



D<sup>r</sup> Dorsey. —

Taken 1816-17.  
Enlarged 1817-18.

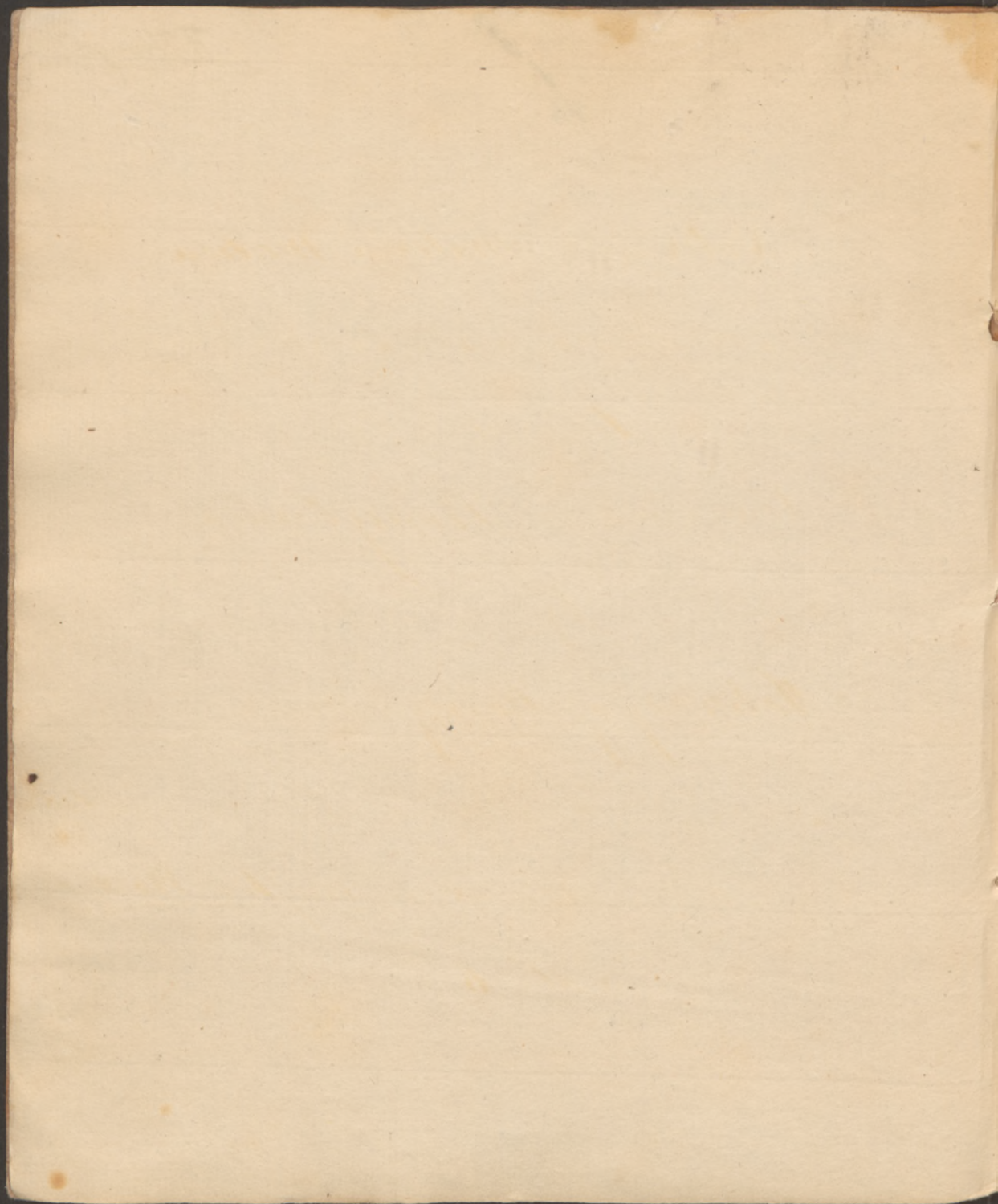
No. 6.

W. H. Dodge



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Notes on the Materia Medica  
Being the Substance of a course of Lectures  
Delivered in the  
University of Pennsylvania  
by  
John Syng Dorsey. M.D.

Taken during the winter of 1816 '17 and enlarged  
during that of 1817 '18 by Hugh L. Hodge.  
Vol. 6.<sup>th</sup>

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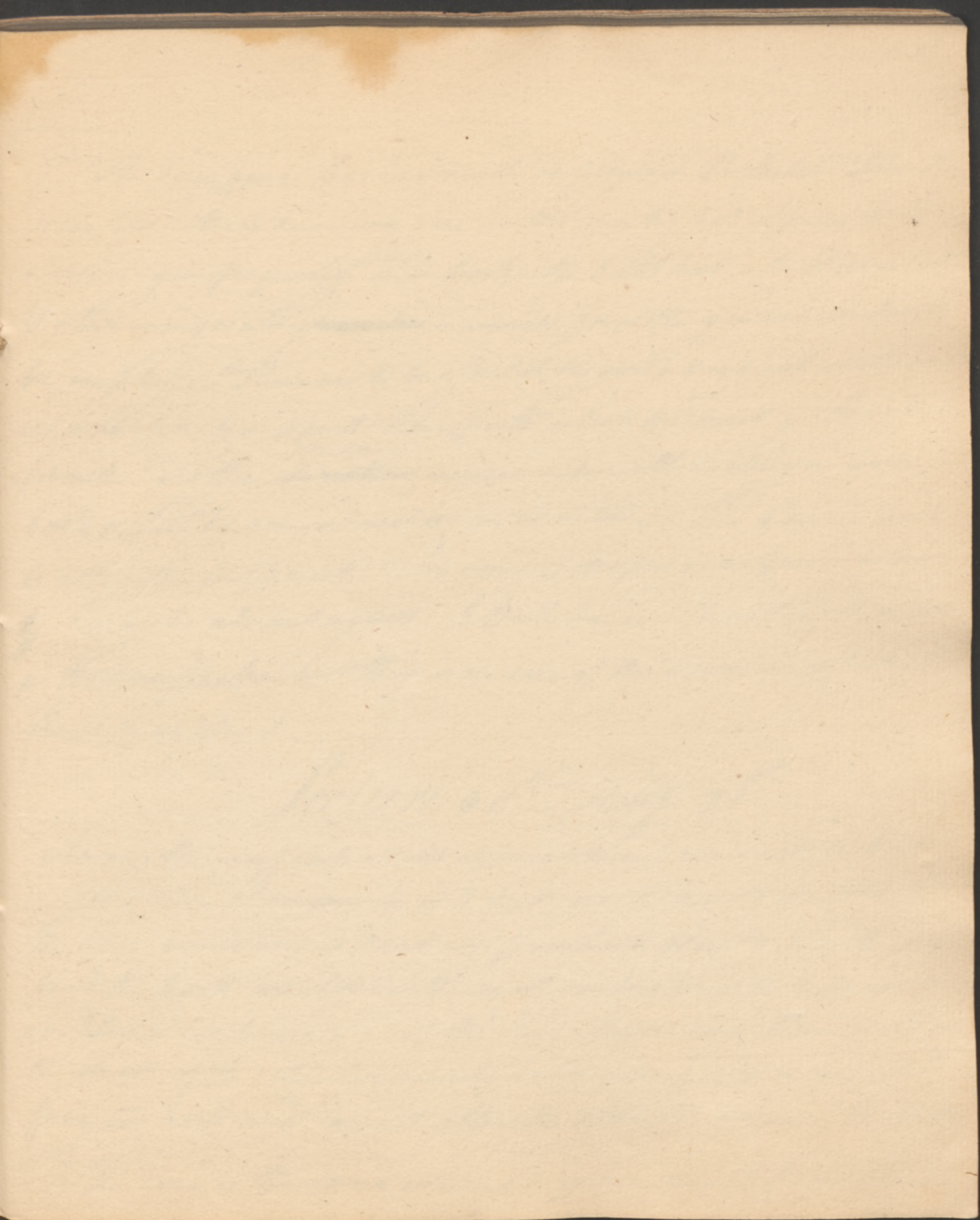
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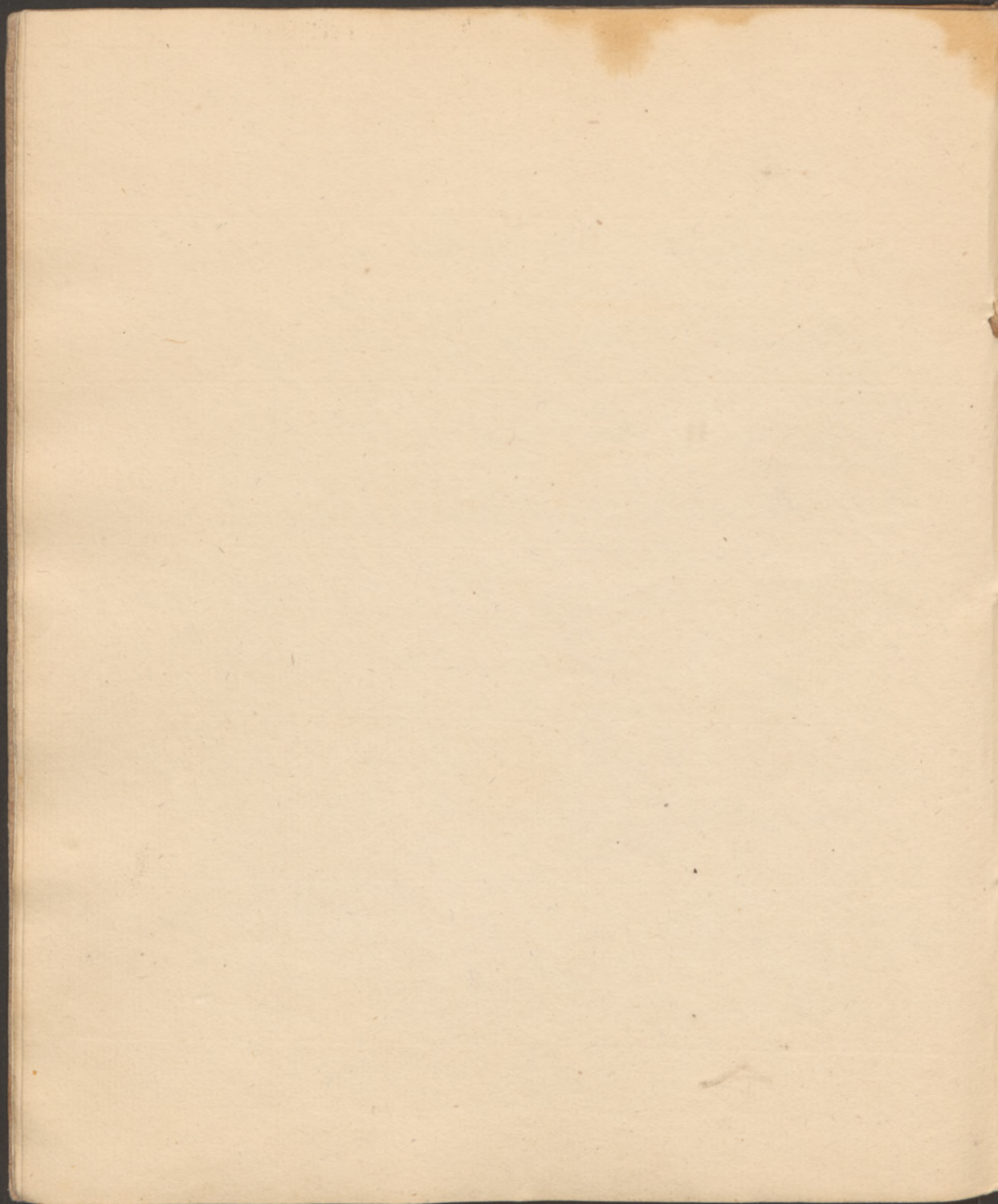
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The cinchona has been much employed in Rickets. This disease has hitherto been very rare in this country, but appears to be increasing in frequency. The bark - the salt bath - the vapour bath & other invigorating ~~is~~ measures form the general remedies to be employed - These are to be assisted by some surgical contrivances, adapted to support those parts which are most yielding & deformed. To these <sup>means</sup> directions, exercise, especially riding on horse back should be remembered as an addition. In Cancer bark is altogether inefficient. In cases of dropsy accompanied by debility it may be advantageous. Bark has even been thought useful in Hydrocephalus - but there is no case of this disease in which I should employ it.

### Lecture 60<sup>th</sup> Feb<sup>y</sup>. 21<sup>st</sup>.

Among the most important applications of our remedy is its use in gangrene. Gangrene is of 2 kinds, one the result of inflammation, the other occurring without any previous inflammation. In the first kind, the bark would be the most improper article we could employ - carbuncle is of this kind - this always terminates in the death of the cellular membrane & nothing is to be expected from the bark as it cannot alter the specific action of the part. The case is the same where gangrene results from the in-





interruption of the circulation, it is therefore of no use in the gan-  
 grene of the toes as described by Mr Patt, which arises from  
 an asphixiation of the small vessels. ~~Let the particular species~~  
~~of gangrene to which it is adapted. I can speak with considerable~~  
~~confidence.~~ On the whole I do not place much confidence  
 in the bark - in cases accompanied with extreme debility - we use  
 it - but at the same time we employ the powerful stimulant  
 articles - as brandy vol - alkali - &c - more reliance is to be placed  
 on blisters, opium, & a generous diet. Where debility exist &  
 is likely to be followed by gangrene the bark is very useful  
 In cases of poisoned wounds I believe it to be of no service  
 Upon reviewing what has been said you will find that I  
 would confine the bark to a smaller number of diseases, than  
 has hitherto been done - & you should notice & always remem-  
 ber that a single dose of bark should never be given in  
 an acute inflam<sup>n</sup> & fever. — — The dose of the bark  
 is ℥ss to ℥j in any convenient vehicle - its mucilage milk  
 or what is better <sup>in</sup> a little portier. I prefer small doses  
 after exhibited - as they excite no nausea - <sup>In intermits ℥ss is</sup> they ~~are~~ to be given  
 every hour for the last 8 hrs. of the intermission - When it can  
 not be given in substance there are several processes to which  
 it may be submitted - Hot water extracts more of its virtues  
 than cold - & of course on cooling some of ~~its~~ the bark will

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+ in a pint of water for fifteen min.



be deposited - Alcohol extracts more than water. The watery  
 preparations possess its active parts & as we generally do not  
 want the stimulus of the spirituous menstruum ~~to be pre-~~ <sup>these are</sup>  
 -ferred. The decoction is best made by ~~adding~~ <sup>boiling</sup> ~~the~~ ~~parts~~ <sup>to be pre-</sup>  
 which when cool - ʒss part is to be given - The infusion is less  
 powerful than the decoction & the cold infusion less so than the  
 warm - There are three Tinctures - the simple & the compound  
 or Kuseham's - which are in general use. The dose of the latter is  
 at first ʒi - to be gradually increased to ʒi. I very often add a por-  
 tion of this to the decoction, ʒi to ʒss. it renders it more pleasant &  
 a little more stimulating. This ʒ<sup>ss</sup> is much used in Dyspeptic  
 cases, but I think that all spirituous preparations should be  
 avoided in this, as in all other chronic complaints, as habit so  
 soon renders them necessary to the comfort of the patient, & renders  
 it impossible to lay them aside on the return of health. The  
 bark is sometimes externally used - the bark jacket has certainly  
 some effect - as it excites the pulse, but this must be small.  
 cataplasms of bark are also used, but every method of this  
 kind must necessarily prove very feeble - In the form  
 of Glyster I have never seen it employed, if it can  
 be not aimed it might be useful - but we have no proofs  
 of its efficacy - & such large quantities would be required  
 & it must be administered so frequently, that it would  
 be very inconvenient & few patients would submit to it.

b



The bark occasionally purges, in which case it must be admitted for a short time. It is joined with opium in some cases aromatics are to be given with it to abviate its nauseating effects. — The next Lami is the Sentiana Lutea —

This is a native of the old World & has never been found in America — The root comes to us in <sup>soft</sup> ~~soft~~ <sup>pieces</sup> ~~pieces~~ with a greyish coloured bark & a yellow wood — the taste is that of a pure & strong bitter, its virtues are extracted ~~from~~ both by water & alcohol — its proper menstruum is proof spirit as it has in common with most roots a large portion of gum & resin in its composition — Dr Cullen considers it as one of the purest & simplest of all the ~~roots~~ bitters — It is used in Dyspepsia in Hysteria, also in some other nervous affections — it was supposed to form an ingredient in the celebrated Portland Powder — In febrile states of the system it has been given in doses of ʒss to ʒi of the powder — there are several preparations of it — compound Tonic, — compound L. &c. — the dose of the last ʒʒ to ʒi. —

The Fragaria Officinalis — This is known by the name of the American Columbo. It grows in the Western parts of the U.S. it is a plant of only 4ft in height, & has a large root — the leaves are used in drying — The dose is similar to the Sentiana root

The Colomba — This plant was introduced by Peruvians in the year 1772, the plant is unknown but it grows in Mozambique on the coast of Africa — It is

+ kallad the Amara - Polygama - Timarouba.



one of our strongest bitters but is not so pure as some of our  
other ~~articles~~ articles - The root is brought to us in small trans-  
verse sections, the bark is thick corrugated & of a dark brown  
colour - the wood is yellow: in one of these sections we have 3  
laminae - the cortical - ligneous & the medullary. The last is  
very mucilaginous, which should be remembered, as on this  
account the decoction cannot be kept a long time in warm  
weather. It imparts more of its virtues to spirits than to  
water - It is a tolerable pure bitter & possesses some stimu-  
lating power - indeed all the bitters excite a little, & there-  
fore in doubtful cases, the watery preparations should be  
used. Kullen employs it in dyspepsia, it should be given  
in large doses & long continued. In dysentery it is no longer  
employed. In Cholera Mathus Percival recom-  
mends it - in this country it must not be given during  
the continuance of the disease, but may be employed  
early in the convalescence. Percival also directs it in  
the diarrhoea accompanying dentition. - The dose of  
the powder is from ℥ss to ℥i. The decoction is made in  
the proportion of ℥i to the pt. the dose being ℥ss to ℥i.  
This is very mucilaginous. - Quapica. of this there are 3  
species - The whole plant is intensely bitter, very much resembling  
the gentian & colomba; it is well suited to some cases of dyspepsia  
but upon the whole I have not much confidence in it.

+ or *Cusparia Febrifuga*

† The dose is ℥i. to ℥ij.



It is usually given in the form of infusion - Zi being added to a  
<sup>quart.</sup> pint of warm water - & some a little spirits to prevent fermentation  
Pills of the extract - containing grs iij. or iv. have been given every 2  
or 3 hrs. Angustura. This was first procured from South  
America in the year 1778 - it comes in small masses of a brown  
colour - it is an aromatic bitter & when first employed, it was  
celebrated in intermittents - Brande speaks highly of it, in ner-  
vous fevers - I have not much experience of its virtues - W  
Pearson uses it in some chronic cases - It is given in substance  
in infusion & in tincture. - Serpentaria. This is a pe-  
rennial plant & a native of the U.S. the root is the part em-  
ployed which consists of short, bushy fibres - & has a pungent  
bitter, aromatic taste - In addition to its tonic power, it is  
astringent & diaphoretic - & is so stimulant that some caution  
is required in its administration - It is useful in all cases  
of intermittents where the pulse is low - In typhus it is highly  
beneficial - In the Plague & in the debilitated state of yel-  
low Fever it is very valuable - In typhoid Pneumonia it  
has been much used - I have exhibited it freely in these cases  
but always in conjunction with vol. alkali. &c - It is given  
in powder in doses of Zi. to Zjss - in infusion in proportion  
of Zi to a pint of water - Decoction destroys its power -

12.

+ which may often be boiled down to a pint.



The Prunus Virginiana, or wild cherry tree - It grows in this country not uncommonly to the height of 40. ft. The bark & root of the tree are the parts employed - generally in decoction in the proportion of ʒij to a quart. <sup>+</sup> It is also given in infusion - It possesses some astringency & is evidently stimulating, increasing the force & frequency of the pulse. I have used it with some advantage in Pulmonary Consumption when there is no inflammation disposition it may prove useful - Dr. Chapman has employed it extensively for its astringent powers in diarrhoea.

Antemiss Nobilis. This plant does not grow in this country but is a native of Europe - It is a mild bitter & is usually given in form of an infusion - A weak & warm infusion proves diaphoretic; & even vomits; a cold & strong infus<sup>n</sup> is a good tonic. It is employed as an auxiliary to the bark in intermittents, but will seldom be effectual by itself. The Chamomile flower, I consider as the best article to begin a course of tonics - I exhibit the infus<sup>n</sup> in combination with the elixir of vitriol -

~~It may~~ is another mild tonic very similar to the best <sup>as American Centaury</sup> Chironia Angularis is another plant possessing some bitterness but not so active as the former - it is an annual plant & a native of the U. States.

+ know by the names of *Thoroughwort* & *Bonsett*.



Lecture 61 <sup>th</sup> Feb 24 <sup>th</sup> 15.

Cornus Florida. This grows in all our states. The bark is the part employed. In taste & properties it very much resembles the Cinchona. The bark gathered the preceding year is considered as the best - that which is gathered the same year proves purgative - The dose is the same & in use as the bark. The Cornus ~~Spica~~ <sup>Sericea</sup> grows in marshy situations - It was considered by Dr. Barton as superior to the former - but it is in reality less valuable -

Cupatorium Perfoliatum. This I have already noticed as a diaphoretic - the cold infusion proves also tonic, & has therefore been employed in Intermittents, but I believe we have much better tonics for this disease. This article by no means deserves the credit which has been so liberally bestowed on it.

We have many other vegetable tonics, but they are in general of very little power - I do not deserve our time at present -

You will see them noticed in Cullen & others.

The Mineral Tonics - First of Ferrum or Iron.

The natural & Chemical History of this metal, I suppose you will receive from another source - In its pure state it has but little power - the iron filings however are sometimes employed - You may sometimes act by mixing with acid in the stomach, whether they will otherwise have any effect is doubtful - The preparation of iron most used is the prepared rust or carb. of iron -





This is prepared by moistening iron filings & exposing them to the atmosphere - There is another carb. of iron which is prepared by precipitating ~~from the iron sulphate of iron~~ by means of the carb. of Soda - As there are two carbonates I shall therefore for the former retain the old name of the rubigo. Ferri. This possesses a tonic power in a high degree, & is not so irritating as the saline preparation - The average dose is from grs. ℥ss to ℥. it is given however in much larger doses, but these are not proportionally active. It is often given in combination with the saline preparations - & also in form of the vinous ~~℥ss~~ - A combination which I employ very much is the following. ℞ Rust. Ferri. ℥ij. Sal. martis. ℥ij. m. et div. in Dos. x ij - This is very useful - & in many cases of Dyspepsia is very valuable. The Sulph. Ferri. is not much used except in combination with the rust. Large doses of it induce colic & other disagreeable affections of the alimentary canal. It is given in form of pills each containing from grs. ij to v.

The Muriate of Iron is a powerful tonic, but it is too nauseating to be much employed: in large doses it operates as an emetic. The ℥ mur. ferri. has been greatly celebrated in suppression of urine. The Ferrum tartarizatum has also been employed.

Iron from its tonic power has been used in many diseases. In Intermittents it has been given by itself or more generally in combination with the bark. In all chronic diseases it is very useful. In the marasmus of children which I have already noticed as a species of remittent fever it is very advantageous. In Cancer all my friends agree with me that it is of no





service. There are few cases in which the bark is employed, but are also benefited by this article - Dr Barton supposed that the iron was absorbed, in this he was opposed by his successor Dr Chapman - the dispute is of no practical importance - Dr Lullen exhibited it in large doses, in which he was followed by Dr Barton - but I believe that nothing is gained by this practice.

Cel prum. This is astive in its metallic state - which we would suppose from its taste & smell - When taken into the stomach, as is often done by children in playing with copper coins - it produces very distressing symptoms, if not soon evacuated. In such cases beware of acids & direct a diet which should be neither acid or of an acescent nature. I prefer a meat diet - broth made of lean meat - it is better that no medicine should be exhibited, as is too much the custom - the coin will be discharged in the course of 24 or 36 hrs - It is less likely to prove injurious when enveloped in the feces than when brought away by copious purging, especially if the piece should have many angular points - I have heard of one case in which during the action of a purgative - a fistula was forced through the sphincter ani muscle. The effects of copper are nausea - vomiting - colic, spasm & death - in some instances it produces a salivation - Ammoniacret of copper is prepared by triturating  $\text{zij}$  of the sulph. of copper with  $\text{zij}$  of the carb. of ammonia - the dose is  $\text{gr. ss}$  to  $\text{gr. ij}$ . or  $\text{ij}$ . Dr Lullen employed it in Epilepsy - as also did Dr Barton, <sup>but he</sup> ~~was~~ was apprehensive that when employed for a long time it proved injurious. Dr Meissel gradually increased it to  $\text{gr. ij}$ . three times

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2 Day & cured his patient - Dr Rich takes ℥i of the flowers zinci, -  
℥i of the ammoniac. of copper, <sup>℥i of winter bark -</sup> & divides <sup>them</sup> into 60 pills: one of  
which is to be taken, for the first 2 weeks, every night - By this ar-  
ticle I have heard of many cures, & it would therefore be right, al-  
ways to make trial of it - in one case in which I tried it was of  
no service. As it is a stimulating article we should therefore be  
careful in administering it. In Chorea it has been recommended,  
I have tried in one case, but to no purpose. Boerhaave employed  
it in dropsy. The Sulph. Cupri, <sup>probably a Sulph. Sulphate</sup> has been much used in obstinate  
intermittents - in one of this kind occurring in the fall of the year, I  
succeeded with the following prescription. ℞. sulph. Cupri. grs ʒv.  
capsicum grs xxxij - m - et ꝑit pilul. xxxij. The sulphate has  
been much used <sup>as a gargle</sup> on venereal sore throat, the prescription is the taste  
of the sulph. ℞. Peruv. bark ℥j. water ℥ij m. although this  
is by no means a chemical mixture, yet I have no doubt you  
will find it very useful. A weak solution is employed as a col-  
lyrium. grs ʒi. to ℥iv. of water, when all in flamm<sup>y</sup> symp-  
toms have subsided - Dr Spalding exhibits it in uterine  
hemorrhages to excite nausea. Stannum or tin has been al-  
ready noticed as an antihelmintic; as a tonic it is not much  
used - my experience relates only to its virtues in the former case -  
Chilva - The Nitras Argenti is the only preparation of  
this metal which is used in medicine. It is much used as an  
embaratic, & for a long time used internally. Lately Dr Jones

+ The pure metal is some<sup>l</sup> given in the dose of grs.  $\text{ij}$  to  $\text{v}$ .  
That of the oxide - is grs.  $\text{ss}$  to  $\text{ij}$ . —



has employed it in Epilepsy from my own experience I would say that it is of no use, but it comes very highly recommended & should therefore be tried by any person in any of these distressing cases. The dose is gr. j's to  $\frac{1}{4}$  in the form of a pill by making these pills. & all others containing active articles it is necessary that you should be very accurate, the article in this case should be previously dissolved in a little water & then added to the substance selected for the purpose in this way it will be uniformly distributed. Dr Chapman exhibits it in much larger doses, having given as much as grs. xvij in 24 hrs. but without effecting a cure. It is an application to ulcers it is much used by the surgeon - not only as an escharotic but also as a stimulant application disposing the part touched to cicatrize very speedily.

Platina - This is not at present employed in Medicine. Argentum - of this I have but little to say - The mercuriate is the most powerful preparation of this article - it is exhibited in doses of gr.  $\frac{1}{15}$  to  $\frac{1}{16}$ . Dr Mead praises it in the Venereal, recording numerous cases effected by it - but on this subject I must profess my scepticism - Indeed mercury cures this disease so certainly so satisfactorily, & so successfully that I am by no means anxious for a new remedy.

Zinc This is a semi-metal - Some of its preparations are said to be useful. The floris Zinc have been used in some of the nervous affections, but not with much satisfaction - The White Vitriol has been used in Epilepsy & Chorea Dr Barton

*[Faint, illegible handwriting covering the page]*





thought it useful in Pertussis, & it may be in some of the 25.  
~~letter~~ varied cases of that disease. The doses should be very small.  
It is also used in Dyspepsia - in palpitation of the heart.  
The Sulph. of Zinc is also often used as an emetic where the  
pulse is active - As an injection in Gonorrhoea it is very much  
employed, especially in combination with the sugar of lead  
as in the following - ℞ Sacch. Sat. grs. ℥v. Sulph. Zinc  
grs. v. Laud. Zij. - ℞. Zij. m - by itself - grs. x or xij  
are dissolved in ℥viij of water - but in the early stages of gon-  
orrhoea I do not like any of these preparations, mild  
& antiphlogistic measures should then be followed.

Bismuth. The oxide or rather the sub. nit. of Bismuth is  
the preparation of this article which is employed, - In 1786  
it was first employed in Germany; <sup>by Dr. Dier</sup> & has been celebrated in gas-  
trodynia & in several painful affections of the stomach.  
The late journals of Europe have been crowded with  
reports of its efficacy in these cases - in this city it has not  
been much employed - nor has it proved successful & I ap-  
prehend that when it comes to be more investigated by im-  
partial persons - it will be found merely - a mild mineral  
tonic - The dose is grs. v. or vi.

In some cases before death the body is covered with Petechia  
& there is a sloughing off of the scrotum.



Lecture 62<sup>nd</sup> Feb 25<sup>th</sup>

27

Arsenic - The regulus of arsenic is inert, when heated to a high degree it is volatilised in the form of the oxide of arsenic. - By combustion it is converted into a substance, called the arsenious acid - which possesses several acid properties. It is soluble in water - crysallizes, changes vegetable blue colours to a green but does not neutralize the alkalis. - By an addition of a quantity of oxygen it is converted into a true acid called the arsenic acid. The white oxide of arsenic is the same with acid & is procured during the preparation of several metallic ores. - It is sparingly soluble in water - arsenic is one of the most active poisons we possess, in doses of grain it produces death. Upon dissection the stomach bears marks of inflammation - numerous black spots are seen through out the stomach but especially at the cardiac orifice. Some have mentioned instances of actual gangrene having occurred. The symptoms produced by it are nausea, pain at the epigastrium, great thirst, difficult respiration, a sinking pulse - immense tenderness of the bowels - convulsions & death. To prevent the action of this article we have no article of any certain powers. In France many antidotes have been proposed, but they are all too feeble. After a recovery, there remain tumors, palsy & bloody evacuations. - It is said that even the external use

\* The dome of Pauli's Salute is gtho. v. x. to x. v. tall. —



has produced alarming effects - See Sauvage - also Miller. The preparations are several. The white oxide minutely divided has been given in the form of pills in doses of gr.

$\frac{1}{10}$ <sup>th</sup> - also in the form of Fowler's min. solut<sup>n</sup> - 1 pint of which contains 64 grs - the dose of this to an adult is  $\frac{1}{2}$  gr. 4 or 5 times a day - Children 3 years -  $\frac{1}{10}$  gr - of one yr -  $\frac{1}{20}$  gr - or

Darwin has made a saturated solution of which the dose is  $\frac{1}{2}$  gr. - The use of ~~the~~ Fowler's solution in Intermit-

tents has become very general - It has been the foundation of various nostrums - I have employed it with much advan-

tage - but it is not always successful - In common cases I believe that both it & the Peruvian bark - will answer, but in typhus & debilitated cases it should not be used.

In all cases it may be used where there are no ~~obvious~~ peculiar circumstances ~~it may be used~~ to prohibit it. To children it may be given <sup>in a</sup> ~~the~~ dose of  $\frac{1}{10}$  gr. if the bark is too large & bulky.

In another case also where the pulse is active & irregular during the intermission, & where the bark produces headache & fever, the arabin comes in advantageously. It may be given during the hot stage and in this respect is preferable to the bark which prom-

in attention in the nurse is often exhibited at this period & produces much injury - The mode of administering it is similar to the bark, except

that it must be given during the whole of the intermission. Its

modus operandi is doubtful - Some attribute its virtues to the nau-





- sea which it excites, but this is by no means probable, many deny  
 that it has any tonic power, but as <sup>it</sup> effects cures, which are produced u-  
 -sually by tonics, I am disposed to class it under this head. Many  
 prejudices have been entertained of against this medicine, not only  
 by the vulgar - but also by physicians, these are in a great mea-  
 -sure subsiding - no injury results from its proper administration -  
 As it has proved useful in intermittents - arsenic has also been em-  
 -ployed in other diseases - in periodical head aches, in Rheuma-  
 -tism in this it is particularly recommended by Dr Parke of this city.  
 In Menorrhages it has been employed - In Asthma, in Angi-  
 -na Pectoris - also as an alterative in many chronic affections  
 in which mercury has failed - in many glandular swellings it  
 proves useful - I have employed it successfully in one case of  
 eruption - It enters into the composition of numerous powders  
 for cancer, it is recommended by Mr Home as one of the most va-  
 -luable caustics we possess: you had better read the works of Mr  
 Home on Cancer as it will enable you to distinguish between  
 this & other diseases. - Internally administered I believe no  
 effect is produced by it in cancerous affections - In the  
 ulcer from bubo. it has been recommended. this practice I  
 do not like, the caustic & afterwards the Cat. of Catfish, I pre-  
 -fer - The Sulphuric acid is a mild tonic - it is chiefly  
 given under the form of the elixir of vitriol - The chief cau-  
 -tion is that it should not be too strong, it should be drop ped

†. There is some danger of the acid acting on the Teeth. the  
Dessert which it is customary to take at thro' a quilt. The  
mouth in either case should be well rinsed at the every dose,

It has proved always ineffectual in dyspepsia -



into water & sweetened so as to be agreeable to the patient. 35.  
usually give it in cold chamomile tea, this is very useful in all  
cases of debility, to check profuse perspiration. It has been employed  
in several diseases, but I think that its powers have been much over-  
rated. The Nitric Acid is employed in analogous cases - it  
is usually given in the form of a pulp. ℞. N. Acid. ℥i.  
Gum. Arab. ℥ij. of q. ℥vi. m. secundum artem - that is let  
the acid be dropped on ~~the~~ a portion of the mucilage, & not on  
the G. Arabic undissolved - as otherwise it would be very unequally  
distributed in the mixture - In Hepatitis this has been much em-  
ployed & at one time was thought to be equal even to mercury. At  
present it is in a great measure laid aside - It has been much  
used in the Venereal sore throat - I believe in these cases, all its  
virtues arise from its local application it will not cure syphi-  
lis. In old ulcers during warm weather & the acid very much  
diluted may be used to destroy vermin which often will collect  
notwithstanding all our care. The Muriatic Acid is  
very analogous to these articles, & may perhaps be used in simi-  
lar cases - it has not however been much employed.

I now proceed to the consideration of another class of reme-  
dies - the Astringents. In the language of Ser Cullen "They are such  
substances as applied to the human body, produce a contraction & conden-  
sation in the soft solids & thereby increase their density & force of cohesion."  
He compares their action to the process of tanning - but the action  
of astringents on the living fibre must certainly be very different





from this - they do not <sup>act</sup> merely chemically, as we find, that they produce <sup>35</sup> effects sympathetically in remote parts: we must therefore regard them as possessing a peculiar stimulant power. By an impression on the stomach, they check hemorrhages. I do not agree with the books, that it is only in hemorrhages of the primæ viæ, that they are useful; we have abundant proofs, that they prove effectual in bleedings from other parts of the body as we often see in those from the uterus.

In such cases it is maintained, that they are absorbed into the circulation - but we may observe, that no such absorption was ever shown - & even if it did take place too small a quantity is carried to any particular part to produce any decided effect - Astringents possess in general either a stimulant or tonic power - from which circumstance some have denied their existence entirely, ~~as~~ classing the individual <sup>of the class</sup> under one of the above titles, but these gentlemen do not give a sufficient latitude to their definition of tonics; to include also the astringents - as these have several properties wholly distinct from those of the tonics. An astringent principle has been much sought after, the gallic acid was for a long time, believed to be it - but now tannin is generally considered in this light. This has not been sufficiently investigated - it may be procured by precipitation from any vegetable astringent by means of lime water. The use of Astringents in the cure of disease will be noticed under the individual articles, to which I now proceed.





Lecture 63<sup>rd</sup> Feb<sup>y</sup> 27<sup>th</sup>

37.

I place the Cat<sup>e</sup> of Catechu at the head of my list of astringents as being one of the best examples of this class - It is often known by the name of terra japonica. It is obtained from the E. Indies from a plant of the species of Mimosa; it is an extract prepared from the wood. It is often adulterated & has ~~often~~ therefore been condemned as useless by many practitioners. It is of yellowish red colour, has a ~~low~~ bitter & an astringent taste - is very friable - It affords a black precipitate with the salts of iron & contains 54 parts of tannin. As an external application to some old ulcers I am very partial to it, especially in ulcers from habs. known attd by the name of the horse shoe ulcer - after the free use of caustics the terra japonica produces very surprising effects. Of its internal use I have but little experience; Dr. Barton ~~has~~ has used it with columbo in obstinate cases of intermittents - It sometimes purges <sup>in diarrhea</sup>. In old glets - in leucorrhoea ~~it~~ it has been considered useful. The dose is grs.  $\frac{r}{v}$  to  $\frac{ss}$ . - The Tincture is sometimes used in doses of ~~ss~~  $\frac{ss}$  to  $\frac{ss}$ . ~~It~~ is a local application in diseases of the throat it has been used. - Kino. It is now 40 or 50 grs, since this was introduced by Dr. Fothergill as a new remedy from Africa. It is supposed to come from the bark of the Gambia - It is described as a red liquor issuing from the tree

+ It is soluble in alcohol - also in hot & even in cold water.

† The dose of the Powder is grs. ʒ. to ʒj. Till ʒj to ʒij. are given daily -

Ⓢ. It is employed internally in Hemorrh<sup>o</sup> & also externally as an injection - & also on sponges - as



which soon hardens. There can be no doubt, that it is often <sup>31</sup> adulterated - See what is said of this gum by Murray of Edinburgh. Another species is procured from Halland - which is <sup>also</sup> often adulterated. The extract of the plant is the part used & is a gum resin - it is given in powder in infusion & ~~the~~ <sup>texture, &c.</sup> Fothergill directed Zij to a pint of Spirits. In intermittents Dr. Barton directed it with gentian. In Leucorrhoea it has been employed as an injection; I have no confidence in it in gonorrhoea - the usual formula for which is undoubtedly too strong - it is Zij of kino - Zij alum - & 3℥ of water - I have employed it in diarrhoea as an ingredient in the cretaceous julep, as in the following Prescrip. 3℥. ℞ Kino 3℥. to 6℥. Zij. Ag. Zvi. Cand. 9℥. to 1℥. m. Dose 3℥ q. s. b. This is very valuable when there is much fever or inflam<sup>n</sup> attending the diarrhoea - Pemberton has recommended it in Dyspepsia & other affections of the stomach. In diabetes it is very valuable, ℞ grs. w. of Kino, with gr. j. of opium - & a diet altogether animal. will prove very efficacious - I have known a vegetable diet bring on this disease - animal diet is indispensable - Sometimes it purges - when given by itself & always when combined with calomel. Cutch bark - This is a good astringent - but is perhaps not so powerful as the Kino. All the Cases have more or less stringency - the Spanish has the most & the black the least so. The dose is 3℥. to 3℥ in

+ It has also been recommended in Lemniskog us. Vasan in-  
jection in Gleet.



in fine powder - a decoction is also used which is preferred  
by Dr Cullen - In intermittents the powder is useful - Dr  
Barton has even considered it as equal to the Peruvian bark.  
It is often employed as a gargle in Lyncanthe - the tanners  
soze water is very useful in diarrhoea & as a lotion to old  
ulcers - In better it may be tried, it now & then succeeds.

I may here mention the Galls, as being found on the branches  
of the oak, although not a vegetable production - The best  
Galls are heavy, knotty, & of a <sup>reddish</sup> ~~black~~ colour, the infusion reddens  
vegetable colours. They contain a large quantity of tannin. The  
Aleppo galls are considered as the best. They are adapted  
to all cases, in which the oak bark is useful - & I employ  
them to the exclusion of the latter - I have never employ-  
ed them in intermittents - but they have been usefully given  
in doses of from grs  $\times$  to  $\mathcal{Z}\text{ss}$  with Calumbe. - I have  
found them most useful in the latter stages of yellow  
fever & dysentery - where they have proved very valuable  
they are given as in the following formula - of Aleppo  
galls  $\mathcal{Z}\text{ij}$  of cinnamon & orange peel  $\mathcal{Z}\text{ss}$ . brandy one  
pint boil it to half a pint that all the alcohol may be eva-  
porated & give  $\mathcal{Z}\text{ss}$  every 2 hours. In chronic diar-  
rhoea this same formula will be useful - In the  
form of an ointment - the galls have been used in Hemor-  
rhoids with advantage - also in prolapsus ani - here

†. The decoction has a sweetish taste - & will therefore be ~~more~~ readily taken by children - which is no trifling advantage of this article. The dose to a child three years old is  $\mathfrak{z}\text{ss}$  of the decoction - to an adult the extract may be given in the dose of  $\mathfrak{ʒi}$ . to  $\mathfrak{ʒij}$ . —



however they have been little used of late years in this city, the  
diet of rye must as proposed by Dr P. Physick proving altogether  
the effectual - ~~They~~ They have been employed in Gleet  
Gonorrhoea - Leucorrhoea &c &c

Haematoxylon Campubense - or Logwood - A decoction of  
this has become very fashionable in this city as an astringent.  
ʒi - to pt of water - ʒij being given to adults every 2 hrs.  
In latter stages of Cholera morbus it is very successful  
proving an agreeable tonic. The Geranium Maculatum  
is a bitter & astringent - it grows plentifully in the N.S.  
It is much used in many bowel complaints by many of  
our physicians - However place but little confidence  
in it - it has been too much extolled; the dose is not precise.

Black Alder - <sup>or Prinos Verticillatus.</sup> this also possesses some bitterness & as-  
tringency - the ʒ is a popular remedy in many cases -  
Dr Please has recommended it, in shortification but blb-  
ters are far preferable - It may be tried in intermittents  
where it is said to succeed - The black berry - &  
the Dew berry - the rubus villosa, & the rubus procum-  
bens of the Botanists. Every part of these plants is  
astringent, but the root is chiefly used - a decoction of this  
is made of ʒi to a pint - the dose is ʒss. It is useful  
in dysentery & in cholera ~~infantum~~ morbus after the ins. lam-  
g-symptoms have subsided - Dr Chapman recommends it  
highly & although I think it useful - yet I cannot

†. It has been employed as a Tonic in Gleet & Leucorrhoea which are not unfrequently termed weaknesses. This however is incorrect, as the part so far from being weak is actually performing double duty. when there is an increased action, the power of the part must also be increased. certainly not diminished.



agree with him as to its superiority to many others. 45.

The Uva Ursi is not a mere astringent we have already noticed it under the head of antilitics. As an astringent it is employed in gonorrhoea & in fluxus albus. In consumption & in dyspepsia it has proved useful as a tonic. Dose ℥ss. to ʒi. —

Mineral Astringents.  
Cron - This in its metallic state does not appear to possess much astringency - but it may meet with tartaric acid in the stomach which will render it active - One proof of its astringency has been stated, as having power to check discharges from the bowels - but this might depend on some other power - The Medical virtues of this metal have been noticed on a former occasion - Cusprum - The preparations of this are also valuable - Solutions of the blue vitriol are often used as collyria -

Silver. This does not possess much power as an astringent.

Zinc - The Sulphate & Acetate of zinc are much used - The sulphate is often employed as a collyrium & also in injections for Gleet. The most valuable preparation of Lead is the sugar of lead - which is a super acetate of this metal - the true acetate is Goulard's extract. In cases of Phlegmon a solution of this mixed with a poultice is very useful. It has been ~~not~~ employed internally - but its poisonous effects which have been long known, have prevented its being generally employed. In persons employed in smelting factories of this article it produces deleterious effects -

+ Death is not unfrequently the consequent. — at first  
it is not easy to distinguish it from the other forms of colic  
but soon it is marked by a weakness & numbness in the hands  
& feet. — It is very common in the West Indies.



The countenance becomes sallow & pale - & that dreadful vom<sup>47</sup>  
plaint is induced known by the ~~com~~ names of Colica Pictonum  
Curinam Colic - dry belly ache &c &c - persons dwelling in the  
neighbourhood of lead mines are also subject to it. It begins  
with a sense of weight in the abdomen - accompanied by con-  
stiveness & slight pain - this soon becomes more severe & is spi-  
ritually very violent. - The more permanent effects are palsy  
of the extremities - & debility even where it terminates most  
favourably - Chaptal thinks that it is often produced by  
drinking wines, which have been cleared by throwing pieces  
of lead into them - & I have known it produced by ~~cleaning~~  
~~bottles with shot~~ the use of liquors kept in bottles which  
had been cleaned by means of shot. But there are other re-  
mote causes to this disease - Baber maintains, that it is  
also produced by copper & antimony -  
Lead when taken largely produces the serious effects above  
mentioned. The best practice, I believe, in such cases, is to  
evacuate the stomach & bowels by emetics & cathartics. Castor  
oil is much used in these cases. As to guarding the system I  
have no confidence in any article. Dr Sint states that  
gr. j. accelerates the pulse, but afterwards the pulse is  
depressed - It has however been taken to ℥j. every day  
for 8 days without any injurious effects.

*[Faint, illegible handwriting throughout the page]*



Lecture by <sup>the</sup> Feb<sup>r</sup> 18<sup>th</sup>

49.

The Sacch. Saturnin<sup>m</sup> is used in many diseases. Dr. Barton employed it in obstinate intermittents - The reports on this point are not very favourable - In Epilepsy it has been used with advantage in many cases suspending the attacks for a long period. Dr. Whisk effected a cure with it - but it brought on the colica Pictorum. I should not therefore be employed <sup>for a long time</sup> - In Portugal it has been recommended by the English practitioners, but this will not answer in this country. Mr. Hunter advises it in Tetanus but I think that it can be of any good - unless by exciting a disease more powerful than the original one - It has been tried in many cases, but with no great success. In Mania it has proved ineffectual in many instances in which it has been tried. Whatever views may be entertained of its stimulant power, all acknowledge that its effects are sooner or later sedative it has therefore been recommended during an inflamed state of the bowels. Of the propriety of this I have great doubts founded both on reason & experience - We know that the sugar of lead is irritating to the bowels in an healthy state & no reason can be assigned why it should be <sup>not</sup> so, in a diseased state - more over we know that it is injurious in Dysentery. Dr. Barton recommends it in Cholera Morbus & in chronic diarrhoea - However I think that it should not be used in these cases, I have mentioned already

f. There can be no doubt that it is useful in these cases, but it is also valuable in every other form of Hemorrhage. I have treated a vomiting of blood, which I believe came from the liver, with success by exhibiting gr: iij of the Sugar of lead with gr: ʒo of opium—

h. This combination is very useful, especially when opium is added— The Peac: is probably resorted to in doing away the stimulant effects of the opium—

But I have been more successful with the R<sup>o</sup> of Turpentine & Balsam of Copaiva—



the proper remedies - In leucorrhoea <sup>or in Gonorrhoea</sup> it is employed either alone or  
 in combination <sup>as an injection</sup> - the proportion varying from gr. ij to ℥. to the  
 ℥iij. In Hemorrhagy it is much employed, in that, from the pri-  
 me vice Rhoderic believes it to be infallibly observed that if there  
 be any specific it is this article <sup>in any, or a cal</sup> <sup>in the hemorrh & from the vessels</sup> - ~~It is inaccurate language in the~~  
~~text~~ As an astringent it is employed in various Hemorrhages -  
 It is adapted to cases where other articles are too stimulating: as in  
 the Hemorrhages in yellow fever. Here Dr Barton gives it in very  
 small doses combined with op<sup>m</sup> I prefer larger ones - gr. ij of  
 sugar of lead with gr. ss. of opium. Dr Shaw has given as much  
 as gr. x. in Hemorrhagy - the largest dose given by Dr Barton was  
 grs. viij. I have never given more than gr. v. Dr Barton often  
 combined with oak bark gr. i of ipecac. In mictus cruentus it  
 has a good effect: as also in Cystitis. - Several of the prepara-  
 tions of lead are employed as local remedies. Litherge mixed with  
 oil forms the common litherge plaster - & with resins it enters  
 into the composition of most of our plasters. Cerusee or  
 white lead is used as a powder to dust slight excoriations,  
 its long continued use in this way is likely to prove injurious  
 it is also employed as a cosmetic - I often add ℥i of  
 cerusee to ℥i of simple cerate as an ointment for burns,  
 in those cases where the turpentine proves too stimulating  
 this is an admirable remedy & one which I think you  
 would all be pleased with. For hemorrhoids

52.



mix the ceruse into a paste with lard & add a little laudanum - this although it does not form a very handsome mixture, yet promissary useful -

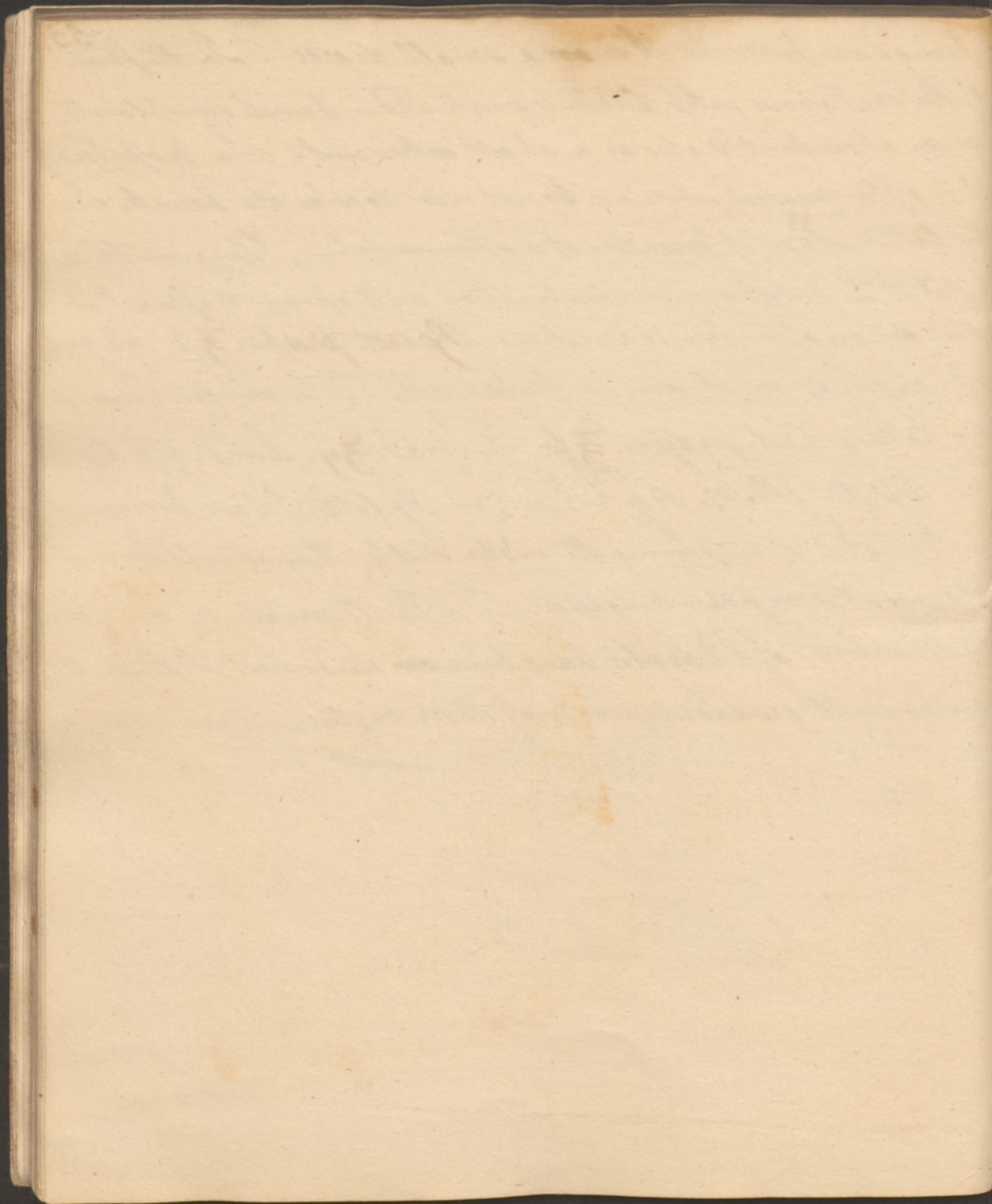
There are few earthy salts which are employed as astringents - Alum - this is found very plentifully in every part of our own country & also in Europe - It is a powerful styptic & has been employed in several diseases. In intermittents it has been celebrated even as equal to the bark - but this far from being correct - Palmer has recommended it in bilious Fevers - & in some of the complaints of the stomach & bowels - as in cholera Morbus - but it can only answer for the latter stages of these diseases. It has been used in hemorrhages - in hemoptysis in hemorrhage from the uterus In profuse Menarchia Dr Thomson thinks that there is nothing equal to it. in hemorrhage, it is employed externally & internally; also in Gonorrhoea - Dr Wistar was successful with it in a case of diabetes, as a styptic it is used as a collyrium in some cases of chronic Ophthalmia - the alum used which has been much used in these cases is not possessed of any peculiar properties - With sage tea the alum is often used as a gargle in quinsy - Burnt alum is employed as an escharotic in fungous ulcers. - Creta preparata is procured from the mineral Kingdom in the greatest quantity although the animal

54.

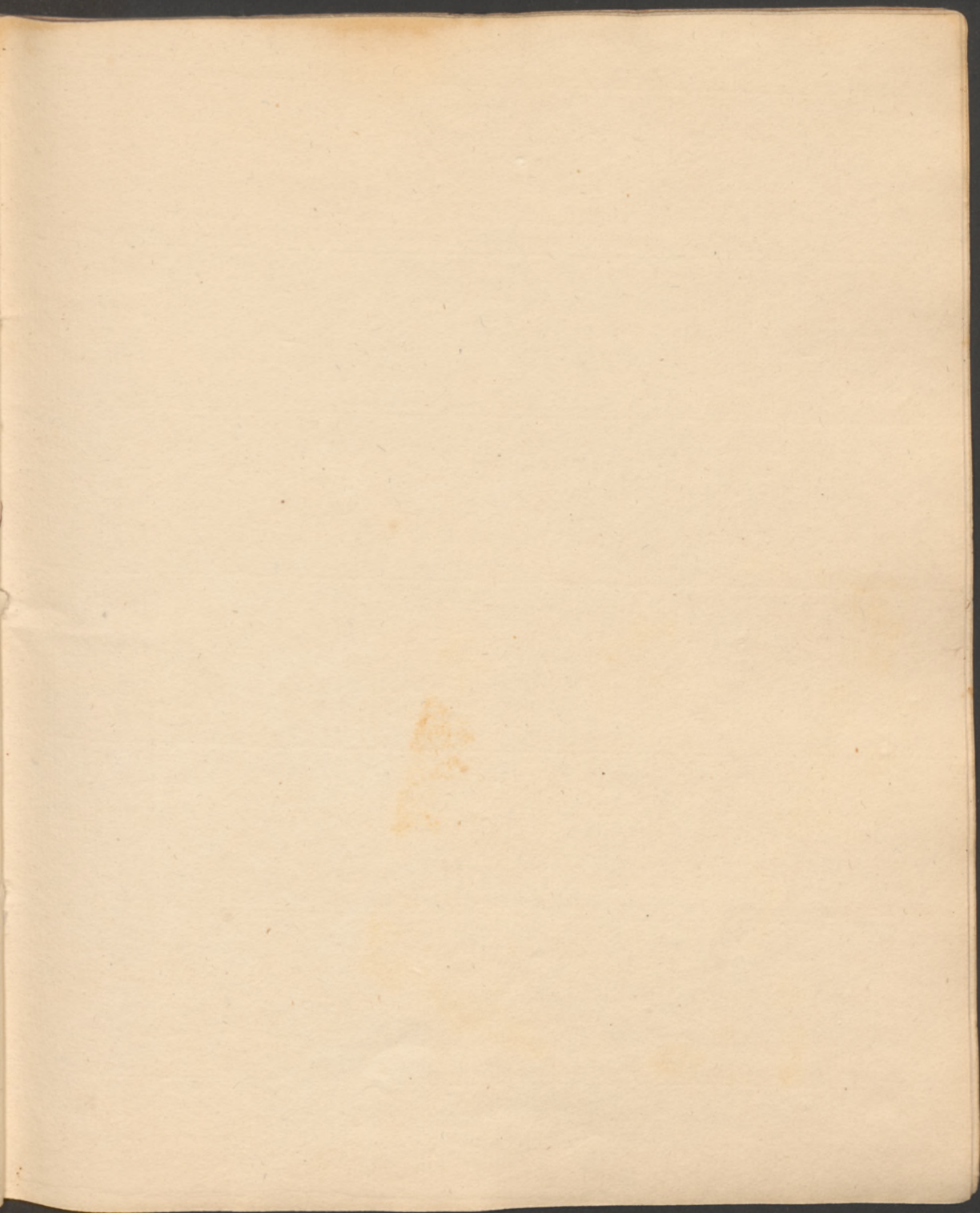


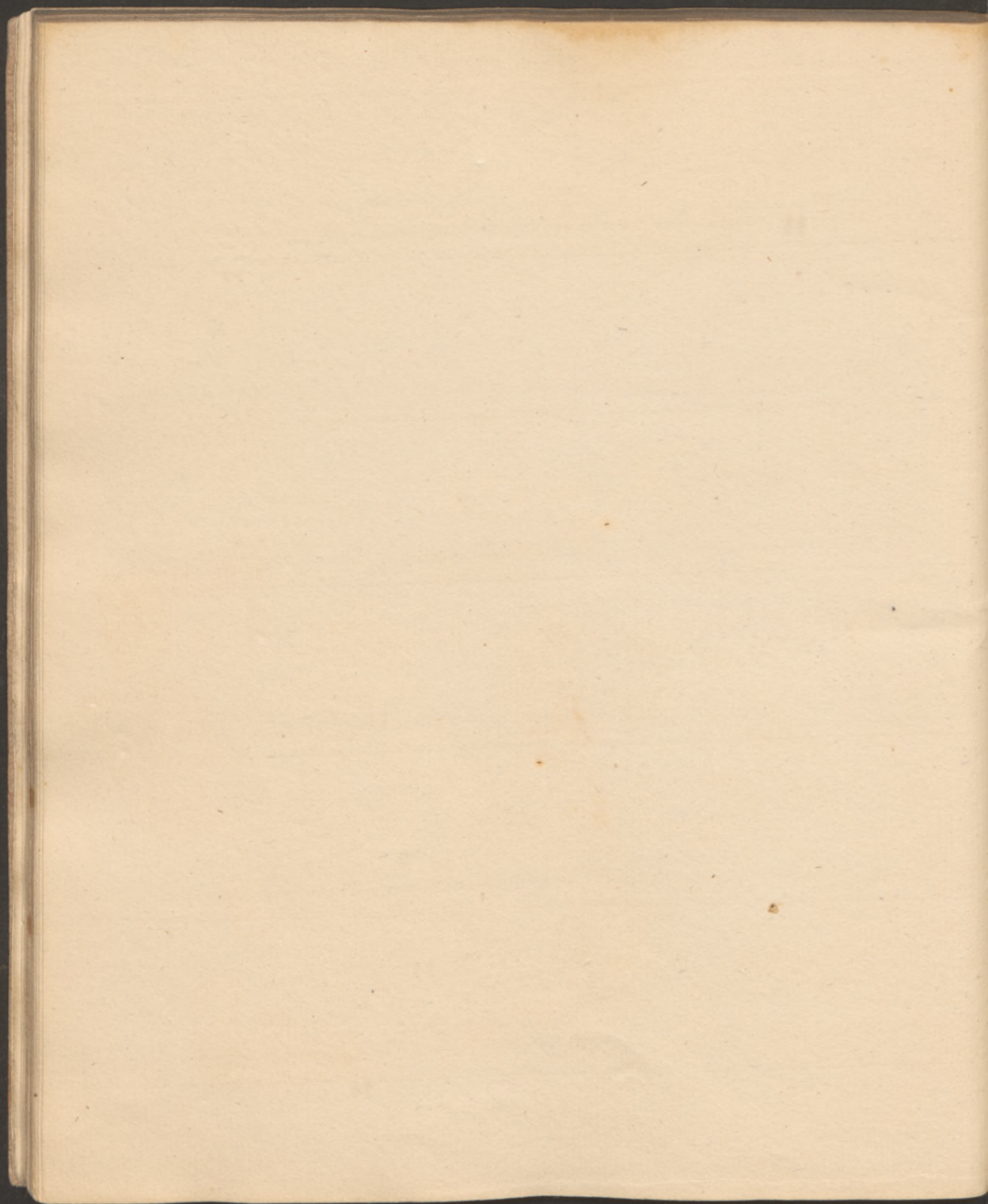
Kingdom furnishes it in ~~an~~ a small degree - In the form  
of the cretaceous julep, chalk is much used in bowel complaints  
as an absorbent & also as a slight astringent. In dyspepsia  
it is often useful, where we do not wish to relax the bowels. In  
the latter stage of dysentery it is often useful - I frequently ex-  
hibit it in sublt once in combination with opium & ipecac<sup>a</sup> in  
this disease after free evacuations. *℞ cret. prepar. ℥ss. op. gr. iij.*  
*ipecac. gr. iv. m. et div. in pulver. viij.* The mixture is made  
by taking *cret. prepar. ℥ss. G. Arab. ℥ij. Laud. gtt. lxx.*  
*M. Menth. gtt. vi. Ag. ℥vi. m.* - Of late I have been much  
in the habit of employing the oyster shells, they should be well  
cleaned & very finely levigated. - The Murrate of lime &  
the Murrate of Potash have been ~~now~~ used - but I think there  
are no well grounded proofs of their virtues.

Lime

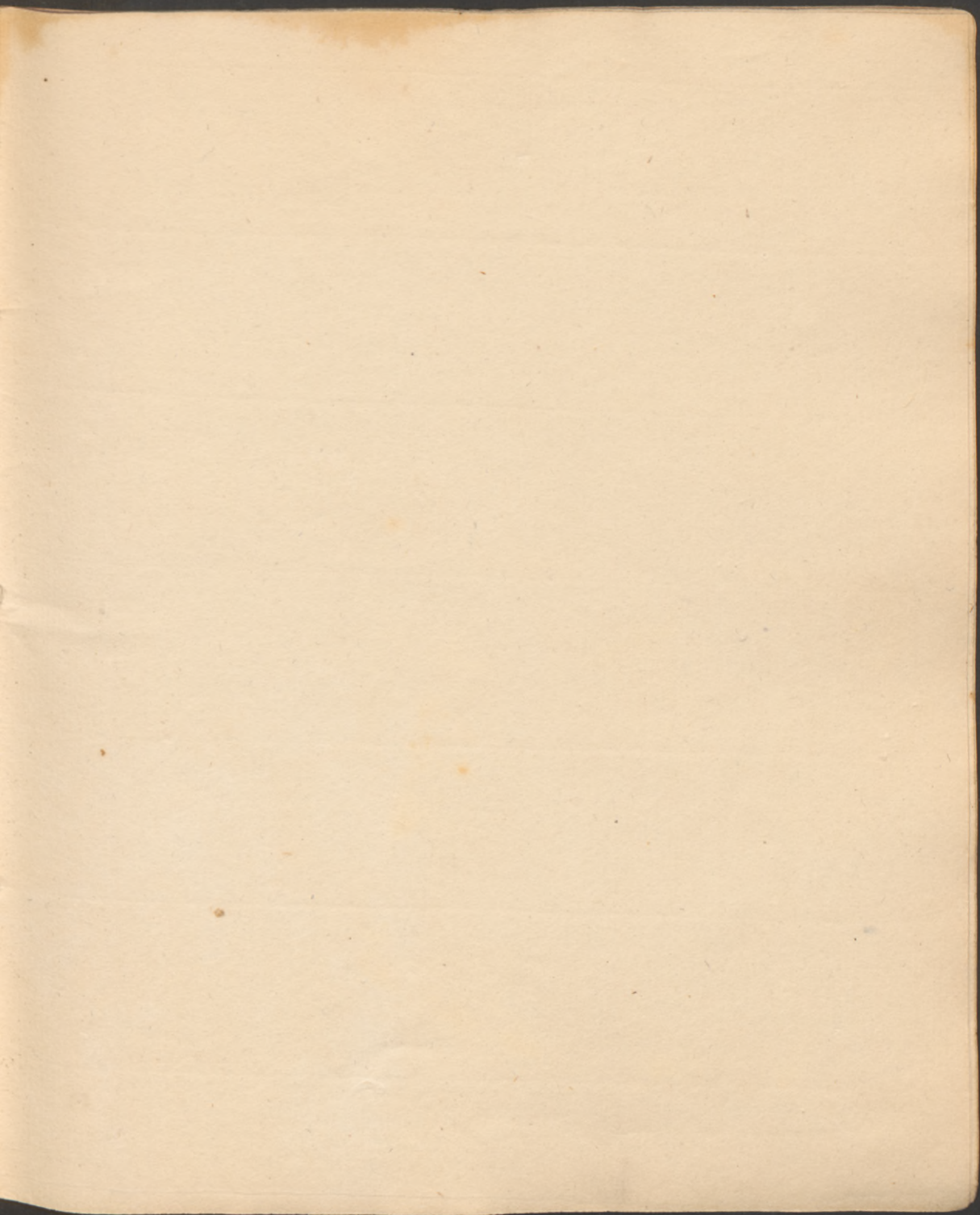


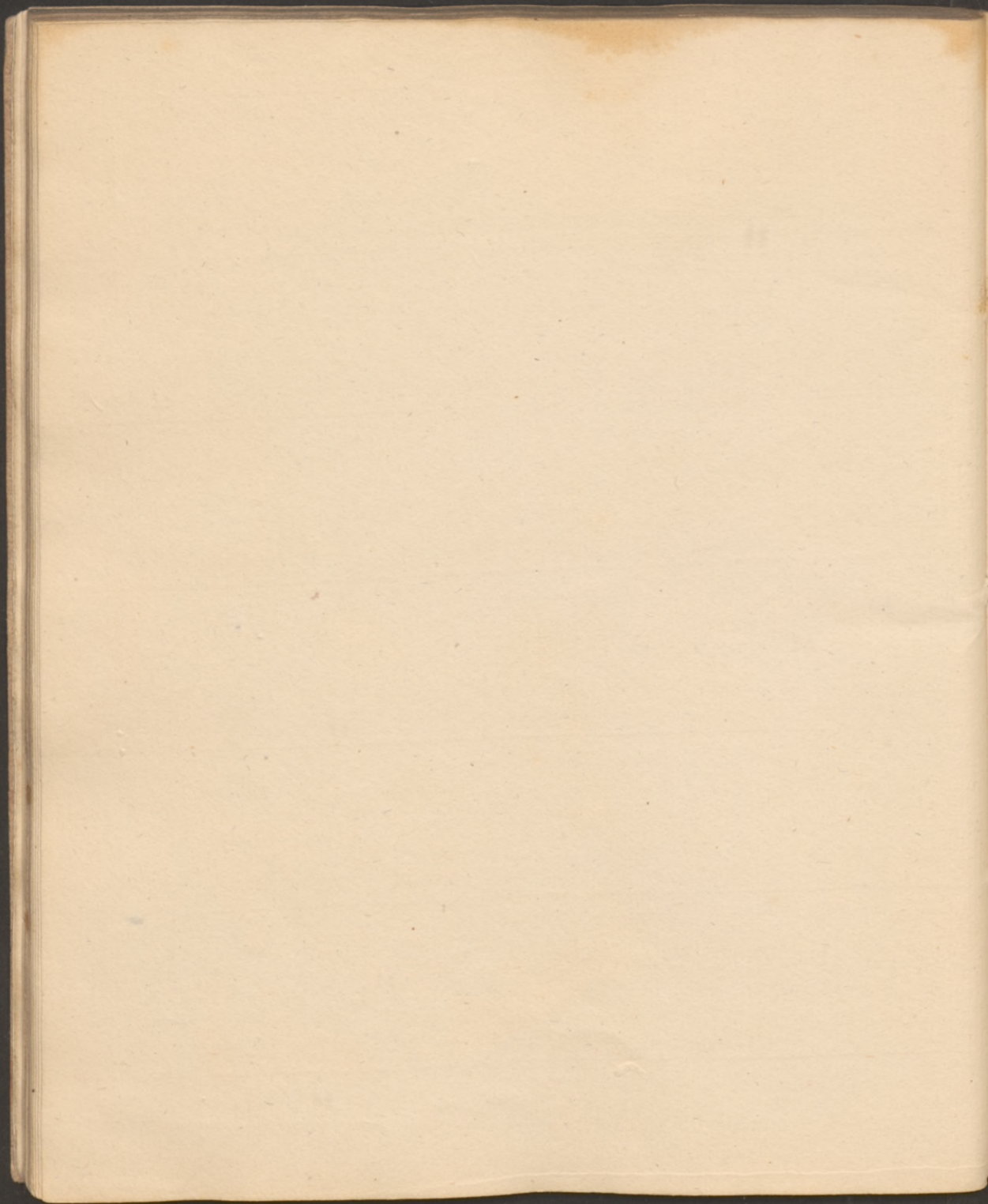




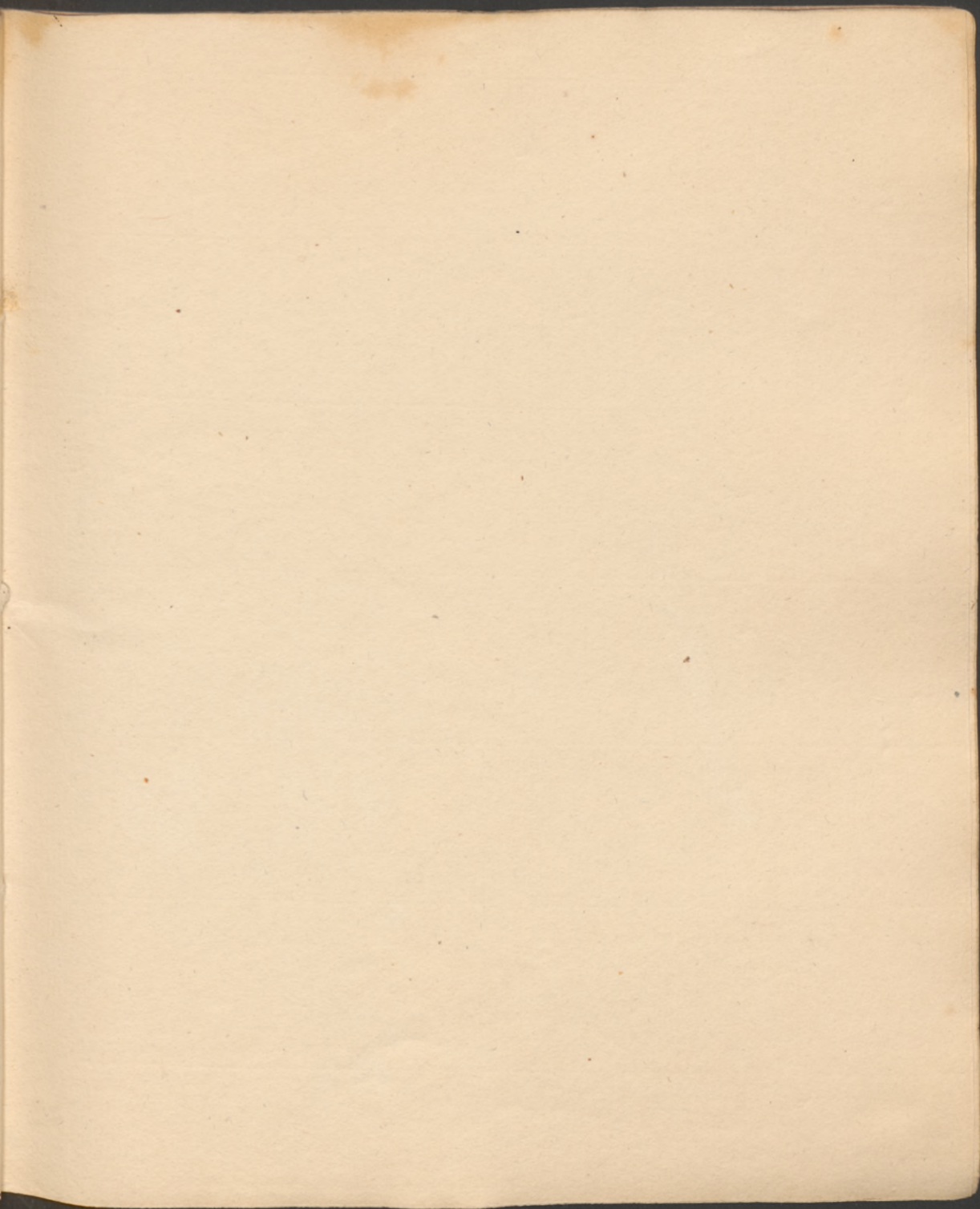


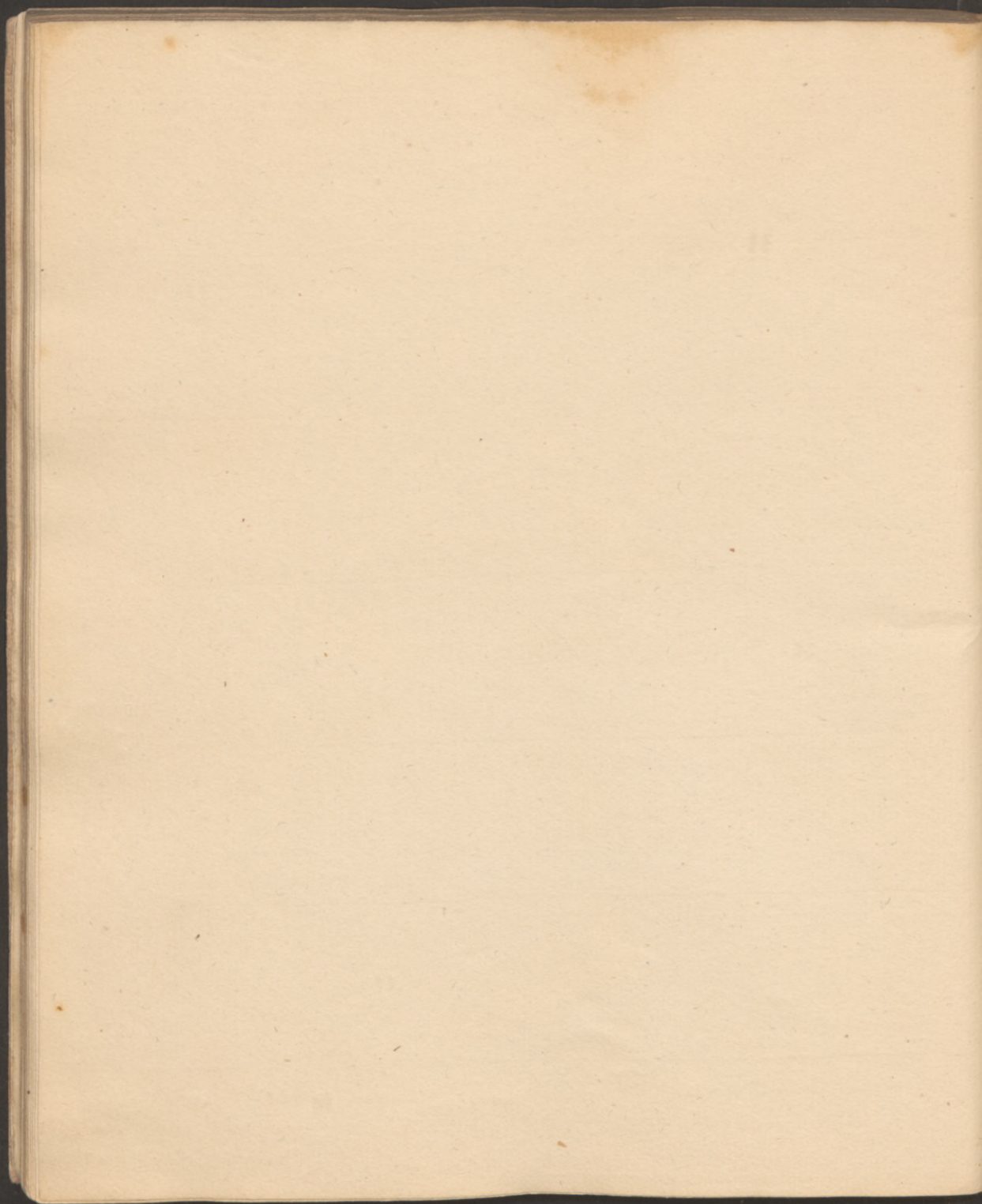




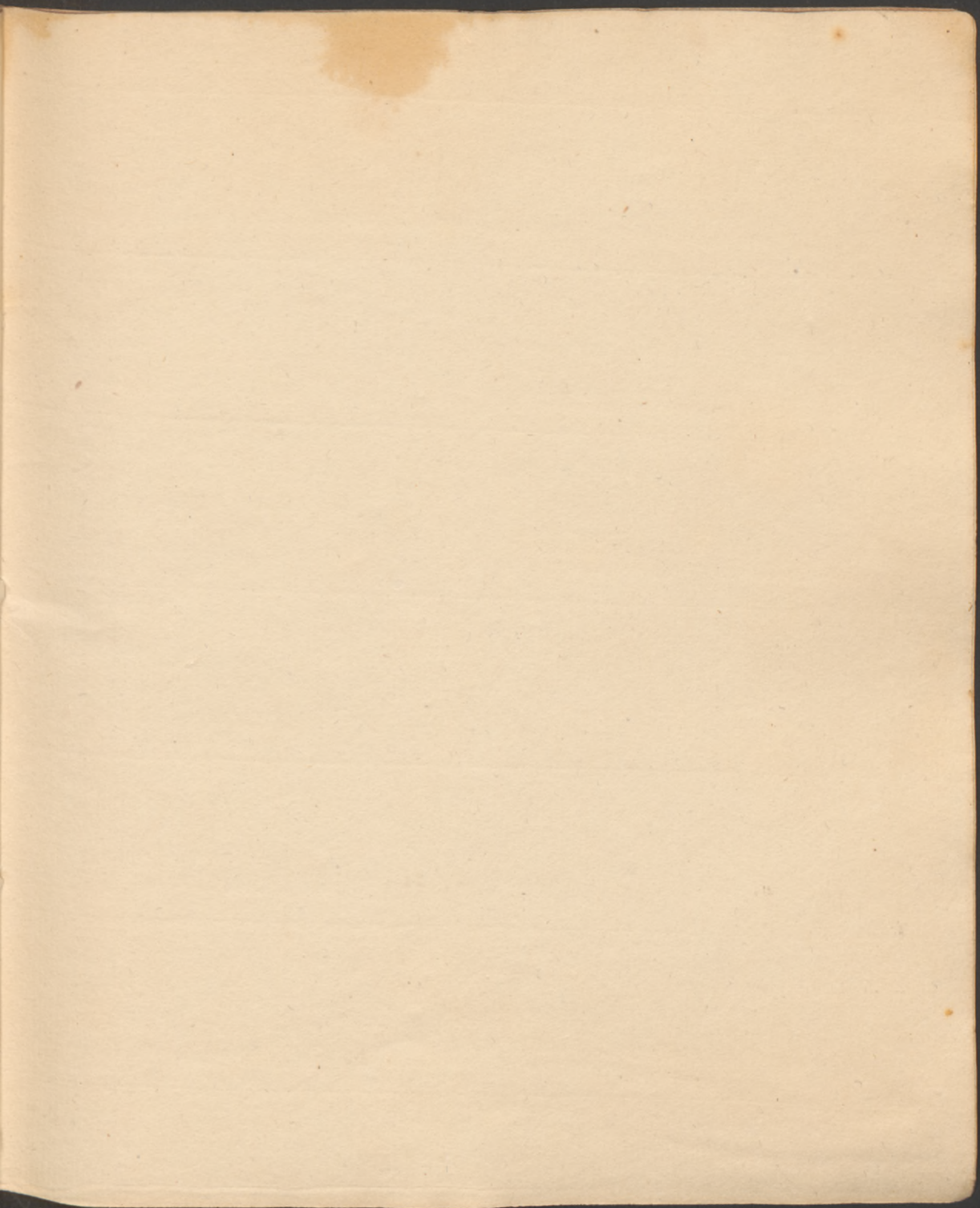


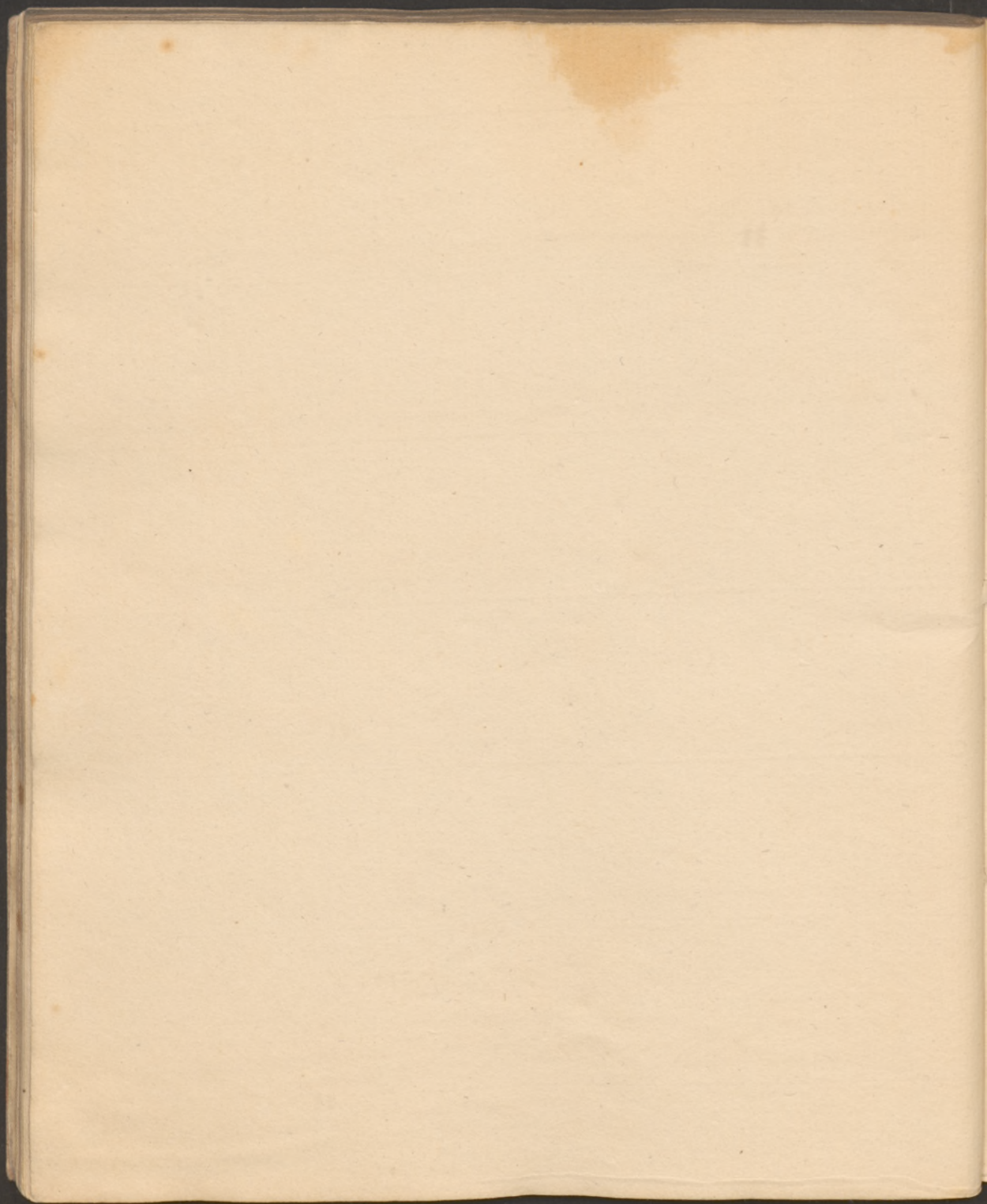




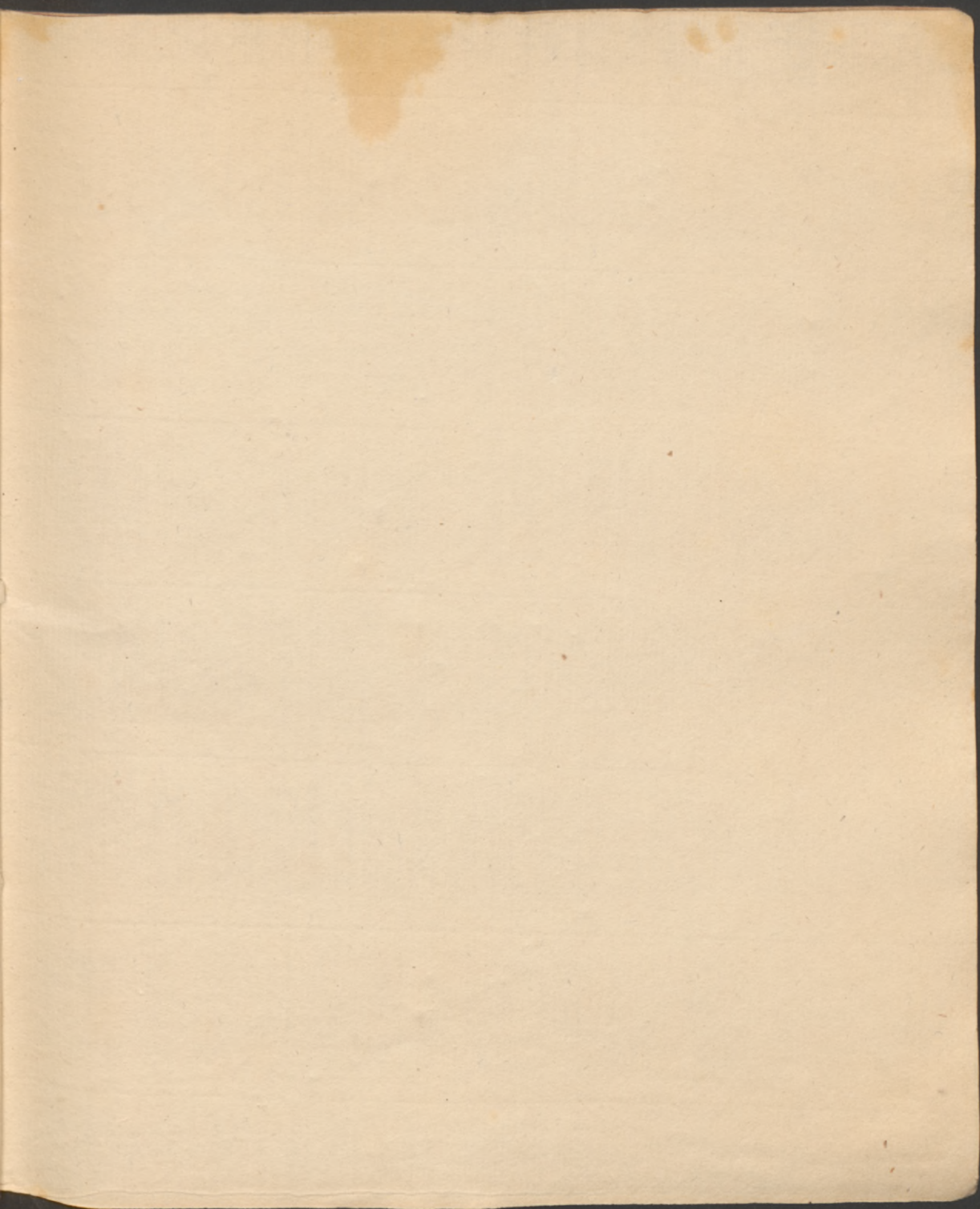


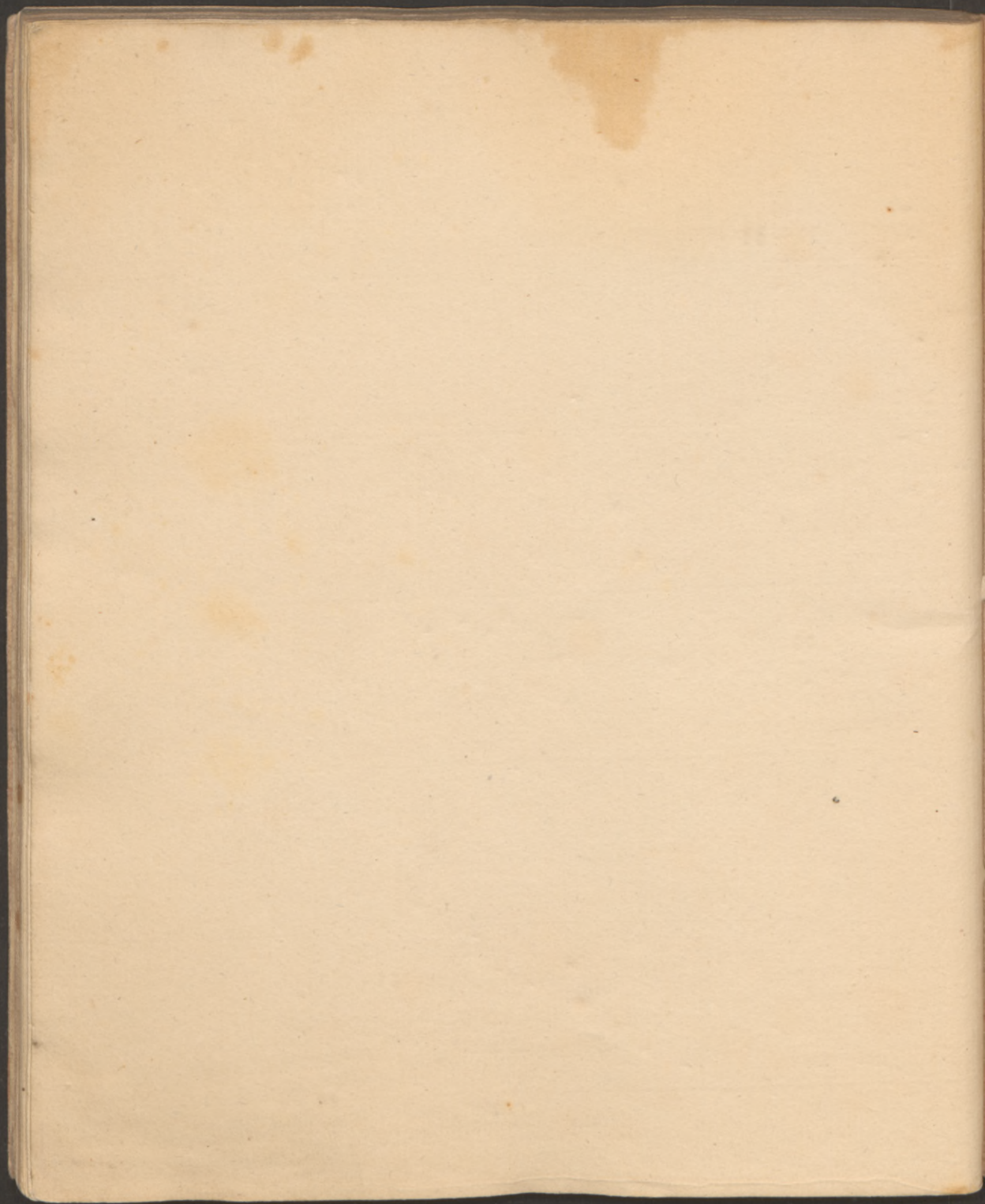














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