scrophulous Tumors have been discovered in the brain and several  
 parts of the human body. A Physician in ~~London~~ enumerating

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The number of Cases that occur in early life in proportion to its  
occurrence in adults shews that out of twenty six patients eight were  
under five years old, between the first and fifth year, six from the 5<sup>th</sup>  
to the 10<sup>th</sup> year of age five from the tenth to the twentieth four from  
the twentieth to the thirtieth, five after thirty but only Occur'd. Of  
twenty two patients with Hydrocephalus Intermittens twelve were under  
seven years of age, nine between seven and fourteen and the other  
in the twentieth year of his age, so from those Cases it appears that  
Children are the most Subject to it and that during the Age of  
puberty it is very common. For the treatment of this disease a variety  
of different Remedies have been recommended as blood letting, purging,  
Et cetera in 1775 Mercury was given with advantage, since which time  
it has been common to employ it, Tarter emetic, Calomel, pedicularum,  
and Measles. Dr. Pison gave Hydrargyrum so as to produce  
Salivation, Ric. Dobson thinks it almost a Specific, it has  
frequently done good, at the same time he suspects that it has  
frequently failed. I have never found so much advantage from  
Mercury as I expect, I form a plentiful bleeding and Measles  
to be of great Service anything else that Linnæus (says Barton)  
and Han safely say I never cured one patient by it alone  
(Hydrargyrum) Dr. Pison says it does good although no  
Salivation is produced. One of the first effects of Hydrargyrum  
on Children under two years of age is running at the nose.  
In the Hydrocephalus Intermittens where the patient sustains



A considerable quantity of Mercury a copious perspiration came  
on all over the head and upon wrapping the patient all over in blankets  
to promote it, they sweat very freely and were cured thereby. Dr.  
Morus says that out of twenty two patients that came to him  
he was not able to cure one who was profusely salivated. A boy  
and a young man from the Hydrangyus, yet they died, it  
is advisable to prevent the cathartic effects of Mercury when we  
wish it to salivate in this disease, but the bowels must be  
kept open by injections of Oil Salt and Water. It has been  
remarked by some that children increase rapidly in stature  
while labouring under this disease and immediately after  
getting well of it. Dr. Puzos says a young lady grew two  
Inches in four months while sick of it, he says this is its constant  
effect. Hydrops Mercury has been used for the hundred  
years in Dropsies. Dr. Sins speaking of its use in this disease  
says it is a Specific when given so as to produce Salivation, Dr.  
Janus says he cured forty Dropsical patients by Mercury in the  
Year One thousand seven hundred and fifty five he says that  
during the time his patients took the pills the Dropsy increased  
until the Mouth became sore, when the Water speedily diminished,  
Dr. Saurin mentions the use of it in this disease, he says and  
I perfectly agree with him, that Mercury is best in Sibilis dropsies  
and that is did more service in Anasarca than in Ascites,  
Epilepsy has been used in it, and it has been remarked

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That a Salivation suspended the fits and that when they resumed they were less violent, and with any that doing thus much is a great  
in obstinate a disease, the Mercurial is the Opprobrium Medicina.  
The Hydragicus has done most Service in the plethoric Epilepsy and  
in those Cases where the disease depends upon effusion having  
taken place in the brain, for in a number of patients have died of  
Epilepsy upon supposition it has been that effusions of Blood and Serum  
had taken place in the Ventricles.

Stonus is divided into two kinds the Idiopathic and the  
Symptomatic the first is frequently cured by warm fomentions, wine  
and Russian Baths, but a Dr. James Clarke says that mercurial  
fomentions on the back make it worse of the most Service, he adds that  
he never found the Cold Bath of any Service, the Second Species  
the Symptomatic or that from organic lesion of parts, and in any  
of these is seldom cured. Dr. Clarke says he never cured a Case of  
Stonus arising from the puncture of a nerve (Symptomatic Stonus) the  
prevent is to give two grains of Hydragicus a day until Salivation  
was induced; after a Surgical Operation had been performed to give  
the ~~xxxx~~ grains of Hydragicus and two ounces of Bark daily  
until Phlogism was produced to prevent Stonus, he says that he never  
had a Case to occur when thus treated, after the Mouth became  
affected he gradually decreased the quantity, the same treatment  
he pursued when such stones as came under his care. Think  
that Clarke's mode of treatment was well calculated to prevent  
Stonus.

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Icterus, Hydragyrus has been used with advantage in Jaundice;  
D. Moore was in the practice of giving three grains of Salomel every  
night as a cathartic and in the morning; the patients were  
not to use this medicine only three a week; Other Physicians  
have used it to Salivate. I have generally been in the practice of  
treating the disease by Emetics, and now and then a gentle mercurial  
cathartic. Professor Weitching says in a new dissertation that  
it is caused by a Spasmodic affection of the ducts.

Lepa, I can say very little of this from my own experience, having  
seen very few Cases. I saw one terminate fatally which was  
indeed the only time I ever saw. Savages commonly use  
Sublimat and Hircianus Argen in pills. D. Hillary says  
that Mercury always made it worse. D. Moore on the contrary  
found it very useful.

Trambasia or Gaws D. Hillary says that he found  
Mercury useful here, he gave five or six grains of Salomel three a  
day until the Ptyalism was subsided that the patient discharged  
a pint of Saliva a day and kept it at this rate for five or six weeks.

D. Bampf says that in Open Ulcers he frequently gave Mercury  
so as to Salivate he frequently added Camphor to it by this  
combination he cured numbers. Hence a Case of Gaws by  
Hydragyrus and Mercurial precipitate Ointment.

Sibbens or Sidden. D. Gilchrist says that Mercury is the  
only remedy that will cure it, this is a very common disease

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In Scotland.

Scrophula most Physicians agree that Mucous is of no Use in this disease, may it has been asserted from good Authority that it cures the disease.

Cancer. Dr. Muske found Cancer by the Corrosive Mineral of Mucous taken internally dissolved in Spirits. Mr. Good Surgeon found six Cancerous patients who had it in their Mouths. Jan Switzer found several Cancers of the tongue. Rowley cured one of the Nose. John Mowley, one of the Lips by sprinkling Calomel upon it. a number of other Physicians and Surgeons have recommended the Use of Hydragyrus in these Cancers. A Man in Chester County Cures them by the Corrosive Sublimate. He has acquired Celebrity and a considerable property by this means.

Scrophul has been treated by this remedy Mr. Robert Gordon surgeon in the British Army cured a number of Cases of scrophul by a Salivation.

Gutta Serena, Mucicinal Snuff has been recommended in this Complaint and used with Success. five grains of Turbith Mineral and a Scuple of Asarabacca has been mixed together and used as a Snuff.

Warm Mucous is the most important remedy for Worms, with which we are acquainted, being much more certain in destroying them than any other remedy.

Quicksilver, in its natural State is an inert Substance

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With respect to the human body. There are four ways of preparing  
it so as to render it an active and valuable remedy. 1<sup>st</sup> by  
vapour. 2<sup>d</sup> by calcination. 3<sup>d</sup> by Titration and 4<sup>th</sup> combined  
with Acids. I consider its use, different methods of preparing  
it, relative use and force of its preparations. It is particularly  
attended by the Medical professors in their examination of a  
Candidate for the degree of D<sup>r</sup> of Medicine. So that I would  
advise you all to make yourselves well acquainted with this  
important medicine. The preparations of Mercury in the vegetable  
Acids are much the mildest, the oxygenated Muriate of Mercury  
commonly called Mercurial Corrosive Sublimat<sup>d</sup>. I think is  
more manageable than any other preparation, when combined  
with Opium, as it is not then so liable to purge as Calomel. D<sup>r</sup>  
Cullen says that Calomel does not seem to him to be a very  
eligible preparation. It does not (says he) seem to be so readily  
diffusible in the System as many others, and because it is more  
ready than many others to operate upon the Intestines, which  
prevents its producing Stomatitis, but in my opinion Calomel  
is one of the best, as it is not so liable to affect the Stomach,  
it must be combined with Opium when we wish to salivate.  
I think it will produce Catarrhs, but I then repeat again  
that it is not so manageable as the Corrosive Sublimat<sup>d</sup>.  
For the purpose of producing Salivation I must not forget  
to mention Cinnabar, which has been used with so much

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Advantage in Cases when Syphilis attacks the posterior part of the  
Jaws or Gums, some in being thrown upon hot Coals the patient  
must hold his head over them and inhale the Vapour as the  
Cinnabar evaporates, by this method I have induc'd a Salivation  
in four hours, I do not believe that the preparations by Calcination  
are preferable to any other, but the preparations by Triture are the  
mildest much more so than those by Acids. Plunkets Solution  
of Mercury is made by rubbing down crude Hydragyrum with  
Gum Arabic, Honey and Water, this is a mild preparation  
producing gentle Salivation, it is now Overtaken by good gargle  
when the Throat is affected with Syphilitic Ulcers, it is not  
disagreeable to the taste and more of it can be taken without  
inducing Salivation than of any other preparation of Mercury.  
Mercurial water is made by boiling water for a considerable time  
upon crude Lint situm, this has been used as a Gargle in  
Ulcers of the Throat & a black Oxide of Mercury is made by  
agitating a certain portion of distilled Mercury in a pint of  
distilled Water in a glass bottle for a considerable length  
of time, if the agitation is continued long enough the whole of  
the Mercury will be reduced to a fine powder of a black colour,  
this is a very powerful preparation killing Leucus in a few  
Minutes —

Syphilis The use of Mercury being fully established in

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Syphilis. I will take up none of your time upon its cure in this disease  
as there are so many publications of merit on this Subject to which  
I may willingly refer you. I have now to treat of the manner in  
which mercury operates in curing diseases.

*Modus Operandi.* Not one of you will believe that Mercury cures  
Syphilis by its weight; the quantity of Mercury which is ever in  
the Circulation, I know that some persons are firmly of Opinion -  
that it is never taken into the Circulation. It is never found  
in its Metallic State in the Human body in the Sections or  
exsections. Dr. Cullen says that ~~Dr. Keil~~ Mercury universally in  
its Active State seems to be a Stimulus to every sensible and  
moving fibre of the body to which it is immediately applied;  
and in consequence it is particularly a Stimulus to every excretory  
of the System to which it is externally or internally Applied.  
besides its noted effects upon the excretions of the Saliva it  
seems to operate upon the whole of those of the Alimentary  
Canal. It proves ostendunt; and shows particularly proofs  
(says the Dr.) of its marking and acting upon the organs  
of perspiration. A Physician took a quantity of matter from  
a Stenosed Chancre and mixing it with some of Plunk's  
Gumous Solution introduced it into the arm, no effect was  
produced, from this and other facts, some suppose mercury  
to be an antidote to Syphilis, for a variety of ingenious  
experiments and Arguments. I refer you to the Thesis of



Dr. Syngue, Dr. Cullen supposes mercury cures Syphilis by increas-  
ing the secretions by means of which the poison is thrown out of the  
system, but it is much more plausible that Mercury cures Syphilis  
by acting as an antidote to the poison. I do not deny that mercury  
cures Syphilis by its antidotal power but I think it is not  
proved, and its curing many other diseases besides Syphilis.  
Such as Yaws, Pora, Sifters, Colica Pictorum and preventing  
Tetanus does not tend to enlighten the matter, for if it is an  
antidote to one why not to all and if we allow the last, it may  
be asked why it does not cure Tetanus as well as prevent it  
always. Mr. John Hunter believes that Mercury operates  
upon the principle of destroying the diseased Action of the  
living part, and that it in this creates a new, different, and  
stronger Action, irritating substances are each different from  
another. The belief of some while others believe that they all  
operate upon one general principle. Mr. Hunter believes that  
Mercury produces an irritation of diseased parts different from the  
irritation of Syphilis and stronger, by which means the system  
is rendered insensible to the Syphilitic Virus. Obstructions are  
eased sooner by red precipitate and corrosive sublimate  
than by Calomel. The system is at certain times more liable  
to receive impressions than at other times; seventy Negroes  
were inoculated for the Small pox three days after the  
Hammattan winds began to blow, but not one of them took

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In three weeks after fifty of them were again inoculated with  
the same matter and took it; the others took it in the natural  
way. I inoculated three Children three times without effect for  
they had Poxa, after it got into they were again inoculated  
and took the disease, they were each time inoculated with the  
same matter.

Action of Poisons There are of three kinds. The Animal, Vegetable,  
and Mineral. Some of these affect by contact, others not. Small pox  
is said to be communicated with and without contact, but many  
reputable Physicians are of opinion that it can only be communi-  
cated by contact with either person labouring under it or infected  
Linen &c. For morbid poisons to produce full effect a predispo-  
sition must exist and nothing must be done to prevent their  
Action or otherwise. Something must be given that would either  
totally stop or very much diminish their effects as this is in  
Shops, Mangers in Hops, and many diseases in Men, but it  
must be remarked that many people pass through life without  
having diseases although constantly exposed thereto. Some  
persons are not so susceptible of poisons as others. I had  
a fellow Student who could never take the Venereal disease,  
although he repeatedly tried to get it, and when he inserted it  
beneath the cuticle it produced no effect, he ~~was~~ was

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Called the happy Student. I know a lady that had frequently  
been inoculated for the Small pox by Dr. Bond without  
taking it, she had frequently seen very persons were labouring  
under it, without taking it, at least in the fifty ninth year  
of her age she took it she knew not how, having never been  
exposed to it for a year past, this case appears to prove that  
there are some persons who are not susceptible of receiving the infection  
of disease at certain periods of their lives, a person who has been  
inoculated for the Small pox breaks out in 9 days while one  
who receives the disease without inoculation does not break out  
before 12 days, this shows that a difference exists between the  
periods of time required for a poison to act when inserted beneath  
the skin, and inserted into the lungs. It is remarkable that  
Syphilis never shows itself from the skin, while Mercury is  
operating on the Ulcers neither does it attack the bones when  
although it afterwards will do it if the patient does not take  
enough thereof to radiate it from the system. It has been  
said that Measles and Small pox have both been out on a  
patient at the same time, but I would advise you to be pretty  
sceptical on this point, I never saw but one case of it and that  
was at Mr. Deutaps in his second year, In warm climates  
the effects of Mercury is seen sooner than in cold ones, in Ulcers  
with callous edges if mercury is given, it removes the callousity

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Shew of which should be left off as soon as it disappears otherwise  
it will make the Ulcers increase in size, unless they arise from  
Syphilis in which case it must be persisted in until a Cure  
is complete, as Successing Ulcers by inducing a new action  
it is necessary to discontinue it as soon as its irritating action is  
perfectly evident, Mercury exerts much greater effects upon recent  
wounds or Ulcers than upon old ones.

The Citirization of Charms takes place generally as soon as the  
Action of Mercury is evident, in the Salivary glands.

1<sup>st</sup> Why is Mercury often Serviceable in Ulcers not from morbid poisons.

2<sup>nd</sup> Why does it Cure them with Callous edges after being in a  
Salivation for some length of time. 3<sup>rd</sup> Why does Mercury Cure Ulcers  
after they have been some time standing although it fails to  
do it when they were recent, 4<sup>th</sup> Why does it Cure Ulcers  
without them with Callous edges, and sooner according to the  
Observations of many persons, it frequently fails being Curative  
but in many Cases it is of Service. Lowdus has greater effects  
upon Cancer than upon any other disease, Mr. Adams says  
that Mercury is not adapted to poisons, the Majority of British  
Physicians say it never does good in Cancer with Callous edges.  
Mercury is a remedy that ought to be tried in every Case of  
Ulcers not attended with Stings, In many Ulcers if they do not  
yield at first to Mercury, it must be tried again and again,  
after repeated Salivation they get well.

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Diseases induced by Mercury, when Mercury is exhibited in large quantity, in persons who have recent wounds it is very liable to induce a Spontaneous, every Physician should except in warm climates when is great danger of Putrescence would not use Mercury in such wounds or in Bubbles just opened; in Ulcers when Mercury has been given fully, and when there is danger of Spontaneous as in Wounds the medicine should be left off as soon as the edges show of a pure a very florid Appearance, Thus much says Mr Adams in his invaluable Treatise on Mercurial poisons a work I earnestly recommend you all to read

Phagedena when it extends rapidly we must use Sicc. Saturni. But and especially when the Phagedena has been induced by Mercury, Mr Adams used Flor. Martialis in two Cases, Cancer poutin and Hemlock, an most important remedy the influence of Mercury extends over every part of the System; with its influence on the Bones we are not perfectly acquainted, it appears to induce a predisposition to disease in them and some say induces them to take on disease & Action

The fever induced by Hydrargyus is of a nature "Sui Generis" and is a specific disease in the Opinion of some, it is the febris Mercurialis of some Authors and to be cured by leaving off the Mercury and taking gentle Cathartics of Sulphur, Common Scutan T.B. &c. and if the pulse be strong and full blood letting

The Constitutional disease induced by Hydrargyus are Head

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Act, Ability, Total incapacity to attend to business, and sometimes Epilepsy and palsy after the patients have taken in a great length of time. I will give you the following axiom which you ought never to forget and constantly and particularly to attend to.

Never visit a young person while labouring under adult Salivation without frequently inspecting the bounds or Ulcers that may exist on ~~any~~ any part of the body.

Cuprum. I had a patient to whom I exhibited the Cuprum Ammoniacum Salivated by it and I have heard of several others that were Salivated by this Medicine.

Plumbum Diftillat. Shunbuz says that he knew Lead to Salivate several patients.

Antimonium. Dr James informed Sir George Baker that he knew 12 persons Salivated by "James Powder" he says to know that no part of the crust occurred, I knew of one also Salivated by it.

Arsenicum. There are some instances upon record of Salivation being induced by Arsenic but I never saw a case of the kind. "Who I have given it in pretty large doses neither do I think it has occurred to any Philadelphia Physician.

Corium Maculatum This it is said frequently salivates, it was given largely in the Hospital at Norfolk and very generally produced a very copious Salivation. Dr Haller in his works mentioned that this Medicine frequently Salivated, many other Physicians both Ancient and Modern have recorded the same fact as is felt under their notes, I have known

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In the Salivator: a number of persons, I knew a Mr. John Thompson a  
patient of Dr. Wistar with Cancer to whom the common Mastication  
was given for a long time and in my large dose it produced a  
Copious Salivation red and inflamed Gums &c. but very little pitor  
was observed, and that different from the Pitor of persons labouring  
under a Salivation from Mercury.

Oxygen you have all heard in doubt of the Salivating  
properties of Oxygen, and will be surprized when I tell you that  
there is but one Authentic case upon record to which some material  
objections cannot be urged, for instance a number of those who were  
Salivated by Oxygen gas, inhaled that which was procured from  
the Oxide of Mercury, and consequently a portion of that was held in  
solution and affected the Salivary glands, but we have no mention  
above has occurred of the Oxygen gas Salivating when it was not  
procured from the basis Hydrargyri. Some time ago  
advanced a theory, that Mercury Salivated by means of the oxygen  
contained in the different preparations thereof which oxygen is imparted  
to the body; he says that Oxygenated Piment will cure the Venereal  
disease as well as Hydrargyri. The following is the manner that  
he makes an oxygenated Piment, Take of Oxygencd Urine  
Sipten ounces, Acid Nitric Downes, boil them together with a  
gentle heat, and at them cool. two ounces of this Piment contains  
One dram of the Nitric Acid, the weight of the Piment after it was  
made was considerable ~~was~~ exceeded the weight of the  
Ingredients prior to mixture, he says that the Acid is decomposed

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And that the Oxygen unite to the land, when we made the Anhydrous,  
is of a pale yellow or white colour, Hepatic Eruptions, Mercur. It can  
and by its, it can Syphilitic Stimulating the Muscular fibre and  
inducing Cicatrization. Erisipelatous Eruptions yield to it say the  
French Author, for my part (says Barton) I am very doubtful  
whether it possesses so many virtues having never used it myself.  
I cannot believe that Mercury operates by its Oxygen, I would as  
soon permit to believe this doctrine what the Modus Operandi of  
Oxygen is and why Oxygen does not salivate when taken into  
the stomach in the gaseous form, again One hundred grains of  
boracic Sublimate will cure the most obstinate Syphilitic  
eruption and ten thousand grains of Oxygen will not

### Acidum Nitric

I have little experience of the use of Nitric Acid in disease, its  
certainty is being its former great Character in Syphilis, Mr.  
Plein and Smead others have failed with it, it certainly will not  
cure Syphilis of itself, when no Mercury has been given prior to its  
use; but experience has shown a number of medical practitioners  
that it is of great Service in removing <sup>Syphilitic</sup> Hepatic eruptions on the skin  
when great quantities of Mercury had been exhibited prior thereto  
without effect. It has also cured Hepatic eruptions, I have heard  
of two cases of Hepatic eruptions cured by it after Mercury had failed.  
It certainly is an excellent Substitute for Mercury in some cases, and  
when given along with Hydrargyris in some weak habits assists  
it very much, when Mercury is given to a patient with Syphilitic  
or cutaneous eruptions it is of its nature



and the patient at the same time takes the Nitru acid or  
a quantity of the Hydragyus will be requisite to cure the  
disease, Nitru Acid is certainly a valuable Stone and can be  
given with great advantage to persons labouring under debility.  
It is also combined with quinsium and Lard and Oil and  
formed into an Ointment known by the name of Unguentum  
Citinum, this is of great use in Poxa, Herpetia and Syphilitic  
eruptions, and I may almost add that it is a very valuable medicine  
for all kinds of cutaneous eruptions, Some now to treat of the Siagoga  
Medicines of the Animal Kingdom.

Those Substances which come under this head are few and I can  
never believe be employed in the Medical Art, The one of which  
I shall now treat of is the Garbage called by some Sparra,  
which is found on the Shores of some of the West India Islands  
and other places. Dr. Jay says that the Salivary glands of  
those persons who eat of this fish are swelled, and that an  
encreased Secretion takes place, sometimes they produce pain in  
the limbs and excoriation of the head. Hoop, that eat heartily  
of this fish die in a few hours in very great agony and bodily  
pain, a dog eating some of them had his bowels void of which  
he died, The crew of a Ship having caught several of these  
fish took out the intestines, after having washed them well  
they were cooked for the Sailors dinner who having eat of them  
suddenly were affected in half an hour with great excoriation  
in the Stomach, Nausea, vomiting, restlessness, delirium, inability

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Sustain the Mind or feet attended with great Shivers and a very  
high fever, several had Convulsions and others were deprived  
of their Senses for several days but at last they all recovered.  
Though slowly in leaving them they were, but for several weeks  
after, their Jaws were Swollen and the Action of the Salivary Glands  
so much encreased that the Spitting was very great which perhaps  
Salivation also tended to debilitate the Crew; for some time after  
a number of the Crew were affected with Amnesia or loss of memory.  
Fortunately for the Safety of the Ship, the Officers had killed  
a sheep, ~~one~~ and dining on it did not startle the fish by which  
means they escaped. Naturalists say that this fish is not thus  
delirious all the year, though but that only at certain periods  
in the year when they feed upon the blubber which is said  
to be the Cause of these violent effects, and that if the intestines  
are taken out as soon as the ~~intestines~~ fish is caught no ill  
effects occur from eating the Fish, the blubber or Spavas thereof  
and a Species of Worms; it is generally known that the fish  
loses its Salivating quality from the Spavas.

### Emitia

Emitia are Medicines which excite vomiting, and thereby bring up and  
throw out the contents of the Stomach for the time present in it,  
but when full vomiting occurs it is probable that the peristaltic  
motion of the intestine in Duodenum and part of the Jejunum  
is inverted and their contents evacuated by the Mouth, this is  
rendered pretty certain by the fact that after purging, a quantity



Of Bile is discharged which is not even in the Stomach in a State  
of health and if it had been in the Stomach it would have been  
thrown out at the first vomiting whereas it is only after repeated  
vomiting and Straining that the Bile is evacuated, as in the Action  
of vomiting the diaphragm contracts and the Abdominal  
muscles contract at the same time, the whole viscera of the Abdomen  
are strongly pressed; this pressure must affect the Gall Bladder, and  
biliary ducts, and occasion them to pour out their contents very largely  
and thus by especially a large portion of bile may be thrown up.  
Cullen's Materia Medica 20. to 3) Shows three kinds of Emetics  
obtained from the Animal 1<sup>st</sup> the Vegetable 2<sup>nd</sup> and 3<sup>rd</sup> the Mineral  
Kingdom. I shall first treat of Emetics in general and succinctly  
then permitting the particular ones and their use in disease.  
Some are of Opinion that the Action of vomiting is conducive to  
health, and that although we are perfectly well we should  
occasionally take an Emetic to keep us well but I do not think  
this a good practice for when we are in health we should take  
nothing as they can do good and may do harm. Dr. Cullen says  
that the too frequent or excessive use of Emetics are hurtful, the first  
effect of an Emetic is to evacuate the Stomach, 2<sup>nd</sup> the Duodenum  
and part of the Jejunum which are frequently evacuated by  
good Emetics given to operate smartly, but this is not always the  
case, as already mentioned bilious vomiting takes place in  
Sea Sickness. Dr. Cullen thinks that Emetics produce an



Evacuation of bile from the Gall Bladder, &c. &c. Some Physicians  
and the vulgar are of opinion that the bile brought up by vomiting  
existed in the Stomach previous to the Exhibition of Emetics. The  
Stomach is very passive in vomiting, much more so than generally  
we suppose. Dr. Clynno was of opinion that the Stomach was  
entirely passive and compares the passive state of the Stomach  
during vomiting to that of a Glyster pipe in giving an injection.  
And that vomiting is effected by the Diaphragm, Abdominal  
and other Muscles, vomiting increases the circulation for a  
while but afterwards the pulse becomes slow in proportion to  
its past evacuating effect; Emetics can be managed so as to  
prove diaphoretic. Dr. Biller says Emetics induce sweat by  
stimulating the vessels of the Skin, but all Emetics do not prove  
Sudorific as Digitalis purpurea and Scilla or Squills  
Dr. Bryan Robinson says Emetics produce Astringency and  
Contract and stop the mouths of small arteries and Veins when  
bleeding, for which reason he gave them liberally in Hemoptysis.  
Mr. John Hunter thought that vomiting evacuated the Arteries  
only of the Absorbents but of all the vessels of the Textes for which  
reason he gave it in Hemorrhoidal, in Twenty, Thirty or  
Sixty minutes after the Exhibition of an Emetic, a peculiar disease  
comes on followed by or attended with a pain in the Head, slight  
Rigor Occurs, the pulse becomes low and slow, the eyes lose their  
lustre, and ajection takes place; during vomiting there is great  
action of the Muscles of respiration &c. the hairs curl and grow

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Turgid which before had shrunk away and the Countenance  
before pale becomes florid, after having pushed them on four times  
the sickness goes off, for a short time but soon returns again and then  
perspiration becomes copious, but different Emetics produce different  
effects as Tincture of Antimony and Squills, Some persons are of  
Opinion that all Emetics contain something detrimous to the  
Human body, and that when they are taken into the human  
body, the vis medicatrix naturae sets itself to cast them up,  
that they may not prove injurious to the Animal System, but  
there is a very great and powerful objection to this belief, supported  
by a fact well known, viz that the purest Water heated and  
drank in large quantities will prove Emetic to any person and  
that taken in a very small quantity will excite Emesis in some,  
who will pretend that warm water contains any thing detrimous  
upon the whole I think the whole I think the Opinion founded  
upon truth that all Emetics contain something detrimous,  
to warm water excepted. I come now to treat of the Use of Emetics  
in diarrhoea and pish in Asthma. In this disease emetics have  
been very often used and with advantage. Dr. Whenside who  
says that there is no remedy so effectual to remove Spasmodic  
Asthma, he gave a Scruple of Squacum root at first and  
afterwards from five to ten grains every morning for a month or  
from three to five grains every morning and evening, in doses of  
five grains it very often proves Emetic, and I hold it true  
that good Squacum root will always produce Emesis in doses

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Of five or six grains. Dr. Akenside says that it relieves by means  
of its Antispasmodic power. Cullen on Asthma, Dr. Willis recommends  
that in the height of a paroxysm if the Spasmodica is given  
it will immediately stop it. He distinguishes Asthma into the humid  
and the Spasmodic very accurately. Rivinus recommends the Use  
of Emetics in these Cases very strongly. Confucius Small says when  
patients have been almost strangling with it, and the Pop. so thick  
as to render their lives precarious, Dr. Sydenham used to give a  
Scruple of Spasmodica with advantage. Spasmodica induces a  
Spasmodic Asthma in some persons. Dr. Jones a former pupil of  
mine was always afflicted by it in this manner. He lives now in  
Maryland and is still in the same predicament, been unable  
to weigh it or suffer it to be weighed or kept in his house.  
Dr. Cullen says that Emetics exert their good effects by producing  
relaxation of Spasms of the extreme Papils and producing a detrimen-  
tation to the Skin, he did not find Emetics so useful in Asthma  
as Akenside. Dr. Boyer Robinson from his Story used it with  
great success in Hemoptysis, Cullen says it frequently was useful  
but that he found a Case wherein it did harm, and the fear  
of meeting with other Cases prevented his giving it frequently. Robinson  
says that during the Sickness caused by Emetics a Constriction takes  
place of the Papils of the Lungs. Baker used it in large Hemorrhages  
and Catarrhs when in excess. Vallisnerius also recommends  
it in Menstruaria and in Dysentery. A German Physician  
and professor Bugerius both used it with Success in Asthma

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Hemorrhage. Specuanda has also been used in Mentes cruentis,  
Hematuria and in Rheumatism, Pleury and Obsolete Catarrhs  
in doses of One and half, half, and two grains, every two or three hours,  
but my good Specuanda Operates in doses of Three grains; I have used  
Specuanda in Obsolete Hemorrhage with success in doses of Three  
and four grains Three a day by which means I cured several dispensary  
patients while I was a Physician of that Institution as soon as  
soon as slight Nausea is induced by Specuanda the Hemorrhage  
ceases, this proves that it acts by inducing a Nausea, I am at a  
loss how to explain all the Modus Operandi of Emetica in Hemorrhage,  
I do not believe that they act by virtue of their astringent power for  
tho' all astringents would have the same effect which we  
know is not the case they even do harm. Dr. Keil often says that  
they do not Operate by virtue of their Antispasmodic power by a  
Specific Operation. I believe that they act simply by exciting nausea,  
producing a determination to the Skin, thereby producing an action  
in another part and cessation of the Obsolete hemorrhage in  
Hemoptysis. Emetica have been recommended by many writers in  
diseases or fevers when the head is much affected particularly in Hydro-  
cephalus internus but I think they generally do harm in these  
cases. They are also recommended to diminish inflammation in  
Hemia Hemorialis. I have already mentioned to you Keil's  
Opinion of the influence of Emetica on the Feet. I think they are  
sometimes of use in reducing the force and frequency of the pulse,  
but I have not much confidence in them. I have used the Sulphur



Mind to excite Emesis in the Scurvy States, but did not  
find it of much Service as I only used two Cases with it. Epilepsy  
vomits have been recommendly very strongly in Epilepsy. I have  
often used them and with some Sort of Success for they would  
suspend the fits for some time, Richter says that they always  
do good, In Cases where Epilepsy comes on suddenly ~~at~~ for instance  
at 8 o'clock at N or P M, An Emetic given an hour or an hour  
and half before it comes on will either prevent or moderate the fits.  
Mundie says Physician allows that Emetics are of great service  
in Jaundice and indeed they are the principle and most  
material part of the treatment of the disease. They are used in  
Jaundice to a very great extent by all the Physicians of Edinburgh.  
D<sup>r</sup> Home of Edinburgh puts his patients in the warm bath and  
while they give them an Emetic, keeping them in the bath  
during the Operation by which means he was more successful in  
curing the disease than any of his Contemporaries —

### Purifiers

Purifiers are those Medicines which promote the Secretion by the  
Kidneys. This can be done in two ways 1<sup>st</sup> by increasing the  
quantity of Water in the blood, or that remaining the same  
by introducing a matter that may be a Stimulus to the Kidneys.

### Polygala Senega

The Polygala Senega of the Botanists possesses along with its  
diuretic, a cathartic, Expectorant, Salivating and diaphoretic  
power. D<sup>r</sup> Wilson found it to increase the force and frequency



Of the pulse and the Secretion of the Mucus in the Bronchial,  
 and augment the Secretion of the Salivary glands. At Eleven O'clock  
 A. M. a Gentleman took twenty four grains of the powdered root  
 of the Seneca in Water his pulse beating ninety two in a minute  
 its natural Standard. In

Minutes	5	10	15	20	25	30	35	40	45	50	55	60	80
Number of Pulsations	94	96	98	99	99	100	101	99	97	96	94	92	92

Seneca has been observed to produce a genuine Salivation, M<sup>r</sup> A. in  
 Hydrothorax took it in large quantity and it produced a  
 copious Salivation which continued for four weeks, and so  
 very profuse was the Ptyalism, that it debilitated her so much  
 that I was oblig'd to stop it, during all this time she had a  
 very peculiar sputum but very different from that which is caused  
 by Mercury and resembles that caused by meat putrifying.  
 Linnæus first noticed the Salivating effects of Seneca, the dose  
 of the powdered root is about thirty five grains. D<sup>r</sup>. Remant  
 says in it. Puritie diarrhoeis, Emisus and Cathartis, he  
 gave it in Pneumonia, and with Scurvy, but I think I  
 am warranted in asserting that Remant gave the Seneca  
 in the Pleuripneumonia both and not in the true Pneumonia  
 for according to his own Accounts his patients died in the  
 low Marshy parts of Maryland and Virginia. He first

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Had recourse to Blood letting which he repeated pretty largely and frequently. Lemmeri and Suisin also used it. I do not believe that the Senka is adapted to Pleurisy.

*Cynanchum Mactricale*. The Senka has been used in this disease upon the recommendation of Dr. Baker of Maryland. I have used it chiefly with Symp and frequently in combination with Calomel, Nitro and Blood letting now sometimes called in as Auxiliaries to the cure ~~and~~ Senka operates upon the throat producing a Swelling and Spitting as well as Stimulating the Venaria. The Dose of the Senka is not precise the Saturated decoction can be given very largely and continued as much and as long as the patient can drink, until it purges when the dose may be diminished. But if it purges earlier the dose. The decoction ought to be made with the powder of the root, *Cynanchum Malignum* I have used the Senka in several Cases of *Cynanchum Malignum* with complete success. Dr. Ferriant gave the Senka in Joint Rheumatism, and Dropsy. It has some affinity to Guaiacum and has been used in Hydrothorax and in Phtisis combined, with some advantage of thirteen patients with Asthma who took the Senka, Six were perfectly cured, and Monro used it in Stenosis. Dr. Donald Monro cured a Case of this disease by the ~~Senka~~ Senka. Mr. Puxton a friend of mine mentions a Case to me of a man cured of Stenosis by it, the disease had been occasioned by the bite of a rattlesnake.



*Digitalis Purpurea* Although it is called purple, yet  
it is very often found with a white flower, and yet a good for  
Medical of other purposes, a large dose of the digitalis occasioned  
a great Secretion of Urine, at first a full and strong pulse, but  
after a short time diminishes it in force and frequency, Humors,  
cold Sweats, Convulsions, Syncope and death, it frequently lowers  
the pulse to thirty five, I have seen it brought down to twenty four  
pulsations in a minute, sometimes patients while taking digitalis  
will be affected with vertigo and false vision, but it produces its  
best effects in a less dose. The sickness produced by Digitalis is  
very peculiar and violent, worse if possible than that excited by  
Ibama. Dr. Withering says that Digitalis excites and promotes  
the Appetite, and that it sometimes proves cathartic, when it  
purges it does no good in Phthisis, while using Digitalis patients  
should drink very largely as indeed they ought to do while  
taking any of the diuretic Medicines. Digitalis is said to be  
a very dangerous Medicine. This I will not deny but I think it  
very seldom if ever does harm in the hands of cautious and  
Judicious Physicians, I think that most of the Cases of death  
said to be induced by it would have been avoided had not the pati-  
ent been under the Use of Digitalis, and particularly in  
Persons ill with Hydrothorax who it is well known generally  
is very suddeny. Mr. Humphreys used Digitalis for the  
Hydrothorax, which not proving of Service it was left of

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And he took Squills for some time, but at length died, they suddenly  
and unexpectedly were said to be bestaking Digitalis it would have  
been said that it killed him. Maria Thero Alderm Sen digitalis  
of use here, it raised the pulse by such and without affecting  
the State of the Brain, it was tried in the Pennsylvania Hospital  
but now we bend, as Digitalis sometimes purges it is thought  
to be the wish of every Physician to prevent, as it does little good  
when it purges. Dysuria has been treated by Dr. Withering with  
Digitalis with advantage. I used it in the case of Black woman with  
Swamp after the Catheter had been used several times, with success,  
she took several grains through the course of the day, I also used  
a M<sup>r</sup> Siper (Sobanous) of Dysuria with it he took half a grain  
thru a day. Dropsy. Dr. Ferriar used this remedy in dropsy  
in twenty seven cases twelve of which were cured, seven relieved  
and the remainder it produced no good effect. Dr. Darwin used  
it in combination with Opium, and says that the medicine  
was increased in efficacy by thus combining it with Opium.  
Withering says he found it very useful. Dr. Cullen is not fond  
of Digitalis in Dropsy, he says that it is a sedative poison, and  
induces great debility by which means it does harm. Hemorrhage  
Digitalis has been used in Hemorrhage by several Authors,  
who say they found it useful the Modus Operandi of Digitalis  
is very evident it operates by lowering the pulse which it does in  
many cases better than either general or local blood letting would.  
I have no hesitation in saying that in several cases of Hemorrhage

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Hemorrhage is has been of great advantage, when the pulse was full  
and moderately quick with flushing of the face &c. but I think that  
the plumbum acetatum is a preferable remedy for it. Can be given  
both in the inflammatory and in peptic Hemorrhage, with equal  
advantage which is not the case with digitalis for it can only  
be given with safety in Hemorrhage attended with increased  
exultation. Digitalis has been used with great advantage in  
Hemoptysis attended with a full and strong pulse &c. Phtisis  
Dr. Saver used Digitalis one hundred years ago in this disease  
in the form of a Syrup, he says that he cured a number of Phtisical  
Patients with it after <sup>they</sup> had been given over by other Physicians.  
but to his credit and no little to his Emolument as we may  
well suppose for those people always employ that Physician  
who is reputed the most skillful. Sir George Baker describes  
a case in the Philosophical Transactions of London when the  
Use of Digitalis gave great relief to the patient although it  
failed to complete the Cure. Dr. Deane cured two Cases by  
the Use of this remedy he gave it with an Idea that it promoted  
the absorption of pus &c. and thereby preventing the Action  
of Oxygen of it, converting it into a Sanious or Corrosive  
Substance which he supposes to be the reason of the Phtisis  
Pulmonalis being so generally incurable. It was his practice to  
give the saturated Tincture in doses from ten to twenty Drops  
or more if he could without inducing Nausea three or four times  
a day, and to continue it for two or three months, he continued  
to exhibit such portions of it as to reduce the pulse without

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Exciting nausea. To the first patient he was only able to give  
it in the dose of ten drops and in the second to twenty drops three  
a day for two or three months. I have used it in several cases in  
The Pennsylvania Hospital, but without success; some time ago  
I attended a patient in consultation with Dr. George P. Puffer of the  
name of Weaver that was perfectly cured of Puff's Pulmonalis  
by the Digitalis. This is the only case I have ever cured by this  
remedy, and I have never seen any advantage arise from the  
use of it except in the case of Weaver. Darwin says that the  
best method of exhibiting it is the Saturation Tincture made by  
taking two ounces of the Leaves when recently dried and in  
Coarse powder, put into Spirit Wine rectified, et Aqua Puras  
two four ounces. digest them together with a linen coat for  
two days frequently shaking the bottle. Then strain the dose  
is from twenty to sixty drops three a day, but I think we  
ought to begin by giving a less dose. Digitalis acts on the System  
and very frequently if not generally on the Kidneys, and it also  
exerts a wonderful power in lowering the pulse and raising it  
in force and frequency. Darwin says that the drops are to be cured  
in which Digitalis was shown when to prove "A priori"  
he thought not accommodated to it, viz. in persons who had had  
irregular lives and debilitated by debauchery and drunkenness with  
a suppression of the vital powers, yet the Digitalis appeared to strengthen  
them. I have used it in two cases exactly similar to those

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Mentioned by Darwin and with complete success. The man was a  
Butcher and "a drunken dog" who now attends the Market constantly  
by and who is drunk almost every day and seldom perfectly sober.  
yet he continues well. I gave it to him with the effect of producing  
a very copious flow of urine and retraction of the water in the  
cellular membrane followed by a perfect cure, it is now three  
years since I heard him, he still continues his former habits  
of Intoxication and has had no return of Hydroptic symptoms.  
During this fellows indisposition he was so ill as not to be  
able to lie down but sat up constantly and slept in his  
chair for three weeks and more. The other case was similar  
to this one he was perfectly cured and had no return of his  
indisposition.

## Nicotiana Tobacum

Tobacco and Digitalis are considerably connected or allied to  
one another. The following ~~the~~ infusion made by one ounce  
of the leaves of Tobacco, boiling water one pound which must  
be suffered to stand on the Tobacco till cold or longer, then  
add two or three drams of Spiritus Rectified. The dose from forty to two hundred  
drops three or four times a day, by which means many have been cured  
of dropsy in their most violent forms, Souber gave a dram  
as a dose of the infusion, he gave to thirty one patients with  
Anasarca and Ascites, ten were perfectly cured, and thirteen  
very much relieved. Dr. Withering used digitalis in dysuria

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And in Dropsy with advantage. Attorus Tobacco has lately  
come into repute as a remedy in this disease. The Method of exhibition  
has been to give the Patients Enemata made with a decoction or  
infusion of the leaves regulating the Strength & Quantity according  
to Circumstances of the Patients within my knowledge who  
used it one was blind another much relieved and on the third  
it produced no good effects. It has a practically been used in this  
City by a number of practitioners but they do not report very  
favourably of their success with it so that upon the whole we  
cannot say how the Medicine will be generally found to answer  
but from the favourable Issue of one case above mentioned  
I think it ought always to have a trial. Hydrophobia I  
have used the infusion of Tobacco as an injection in this disease  
in one case in this City when I attended in Consultation with  
Dr. Beaman. I think that this Patient would have been  
cured of the disease had the Tobacco Injections been persisted  
in as he was very much relieved by them and had a suspension  
of the Spasms for some time after each injection but the Family  
Physician (Beaman) was influenced by some person to try  
the Juncus which had just made so much noise in  
Pennsylvania as a Cure of the dreadful Symptoms of Hydropho-  
bia and which the Legislature of this State made themselves  
so ridiculously officious about. The Patient died although he  
took large quantities of the Juncus. I have little doubt  
he would have recovered had the Tobacco Injections been



Persisted in. This shows the injury that is done by recommending  
such medicines as almost specifies in violent cases for this leads  
practitioners to make a trial of them by which so much time is lost  
that the disease becomes incurable. Tymosis, A strong decoction  
of the leaves of Solano has been recommended in this disease and  
from the narcotic and relaxing quality of Solano promises a  
very useful remedy. I have used it in very strong decoction of the  
dried leaves as a Lotion with singular advantage and would  
advise you all to try it in violent Cases.

*Lactuca virosa* of Linnæus called in England the  
Strong Scuted Wild lettuce a species of lettuce, an Indigenous  
plant of Britain which grows abundantly in some places, it differs  
very essentially in its qualities from the Garden Lettuce, has a strong  
Smell of Opium and Resembles it in some of its effects, and its  
narcotic power like that of Poppy Heads resides in the Juice,  
an Extract made from the expressed Juice is recommended in small  
doses in drops, beginning with one grain and increasing it to  
two Scruples. I have used it in several diseases particularly in  
dropsy in those of long standing, arising from visceral Obstructions  
he gave it to the extent of half an ounce a day. It is said to agree  
with most Humours, given thus to be gently laxative and  
powerfully diuretic.

## Opium

In treating of Opium I mentioned its diuretic effects, the  
Pulvis Specularibus Compositus vulgo Pulv Doeri is

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Made by of Specuanaba and ~~the~~ <sup>the</sup> same Opium of each  
powder the dram, triturated Lixiv One Ounce, mix and grind  
them accurately together, so as to make an uniform powder.  
Dr. Alexander Hamilton used this powder with Suss in  
Anasara; Dr. Suiian also mentions his having cured a patient  
by it with Anasara by means of the constant and plentiful  
use of the Pulv. Specuanaba Compositus. I have heard and  
read of several other cases cured by this remedy, which has  
argued so much and so justly deserved a celebrity for the  
Cure of Chronic Rheumatism.

## Scilla Maritima

of Linnaeus, Squill or Sea Onion, the root is the part used  
in Medicine, this is a sort of Onion growing spontaneously on  
dry Sandy Shores in Spain and in the Levant from whence its root  
is annually brought into Europe, it should be chosen plump  
round fresh and full of clammy Juice. The common dose is from  
three to five grains of the dried root given either in powder or in  
pill. four grains of the dried roots is a sufficient dose for the  
majority of Adults, and equal to Single or twenty five grains of  
the fresh Squill. Squills are in Substance or in Juice with  
Spirit, Citric Acid, or Benigan, and others called Autumn  
Littitium or made into an Olymb, the methods of preparing  
which are very accurately mentioned in the Edinburgh new  
Dispensatory to which I refer you. Squills are the most acid

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Substances we are acquainted with; the Camels will not eat  
the tops thereof, although they feed upon the tops of beets, thistles  
and thistles. Dr. LANGE in his work upon the Domestic remedies  
of Brunswick mentions the case of a woman killed by half a  
Serpent of the kind Squills. In a case that proved fatal when  
a quack had given a Spoonful of the dry powder each to a  
Woman she died in An hour after having taken it, upon  
examination of her body. The Stomach was found Inflamed  
and in the place of the Squills were the pulse in the same  
manner as digitalis does and almost as much, they have often  
been used in Hydrops. Dr. HOME used it in a number of cases  
with success he gave it daily in drops and in such doses as  
to vomit constantly every day for a considerable length of time.  
Dr. Cullen does not think much of Dr. HOME'S Practice in this matter  
The producing nausea is only indicative of the operation of Squills  
or in other words that we are not certain Squills produce any  
effect upon the body until they produce nausea, but I think  
says (Barton) that it is absolutely necessary to produce some  
nausea, but not to vomit in this way I have used it with  
advantage. Dr. Sydenham writes in combination with Squills  
and Solidi Home, but I do not think that this is a good practice  
in all cases, for when there is a relaxation of the Abdomen I think  
Cullen says I think to do harm, Calomel has been added, but Dr.  
Cullen says corrosive Sublimate of Mercury is best in combi-

X

nation with Sallow. Quavin used this combination at Flenda  
in Hydrops Pectoris. The *Actium Scilliticum* is a very powerful  
Medicine as an attenuant, it is given in doses of from half an ounce  
to an ounce and half and even to two or sometimes. The *Ozymul*  
is also used as an attenuant in doses of from One to two drams  
and as an Emetic in doses of One and two ounces. Professor Meibin  
and Professor Gueti of Turin used it in Dropsy externally with  
advantage. The limbs abdomen &c. were bathed with the  
*Actium Scilliticum* and *Ozymul* of Squills. Dose. There is a  
wide difference between the dose of the fresh and dried ~~leaves~~  
Squills. The last being much the strongest, as the roots contain  
an aqueous part in abundance four grains of dried squills  
are equal to six or  $xx$  grains of roots Squills, two or three  
grains of the dried squills may be used as a dose. *Digitatis*  
and *Squills* are both, Emetic, Cathartic, Diuretic, Diaphoretic,  
and also both lower the pulse being surprisingly, being  
very valuable articles of the *Materia Medica*, as they can  
be used to lower the force and frequency of the pulse, when  
it would not be proper to employ blood letting, on account of  
its inducing guardebility.

### *Cortium Mitoriana*

The *Cortium Mitoriana* is a plant belonging to the Class of *Hexandria*  
in the Sexual System of Linnæus It has been made into pills  
and given in dropsy, it has also been given made into an

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Of y<sup>e</sup> root in the dose of from One to two drams. The European  
Physicians sometimes use it but it has never been used in America.  
*Synonima* Calabicus as it is called by ~~the~~ ~~some~~ ~~by~~ ~~the~~ ~~Antients~~  
Antients but not by Linnaeus in his immortal works upon  
botany, which ought to be read by every Student and practitioner  
of Medicine, he ~~has~~ ~~he~~ has called it the

### *Cynara Scolymus*

or Artichoke, which is a large rough plant with greyish leaves,  
which is well known in our Gardens, being very commonly culti-  
vated for culinary purposes, the leaves are bitter, and being pressed  
give out their bitterness along with their Juice, this expressed Juice  
is given in drops and in some instances with Symp after other  
Remedies have failed. Dr. Meade gave it in Syrops in Quercion,  
he took of the leaves of Artichokes three pounds full, Simper berries  
and Mustard Seed of each two table Spoonfull, boil from two  
gallons to one, Strain and take one Ounce three a day he cured  
Scorbut with it of dropsis which had been of considerable Standing.  
The ingenious and elegant Author of the botanic garden of whom  
we have so often had occasion to speak in this course of  
lectures, the renowned and immortal Author of the *Locumia*  
Dr. Darwin used the *Synonima Scolymus* as a diuretic and  
as such recommended it very highly

### *Helleborus Niger*

of Linnaeus commonly called *Antipodium* or *Hellebore Niger*

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The extract of Black Hellebore is used in dropsical Cases in Europe and has been found of advantage, in prodigious copious aqueous evacuations and sometimes Operates as a diuretic. This Medicine is the basis of Pechus Savi Pills for the dropsy, they consist of extract of Melampodium and Carduus Benedictus

### *Myrica*

This herb has been used with the same intention in combination with Melampodium and Carduus Benedictus as in Pechus Savi pills for the cure of dropsy. These are made as follows. The root of Melampodium is macerated in rectified Spirit of Wine. The liquor expressed is repeatedly mixed with water and duly evaporated. This is to be made into pills with an extract of Myrica and powder of Carduus Benedictus, they are said to be Cathartic and diuretic and at the same time Scurvy. I have not seen of the use of Myrica in Dropsical nor of Pechus Pills.

### *Gambogia Gutta*

of Linnaeus, Gamboge a Gum resin. Dr Sydenham gave ʒss of it at a dose in dropsies. In Small doses and frequently repeated it certainly has been of some use and when used in combination with Chrystat of Tartar is a powerful diuretic in Anasarca, as a Cathartic the dose is two or three grains with an equal proportion of Calomel.

### *Siligo*

Nearly the whole number of plants in this order are diuretics.

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## *Cochlearia Anglica*

of *Simons* is the first plant that I shall make mention of it certainly promotes a free flow of Urine, it is particularly celebrated in *Simons* from whence it has got the name of *Sunny grass*.

## *Rapumus Rusticanus*

*Horse radish* has been used in dropsy, Palsy and Scurvy, a strong decoction is made of which the patient drinks of one to two ounces three or four a day. It is a very salubrious diuretic and is good in dropsies without fever when there is great debility. *Glut.* I think that the decoction of *Horse radish* ought to be used in *Glut*, as it is a very promising medicine in this complaint.

## *Sinapi*

*Amur.* The seed of *mustard* being considerably diuretic for which reason they are used in dropsies they are also used in palsy.

## *Alliacea*

The *Alliacea* are powerful diuretics of the natural fluids. They encrease all the secretions.

## *Allium Sativum*

or *Garlic* has been used in dropsies without fever. *D. Culan* says it operates as a diuretic and has been often successful in dropsies without fever.

## *Allium Porum*

*D. Donald Anon* used the Juice of *leeks* in dropsies in two cases with considerable advantage.

## *Animal Diuretics*

Under this head I include but two articles the *Pullipedes* and

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And the *Cantharides*; I have just treat of the  
*Prisus Asellus*

of *Linnaeus* Commonly called *Staves* or *Milipedes* and  
Sometimes *wood lice*; they have been greatly celebrated as diuretics.  
I have never used them, and think they are disagreeable to the  
*London* and *Edinburgh* Colleges, for I think they ought  
ought long ago to have been expunged from the dispensatories.  
Their Official preparations are the *Milipedes* dried and powdered,  
and a *Stimulus* infusion, which was formerly held in the highest  
esteem by some in certain Cases of *Hooping Cough*.

*Mulco Vesicatorius*

of *Linnaeus* *Cantharis* or *Cantharides*; The Virtue of *Cantharides*  
is celebrated for being a powerful diuretic, and has long been used  
in dropsies with *Swamp*, *Wambost* and it with great advantage.  
He says that he seldom failed in completing a Cure by means of it,  
on the other hand *D<sup>r</sup>. Carmichael Smith*, says that he found  
it to be of little Service; it is surprising the great and eminent Physicians  
differ in their Opinions of the Virtues of *Medicines*, both speak of it  
from experience, yet the experience of One runs Counter to Another;  
how are we to decide from such a Muddle of Contradictory facts, why  
by supposing that both are true but the different results experience  
by each arise from the exhibition of the Medicine in different Stages  
of the Disease, as bleed in *Yellow Fever* with *Swamp* in the begin-  
ning of the Disease, yet bleeding performed in the Second or Third  
Stages would be followed by Death. Now we see the same

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Remedy may be used with equally opposite effects in the same disease and the statement of facts that are true appear contradictory because the authors do not mention the state of the system and disease when they gave it. Dr. Horn gave the Tincture of Cautobardis in nine cases of Syphilis Miliar and says he found it a safe and powerful medicine. He was not fond of blisters and yet applied them to the temples.

Horn's dose of the Tincture of Cautobardis was twenty drops three or four times a day. I have used it (say Barton) frequently beginning with small doses and increasing to two or three drops a day. I have a case of Hemiplegia by this means. I began with ten drops at a dose and increased to ten or twelve three times a day, but in general I would not advise it to be given beyond thirty or drops at a dose. Diabetes. Dr. Morton says that Tincture of Cautobardis is a specific for the Diabetes. Dr. Reuter thought very favourably of its use in this disease. He says it was frequently successful in his hands.

Dr. Horn used it with great advantage. His dose was from Dr. Chalmers, of South Carolina gave it to a patient labouring under this disease in a most violent degree four grains at bed time; which means he obtained a cure, he also cured a patient of Asthma in one night by giving her four grains of the powdered Cautobardis an hour before bed time. The patient evacuated in immense quantity of urine during the night and she sleeping immediately subsided.

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Cutaneous diseases. The Cantharides have frequently been used in Cutaneous diseases and with considerable advantage; Dr. Donald Moore used it with success in Herpes, Psores he also cured by them. A Physician whose name I do not find in my Manuscript has given the Structure of the Mucos Pissicatorius in the Hooping Cough with success.

Gonorrhoea and Obstinate gleet have often been cured by our Medicine. The following recipe I have found of infinite advantage in these Cases particularly in Gleet. Take of Sweeten'd Rhei three Drams, Gum Guaiacum an ounce and half Sweeten'd Cantharides three Drams, Spiritus vini 2℥ss of this an ounce can take a table spoonfull three a day I have used to treat of Quinitis obtained from the Mineral Kingdom.

### Salus Aetivie

or Aetivie Salts come to be considered, they are all Quinitis except the Mineral of Ammoniac. This is no doubt is best owing to its being so powerful an Urinary, we are not able to give it in such doses as to show its Quinitic effects, all the Salts with an Alkaline base are Quinitic, but those with a base of ~~alkali~~ ~~alkali~~ ammoniac Earth are not so.

Sal Quiniticus or Kali Aetivie I have little experience of this Medicine myself, but many other Physicians have recommended it highly. Dr. Astruc says he has seen it of use and from its having received the name of Sal Quiniticus

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be as certain of its being a powerful diuretic  
Pulvis Stramonii, Nitre or Nitrate of Pot Ash, might be  
arranged among the mixtures and I know it to be a powerful  
Stimulant, in large doses it induces, Strangury, Bloody Urine,  
Inflammation of almost all the contents of the Abdomen  
and death, Nitre disagrees with some persons, I know a case of a  
Gentleman in London who had a paralysis induced by taking  
a dram a day for an affection of his head. It is used in the  
Philad<sup>a</sup> Dispensary as an expectorant and found to be a very  
useful and powerful one. They generally give it in a small  
dose and frequently repeated.

### Camion Tartari

The Acidulous tartaric of Pot Ash is a very powerful diuretic.  
D<sup>r</sup> Home used it with Sump in Hydrops. He says that  
he never had a patient to whom that was bound by the  
Camion Tartari. D<sup>r</sup> Faurin gave it to ten patients labouring  
under dropsy, six were cured and the others relieved, it  
produced four or five stools a day and proved considerably  
diuretic, he disposed from one ounce to one and a half in a pint  
of Water and gave it all in the course of the day. D<sup>r</sup> Rush  
speaks very favourably of its use and I have several times  
used it with Sump. Physicians have for a long time used  
diuretics in the cure of Dropsy, but some have used Alkalis  
with this intention as well as Neutral Salts.

### Of Alkalis

Alkalis have been combined with Juniper Berries and

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Essential Oils with advantage in drops and they also  
been frequently combined with Opium. Dr. Mead was in the  
practice of giving Mucy drops of Sassafras with two Scruples  
of the Symplic Sassafras and an ounce of Water as a Haustum  
or draught at bed time, he found this practice very useful he  
says in curing Hydropic Affections. Dr. Cullen is not a loss  
to Account Effects of Alkali's

### Acid Muriaticum

Muriatic Acid has been used as a diuretic, I think it a useful  
remedy in Drops and believe that it may be admitted as  
many have said, but I am inclined to think that it is the  
Water which is taken along with it and not the Acid which  
proves diuretic. Dr. Cullen of this City uses it with Scrup in  
Dyspnoea Spontanea: It has been used as such but is  
not one. The Muriate of Soda is said to be a diuretic, the  
Water is so which is taken in with the Salt.

### Carbatica

Carbatics or purges are Medicines that produce an evacuation  
of the intestines per Anum. This is done by Stimulating them  
and encreasing the Action of the Muscular Motion thereof, Diseases  
Cold and Contagion frequently produce evacuations of the  
intestines by the same Means; Human Scars Cases to be  
met with upon record of persons having had a Stool by  
being made to walk over a Cold pavement, after Carbatics  
had been administered without effect for several days.

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In a Case of Cholera Pitomum when Cathartics have  
failed to produce the desired effect, the use of the Cold Bath  
and Showering Cold water over the body immediately procure  
a Stool. Dr. Cullen divides Cathartics into two kinds or Classes.  
The Cathartica Acris and Mitiora. The effects of Cathartics  
are various. They first Stimulate the intestines and produce  
an evacuation of the intestines. In health a Stool once in  
twenty four hours is the natural Standard, but there  
are some Variations for a number of persons in perfect  
health go two three and even four days; Costiveness is in  
general injurious but there are some Cases in which it is not  
injurious for instance in Syphilis Mition when the patient  
is low and weak but in every other febrile disease it does harm.  
In Syphilis I ever generally Open the bowels gently in the  
first Stage, but in the Second and Third I am indifferent  
whether they are so or Not. Many persons are naturally  
very Costive and do not have a Stool unless they take a  
Cathartic, habit has a great influence on the peristaltic  
Motion of the intestines for if a person regularly goes to  
the pump every day at a certain hour whether he has  
an evacuation or Not, he will acquire an evacuation every  
day at that time. I would advise you to read on education  
for the notice which he takes of the advantages of Habit  
and its influence on the bowels in preventing Costiveness.  
You should Study this Subject diligently and attentively,  
as you will be frequently consulted upon this Subject.

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## *Rheum Palmatum*

of Linnaeus commonly called Rhabarbar or Rhubarb is one of the best remedies with which we are acquainted as a Cathartic. The dose is half a dram for an adult, and it is frequently necessary to give a dram but in Children half the number of adults a Scauple will be sufficient. It is a bitter and therefore of use in debility of the Stomach and intestines. Rhubarb has some Astringents in its Composition or Substance, it clogs the Urine but does not prove diuretic according to P. Cullen, but I think I have seen it prove so, and Piso expressly says it effects diuretic effects, it has been used in Jaundice, Homosiphilic old Men with the root finely powdered to make them granulate.

## *Triosteum Pupillatum*

of Linnaeus sometimes called bastard Specularia is as good a Cathartic as Rhubarb, the bark of the root is given in doses of twenty or thirty grains given in very large doses it sometimes proves emetic hence its name

## *Asclepias Deumbens*

of Linnaeus commonly called Plains root, May root, Butterfly root. I have used it with advantage in doses from twenty to thirty grains of the root in powder as a Cathartic. The powder is also to be used as an expectorant in *Tungus Europaeus*. I believe this and not the poke as has

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Been supposed is the plant employed. I have used it with  
advantage in dysentery, a great deal has been said about  
the virtues of this vegetable in Plurisy.

### *Polygala Seneca*

I saw considerable Cathartick, but I have put into the  
Class of diuretics when it best belongs, it is not anointed  
with advantage amongst the purges.

### *Oleum Ricini*

Is the oil got by expression or boiling from the Seeds & Nuts of  
the iuvenis Communis of Linnaeus. The dose is about four  
drams, but some require an Ounce sometimes two or three  
but these Cases are rare and depend upon a peculiar  
Idiosyncrasy, it is used in Cholera Picotum and in  
dysentery, Children take it in Molasses, and adults in Wine  
or Brandy. The following is the formula in which I gave  
it in Cases of Dysentery. Take of Oleum Ricini two ounces  
Saccharum et Gum Arabic of each three drams, Mice et  
beni tritae tunc addo ~~Aqua Sicta~~  $\text{Z}^{\text{iiii}}$ . Sinctura Opii  
Sixty drops, of this Order them to take a table spoonfull  
every two or three hours. In Hemorrhoids the Oleum Ricini  
is the best Cathartick that can be given the Castor oil is a  
mild, usefull and agreeable purge.

### *Capsia Senca*

Folium. The leaves are generally used by the Common people  
it is an Acria Cathartick.

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## *Cassia Marylandica*

This possesses the same virtues the Official Senna does, it is used as a Cathartic in different parts of the United States, and many of our Apothecaries substitute it for the Official Senna.

## *Juglans Cinerea*

An extract prepared from the inner Bark of the bitter nut walnut has long been used as a Cathartic in the United States. The dose is about ten grains for an adult.

## *Helleborus Niger*

Grows in the mountainous parts of Switzerland and Austria it is a perennial plant. Flowers while the snow is on the ground in December sometimes in January. The dose is from ten grains to half a dram as a smart Cathartic.

## *Convolvulus Salapium*

or Salap of Lima is a Gum Resin, the Gum is little Cathartic but the resin is powerfully so. Dr. Cullen says that when mixed with the extract of Sassafras it does not grip and that when mixed with hard Sugar it is an excellent remedy for Children, but for my part I do not think it at all adapted to Children. For an adult it is an excellent Cathartic in doses of from ten grains to half a dram for a Pennsylvanian. Extract of Salap contacts the Gummous and resinous parts, the dose is from four to 12 grs. The Tincture of Salap made with good proof Spirit is a good Cathartic in the dose of from one dram to half an oz.

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Salap combined with Calomel has been used in dropsy and yellow fever, but Rhubarb and Calomel better adapted to malignant fevers than Salap.

### *Podophyllum Peltatum*

of Linnaeus, called May Apple, Mandrake, Ipecacuanba, Wild-Cornus &c in the United States. The fruit is delicious it grows in Pennsylvania, New Jersey, New York, the root is the part employed in medicine. The leaves are acrid and poisonous, causing sickness at stomach, vomiting, delirium, great debility. I have used the root of the May Apple in the Dispensary of this City, in doses of a Scruple and twenty five grains for an adult freely produced, in the Yellow fever. I have often given a combination of Crystals of Tartar and May Apple of each thirty grains with the effect of generally producing Cathartics a combination of *Podophyllum peltatum* of each twenty grains is good in yellow fever. The May Apple does not induce Costiveness after the Cathartic effect is gone off as some do especially Rhubarb, it sometimes Grips but all Cathartics do occasionally even Castor Oil, many medicines gripes when given in combination that do not alone. This Cathartic is one of the best that can be used when given in combination with Calomel in the yellow fever, it seldom grips when I mix a the dose of this medicine is less than that of Salap or Rhubarb and not so disposed to gripes moreover it is nauseous. *Cholia Pictorum* or



By belly ache. The root being and then immersed in boiling  
water and with Hand to digest for four days. This is to be  
Sweetened with Molasses and the patient is to take a sufficient  
quantity to operate several times. Dr. Whitt used this  
prescription it was his famous Secret for curing Colic  
Pituitum, the Anodyne effects of this Medicine are very evident.  
The root acts sometimes as an Emetic especially in large doses.  
Schaefft in his *Practica Medica* says Radix. 4. *Podophyllum*  
*pubertatum* est Emetic. Catty says it is used in South Carolina  
as an Emetic but is owing to its being used in large doses, that  
it has proved Emetic, or when the Stomach is very irritable.  
The Cherokee Indians use it as a remedy for Worms, every  
medicine that purges or purges has occasionally expelled  
worms, but it is not from the occasional effect or action of  
them that we should give them the Name of Anthelmintics  
we are not acquainted with all the worms that infect the  
human body or intestines. Some are found in the Stomach  
others in the intestines they are very common among the  
Indian Children.

## Sulphur

Sulphuris Flores or the flowers of Sulphur is an excellent  
Cathartic very moderate and gentle in its action, it is given  
in doses of from one to three drams it is frequently joined  
with Gum or Tartar and given as a gentle Cathartic, it is  
supposed that neutral Salts to relax the intestines does not

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Operate tridently on Gripe. Cullen says it is a good laxative acting only on the large intestines. Physicians have disputed whether or not Sulphur is ever or not absorbed into the Circulation. Some say it blackens Silver Watches in the fobs by the volatilization of part of the Silver Sulphur which rubs on the Skin and not by any other way. It is sparingly soluble in the Human fluids. Read P. Sydenhams Observations on it in the Medical Repository of New York.

### Siliquosa

Some of this class of vegetables are cathartic. Sinapi Semen the Seed bruised serves but when bruised they are not so good as a cathartic none of the whole Seeds from Oats to turntable Spornful; the bruised Seed frequently serves

### Bile

The bile was formerly used as a cathartic. I have no opinion of its use, and think it ought to be out of all Dispensarys. it has been used in Catarrhs and other affections of the eyes in their first commencement. D. Home says it is of use in their first commencement.

### Subinfrinate

all the Subinfrinates are more or less cathartic and many of the Balsamia are likewise.

### Convolutus Scammonia

of Limous, Scammony has been used in Palsy and

*[Faint, illegible handwriting covering the page]*

Apoplexy. The dose is from two to twelve grains; it is a very violent and drastic Cathartic, perhaps the Sweet Potato would afford it.

### Gambogia

There are three Species, but the one used as officinal is the Gambogia Gutta of Linnaeus. It is a very important Cathartic. The three grains made into a pill with some Mucilage.

### Cucumis Colocynthis

of Linnaeus, Colocynthis. The pulp is used, it is a name as bitter taste and Gummos, it is a Species of Gourd, the dose is from one to four and eight grains, but it is seldom given by itself, as it is one of the most powerful and violent Cathartics. Colocynthis and Scammony and Scammony each takes Oil of Cinnamon 10 drops, rub them well together, of this a patient an adult may take four grains in Sugar and Water as a small purge.

### Saline Laxatives

There are very numerous, but the most important are Sulphas Soda Sulphas Potasse, Soda Phosphorata &c. with which you are as well acquainted as I am, that as they disagree to some persons, to take Lemon Juice or Gum of Sassafras makes them agreeable and palatable. Sal Catharticus Armen is a very good Cathartic much used in Europe but seldom here.

### Menagoga

These are Medicines suited to promote the menstrual discharge

Dr. Barton mentions, assisting in some Experiments made on Rabbits, with this Root; and which it very generally produced Abortion, but when it did not the bodies of the young, were incidently coloured. at Edinbrough Univ. 1787.

which Ours in the female Sex; these Medicines frequently  
disappoint us in our expectations of Success.

### Apartitida

This is one of the best emenagogues, it is frequently used and  
in large doses.

### Crocus Sativus

Saffron is not a very powerful emenagogue and therefore  
seldom prescribed by regular practitioners.

### Castoreum

Castor has been frequently used with Success when the pulse  
was low and weak and the System relaxed, the dose is from  
two grains to a dram.

### Hydragyrum

This is a most universal Stimulant and can be given  
in Suppression of the Menses with advantage but we  
seldom give it.

### Rubia Tinctorem

Madder has been frequently used, Dr. Home of Edinburgh  
used it. I have used it with manifest advantage in doses of  
from half a dram to a dram one two and three times a day.  
Madder certainly possesses very considerable power, more so  
than it appears to exert on the System, I have known it to  
occasion miscarriage, although it is commonly given in  
half dram and dram doses, yet it may be given to the amount

Dr. Barton mentions the case of a woman who died of  
Pthrosis, produced by being in, or from Abortions, by means  
of a strong infusion of this Vegetable.

of half an oz or more three or four times a day.

### *Rhina Ricinua*

Raw Seed. This is a very powerful emagogue. This is a plant of very great power and produces abortion if given in very large doses, for which it is used by the Negro Women in the West India Islands.

### *Linum Sabinum*

of Linnaeus. Sabin has been used since the time of Galen as an emagogue. I have used it in powder, Tincture and the Oil. The last is certainly the most powerful. Dr. Whipple says that old Dr. Mounie washed the Uterus of venereal patients with a decoction of Sabin and found it very useful.

### Electricity.

There are three methods of Applying Electricity for the cure of diseases by insolation. 2<sup>d</sup> Sparks and 3<sup>d</sup> Shocks, the last especially when received from a charged Plate is the most dangerous. It has the effect of encreasing the pulse in force and frequency excites the action of the absorbents, produces encreased heat and Sweating. Strong Sparks drawn from the Skin and repeated often for a long time will induce Vesication. Shocks when too strong will bring on Apoplexy, drawing sparks pretty strongly from the tumours which are called Cancerous Glands will make them suppurate. It has been used as an emagogue with success especially when the Sparks are drawn from near the Uterus and Labia Extrema, but

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care must be taken that they are not too strong. Gentle Mercurials are to be employed. Activity has been used in Ophthalmia with success; and in Gutta Serena, Rheumatism, Palsy and has been tried in Epilepsy and Cataplexy.

### Exercise and diet.

Well regulated exercise and diet are the best remedies and without which medicine will not exert much good effect.

### Anthelmintica

Medicines that expel ~~the~~ worms from the Human body. The Serica are found in certain waters in Siberia, Ascarides are found in a New Soil, but the Lumbrici are never found out of the Human body, several circumstances tend to prove that all worms are obtained from without and that they do not generate in the first instance in the Human body, they are frequent in malignant fevers. Mr. Bouverie says that the Abyssinians kill and evacuate every month a great quantity of Ascarides. They kill and discharge them by the direction of Cusco. Vallisneri thought worms were bred in utero by the placenta and the milk from the mother to the Child, and so passing from generation to generation. Mr. Spallanzani says he saw worms in Semen. He called them Vermiculae Linnæus also saw them he says in the blood of the calf. There are four kinds of worms that infect the Human body. The Lumbrici, Seris Asper, Serica, and

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*Succutitina*. The round Worm and ascariides are generally found  
in Children, the *trichinella* the *Stomat* and *Small* intestines.  
The ascariides, however *trichinella*, the *rectum*, Children seldom  
have worms while Sucking, but this is not always the case  
I have known several Sucking Children that discharged worms.  
I have known the *lumbricoides* to be found in the *bilis duct*  
and *caecum* also the *Scia*. The symptoms of worms being  
in the body are frequent Scurging, frequent wind passing  
pains in the abdomen, livid or Lead colour a complexion,  
attended sometimes with fever and frequent flushing at  
other times without fever but with a cold Chills, Startling in  
the Night, Striking breaths, Vomiting, rubbing the nose,  
belly band and swelling sometimes. Epilepsy Hydrophobia but  
most frequently Hydrophalus Intermis, they are in  
general very fond of bread and Sugar. Dr. Home says that the  
only pathognomic symptom is a swelling of the upper lip  
and also pain of an *edematous* nature. This symptom more  
decided yet says (Benton) Ascariides when in the *rectum*  
occasion intolerable itching in and near the Anus especially  
towards evening. Almost all kinds of Animals are Subject to  
Some kinds of Worms, when foules have Worms The  
Country people say they have the pip. Hogs carry their  
heads to the ground and poke when they have worms.  
I come now to treat of the particular *Anthelmintics* and

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juicy the *Spigelia Marylandica*.

In a purgative Plant, all the plant, is used but the root is much  
the strongest, it is a very safe Medicine and the best and the  
"milder yet known, not Nauseous, it. Sometimes purges and  
occasionally proves laxative, A Dose of the powdered root  
for a Child is twelve grains if it is three years old, if one  
the third of the quantity, and for an adult from one dram  
to one and half in Substance, in general large doses are safer  
than small ones, it sometimes induces dilation of the pupil.  
pain in the Head and Convulsions; Combined with  
Virginian Snake root it generally moves the belly. I say  
it is a very efficacious Medicine as it seldom fails, the root  
ought always and the top ought never to be employed, for  
the root is three as strong as the top. Carolina pink root has  
been very justly celebrated as a Vermifuge Dr. Living of  
South Carolina speaks highly of it. Dr. Barton is of opinion  
that there is something very delicious in the *Spigelia*, Hodge  
Thompson in his inaugural Thesis attempts to prove that  
it is not delicious but he makes a sorry band at it and  
by no means proves it. *Spigelia* when given in very large doses  
produces convulsions, very frequently irregular motions of the  
balls of the eyes, Strabismus &c Some of our Apothecaries say  
that their effects are produced by a fine but twines round  
the stalk of the *Spigelia* and that if you are careful to  
pick off the such effects follow the use of the Pink Root,

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*Helleborus Scoticus*

or Bears foot. The leaves when reduced to a fine powder and given internally in doses that excite vomiting prove to a be a powerful antihelmintic. It is the best for Children. Dr. Whyte used the powder of bears foot and Ethiops Mineral mixed together, this was his celebrated worm powder, it is a very Common plant in Maryland.

*Geoffea Inermis*

of Lemnias commonly called Geoffea or Sabbage tree. The bark of this tree which grows in the low Savannas of Jamaica, is of a grey colour externally, but black and furrowed on the inside, it has mucilaginous sweetish taste and a disagreeable smell. It is given in Cases of Worms in form of powder, decoction Symp, extract. The decoction is prepared and is made by boiling shavings or ounces of the fresh dried Bark in a quart of water, till it assumes the colour of Madeira Wine. This decoction is the Symp evaporated it forms an extract. The Geoffea purges and purges, it is in my opinion a very efficacious remedy. Dr. Rush says it never fails.

*Polypodium vulgare*

of Lemnias. Polypody; the root. Male fern is a capillary plant, growing on old walls, the trunks of decayed trees. That found upon the oak is generally preferred, though not sensibly different from the others. Poly Pody has been employed in Medicine for many Ages notwithstanding its virtues yet remain to be determined.



Madam Brian a Swiss Lady used it with success in Tenia  
and thus acquired a great reputation by her skill, warm  
medicine that the Government purchased the secret of her, it  
is certainly a powerful anthelmintic and destroys Tenia very  
soon, the taste is mild and gently astringent, it seldom  
purges, the day after the exhibition of the medicine the patients  
should take a cathartic, very few animals will eat of the  
Poly Podium, the dose for an adult is from a scruple to a  
dram and an half, the best Poly Podium vulgaris is to be  
met with in many parts of Pennsylvania and New Jersey

*Dolichos pruriens*  
of Linnaeus. Cowhage; the rigid down of the pod, the dolichos  
is a plant growing in great abundance in warm climates, the  
rigid down of the pod is scraped off and made into an  
electuary of which the patients take according to the strength  
so that an adult may take one dram of the Dolichos at a  
dose, the action of the cowhage is certainly mutansive for  
it does no good when given in Simples, infusion or decoction  
but when given in substance it is an excellent Anthelmintic.  
The Spicula of the pod irritate and pierce the skin of the  
worms, thereby destroying them, it can notwithstanding  
this property be given with advantage, but we must be  
careful not to exhibit it to persons whom we suspect to  
be labouring under diseases of the intestines or who have been  
deprived of the Mucus of the intestines or inflammation, or  
in cases when we think there is any inflammatory action

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*Thuis. Plum Ricini*

has been frequently used as an Anthelmintic and I have no doubt has often evacuated Worms, but it may be doubted whether there is any thing in Castor Oil detestible to Worms, on the contrary it may be said that it discharges them by merely acting as a Cathartic, for it is a pretty certain fact that all Cathartics will occasionally discharge Worms.

*Fabiana Officinalis*

Fabian has been very frequently employed as an Anthelmintic and has certainly contributed to eradicate the Worms, from those who have taken it in a considerable degree, Fabian has long been used in Epilepsy and it occasionally effects a Cure, which does so I believe it does by expelling or destroying the Worms which occasionally are the cause of Epilepsy. Friend Mr. Scipius's Son with it he discharged an enormous quantity of Worms.

*Aloes*

The deep red or brown Juice of and very bitter Juice of the *Aloe purpurata* of Linnaeus, aloes when given internally can only operate as a very bitter Cathartic in destroying Worms but of late it has been used with Sump in Ascarides, two Sumples of Aloes are cutted down and very intimately mixed with ten or fifteen ounces of Milk and given as an injection: when used in this manner it seldom fails of effecting a Cure.

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## Hydragyrus

Calomel is the preparation of Mercury which is best adapted to destroy and discharge Worms from the intestinal Canal, and I can say from experience that it is a powerful and effectual remedy, as Children of any age may take it with safety. it destroys the round Worms very certainly and frequently all the other kinds, Corrosive Sublimate is sometimes used, it is mixed with water and the Muriat of Ammoniac, and given according to the age and strength of the patient. occasionally half a dram Sublimate is mixed with a sufficient quantity of bread or Mincage and then of use and made into 240 pills of which the patient is between five and fifteen may take one pill night and morning. Adults can take two, and Children half a one according to age strength and Habit of the patient and the obstinacy of the disease.

## Tannum

The powder of Tin was formerly used in Worms but we now seldom employ it, it is said to have been of Service, the dose is from a Scruple to a dram. Dr. Weston gave half an ounce, it certainly does sometimes destroy Aenia and when given they do so there can be no doubt this action is entirely substantiated as the Solichos.

## Muriate of Soda

Common Salt has been used for some times as an Anthelmintic, Salt water has been given to Children and to adults in great



Quantities, with the effect of bringing away enormous quantities  
of worms, to a Child aged five years I gave two pounds of Salt  
water, it puked and purged her violently, but discharged  
upwards of One hundred large round worms. Two pounds of  
Salt put into two gallons of water and giving two pounds of  
R. Solution daily has succeeded in discharging worms after  
the failure of some of the most celebrated Anthelmintics.  
I have sometimes put two pounds of Salt in two quarts of water  
and given one half at one and the remainder in two  
pours to an adult or person above twelve years of age. In  
One case to whom I gave it in this manner it puked and purged  
him violently, but discharged an enormous quantity of worms  
(of the Cucurbitina) Injections of Salt and water do very  
ascarcely.

### *Melia Azedarach*

of Linnaeus who places it in the Class of Decandria Monogynia  
and genus Melia, he mentions five Species to wit, *Melia Azedarach*,  
*Melia Sempervivens*, *Melia Azedaracha*, and *Melia Thujapoa*.  
The medicinal Virtues of the *Melia Azedarach* resides in the root it  
is given in Substance and Satrated duration, the last is  
certainly the best Method of exhibition, it is a very useful and  
powerful Anthelmintic. Read DeWalls Thesis upon it.  
I would advise some of you who are from the Southern States  
and intend to graduate here to turn your eyes to it and to  
make it the Subject of your inaugural dissertation, it is true

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That Dr Dewar of Maryland has wrote a very ingenious  
Thesis upon it, yet the Subject is by no means exhausted, much  
remains to be known concerning it.

## Februm

Iron and all the Class of Solids have been too much neglected  
in the treatment of Children labouring under worms. Bark  
ought often to be used for we find them frequently thin and  
emaciated without Appetite and digestion in which case  
Solids are necessary.

## Diet and Regimen

The Diet and regimen of Children afflicted with worms  
should be generous meat of different kinds, Butter &c.  
Their drink should be Pot Wine, Syrus W and eat large  
quantities of Sugar. Rosenstein used a great deal of  
Salt in his Worm Patients.

Dr Barton informs us that Dr Anthony Follegile  
has used Citric Acid with much Advantage  
in Hydrops Pectoris



## Valuedictory Lecture

This Gentlemen I have endeavour'd to give you an Account of the  
Art of composing the Materia Medica and if I have failed in  
any part of my duty it has been from want of time, of health and  
of ability not of inclination. I would add a few words of advice to you  
on leaving this University: you should be students all the days of  
your life, read think and observe. Observe read and think, you  
are plac'd in a new Country where every thing is new and peculiarly  
interesting. The Volume of Nature lies open before you, it has never  
been perused, but by your Assistance the knowledge of the natural  
productions of our Country will be greatly extended; and travellers  
will no longer upbraid us with an utter ignorance of the treasures  
which an all-beneficent Nature has so largely bestow'd upon us;  
Genius without perseverance and industry, is of little Account, it is  
like the Meteor which we gaze on with wonder and delight for  
a minute but soon is seen no more, while Industry is like the  
little rills which run together to form a noble river, at first  
they are insignificant, but by frequent additions the Stream  
enlarges and gradually swells into a noble and gigantic  
river whose undulatory waves convey magnificent Ships laden  
with the produce of fruitful Soils to the Ocean and from  
thence to foreign Climates, so with industry, it slowly but  
gradually acquires strength and force which is perseverance  
and tasting. I would therefore advise you never to despair

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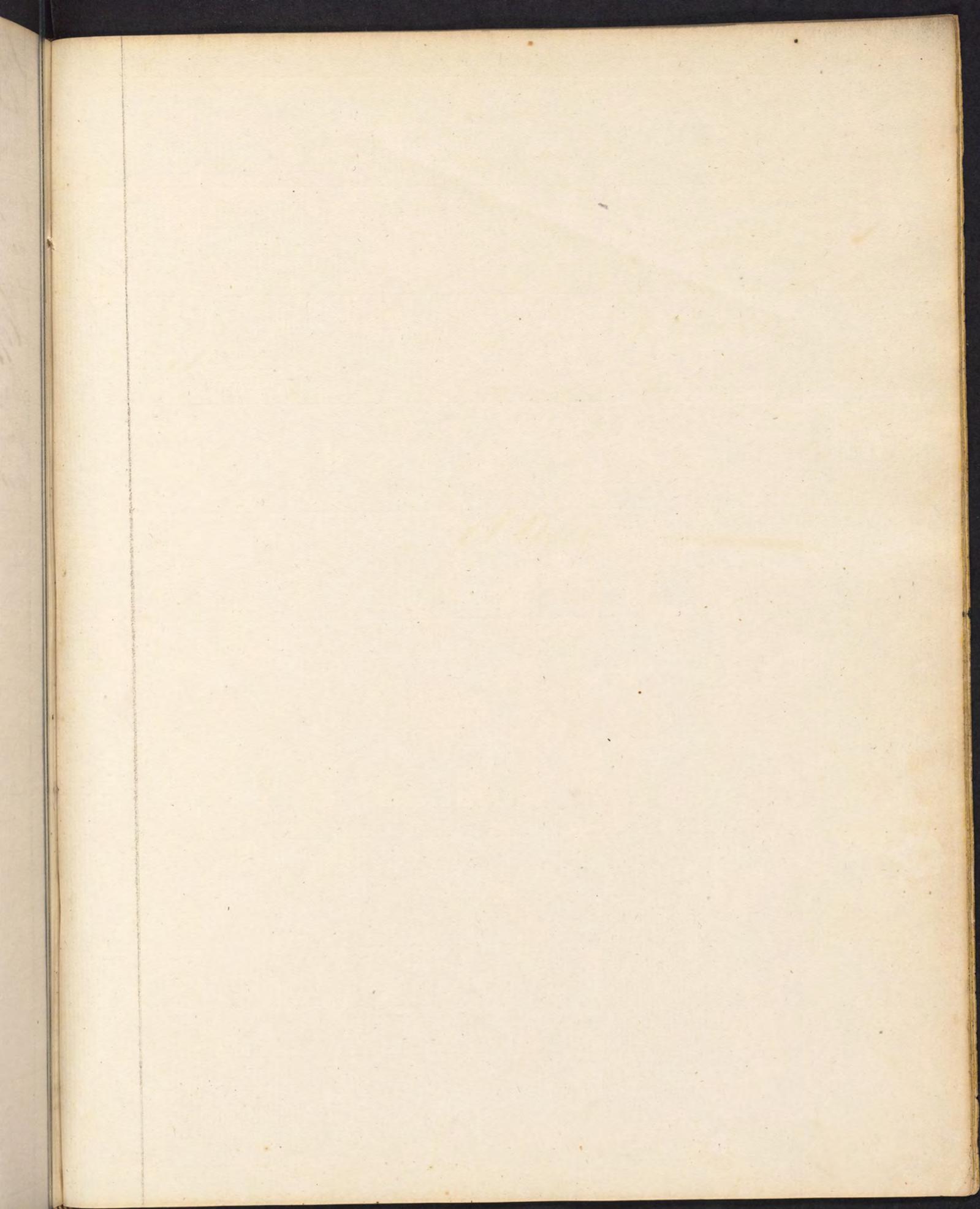
Although you see the man of great abilities far exceed you  
in the faculty of acquiring information for that great facility  
itself, makes him careless of Application and singular in Study  
so that you will exceed him in acquiring Knowledge by means  
of constant perseverance. I would therefore advise you to read  
and Study much. try to collect your Ideas and arrange them  
into a System of Some Sort having a System facilitates the  
acquisition of Knowledge, for Nature seems fond of Systems, read  
and Study the System of Authors, and pay a particular attention  
to choosing the good from the bad parts thereof. forget not the  
beautiful but painful System of Dr. Brown. I should thus  
Gentlemen endeavor to present you with a Specimen or rather  
outline of the Materia Medica and enumerate some of the  
properties and Component parts of Vegetables thereof, and their  
Application to the cure of Diseases: For the discovery of new and  
valuable Medicines your Situation is peculiarly interesting  
and happy. In the pursuit of one of the most dignified and  
useful of all the Sciences, you are plac'd in an extensive Country.  
The productions of which have now been investigated with  
accuracy or with Deal, from this School (the University of Paris)  
I will venture to call it the fountain of Salubrity of our Country,  
you are to spread yourselves over the happiest and one of  
the fairest portions of the World. In whatever part of this  
vast Continent you may be plac'd, you will find an abundant

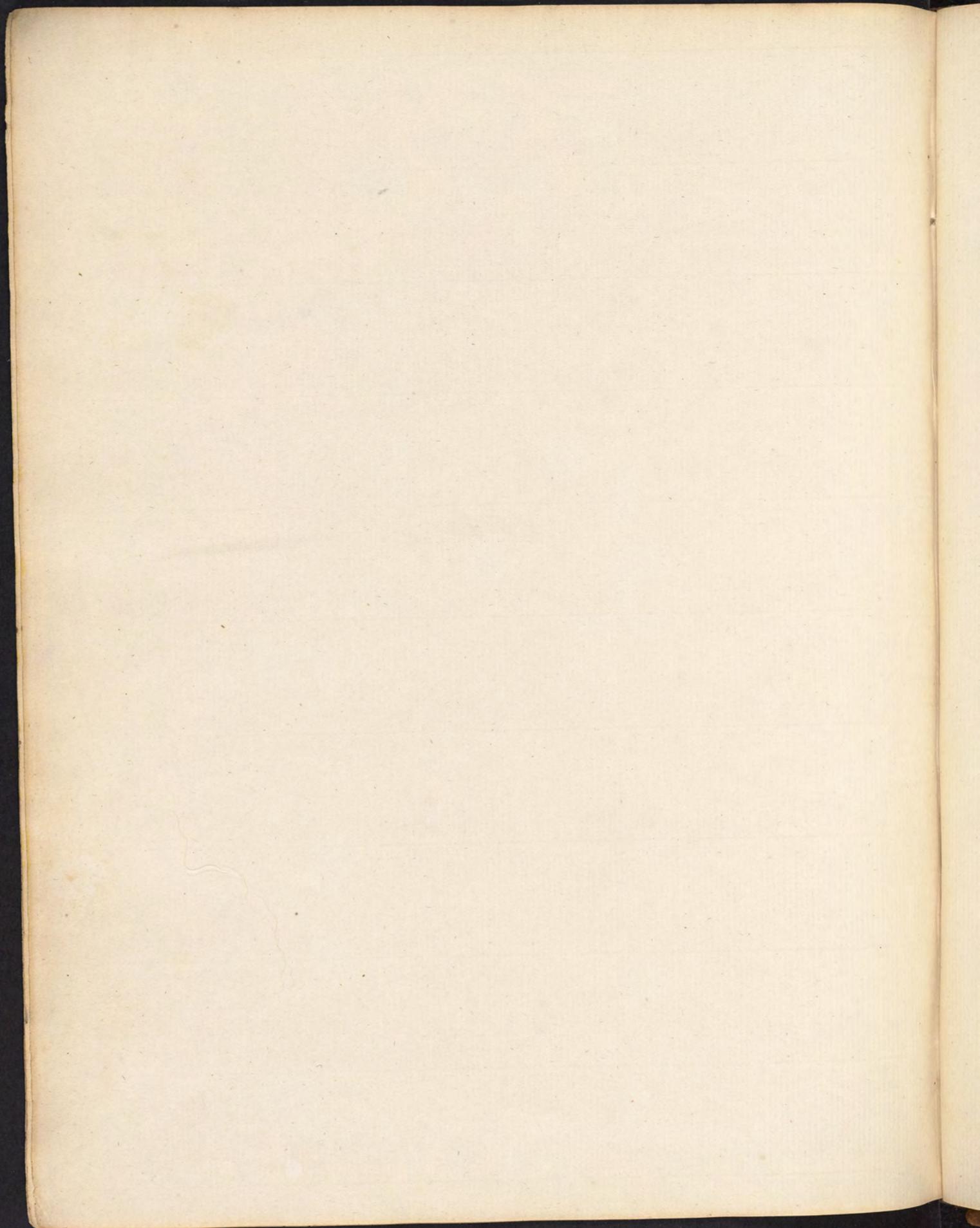
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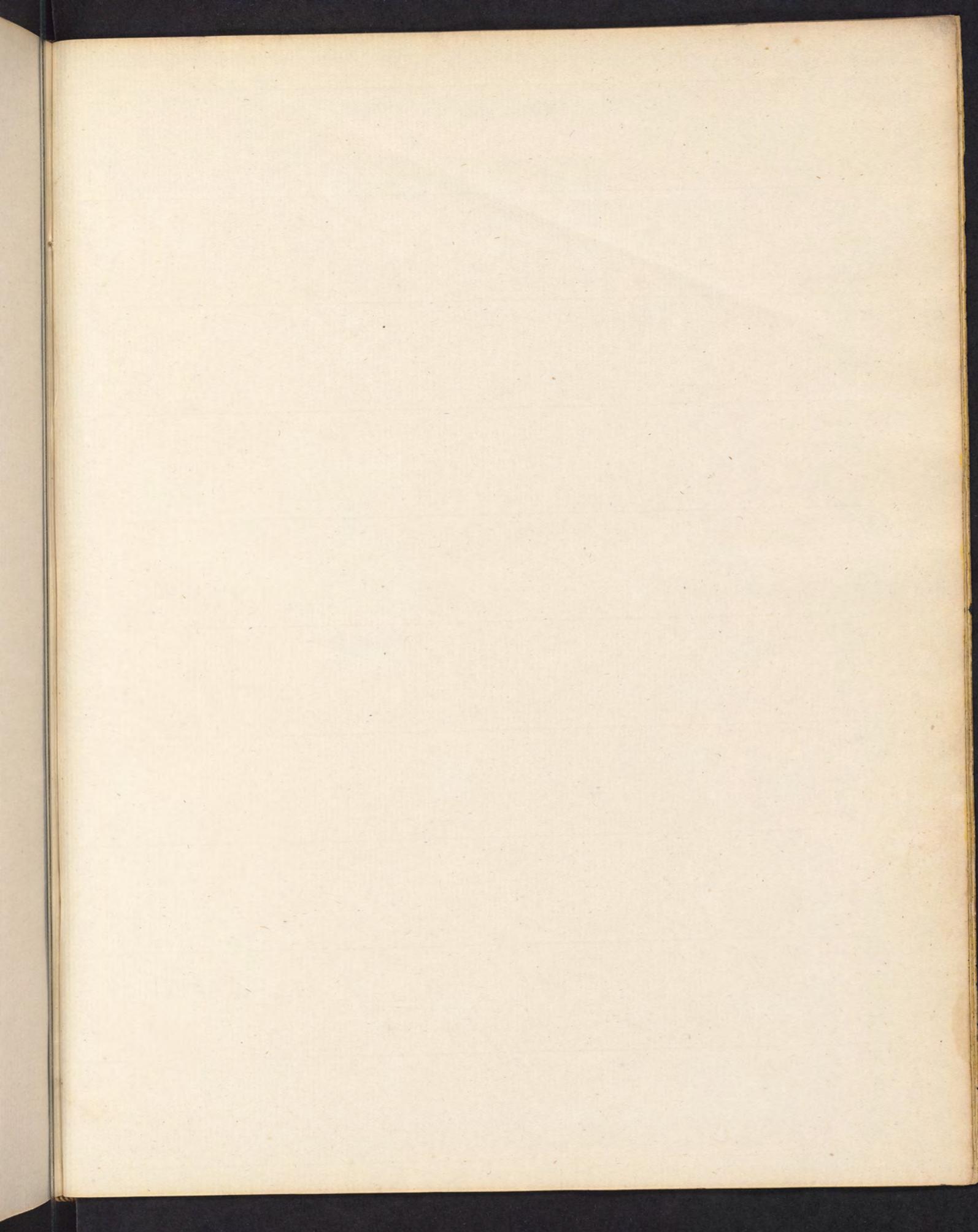
Field of no and interesting matter to reap in. May I not  
flatter myself that amongst the number of those whom I am  
now addressing. There are some of you for whom Medical discoveries  
of importance are reserved, discoveries which would instruct  
you that which is much more to us, in this mixed scene  
of affairs. Our Happiness that is embosomed in the  
Happiness of our Country and the World.

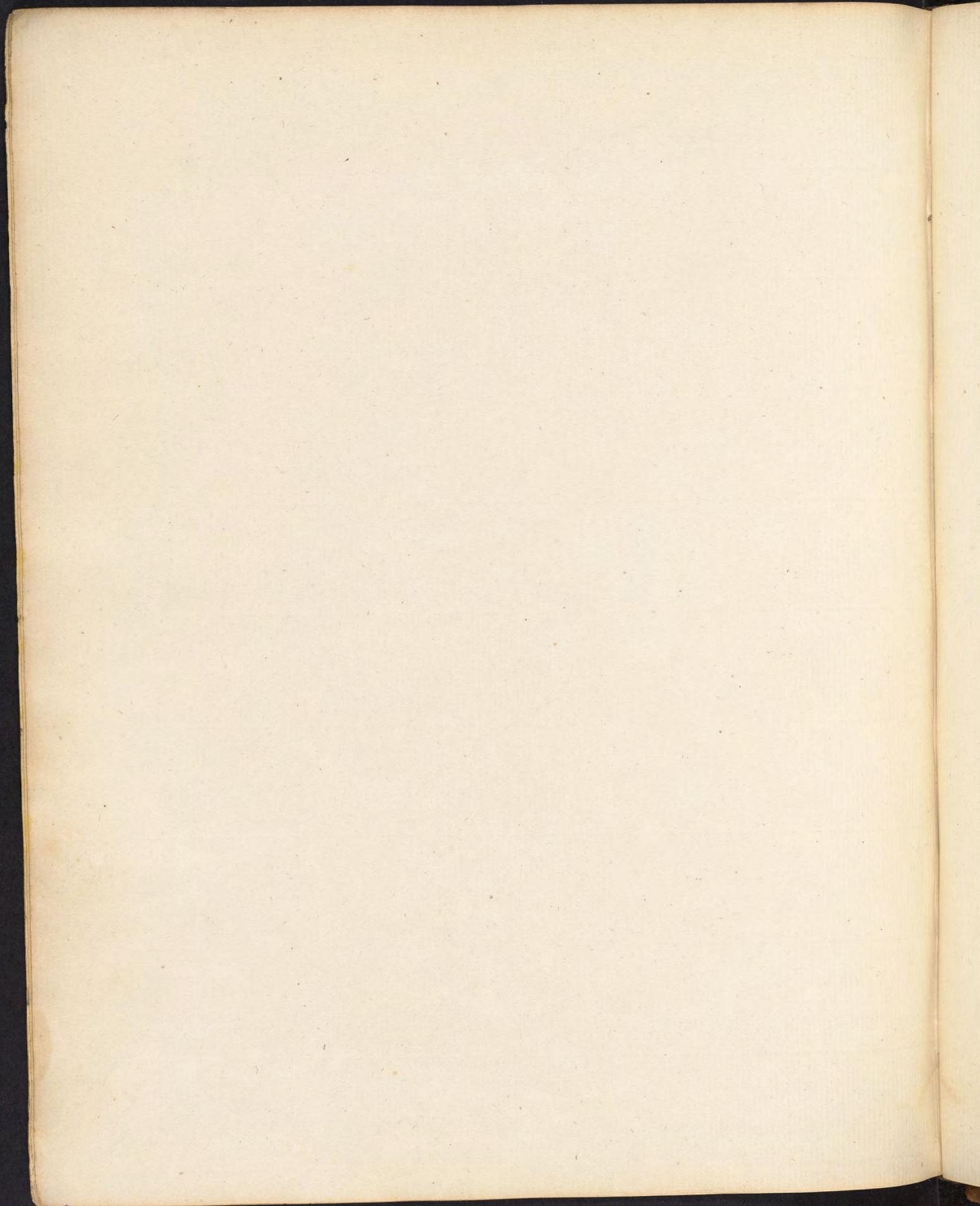
May all your attempts be crowned with success and may  
you reap and wear desired Laurels at the temple of Fame  
with this Adieu your tender  
Adieu *Munc exegi opus.*

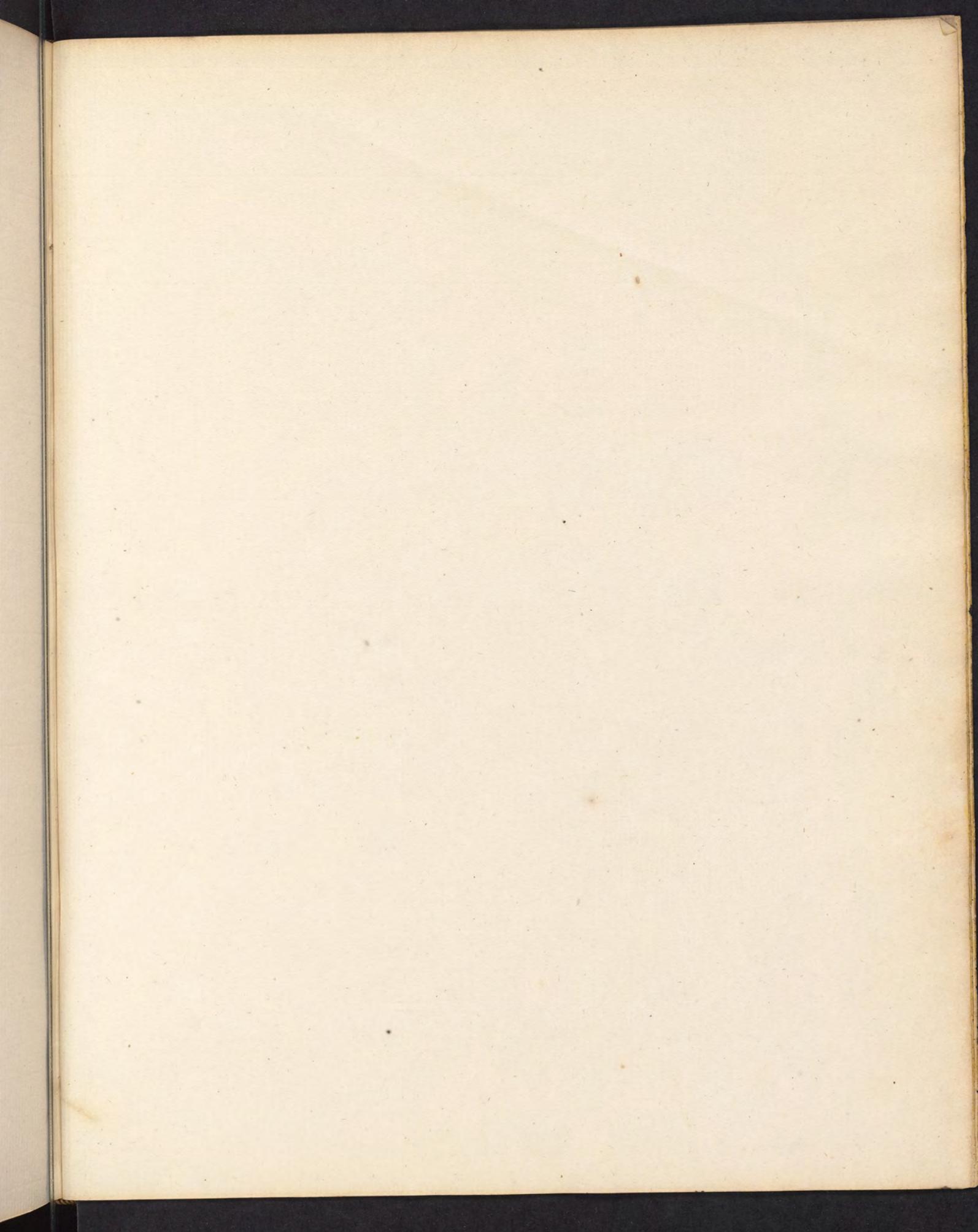
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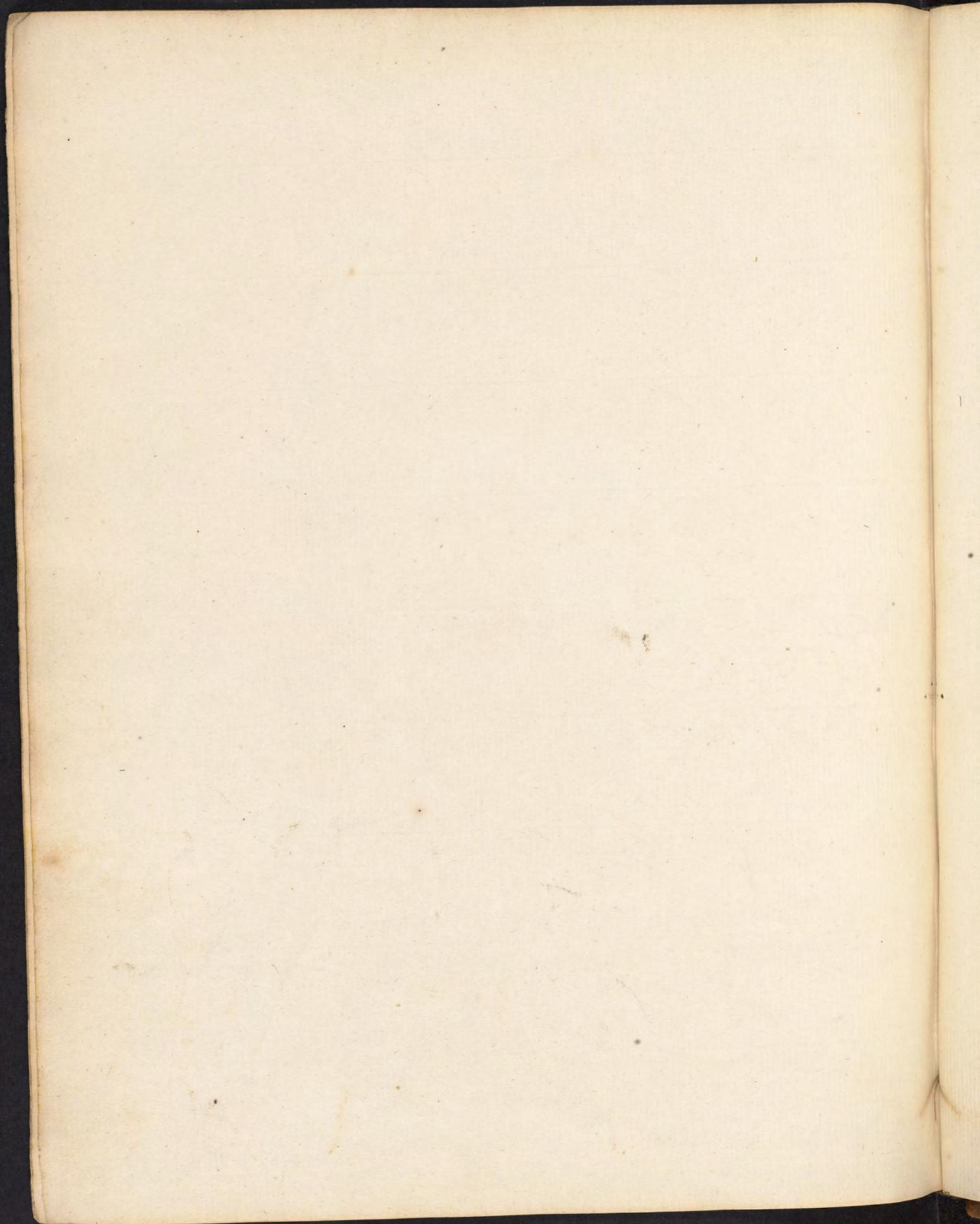


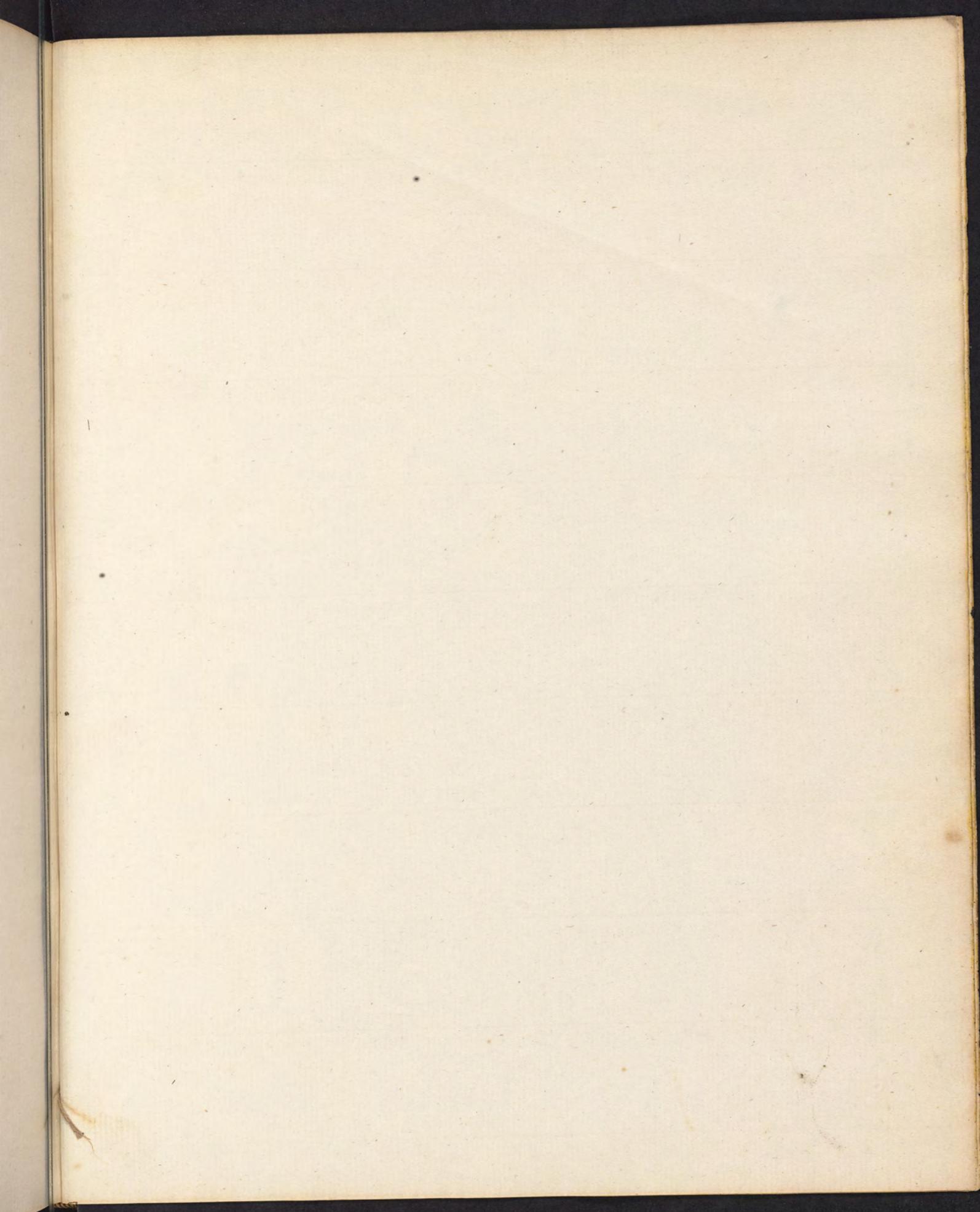


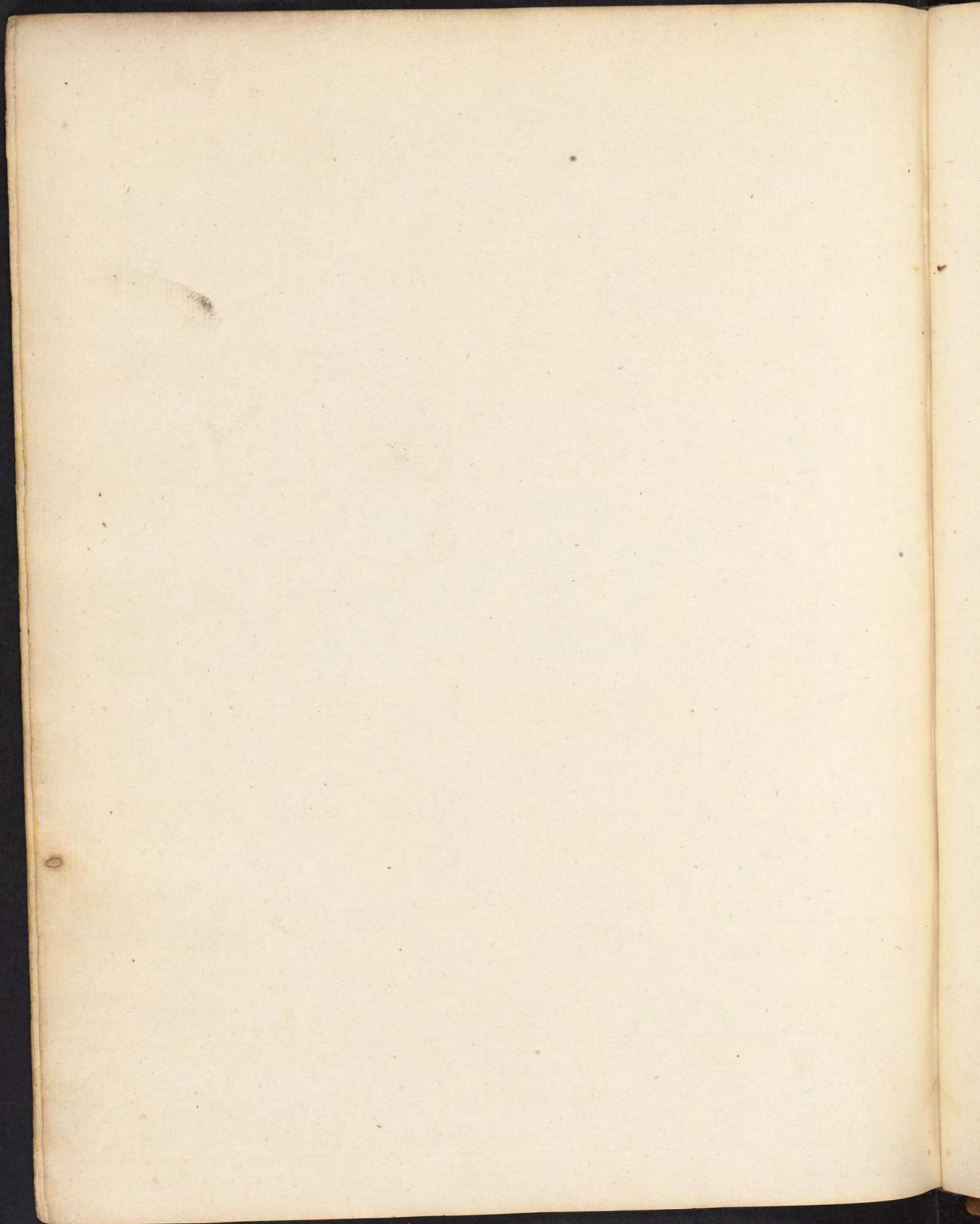


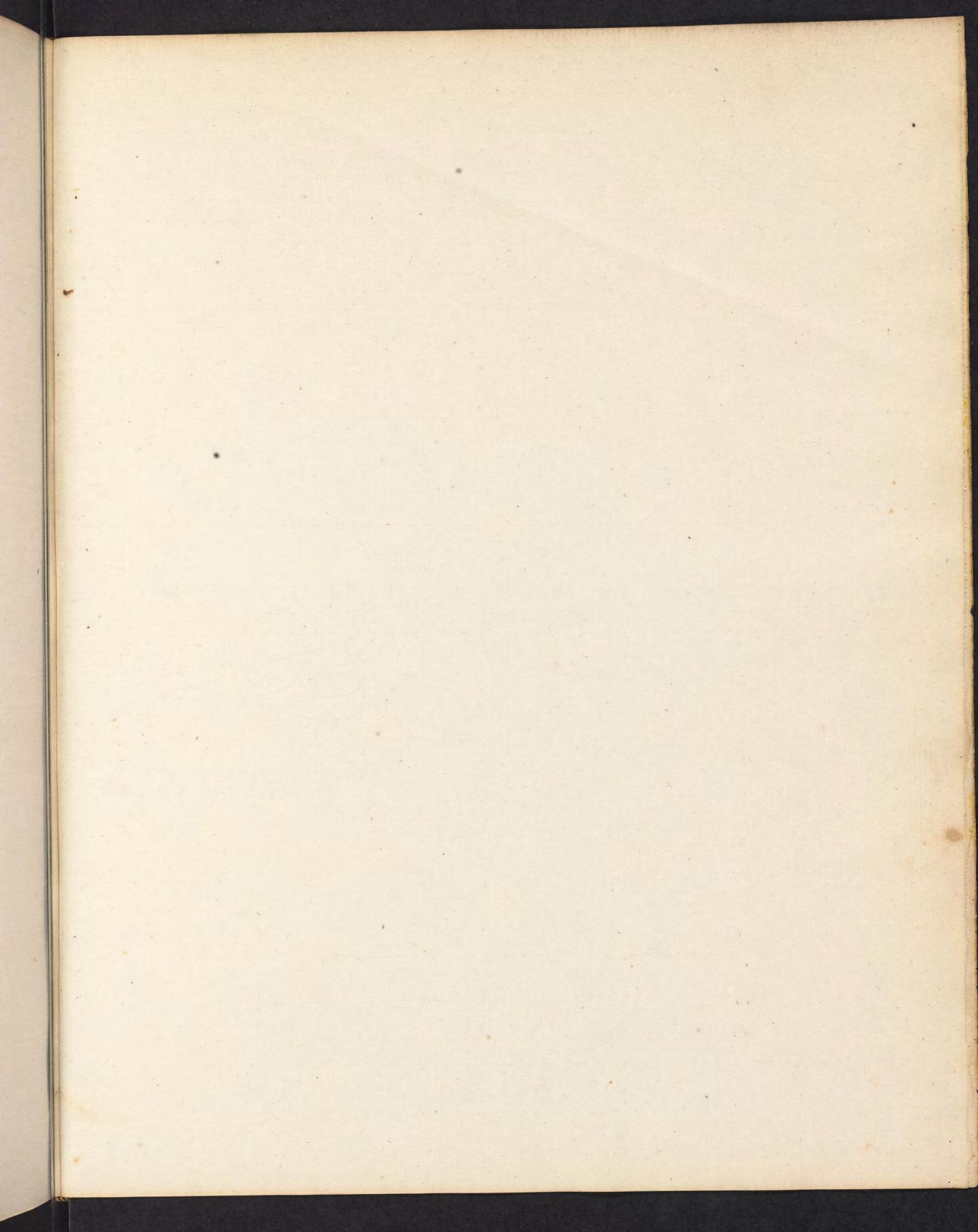


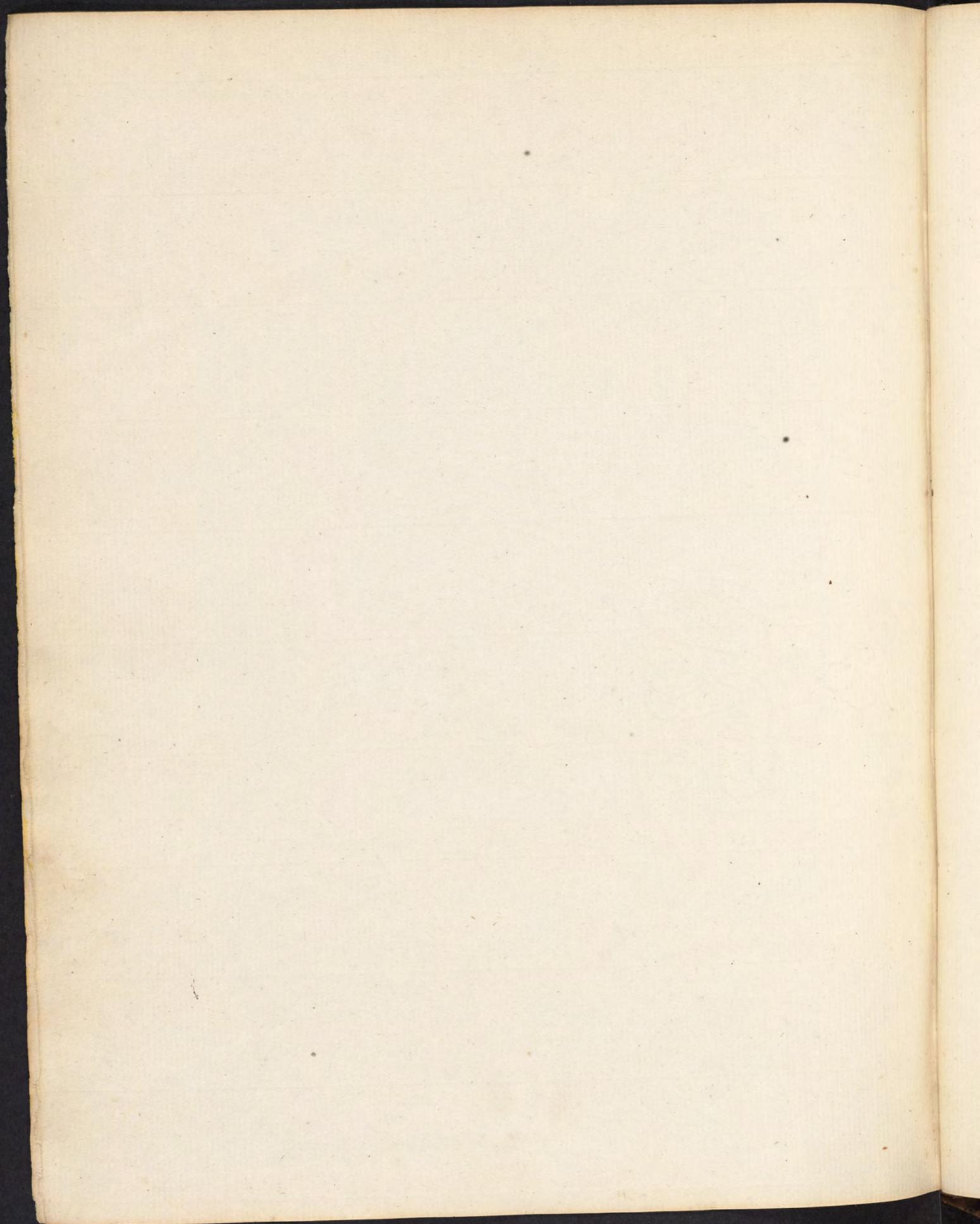


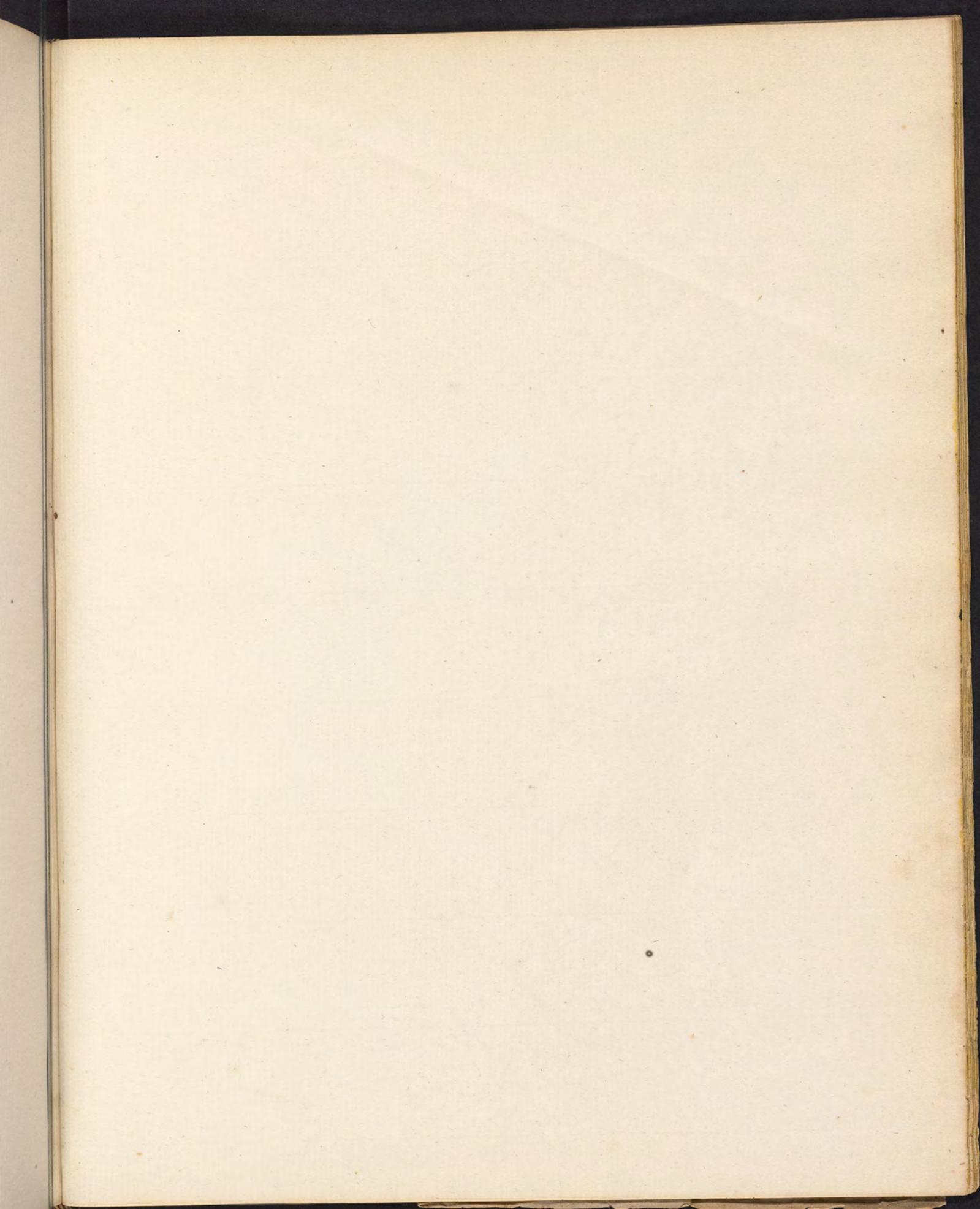


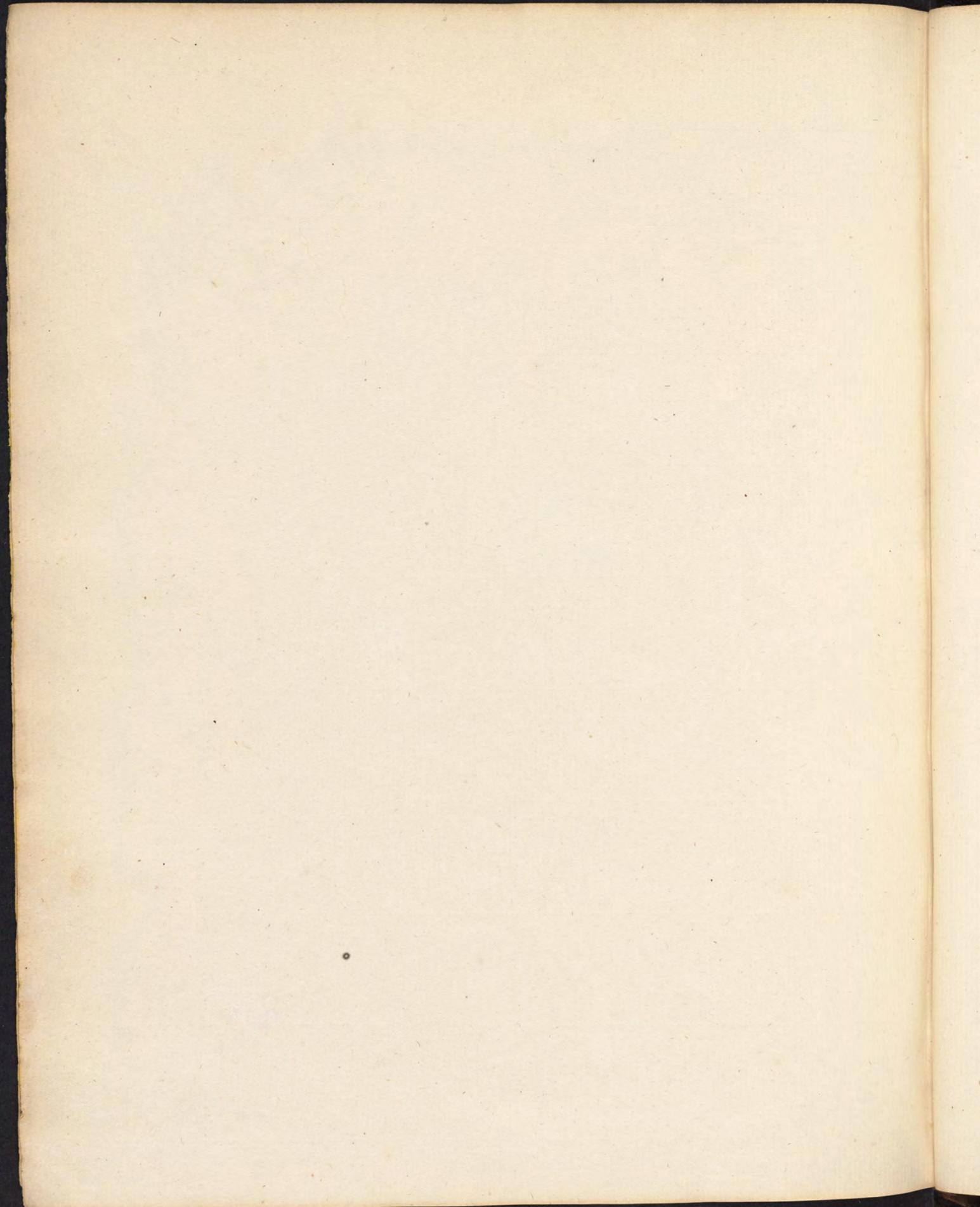


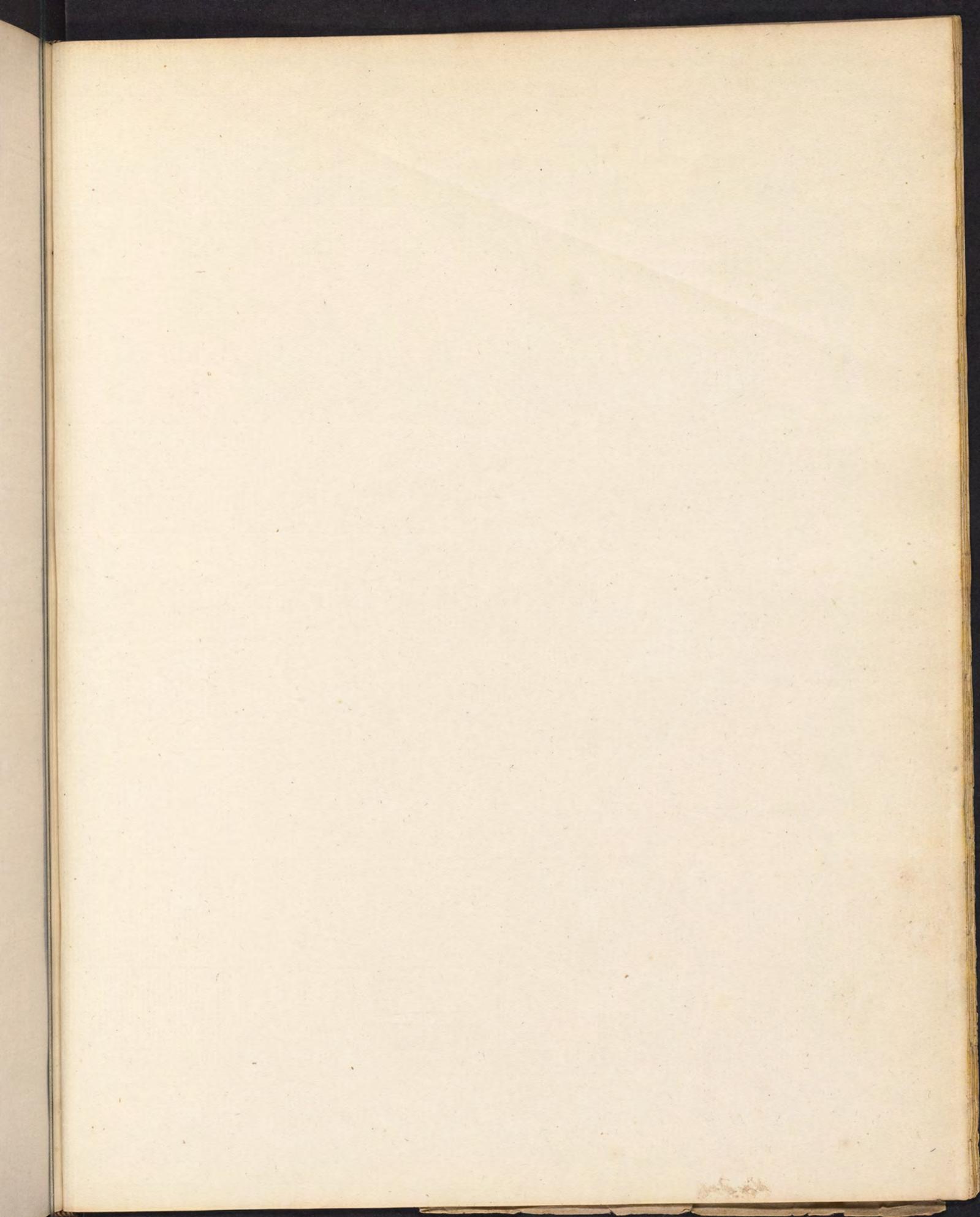


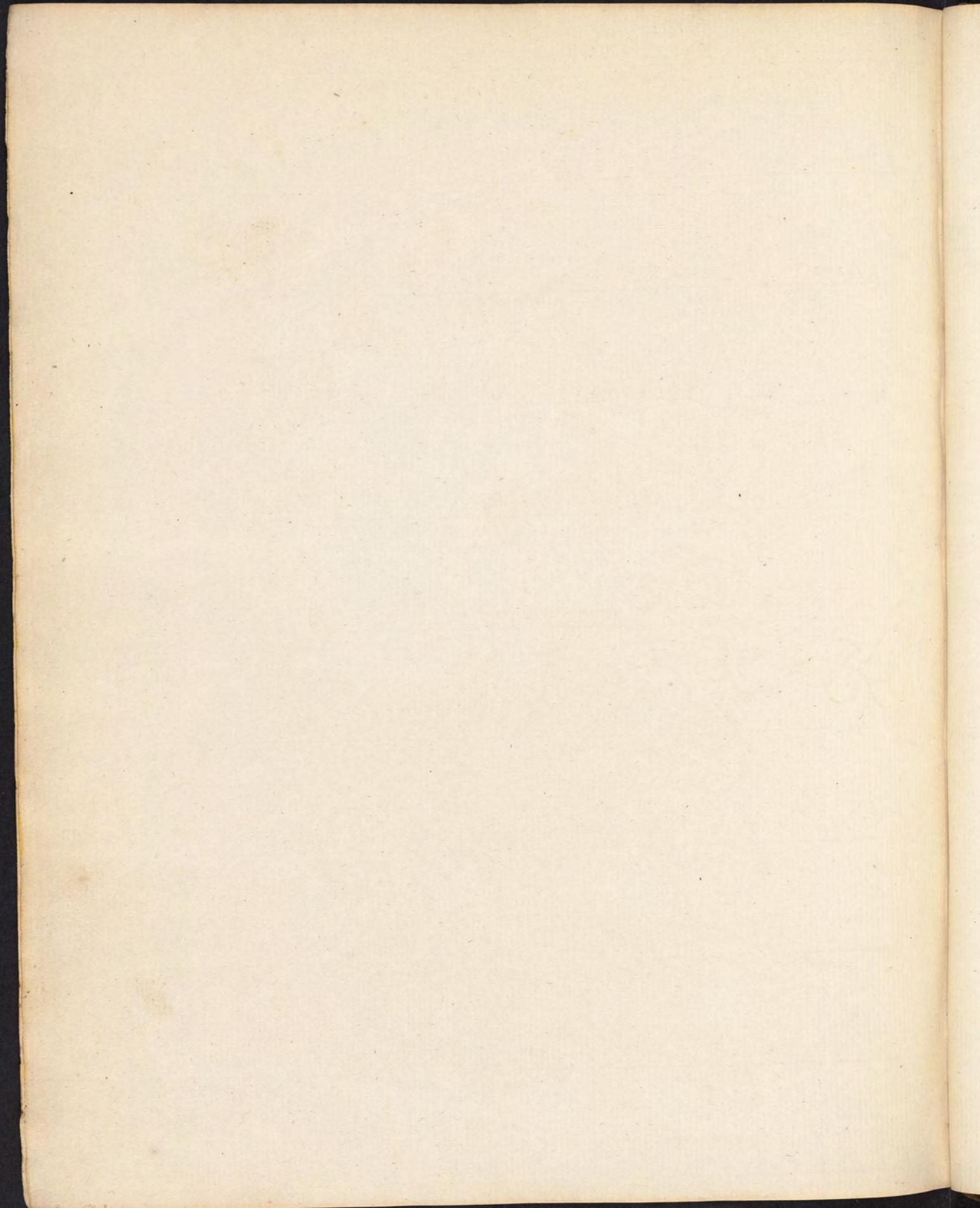


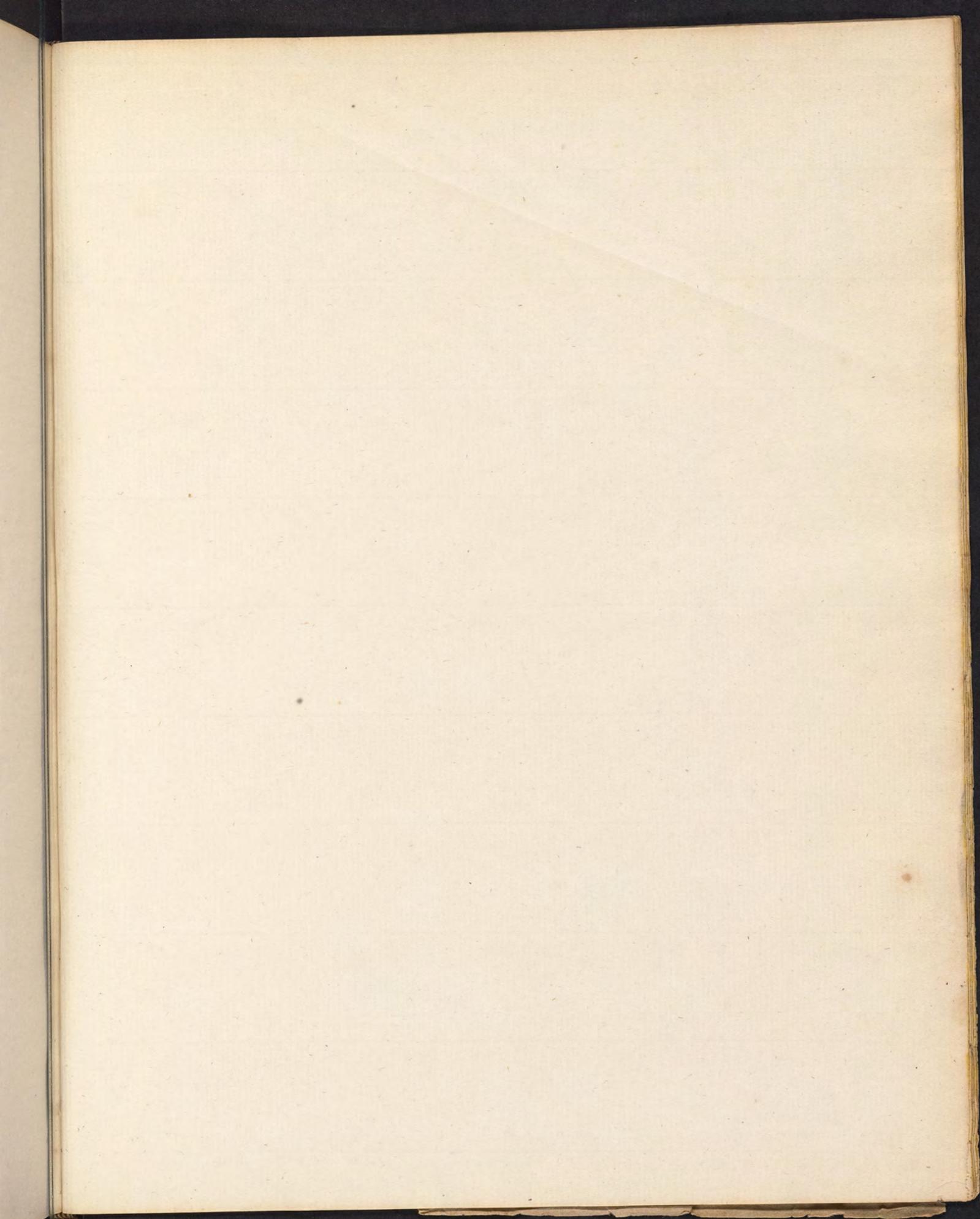


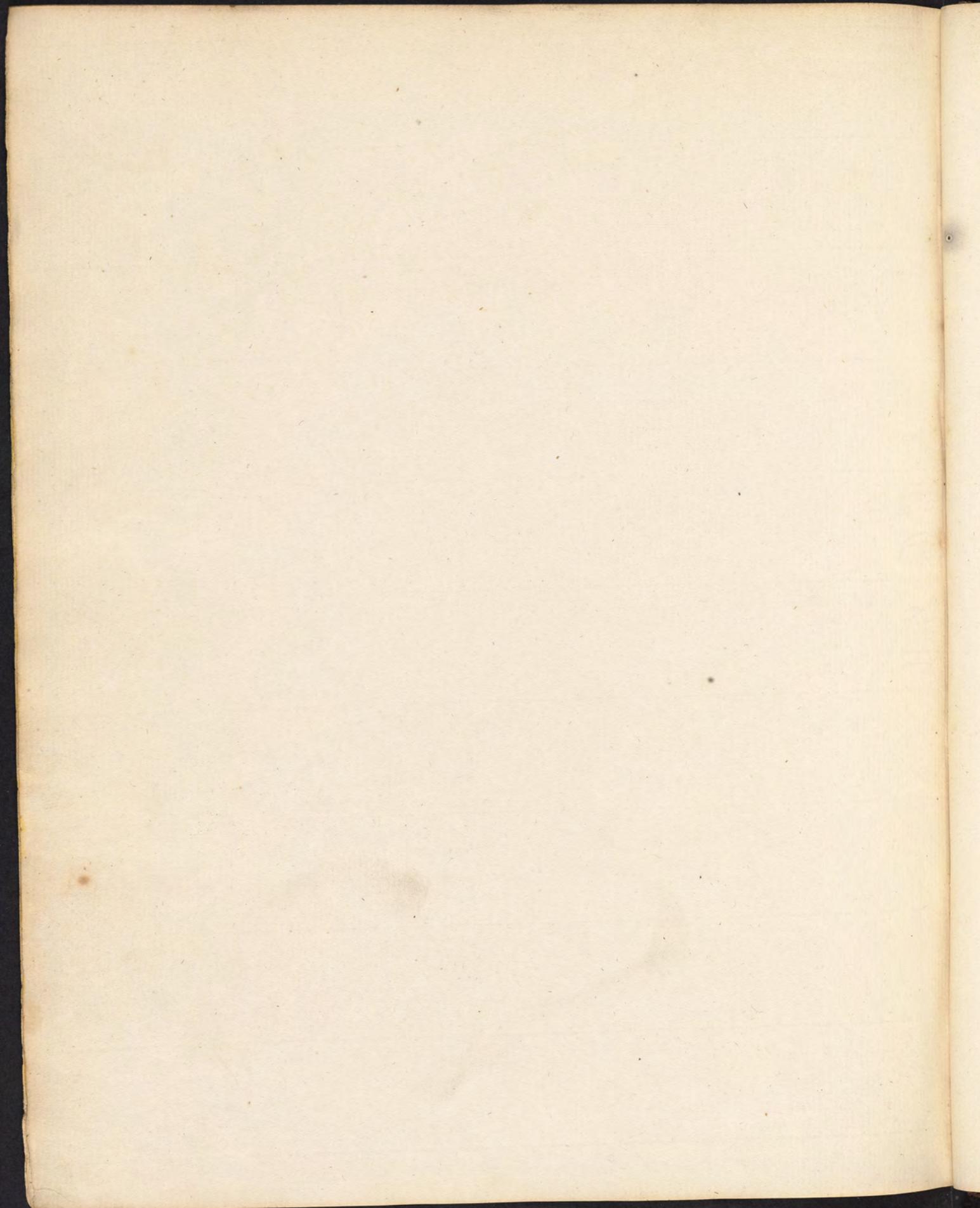


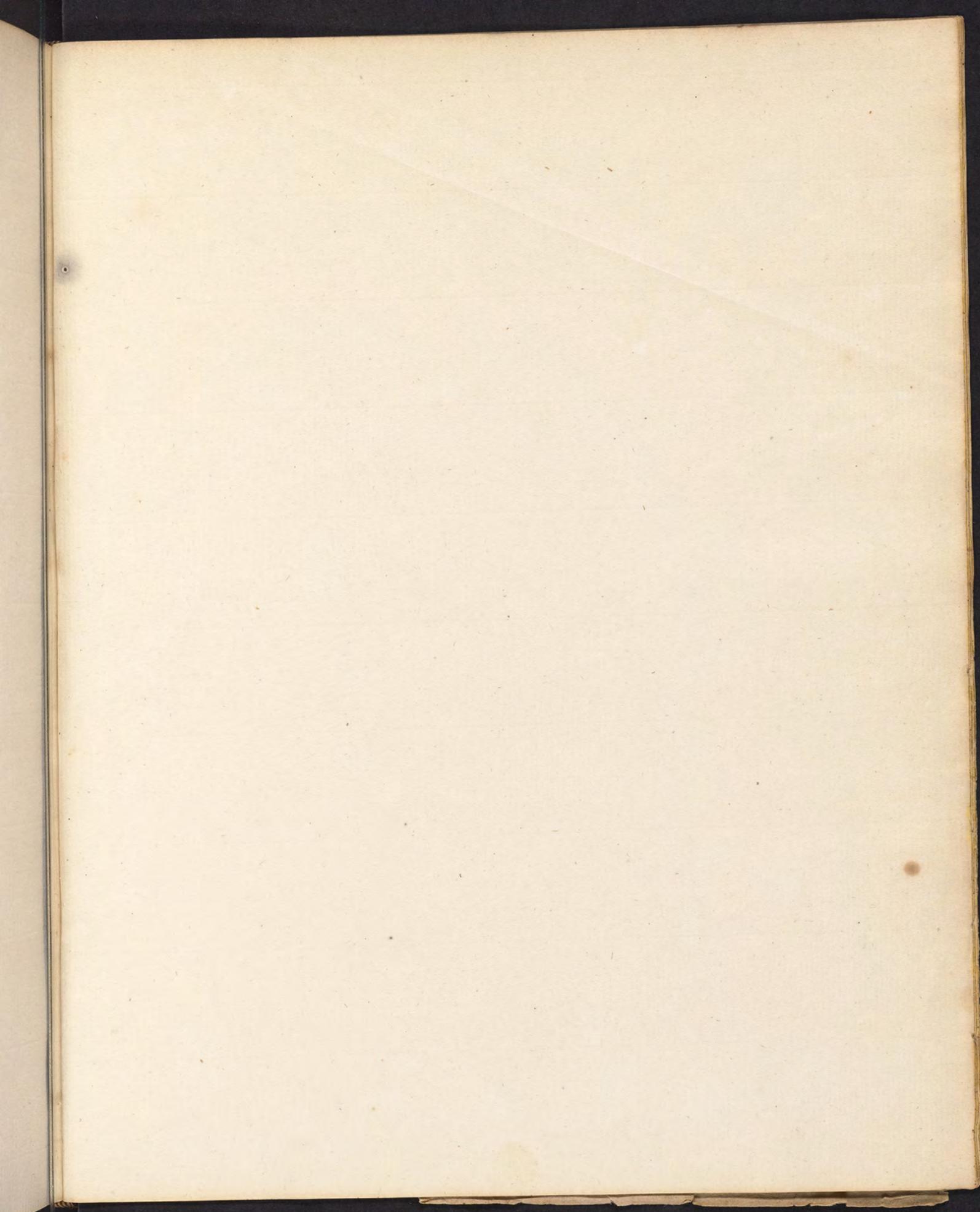


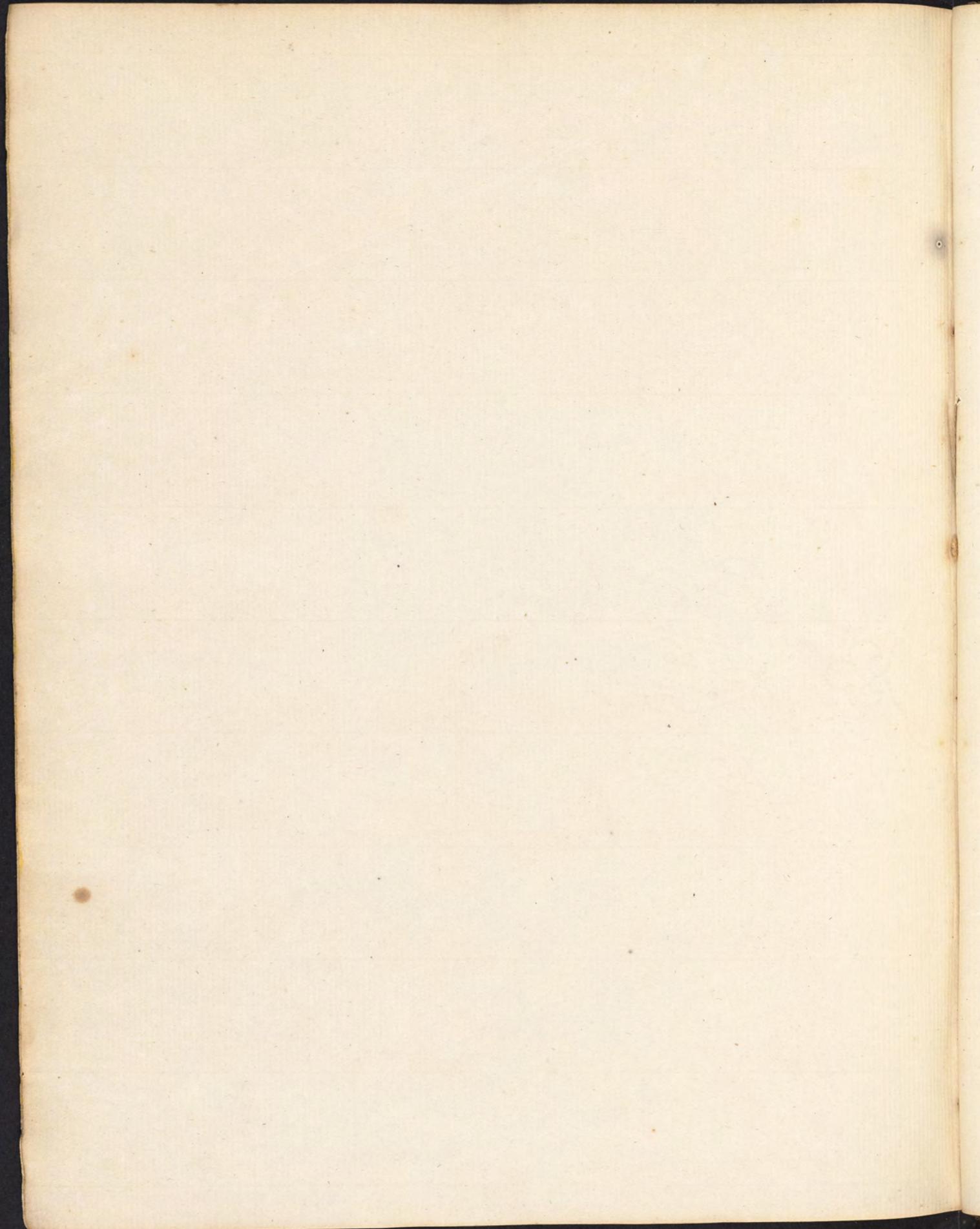


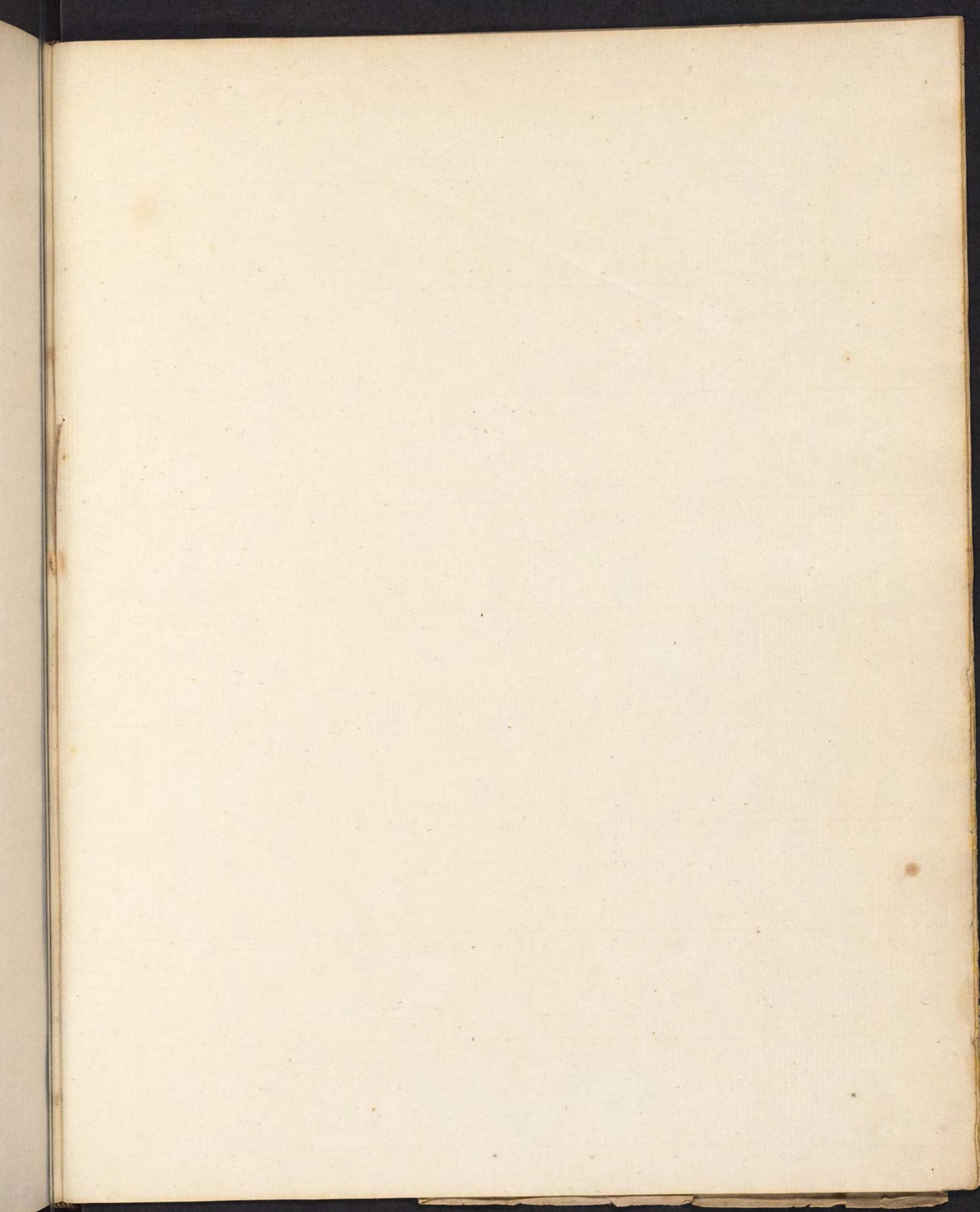


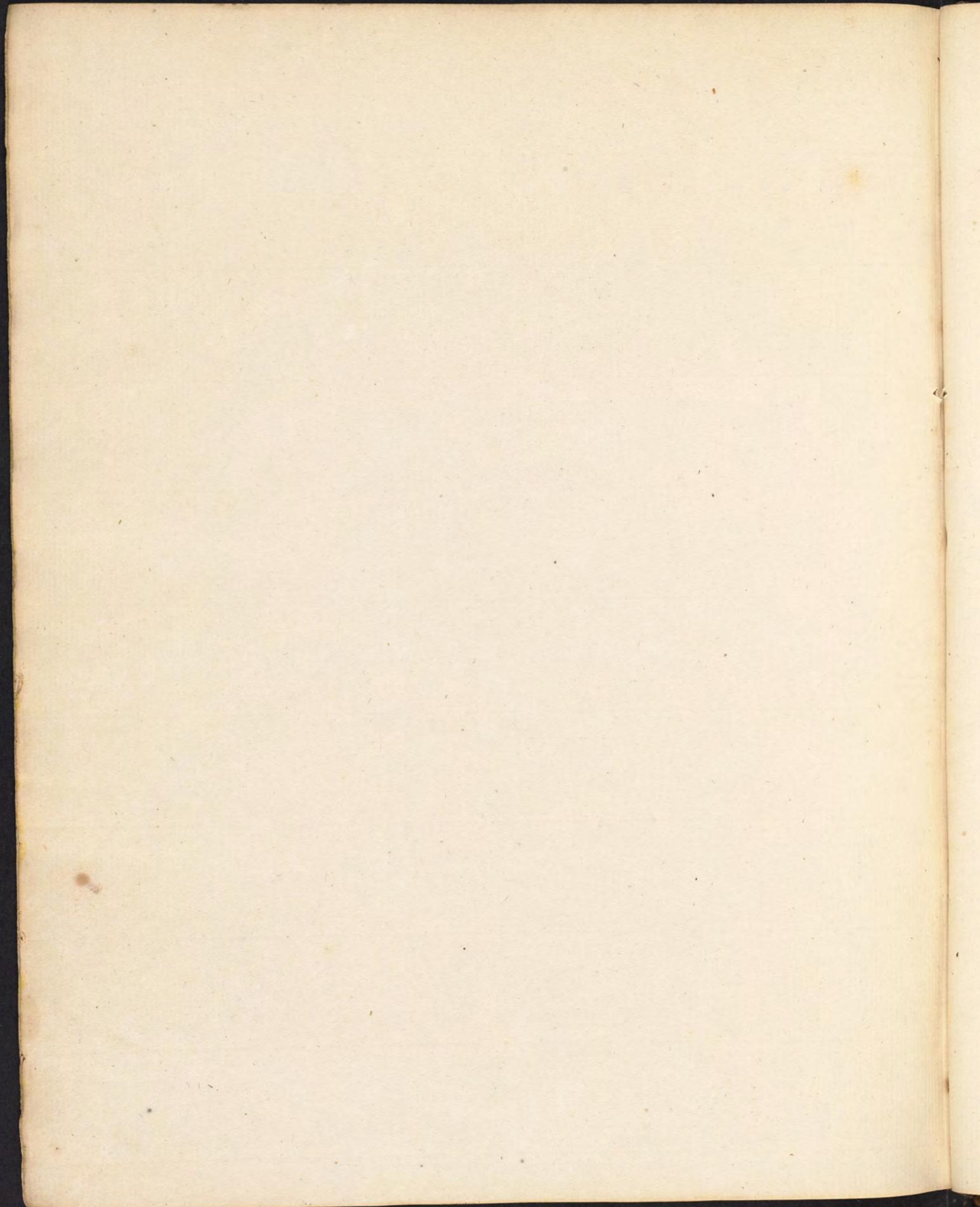


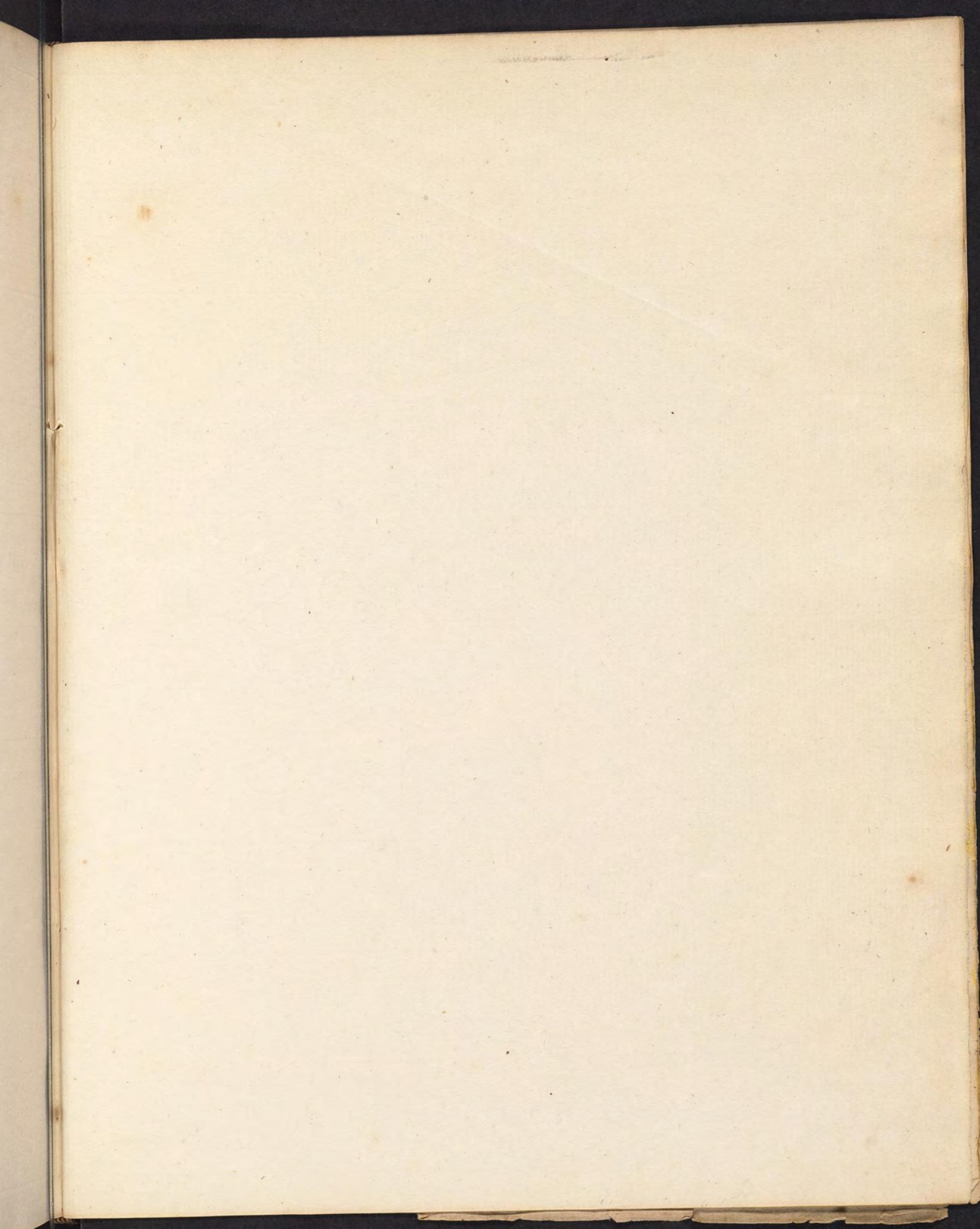


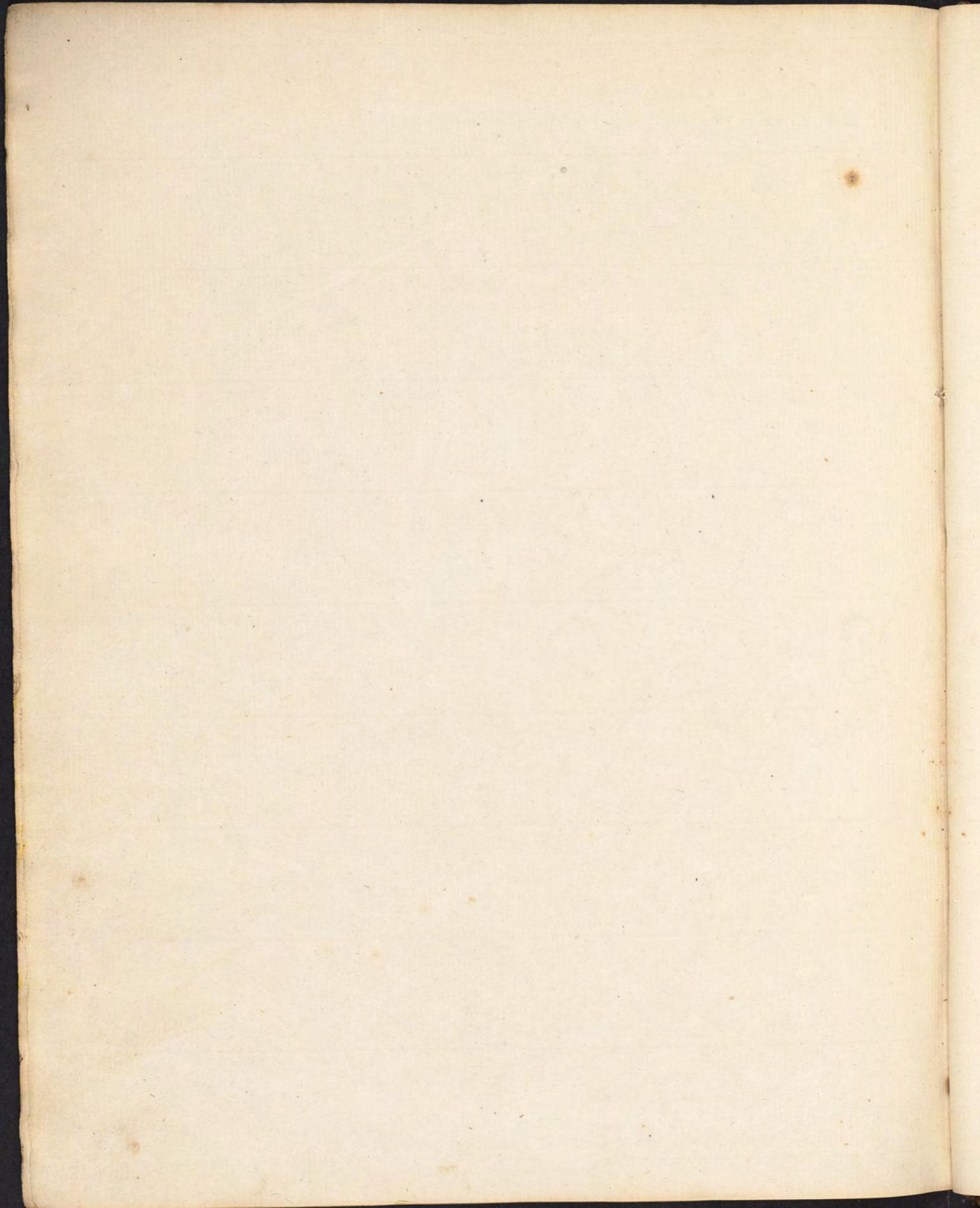


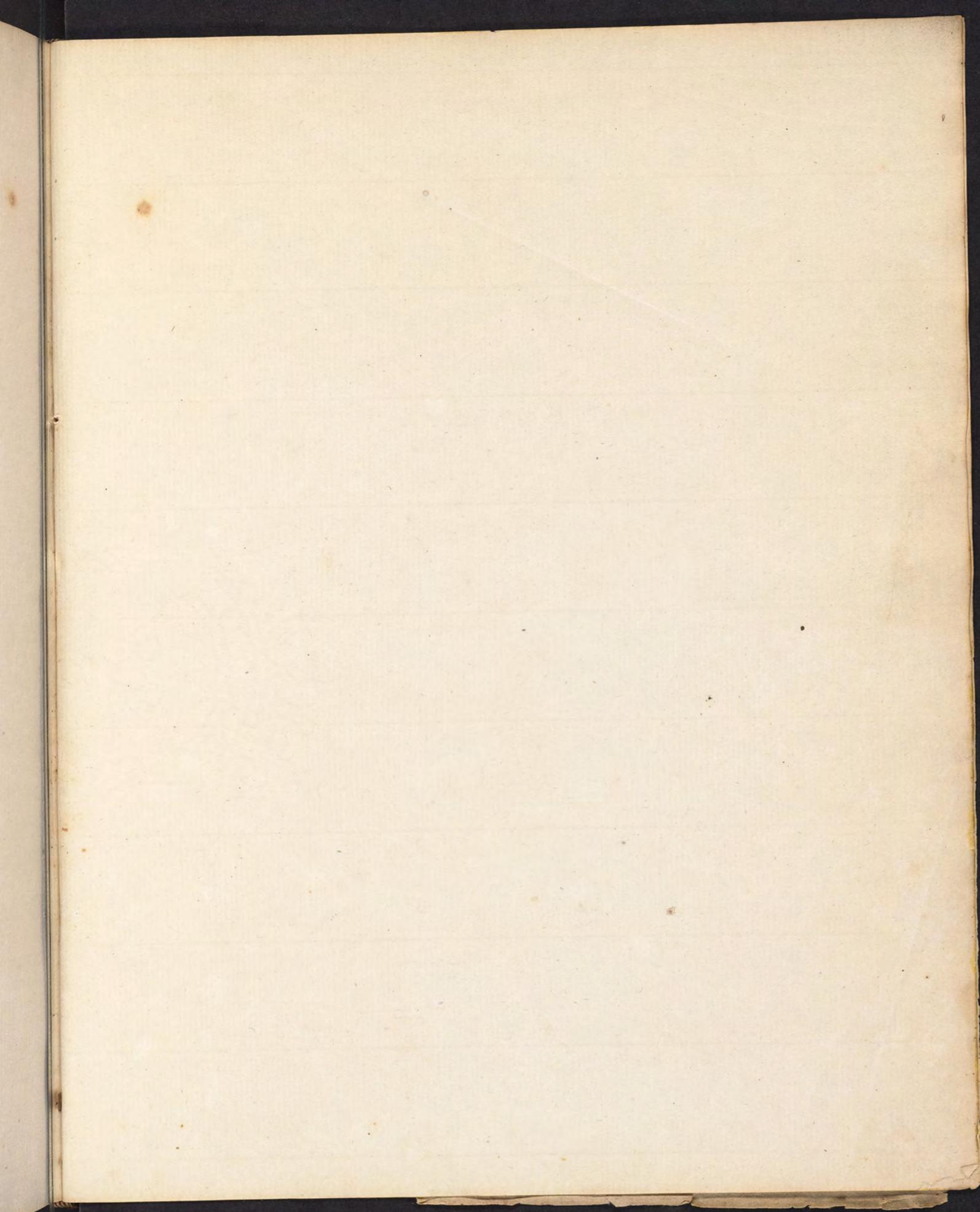


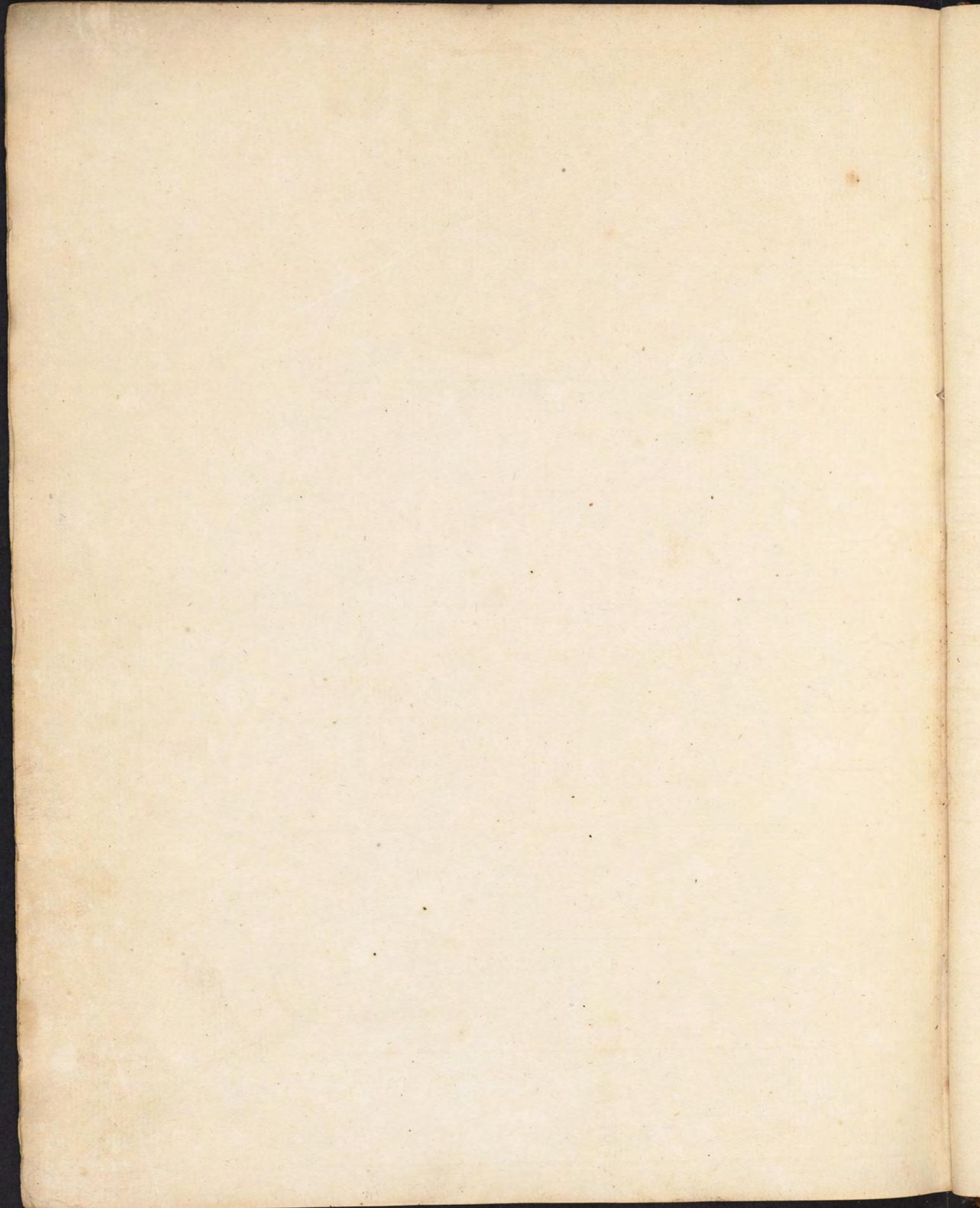


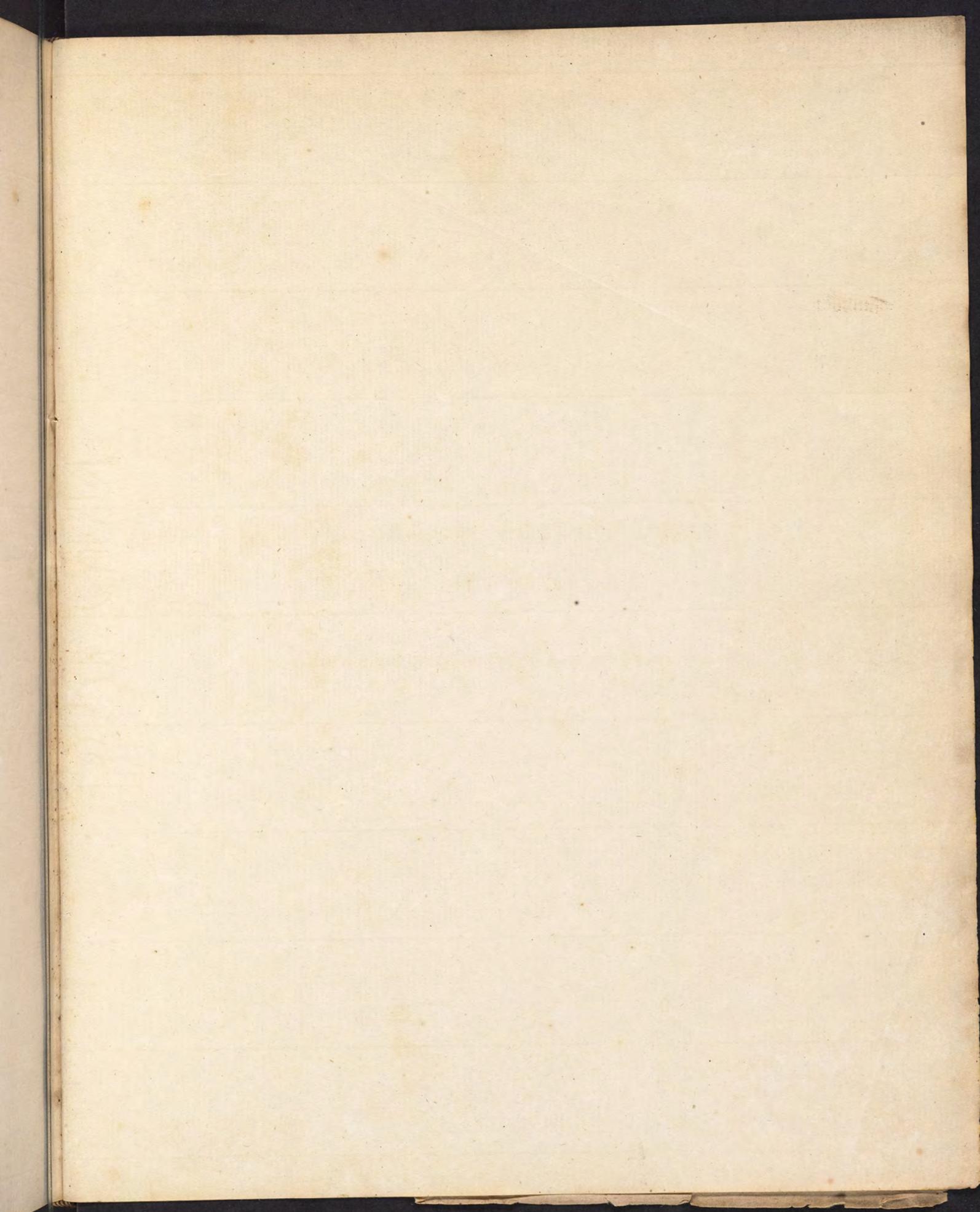




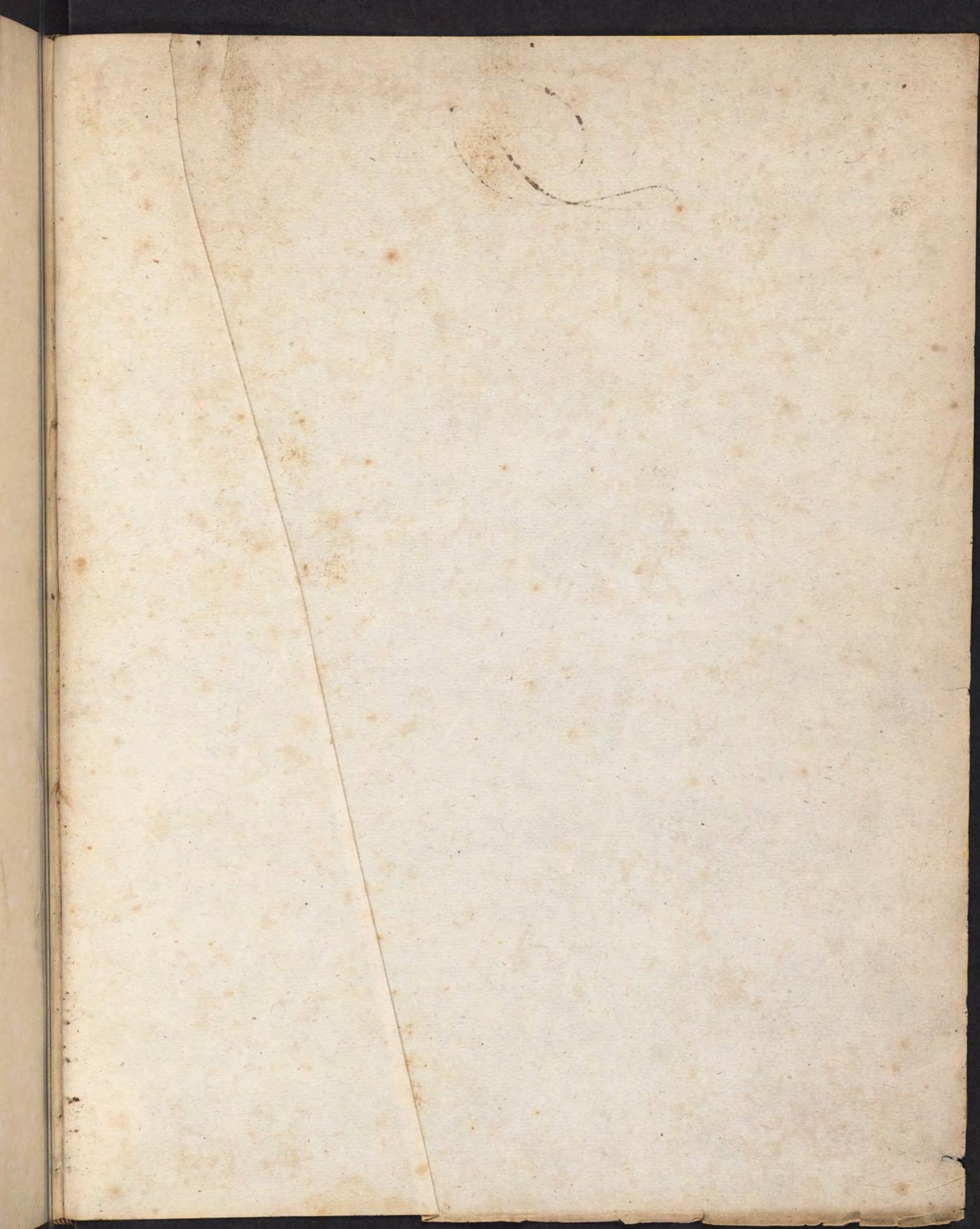








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Mr. Chapman & Co.

Mr. Lubbock

Mr. - - - - -  
heat solution

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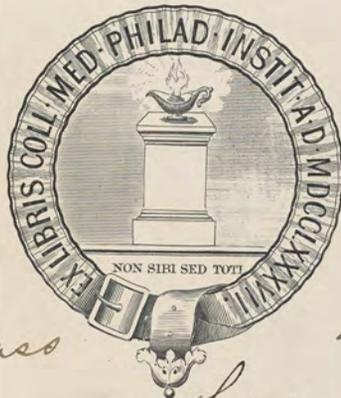
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