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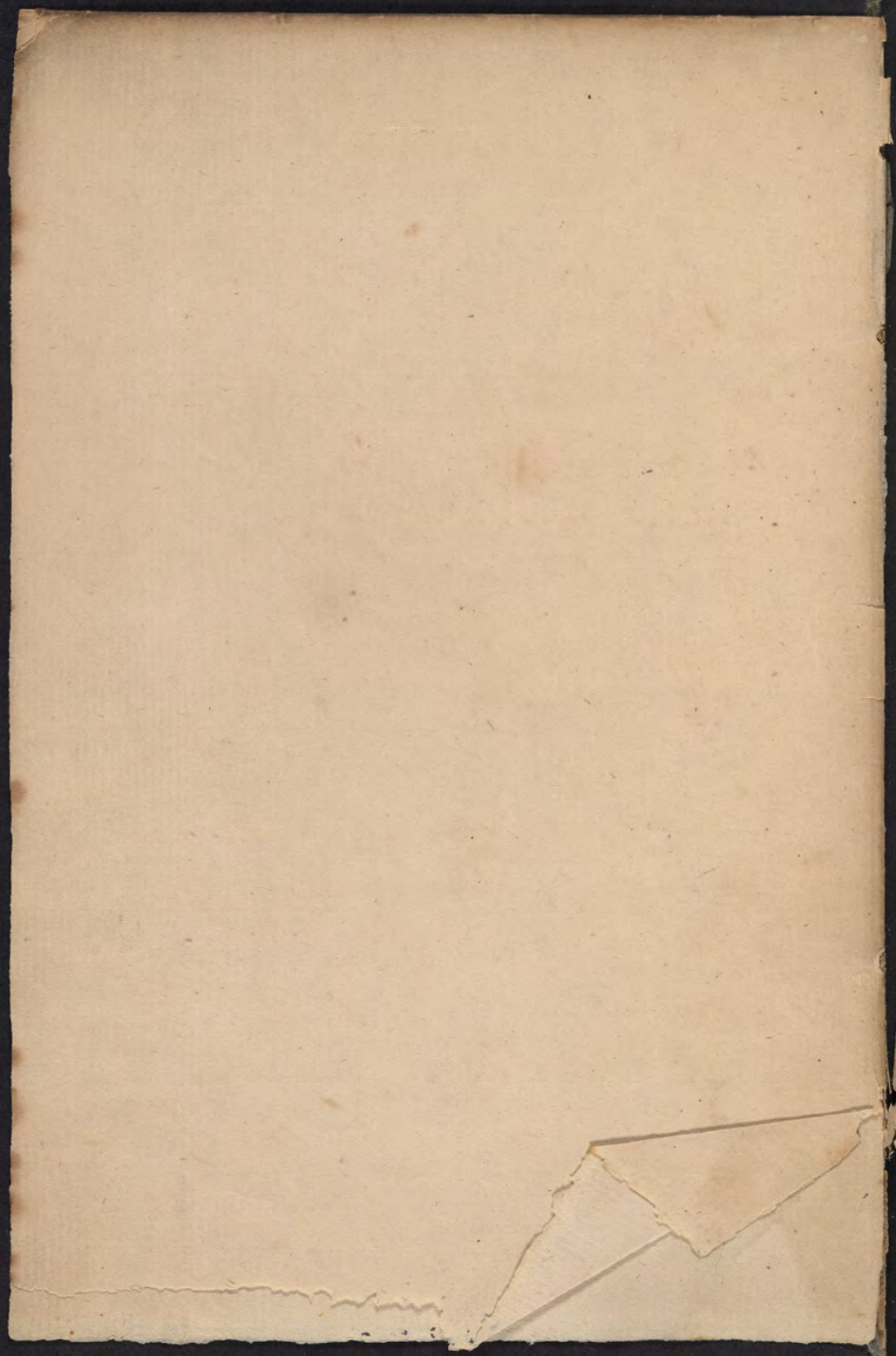
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1806-07

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1.
Lectures on Materia-Medica

By
D. Barton. M. D.

November 4th

1806. Introductory Lecture.

1. The origin of this science - Has been much derisively & fallibly. May be looked for in the instinctive operations of animals as well as of remotest periods. All Nations have Physicians - The ~~Staple~~ cure of venereal diseases by their remedies. The Six Nations have 15 different Emetics. Hot baths common among the surgeons of the two countries. Instinctive in the Bear, ^{leads him to} eat Skunk-cabbage after hibernating. In Asia the largest portion of

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(2)
information was first treasured
up. The Egyptians not an indige-
nous race of men. Their Medicines
principally Vegetables. Among
of first acquainted with opium
their practice feeble. The Greeks
acquainted with some mineral
medicines. Hippocrates of the
School of Esculapius. The igno-
rance of the Ancients respecting
an appropriate Botanical Science
was an unable to understand
what medicines used by them.
Not long after Hippocrates, Aristotle
Theophrastus appeared -
Erasistratus 300 y. after Arist-
otle - A man of much learning
In Dysentery, trusted to eating
Mould, but seldom, bled -
Contemporary with Aristotle

was Theraputicus - Adept in
 a sect of Empirics - Their
 Founder was Praxagoras - He
 practised as we do in Columbus
 used powerful remedies. This
 sect contributed much to the
 improvement of medicine
 among the Romans medicine
 made little progress. Cornelius
 Celsus of only native of Rome
 of eminence - Devoted
 much attention to aliments
 but less to medicine.
 His status of a superintendent
 Has been called by Cicero of
 Physician - Aegius treats of
 of compositions of medicine
 Cullen says Aegius not much
 to be trusted to -

14
Diacorides lived in the
time of Vespaſianus. He
enumerates 700 medicines
Can't judge wth respect to
y^e power of his medicine
His judgement questionable
Mentions medicines which
consume y^e spleen & y^e like
Some Moderns as foolish
as Dioscorides. Next y^e
elder Pliny. Is a man
compiler thro' his work
has merit - born y^e
Gallia. Travelled much &
for some time resided in
Rome. Said y^e power of
medicines depended upon
their qualities of hot & cold.

This doctrine now discarded
 tho' much followed in Greece
 for many hundred years.
 He attended to every branch
 of medicine studied in his
 time. Not a great Botanist
 Boerhaave says was of great
 service as well as injury to
 medicine. The opinion of
 of soul's being material or
 immaterial, makes no
 change in practice. The
 system of Galen continued
 for a long period more so
 than any future doctrine
 Aniharius employed active
 medicines & blood freely in
 malignant fevers. He took
 Hij at an bleeding -

(6)

The Arabians introduced
several useful medicines
such as Senna, Manna &c
Thro' them of most useful
& noble sciences have pen-
etrated into Europe countries
They, wth Father of Chemistry
The little Physics in w^{ch} middle
ages was in w^{ch} hands of the
Clergy & In w^{ch} beginning of w^{ch}
15th century printing broke
strong chains of barbarism
first printed in 1469 - In
1478 Dioscorides printed -
Next of chemical Materia
medica to be considered -
In 14th & 15th c. many began alchemy
Arnoldus first introduced
Chemistry it is said -

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This disputed - ~~But~~ could
dispute for a day on a subject
which he did not understand
When he began chemistry
~~his dissertation~~, he said, want
he could not use his transcen-
dental art. The Chemical
Philosophers of this period
desiderated - At first great
Enthusiasts.

This experiment - July 1850
The first part of the experiment was a
success. The other part was not.
When the paper chemistry
was started in the year 1850
could not see any progress
made out of the chemistry
The experiment of the paper
was not successful - all the
paper was lost.

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Continuation of 4th L.
Lectur 2. *Introductory;*

The Egyptians possessed of
Sciences earlier than Ro-
mans or Greeks. They not
only collected information
from others, but by their own
industry & genius, much
improved of Sciences -
Not long after the appearance
of Chemical Physicians a
Sect appeared who main-
tained & lived by any man
might be prolonged to any
age by their medicines
The venereal disease unjustly

Constitution of the
State of New York

The People of the State of New York
do hereby certify that the following
is a true and correct copy of the
Constitution of the State of New York
as amended to the 1st of January
1892.

supposed to have been import^{ed}
ted from America. The Chemists
acquired much celebrity by the
use of Mercury in this disease
& thereby gained ascendancy
over the Schools -

This disease supposes a modifica-
tion of Leprosy. B. Lon-
notius of Paracelsus - was
born in 1493 in Switzerland
when 3 years was mutilated
& supposed an enemy to women
He visited the Universities of
Germany, Spain, France &
Highly appreciated the writings
of the Ancients. Became Pro-
fessor in 1527 at Basil
while here burned the writings
of Galen &c. Died in 1541 at
an Inn. From the fame
of this man much fame
must have resulted to his

to his Country. 36 years ^{old} after
John Baptist Vanhelmont
appeared. Spent 50 y. in
distillations. Died in
1544. Was fond of chemical
as well as more simple Med-
icines. As a Physician,
however, not successful.
Could not cure his Daughter
with Leprey prescribed for
2 y. In his own case a spitting
of blood was treated with
goats blood. From this,
it is presumable not a great
Practitioner. He was, however,
certainly a Man of a sagacious
genius. Chemical prevailed
more in Germany than any
other Country. Serenius a
Galenist & laboured to re-
concile y. Galenists & Chemists.

(111)

~~1644~~ Early in 17th century
Sennertus was called to
England when appointed
Physician to King James.

~~In 1666 in Paris~~ The Doc-
trine of Signatures or late
1756 if not in this day main-
tained - Francis Silius
De Labo
of founder of 3^d great sect

The supposed most disorder
was owing to superabundant
acid - He accordingly often
used absorbents - Attached too
much to a hot regimen -

~~John Shoda~~ In 1749 Sin-
naeus published his *Mat. Med.*

It was a small & by no
means useful volume -

Bergius *Mat. Med. fada* -

1770
The first of the century

was a year of great

importance to the

country

and the world

in general

and in particular

to the colonies

of North America

and the West Indies

and the South Sea Islands

and the Cape of Good Hope

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In 1789 Cullen published his
Mat: Medica - This work good
but not so much so as desired
It is a Student preferable to
Murray who considers only
Vegetables - Within of last
20 y. as much cultivated
as any other branch. It now
embraces but few specific
medicines - Germany has
furnished some of the best
books on this subject -
The present course will
be much more full than
any previous course -
Those on Elements must
now full - A view of the
Natural history of the
human body will be taken

1789
The present course will
be much more full than
any former one
There are several things
which have been
done in the
history of
the body with
reference to
the present
course will
be much more
full than
any former
one
There are
several things
which have
been done
in the
history of
the body
with
reference
to the
present
course
will
be much
more
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any
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one

Consists of the history of various means of obtaining an acct of medicinal substances
 Man is instinctively propelled to use Medicines
 as well as take nourishment

Chemical examination

Botanical —

Sensible qualities

Signatures -

This doctrine much in vogue among our Indians

The Mitchellian reports are treated by this people with
 hesitation -

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October 2

Dear Mother
I received your letter of the 21st
and was glad to hear from you
and to hear that you were all
well. I am well at present
and hope these few lines will
find you all the same.

Yours affectionately
John

I have not much news to write
at present. I am still in
the same place and doing
the same work. I hope to
write you again soon.

(14)

A plants resembling
certain parts useful
for them when diseased

This doctrine not
yet discarded by men
of eminence—

This doctrine has
been useful by ex-
tending our information
of vegetables

111

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March 7

of Chemical Resolutions

The study of chemistry
 is of great importance
 in the study of Mat. Med.

This science conducts
 the student to the
 powers of vegetables
 as has, erroneously,
 been supposed.

The study of chemistry
 is a branch of natural philosophy
 which treats of the properties
 and changes of matter
 and the forces which act upon it
 and the laws which govern its
 behavior.

This doctrine seldom leads to new virtues of plants which was not before known.

The conclusion is that chemical analysis of no use in discovering virtues of plants
Gem: nature chemically, yielded by same ~~part~~ as
of poison of it wiper -

of Botanical method
of discovering of virtues
of plants - By Botanical
affinity is meant that
resemblance between un-
getably distinct from
each other as it respects their
fructification - Ex. The analogy
between Muller & Holy oak,
is Bot: affinity -

Faint, illegible handwritten text in cursive script, possibly bleed-through from the reverse side of the page.



By simple distillation 17
Ammoniac may be obtained
from *γ* Tetradynamia. The
different species of *γ* same
genus of plants have often
very different properties

The Cucurbit & Colycinth are
two species of *γ* same genus.
Observe their difference -
~~Differ~~ One species of *Physalis*
very innocent tho' some very
poisonous - The natural
orders are also very excep-
tionable in this respect -

The Graminae have all similar
properties except *γ* Colicium
is a felix which is very poi-
sonous - The verberum is
enraged with *γ* Lucida
of which a few except
γ Muller's which however

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is in some measure active ¹⁸
for it will Kill Fish. This
therefore is not a happy in-
stance. The Sciridae are all
poisonous or nearly so; tho'
^{all} ~~some~~ have qualities peculiar
to each. The Digitalis has
been confounded with the sym-
phitum or Comfrey. Her-
Botanical Analogy decides.
The Cruciform or Tetradynamous
abound in a watery juice
acid, stimulant, taken in
effect of pulse, kidneys &c.
The Mustard, has a radish
action, the turnip ~~is~~ mild.
The ~~Propaganda~~ The root of the
Podophyllum peltatum or May-apple

[Faint, mirrored handwriting, likely bleed-through from the reverse side of the page. The text is illegible due to fading and bleed-through.]

is purgative, leaves poisonous ¹¹⁹
A fruit excellent - ~~The fruit~~
~~The seed~~ Virgil's Miscum papaver
of the part of vegetable
was eaten by ~~the Romans~~.

The Botanical Affinity of
importance.

Lecture 4.

The effect of climate prevents
correct information from Botanical
Affinity. The juice of r. plant
has more sugar in warm than
in cold climates.

of Sensible Qualities
of Substances in pointing out
their medical virtues -

The ancient used two sets of
means in their discovering
virtues - 1. from their habits
2. from their taste & smell -

[Faint, illegible handwriting on aged paper]

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These methods sometimes
accurate & as natural &
have been employed in all
countries by all nations

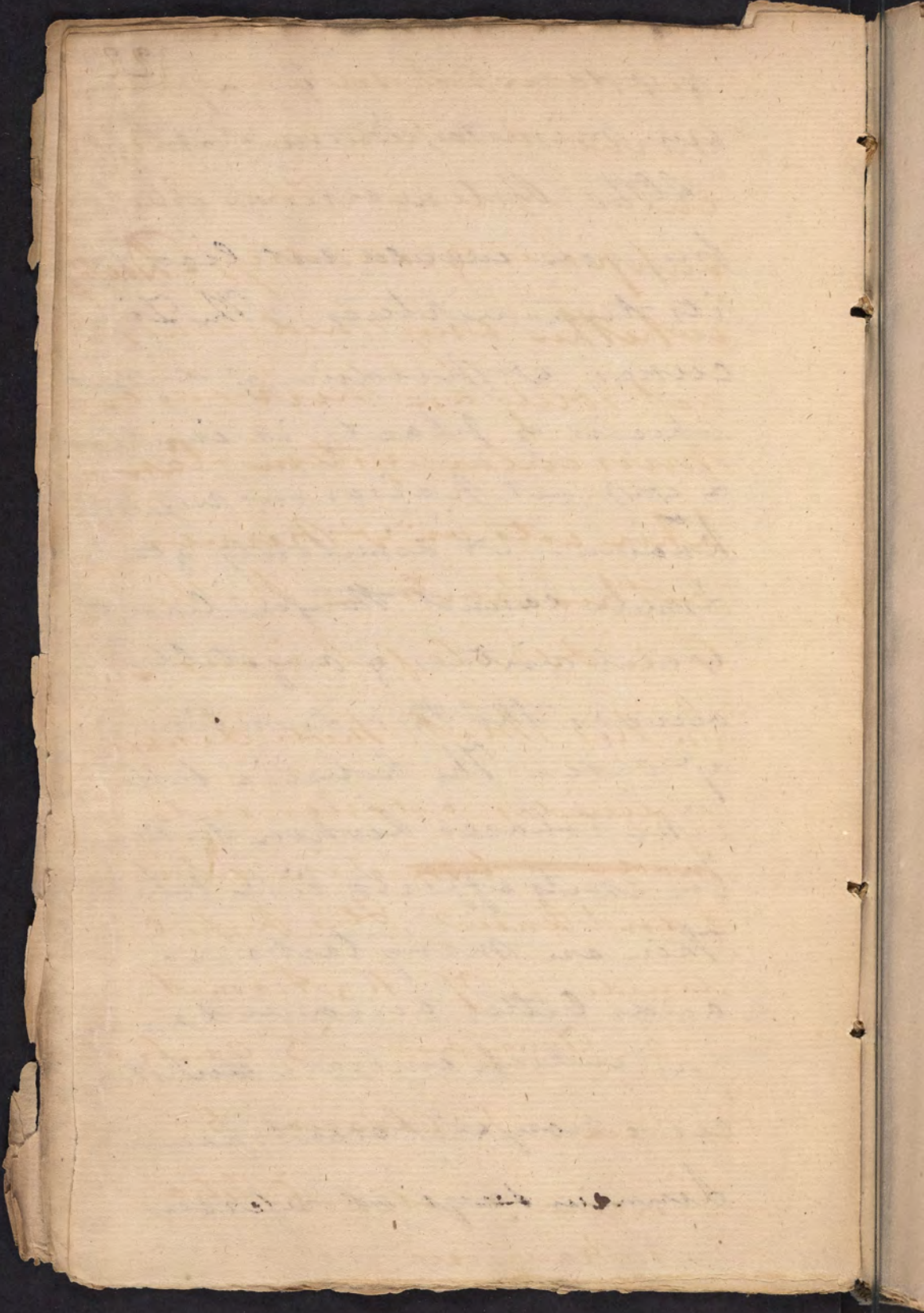
This method has been attended
with much advantage

Cullen says substances which
slightly affect the senses are
useless as medicines - This
as a general rule good tho'
there are exceptions. For some
of the most powerful substances
destitute of taste & smell.

Fontana says the venom of
the viper is insipid tho' not
so much so as from spring
water. Barton found the poison
of the Rattle-snake extremely
& rapidly purgent - A portion

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of of same poison in a 21
few minutes Killed Rabbit.
Altho' this case of im-
pression would not lead to
its true virtues. The Li-
cenas, or produce of different
Species of plants, is insipid
& is most poisonous vegetable
known. A similarity of taste
& smell cannot therefore lead to
equal virtues of vegetables
always tho' this sometimes
of case. The Lobelia takes
like tobacco when taken
in exerts effects like tobacco
There are many tastes as
acid, bitter, acrid & acau-
ous which embrace substan-
ces of very different powers
Linnaeus says odoriferous



substances act solely on 22
nerves & rapid on muscular system - This B.
supposes groundless. Doubtless
whether any medicines
act solely on nervous or
muscular system - Can
whom acts on & nerves
both parts - Both
taste & smell falacious -

In his Mat. Med. Senneau
divides adams into
~~four~~ ~~ten~~ ~~seven~~ ~~which~~
I dont know - His pupil
divides in 7. 1. Aromat
2. Grayes - 3 Ambro
siana 4 Allicia. 5
Fleucia a gotik 6. Tetra
7. Naumocia -

[Faint, illegible handwriting throughout the page]

~~_____~~

This division not spoken 23
highly of. The three first of
Aliaea good. The Glucina also
good. The odour Tetra not
good. The last not to stand
for what is nauseous to one
pleasant to another. I add one
to Linnæus class. I call it *ω*
piercing or poignant odour as
in Vol. alkali & Mustard &c.
At present ~~the~~ science cannot
derive much advantage from
this arrangement. The difference
of *ω* olfactory system in different
persons militates against this
system. Linnæus supposes *ω*
column will give much infor-
mation respecting *ω* properties
of plants. The white insipid he
says. The white leaves *ω* acter than
green. The green colour is crude in
its taste. The yellow shows bitter

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

This has exceptions - If he had (24)
said yellow juice he would
have been more correct - The
red is acid - Exceptions to this
rule - The white indicates
sweetness - A few exceptions to
this rule - The black colour shows
something ^{disagreeable} ~~grateful~~. Upon the
whole the colour tho' not an accurate
guide somewhat useful -

Books to be read - 1. Cullen. 2.
Lewis by Aiken. Particularly valuable
in Pharmacy - 3. Murray nearly
if not quite as valuable as Murray
The Dispensatory not near so useful
as these books - Recommends his
own Collection of Native Vegetables

Lecture 5.

The chemical analysis often of
importance in ascertaining virtues of
medicines - This recapitulation

Color pallidus, crisp, luteus, amarus
ruber acidum album dulcis
niger ingratus.

Linnaeus aphorism

Color pallidus - indicat Insipidum

luteus

Amarum

ruber

Acidum

albus -

Dulce

niger -

Ingratum

of the best plan for a
 Materia Medica in 1755.
 With respect to Linnaeus' sexual system
 as a foundation for a Mat: Med:
 not sufficiently natural tho several
 classes natural - Monodelphia
 natural & Diadelphica somewhat
 tho not so much - The Pentandria
 not natural. The first class Sex or
 Andromonogynia. Murray has
 associated vegetables according to their
 botanical affinity. He places
 opium in a separate order from
 Night-shade. Some of his orders among
 vegetables very different in their virtues
 The Liliacea among plants thus dif-
 ferently. Some form Mat: Med:
 upon or different subordinate systems
 in of body. There is some founda-
 tion for these divisions. ~~The~~
 Cartilage is alive. The Lacticals more
 tenacious of life than arteries. Madden
 will be true cartilage: a proof of its
 masculinity. No one has coloured or
 brown of amphibious animals by madder

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Every one knows the haughty &
viper. Body considered as a
common system divided into sub-
ordinate. Mr Burdeaus compares
life to a cluster of bees hanging to a
tree - so that man is animal within
animal. Linnæus had five Nervine
medicines. Had also muscular med:
then an three orders. Viscerative or
those which affect of viscera - have 4
orders -

Dr Rush divides of body into
different systems. Sanguiferous, Lungs, Brain
system, Lymphatic, Skin & blood

which will serve for an argument of
Mat. Med: Those which affect sanguif-
erous system would be opium & but
this affects decidedly of liver - For animals
who take this have an increased secretion
of bile - It affects of brain, lungs & etc.
This opium affects of secretions secretions
It purges as in colica Pictonum - Promotes
respiration - Thus opium affects 4 of Rush
systems - Evidently affects of nervous system
The senses which is an other division of R

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

it affects. The venereal appetite ²⁷
is much affected by it.

Opium stimulates & lymphatics
& promotes absorption - It has
produced swelling of & Parotid -
affects of skin producing abscess
eruptions &c. No one medicine
confined to one system - Digitalis
affects of sanguiferous system, low-
ering of pulse, it salivates, & increases
flow of urine: it therefore affects
of lymphatic system as well as others.

Mercury produces no effect till
of ~~subject~~ sanguiferous system
be affected with fever.

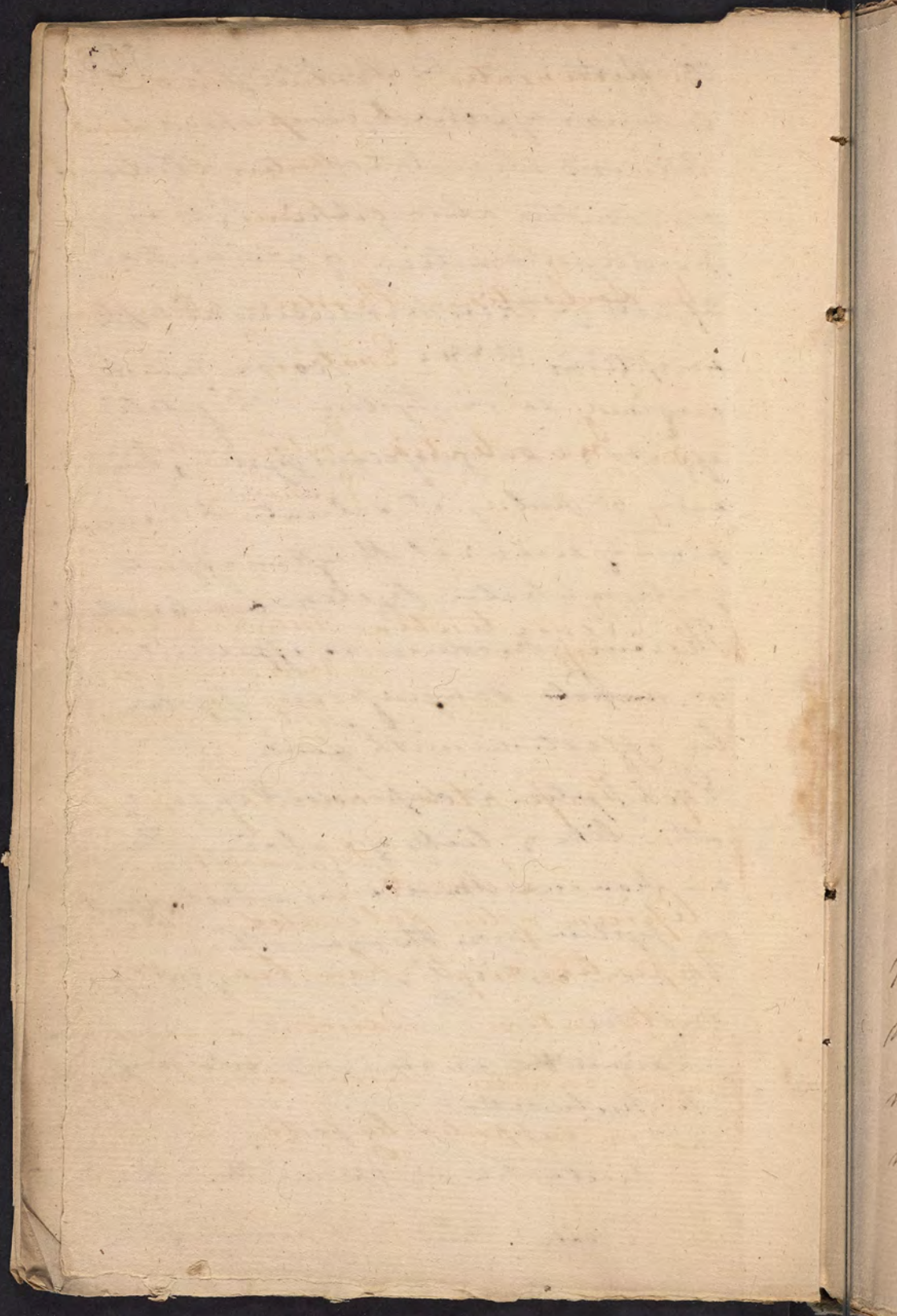
Each system is dependent on each
other like of links of a chain - There
are, however, Medicines which affect
one system more than another.

There are certainly some what of Specific
Medicines -

Barmin^{tho} as arranged as follows

1. Nutrients

2. Inertents or Opium. They increase
of irritative motions & produce costiveness



3. *Securientia*. - *Produce decenter* 228
to comprehend decenter
cathartus, blisters,
emetics.

4. *Sorbentia*. - *Produce absorptum*
Emetics,

5. *Invertentia*. - *Emetics*. Volent cathartus
Emetics.

6. *Revertentia*. *Musk*. *Asafetida*
Valerian. *Vol*
Sol. *Sempers*
p

7. *Torpentia*. - *Mucilage*, *water*,
bland oils.

Lecture 6.
Opium often *solivated* - The
Torpentia might have been called
nutrientia Darwin's arrange-
ment involves theories which can-
not be supported by facts.

15

[Faint, illegible handwriting throughout the page]

Some arrange of substances of 4 -
 Mat. Med: Alphabetically - This not a
 good method. - Cullen, in his
 arrangement followed other writers
 on whom he improved -

Warton destroys some of Cullen's classes
 & give place to some not in Cullen: as
 Anthelmintics & Antilithics - Objects to
 C's class of Sedatives: - A proper arrange-
 ment difficult. The greater number
 of writers overlooked of Lymphatic sys-
 tem which is of ultimate moving
 Some Medicines carried into the circulation

The Mat. Med: divided into
 Mat. Alimentaria & Medicines -
 Writers not sufficiently attentive
 to elements - By elements is meant
 those substances fitted to supply of fluids
 & solids of system - Difficult to
 say whether some substances are Medicines
 or elements: such as Coffee & Tea -
 C. says those to furnish fluids & solids are
 acid, sugar & oil - This idea
 of of Acid -

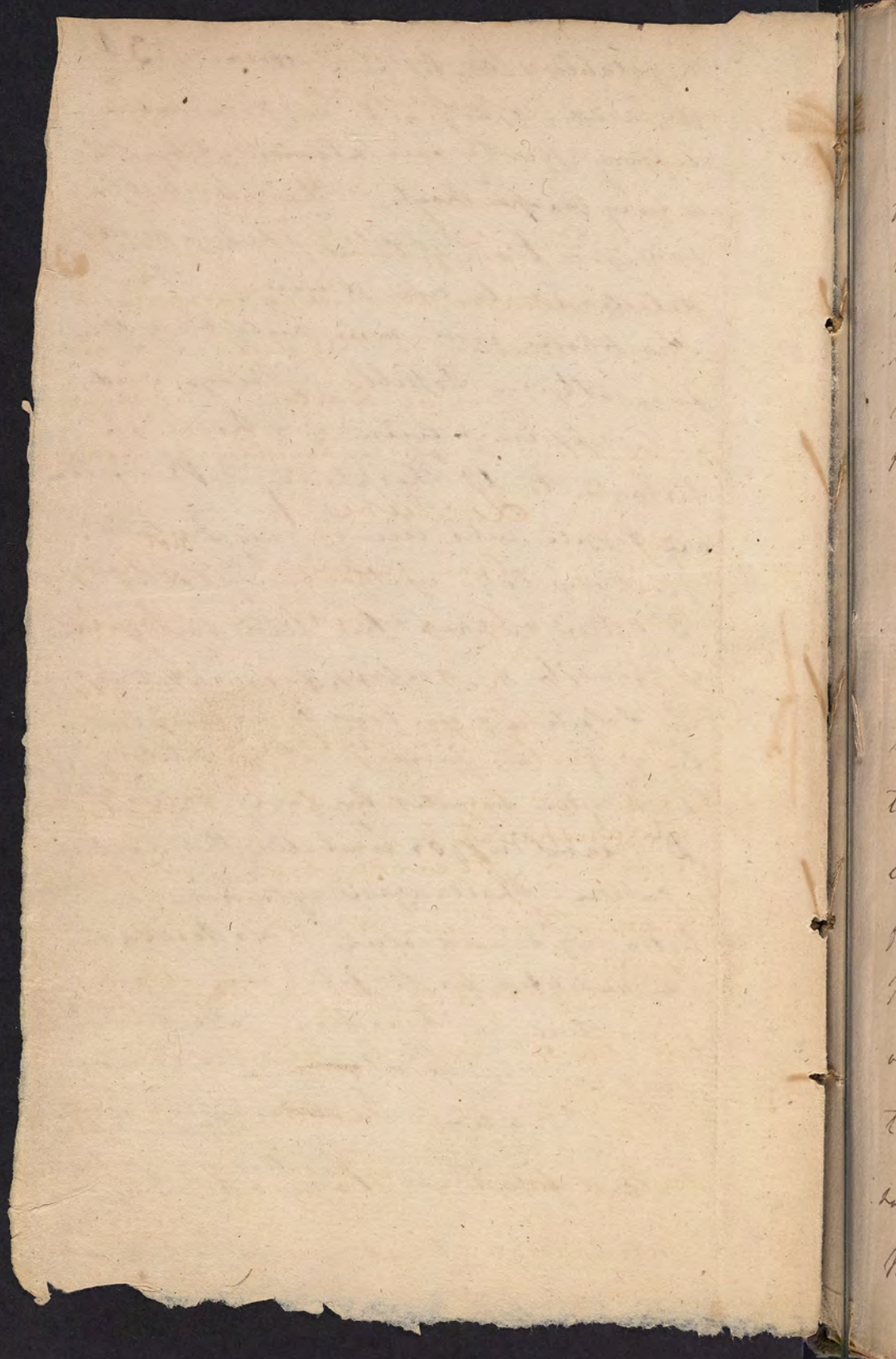
This appears in of whole of many

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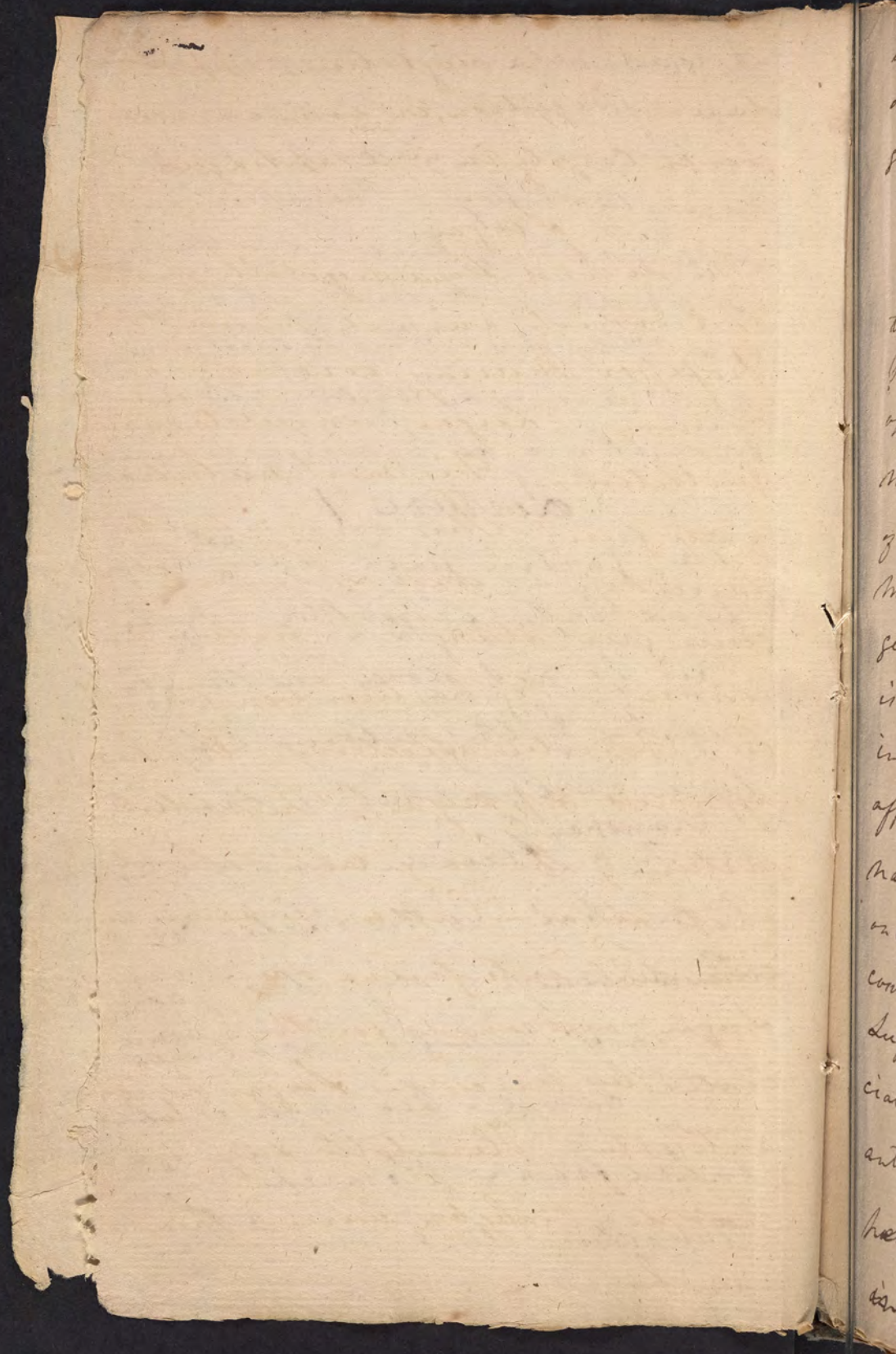
vegetables eaten by us. ~~acid~~ 30
An acid, is not, as C. supposes, a ne-
cessary part of our aliment this it is
a very proper part. It is probably
some of the fossil acids, if sufficiently
diluted, will cure Scurvy. This
Phosphoric acid more nutritious than
some others - Possibly of Benzoic acid,
which is in urine of horse, ap-
proaches to the Phosphoric - In Africa,
an People who live on only putrid
flesh & like without vegetables -
Dr Cullen supposes this acid formed in
the stomach by acetous fermentation -
The solution of our food is accomplished
by the gastric juice - A quantity of
acid often vomited by Scurvy Patients -
Dr Bland in 1763 combated this doctrine
of Cullen - Spallanzani after him com-
bated the same doctrine - To Bland we
are indebted for the first correct in-
formation on Digestion. An acid
does exist in the stomach tho' it does
assist digestion - The Phosphoric acid
enters into the composition of the gastric
juice -



In worms the digestive process (31)
goes on imperfectly tho' wth appetite
for food great - In such wth breath
frequently smells of Phosphoric acid
produced from wth breath - Digestion can
not take place in the dead or well or living
body - Hunter on this subject is not
much relied on by Barton - His reason
for doubting is its occurring so seldom

Lecture 7

The gastric juice does ^{not} change
food into finissima chyle
This is not done in the sto-
mach - If the pylorus be
tied wth lymphatic vessels
with a ^{transparent} fluid very different
from that in the lacteals
The business of digestion goes
on in wth whole of wth alimen-
tary canal - No chyle is ab-
sorbed from wth stomach - The
Mucous glands may be con-



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sidered as a digested appeten-
dage - Digestion, in some animals,
goes on largely in the Crapraques -

Sugar

The second kind vegetable matter
to furnish animal fluids &c &c
Professor Murray is conscious in his
opinion - Sugar, unquestionably
nutritious - Fig most nutritious
of all fruit - This owing to its
Mucilage as well as sugar - Fig
gives great strength as well as nour-
ishment - Fig has been beneficial
in hepatic affections - App best
affected with sugar - The nutritious
nature of this vegetable depends
on its sugar - Cullen supposes sugar
convertible into farina Suis versa -
Sugar good remedy for those emac-
iated by Mercury - Sugar highly
antiseptic - Herodotus says the
people of Babylon buried their dead
in honey -

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33

The plague has never been known among a people who used much sugar according to some. The yellow fever, however, which is almost allied to plague, occurs among such people. All of this doctrine appears erroneous. Depravity has disappeared from Madeira when it was common formerly. Starks found less liquid prevented thirst, while eating sugar bread than when eating only bread. Sugar exists, perhaps, in all vegetables. It has not been found in fungus plants. In lichen, Hordy does not see sugar. This not a fact for sugar has been obtained from some species of lichen. It is obtained from many vegetables - viz. parsnip, carrot & sugar cane & Indian corn - From species of juglans It is also found in the animal world viz. milk &c. It is supposed the blood contains sugar. Because it does not taste of it, no objection. Barley does not taste of it but.

Faint, illegible handwriting on aged paper, possibly bleed-through from the reverse side. The text is mostly obscured by fading and the texture of the paper.

Fragment of handwriting from the adjacent page, including words like "the", "a", "d", "u", "L", "P".

contains sugar - In Diabetes ¹³⁴
arterial action often high In
this disease animal diet highly
injurious - A case related
when for 90 days 40 lb of urine
was daily discharged - Here
of sugar must have been great -
Sugar, upon analysis, yields
carbon, hydrogen & oxygen - It
is a vegetable oxide - 64 oxygen
28 carbon & 8 hydrogen. These
proportions are different in
different vegetables - Sugar of
of maple does not differ from
that of of cane -

Lecture 8.

Sugar exists in of mineral king-
dom as of emerald - In Diabetes
an animal diet, by some, highly
useful - Sugar does not injure of
Teeth - The Inhabitants of of West-
India prove this It whitens of teeth.

when teeth begin to decay
Sugar hastens it -

of Honey -

There is much honey of an animal nature - This left analysed to sugar than has been supposed by authors, among whom is Dr C.

Honey left nutritious than sugar & has medical properties never found in sugar. In Asthma honey has been highly useful. B. relates 2 cases in point.

of Oil -

This extremely nutritious. The expressed oil of vegetables truly nutritious. In Scotland pease-bread much used & bulk for bulk more nutritious than other farina. Pure oil constitute one of the fundamentals of an animal. This oil, when taken in, does not remain long separate.

The torpid state of hibernating animals an accidental circumstance depending on climate &c. Haller on this subject erroneous in saying there is no circulation & they are completely frozen. B. says some animals of the frog serpent kind or white in y torpid

[Faint, illegible handwriting on aged paper]

[Faint handwriting visible on the adjacent page]

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state, respiration completely ~~ceases~~,
All of them, however, capable of being
revived - In that state of interrupted
life, oil may not be absorbed.

The lymphatics continue to absorb
for many hours after all external
signs of life have disappeared -
The lymphatics of *Urticum moricium*,
Several observations relative to
hybernating animals, absorption of
fat ~~of the~~ ~~of the~~ ~~of the~~ ~~of the~~ ~~of the~~ ~~of the~~

Dr Stark lived 16 days on
olive oil & flour & gained
in weight $\frac{1}{2}$ lb of $\frac{1}{2}$ lb

There are three elements of C. by no
means or whole of elementary
principles of aliment - There are
many others - Man is most voracious
nivorous of all animals -

Faint, illegible handwriting in cursive script, possibly a letter or a page from a manuscript. The text is mostly obscured by fading and bleed-through from the reverse side of the page.

Lecture. 9. Thursday [30]

of mucilage.

This C. has not enumeration among his elements - This very nutritious. Almost all vegetables which are insipid & colourless have generally gum & mucilage - Gum: Arab: & Traga canth & to be noticed - all gums coagulated by litharge Gum: Arabia nearly if only food of Inhabitants of Niger: Africa C. saw mucilage a simple substance (perhaps) The gums are 4. 1. Gum: Arabia, 2. Traga canth, 3. Cherry Gum & mucilage - found in leaves roots of many plants. Doubtful whether mucilage & Gum precisely of same - Those trees which yield gum are generally astringent This not of case with those plants yielding mucilage - This however has

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and difficult to decipher.]

exceptions viz. of Tilia l. 34
Americana which yields much
mucilage, this is astringent -
Cultivation appears to destroy
the astringent quality of many
vegetables which yield mucilage
The Chemical analysis ^{gives} oxygen hydro-
gen & azote
"carbon" lime & silica by nitric
acid absorbed in a solution
of gum.

Sirtanus supposes opium
of most nutritious of vegetable
substances because it has a
great affinity for oxygen. This
foolish - He relates we are
of a Catarrhus vesicae when
of smallest quantity of ~~nutri-~~
~~tious~~ ~~subst~~ meat increased
of disease on this acct ^{gives}
Analis was used as a diet
for 6 weeks & ^{of child} ~~it~~ increased
in bulk; but at length died

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

Lime nutritious Lime 36
or Calcareous earth, is, con-
trary to the assertion of Dr
Horsley, nutritious. Lime
combined with Phosphoric
acid is found in y^e blood,
semen & widely diffused
in y^e vegetable world. ~~This~~
100 semen contains one y^e phosphate
y^e lime. B. Suppose calcareous
earth an original substance
not at all depending on animals
for its formation. Calcareous
earth y^e principal nourish-
ment y^e some sea fish, as y^e Cod
&c. I cant explain how this
earth nourishes; but there is
no doubt y^e y^e fact. Lime may
act as a manure by suddenly
decomposing substances suited
to increase y^e growth y^e vegetables.
It attracts, powerfully moisture

25

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

time increases of quality (36)
of crops as well as quantity
There resides in the seeds of plants
a power of forming substances by
an inherent action - The same
plant growing in carbon, lime &
shale give the same result
that is of same mucilage, gum
&c. To conclude. No doubt
but that calcareous earth is
nutritious & is no mean agent
in nourishing the system
Baron Flomholt saw many
Inhabitants eating regularly
at their meals, calcareous earth
Light is one of the Nutrients
Vegetables sicken & die without
this choicest gift of Heaven -
Animals deprived of it be-
come white - Our Brethren
eternally shut out from the
influence of heavenly light

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and difficult to decipher.]

line & subject - It is an 37
universal stimulus - Why
this w^o sugar & vegetables is
more abundantly evolved -
The want of light is w^o reason
Fungi have no sugar -

Lecture - 10.

of Milk -

Consider Human, Cows, Opos
& Sheep's Milk - It is unctuous
consistency greater than that of
water - More cold to freeze
it than water - It boils tho'
at different temperatures in
different milks - Specific
gravity greater than that of
water - When put it
separates into Cream, Curd,
Serum - A large surface
separates more quickly
its cream -

27

The first part of the paper is
 devoted to a description of the
 various species of plants which
 were observed by the author
 during his stay in the country.
 The second part contains a
 list of the names of the
 several families of plants
 which were observed, and a
 description of the most
 remarkable of them. The
 third part is a list of the
 names of the several
 species of plants which
 were observed, and a
 description of the most
 remarkable of them. The
 fourth part is a list of the
 names of the several
 species of plants which
 were observed, and a
 description of the most
 remarkable of them. The
 fifth part is a list of the
 names of the several
 species of plants which
 were observed, and a
 description of the most
 remarkable of them. The
 sixth part is a list of the
 names of the several
 species of plants which
 were observed, and a
 description of the most
 remarkable of them. The
 seventh part is a list of the
 names of the several
 species of plants which
 were observed, and a
 description of the most
 remarkable of them. The
 eighth part is a list of the
 names of the several
 species of plants which
 were observed, and a
 description of the most
 remarkable of them. The
 ninth part is a list of the
 names of the several
 species of plants which
 were observed, and a
 description of the most
 remarkable of them. The
 tenth part is a list of the
 names of the several
 species of plants which
 were observed, and a
 description of the most
 remarkable of them.

If Milk be boiled more
 oil separates & air is given
 out. Milk exposed to w
 air soon becomes acid-
 After a time it coagulates
 Cream always greater in
 cold weather

Thunder hastens acidity
 In Mountainous countries
 animals afford more milk
 Cattle in w Western require
 more salt than w Eastern
 tract of our Country -

88

[Faint, illegible handwriting covering the page]

Sometimes w milk (39)
Proportion to w colour of
Cows - The Milk of hah-
hained women, thinner than
that of other women. Milk
of young animals not so
oily as older - The quantity
of cream in proportion to
w dryness of w pasture
cream always contains a
portion of w two other parts

The formation of Butter does
not depend on simple agi-
tation for that is an extri-
cation of gas (perhaps carbonic)
& w temperature is increased
Butter, therefore, is not simply
particles of oil compacted -

This oil in its recent state
resembles w expressed oils of
vegetables - Butter Salt mild

13

[The text on this page is extremely faint and illegible due to fading and bleed-through from the reverse side. It appears to be a continuous block of handwritten text.]

oils liable to rancidity (40)
which is owing to an acid -
Butter melted becomes more
difficultly rancid - The
rancidity of butter is produced
in part by a fermentation
which is aided by a mucic-
lage found with it & air -
The rancidity may be cor-
rected by alcohol - The juice
of a certain plant found on the
Nile, prevents rancidity - The
sebacid acid has nothing
to do in producing rancidity

of curd or coagulable part
of milk -
This perceived in a few
days after the milk drawn
after the formation of this por-
tion of whey separates -
Rennet coagulates milk

[The page contains extremely faint, illegible handwritten text, likely bleed-through from the reverse side of the paper. The text is arranged in approximately 20 horizontal lines across the page.]

The power of sunnet in producing coagulation of milk, depends, not on an acidity existing in of calf's stomach, but some peculiar quality. The internal stomach of Birds powdered is excellent to coagulate milk. This power of coagulating milk is not confined to of stomach: the lime or lime fish will do of same thing. Certain vegetables, as different species of Galium, will do of same thing. These will do it only when put into cold milk.

14



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

The alkaline salts in 142
their cause to flat dispole
w^{ch} chery portion of milk
Lim water occasions an
imperfect coagulation.

Coagulated milk never seen
in w^{ch} duodenum of an animal
Cher becomes putrid in
this approaches animal
matter - This gives out w^{ch}
Vol: alkali & has therefore
been supposed a proof
of animal matter - This
no proof - for vegetables give
out ammonia - This furnished
in abundance by w^{ch} vegetables
of w^{ch} class Tetradynamer
The Auride also furnishes it
The Fungous plants fur-
nish more ammonia than
any other vegetables -

11

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

No doubt but that milk ⁴³
affords animal matter -
An animal ~~matter~~ confined
to animal food - affords
milk different in its ^{sensibility} qualities
as well as chemical analysis
from that afforded by animals
restricted to ~~vegetables~~ -

1845

The first of the month
 was spent in the
 office of the
 Secretary of the
 Board of Health
 in the city of
 New York. The
 day was spent
 in the office of
 the Secretary of
 the Board of
 Health in the
 city of New
 York. The day
 was spent in
 the office of
 the Secretary
 of the Board
 of Health in
 the city of
 New York.

Lecture 11.
of Whey or Serum lactis

Water enters in large quantities into milk. Water $\frac{7}{8}$ of whole bulk of milk. The proportion of water different in different milks. This aqueous different as to state of the milk when this watery part was separated. In churning the watery part is separated in butter-milk. The whey of Goat's milk contains more oil than that of Cows. There is in whey, sugar. Whey contains sugar of milk & acidum saccho-lacticum. Muriate of Potash & Phos. Amin. in Whey.

(11)

The first part of the paper is
 devoted to a general survey of
 the subject, and to a statement
 of the objects of the present
 investigation. It is then divided
 into two parts, the first of
 which is devoted to a description
 of the objects, and the second
 to a statement of the results
 of the investigation. The first
 part is divided into three
 sections, the first of which
 is devoted to a description
 of the objects, and the second
 to a statement of the results
 of the investigation. The second
 part is divided into two
 sections, the first of which
 is devoted to a description
 of the objects, and the second
 to a statement of the results
 of the investigation.

Whey, is made of $\frac{1}{2}$ of $\frac{45}{100}$
sugar, gelatin, Murex of Soda
& Potash $\frac{1}{2}$ - After Milk
furnishes most sugar
Mare's Nest & Human
Milk - Phosphate of
lime in all milks -

Milk is one of the animal
substances that undergoes
vinous fermentation -
From Mare's Milk
& Tartar obtains a wine
or charnis made by 6
parts of M.'s Milk, one
water, & one of very sour
~~Mare's~~ Cow's Milk
& beat $\frac{1}{2}$ of $\frac{1}{2}$ -

Agitation must be employed

Copy to the Hon. Secy of the
Dept. of the Interior
Washington D.C.
Dear Sir
I have the honor to acknowledge
the receipt of your letter of the
10th inst. in relation to the
application of the
Act of March 3rd 1877
relating to the
land of the
State of
California
and in reply to inform you
that the same has been
forwarded to the
proper authorities
for their consideration
and will be
acted upon as
soon as possible
Very respectfully
Yours
John W. Foster

before its use - In 140
its preparation heat,
sour, & agitation are ne-
cessary - Man's Milk
is not w only milk sus-
ceptible of fermentation
Cows Milk will ferment

~~Every~~ Cheesy part of milk
greatest

S

C

m

W

a

A

Cheesy part of milk
greatest in w ruminant.

The non-ruminant has
less because part of milk

The cream greatest in E & goats

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

The cream of women's milk less when they live on vegetables - Milk of a whale contains more cream than any other animal known - Milk of woman contains less curd, & it will not yield butter. The curd increases with time after delivery. Vinegar, Boerhaave says, coagulates the milk of a woman restricted to vegetables entirely - The nature of the food has great effect on the milk

How Milk secreted in the human kind -

Chyle & Milk has great resemblance. Lower saw chyle swimming on the blood of a maia & it resembled milk

In Diabetic Patients chyle is frequently seen on the blood. This appearance of chyle, by no means common - Barton thinks, this chylous appearance of blood

moorbid -
is ~~described~~ ~~causing~~ ~~to~~ ~~disturb~~.

He supposes it occurs in
Persons with vertigo or some
affection of the head - He has
obtained from 3xx of his
own blood 3j of this chyle
It became hard by a little heat
than is sufficient to coagulate
serum -

Purgatives given to a Nurse 148
will purge of suckling child Young
does not think so. When a child
is purged of purge must
have laid some time in a
bowels of Mother & therefrom
absorbed. In Hydrocephalus
internus of almonstays canal
torpid - When this disease
occurs in children at Breast
might not a child be purged
by giving purgatives to a
Mother - B. throws this out
as a speculation not yet
verified by experiment -

I have been thinking of you
 and your family very much
 and I think of the time
 we spent together in
 the country. I hope you
 are all well and happy
 and I hope to see you
 again soon. I have not
 much news to write at
 present. I am well and
 hope these few lines
 will find you all the same.
 I have not much news
 to write at present. I
 am well and hope these
 few lines will find you
 all the same. I have not
 much news to write at
 present. I am well and
 hope these few lines will
 find you all the same.

Medicines absorbed. The Milk of a salivated nurse will salivate children at w breast. Cooper relates a case which occurred in this City. This method of salivating children not of great practical importance. Children at w breast may be salivated by inhaling w breath of v salivated nurse. Mercury absorbed as has been proved by several Gentlemen. Children seldom intoxicated by drunken nurses. There are, however, cases of intoxication of children under those circumstances, according to some - Milk always, almost immediately increased after taking in nourishment either fluid or solid - Drink affords most milk. In many women during suckling Milk air constantly contains this at other times not so - The oily & coagulable part of Milk secreted. The sugar of w Milk afforded by

150
of saccharine part of & crystals
taken in. This saccharum, however,
Barton thinks has been assimilated
with of blood. Herbivorous
Animal's milk always coagu-
lable by vinegar. Carnivo-
rous not so.

The milk of carnivorous animals
it is probable, has but little sugar.
Abernethy found sugar taken
in in quantity of quantity of sugar
in of urine of diabetical Patients -

After use of wormwood of
milk bitter - Milk is coloured
by madder taken into of stomach -
Indigo colours milk. Wis ton
saw of milk green in a woman
labouring under bilious fever -
B. says of nature of our fluids
different in different diets -
Animals under animal diet
wield most phosphoric acid in
their urine -

Faint, illegible handwritten text, likely bleed-through from the reverse side of the page. The script is cursive and spans most of the page.

Partial view of the adjacent page on the right, showing some handwritten text and the binding edge.

Milk is of proper nourishment
 of all of class Mammalia. ~~The~~ Milk
 is adapted to of human species for
 between of 8-11 months according to Cullen.
 Among of Indians of children seldom
 leave of breast before 2 years. Among
 some Indians of children return from
 hunting & call for of breast. Rarely
 under 12 months do their children
^{cease to} suck. This would seem to dis-
 prove Cullen's observation that
 children who suck long are dis-
 posed to rickets. Long suckling
 does not dispose to rickets.
 How long should of child suck?
 About twelve months, rarely under

Medical Properties of Milk.
 Milk is a restorative, when of
 fluids are vitiated milk good -
 Milk not so plethoric. In Scrophula
 a milk diet not very serviceable
 This is a disease of of absorbent
 system - It is more common
 in ~~countries~~ among an
 Indians than many others.

Faint, illegible handwritten text, likely bleed-through from the reverse side of the page. The text is arranged in approximately 15 horizontal lines, though many characters are obscured by fading and the texture of the aged paper.

in countries ...
... the ...

These people have domesticated ¹⁵²
no animal that gives milk - This
disease more common in ψ country
than in Downs -

Lecture 13.

It has been supposed a adapted
to Phthisis pulmonalis - It is always
in ψ first instance attended with
increased action - when milk is improper
Lydenham did harm in always re-
commencing milk sinding. In ψ fluid
consumption milk injurious. Asses
milk has been supposed particularly
adapted to Consumption - This is in
general not ψ^a case.

Gout being founded in a plethoric
state of the system, milk may be a proper
remedy, tho' not so useful as Cullen supposes
Gout is a hereditary disease. Some of
the Egyptians, 'Alpinus says' are very
commonly affected with this disease
altho' their diet consists almost en-
tirely in vegetables - Milk improper
for them leading a sedentary life
Milk in Rheumatism has been used tho'
of no great effect -

Women swim with idleness
alone. ~~XXXXXXXXXX~~

[Faint, illegible handwriting throughout the page]

[Faint handwriting visible on the right edge of the page]

Materia Medica properly
so
called -

Difficult to arrange yr substances
of the materia medica Dr Cullen
& others have given place to a class

Adstringentia or Astringents

This Ms. retains: tho' he thinks at
some distant period this class he
will reject. Some of them astringents
might readily be arranged under yr
head of Tonics but others would be
more difficultly disposed of. ~~Other~~

~~gists~~ Ms. thinks yr French nomen
clature of Chemistry will not stand

Darwin calls astringents, ^{& Tonics} Sorbentia

This word still - A class of Tonics
will always be retained & it will be
divided into 3 heads. The 1. astringents
without bitter 2. Tonics without astringents
3. comprehends bitter & astringent both.

Adstringents produce a contraction
& condensation of animal fibres.

Handwritten text at the top of the page, likely a title or header.

Main body of handwritten text, appearing as a continuous paragraph or list of entries.

Cullen supposes astringents act 154
chemically on y^e body somewhat like
they do on dead matter - The Tannin
Principle exists in y^e greatest state of
purity in y^e Nut-gal & Catechu - This
Tannin is astringent, its solution
brown & more solub^{le} in alcohol than
in water - The raw hide extracts y^e
tan principle & extractive principle
& hence y^e brown colour - Glides absorb
 $\frac{1}{2}$ their weight. The living skin admits
more of these principles - Therefore these
substances cannot act on y^e living as on
y^e dead skin - The Lizard will absorb
one half its weight of water - If ~~we~~ we
to infer from such experiments human
absorption by y^e skin y^e inference would
not be good - Astringents are antiseptics
A gangrenous leg or arm would not
be affected by astringents - If a hide
begin to putrefy & in this state is
thrown into y^e tar-water y^e dead parts
will slough off - ~~Astringents~~

Some astringents when externally
applied ~~on~~ on y^e tongue a contrac-
tion will take place all over y^e
mouth - Darwin explains y^e fact
by absorption -

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

Faint handwritten text visible on the right edge of the page, likely from the adjacent page.

Zijdecoot: luna liri men in-
 fected into an animal's sto-
 mach with the effect of contracting
 the pylorus, so that no food would
 pass. The lunar caustic has
 no effect on dead matter but
 quickly decomposes living
 matter - On this account the
 lunar caustic has been pro-
 posed to ascertain when an
 animal be dead -

Lecture 14.

Astringents act on vegetables &
 animals. Witness of three species
 of Spurge, which are lactescent.
 In Haemorrhagy &c. Heubner M.D.
 lays not much stress on astringent
 except in that of the bowels. In
 this however the other is erroneous.
 Madder is an astringent & its
 astringent coloring principle
 is absorbed. As for sugar of lead
 with such a copious hemorrhagy

The account of the first voyage
 into the North West Passage
 by the Arctic Expedition
 in the years 1845-46-47
 under the command of
 Sir John Franklin
 is a most interesting
 and valuable
 contribution to our
 knowledge of the
 Arctic regions.

Arctic Expedition

The expedition was
 commanded by
 Sir John Franklin
 and consisted of
 three ships
 the Erebus, the
 Terror, and the
 Hecla. The
 expedition
 sailed from
 England in
 1845 and
 reached the
 Arctic coast
 in 1846. The
 expedition
 was
 successful in
 reaching the
 North Pole
 in 1847.

from 4 letters. This effect (56)
not produced by absorption of
4th medicine

The astringent principle is
soluble in alcohol & on
this acct has been advised
to be thus administered

This, however, is a bad
vehicle. The matter of
astringent according to some
consists of acid & earth. The
combination, however, of
these substances does not al-
ways produce astringency
B. thinks astringency does
not depend on acid & earth.
The astringent principle is
of an acid nature. The
root of *W. Tormentum*, *alim. rad.*
has astringency

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

70

[Faint handwriting visible on the edge of the adjacent page.]

Galls have much of this ¹⁵⁷
astringent principle & is
called the gallic acid -
It is soluble in the -
Cultivation deprives many
plants, as also cerealia, of
the gallic acid or astringent
principle. W. thinks this astringent
principle is a gallic acid
& alumina - B. thinks not,
B. thinks with Walker that
the astringent principle is
not only a gallate of alumina
but of other earths as of Gall.
of Magnesia &c &c
The astringent principle is
discovered by taste - by
a solution of Sulph. a cry. sulph.
of iron when a black colour
will be found

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

The common Sulphat: of ⁽⁵⁸⁾
iron will not produce a
black colour it must be of
oxy-sulphat: of some iron.
This is the opinion of a certain chemist
Astringents best taken in
substance. Some resinous
astringents, which are not
soluble in the gastric juice,
will become soluble by a
mixture with gum. The
pure resins are therefore among
the Materia of the Mat: Med:

Astringents give out their
virtues to water by infusion.
They may be treated by de-
action & by this a stronger as-
tringent is produced.

Astringents have been
recommended in cachexia
or general debility. Iron in
the beginning of dropsy from

debility very good. when the ¹⁵⁹
crisis from increased action is
not good. Bleeding & depletion best.
In remitting & intermitting
Fever. A case of hydrocell,
from Gout, related. This
Patient was cured by w gout
being translated to the extremities.
Astringents in restraining ex-
cessive evacuations. In Hamorrhage
of Papine kind, these good.
In hamorrhage from w Intestines
when attended with increased
action, bleed ~~even~~ if blood is
at w same time discharging
from w anus. Astringents in w
management of many hamorrhages
are indispensable. Opac.,
altho not an astringent, is
equal to most astringents in
w management of hamorrhage.

[Faint, illegible handwriting on aged paper]

60

Lecture.

Diarrhoea & Dysentery often arise from the same cause; but require a different treatment. Astringents injurious in the last. B. thinks a febrile & not a constriction of the Intestines is cause of Dysentery. Astringents do not act by increasing of constriction as Cullen says, but by their tonic virtues. In Diarrhoea

~~Astringents cure by their tonic~~
power from

Diarrhoea occasioned by contagion or other stimuli & it is attended with fever. When this astringents won't do. In Leucorrhoea astringents often fail. This sometimes highly useful. There is a distinction between different Leucorrhoea. One is attended with fever & the other not.

to the

The first thing I observed
 was a very different
 kind of vegetation
 than I had ever seen
 before. The trees were
 all of a different
 kind, and the ground
 was covered with
 a soft moss. The
 air was very fresh
 and the water was
 clear. I had never
 seen anything like
 this before. The
 people here were
 all of a different
 kind, and they
 spoke a different
 language. I had
 never seen anything
 like this before.

Darwin calls one Leucorrhœa ⁽⁶⁷⁾
calida & frigida -

Diabetes little known - It
has been supposed to depend
on relaxation of the Kidneys - In
this astringents have done
harm - This disease accom-
panied with thirst, & &
a proof of disease in of arteries
Upon dissection the Kidneys
have been found enlarged
B. says he cured it by blood-^{letting}
with ^{in small doses} Tartar Emetic, & low
diet - It is divided into
Mellitus & insipidus - In
this there are frequent
pains, hot skin, large dis-
charge of water, thirst &
Serous discharges from the
urethra of of Male have often been
cured by of immediate application
of astringents & even when taken internal

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

These astringents will ⁶⁴
relieve pain from calculus.
Cullen erroneous when he
explains w^o effects of astringents
in calculus, by saying
they absorb acid from
the stomach. The Carbonic
acid will relieve, as
alkali or astringents & it
certainly cant absorb acid.
And we have no proof
or reason to suppose
there is this great quantity
of acid. Not only w^o
the base will relieve
calculus but other vegetable
astringents.

These are the things that
 we see in the world
 and we are often
 surprised to find
 that they are not
 what we expected
 to see. The things
 that we see are
 often very different
 from what we
 thought they would
 be. We are often
 surprised to find
 that the things
 that we see are
 often very different
 from what we
 thought they would
 be. We are often
 surprised to find
 that the things
 that we see are
 often very different
 from what we
 thought they would
 be.

1265

of Particular Astringents

Barks of some Species of
Quercus or Oak-bark -

A decoction of this bark is
useful as a gargle & united
with alum its virtues are
increased. Cullen gave it
in y dose of half a dram & ℥i
with effect in some fevers -

B. has used a strong decooc-
tion of Spanish bark in gon-
grem both internally & externally
applied - The bark of Quercus
tinctura ^{or Quercition} not so good an acet
of its purgative extractive
matter. In Europe some
have used Acorns & their
of y falls -

Produced by an Insect.

Mr. Barton arranges his
asturgents according to
their degree of asturgency

It is of *Quercus Larix* 66

W leaf being punctured by an Insect - They have no smell but a very acerb & astringent taste. The extract of galls is most powerful astringent. They have been recommended in Intermittents tho' not equal to W Bark of Peru -

Galls have been recommended in Aclatus. It is said they never did occasion costiveness - A decoction of galls, by way of glyster, has relieved the disease of acetum from relaxation - In Piles ^{or} ~~the~~ ointment of not quite equal parts of Arungia & galls, good. Two kinds of Piles - One depending on torpor in W cold & W other in W young & plethoric here galls best.

1773
The first of these is the
fact that the population
has not increased in
the same proportion
as the extent of the
country. This is owing
to the fact that the
land has been so
carefully cultivated
that it has been
found necessary to
import a large quantity
of foreign labour
to work the land.
This is the case in
all the colonies
and is the reason
why the population
has not increased
in the same
proportion as the
extent of the
country.

Galls in *Gonorrhoea* & (67)
secret has been good -
of Gum-Kino

This is produce of two or three
different plants. It is soluble
in the saliva of mouth - Both water
& alcohol dissolve it - The sulph. &
oxy-sulph. of iron will strike a black
colour with it - It employs with
gum Arabic or Sugar rubbed down
& whole dissolved in water - Chil-
dren readily take it - It has been given
in Intermittents. $\mathfrak{z} \text{ss}$ of water dissolve
 $\mathfrak{z} \text{ij}$ of Kino - It used it in Inter-
mittents in combination with
columbo or certian - Give to an
Adult or Kino $\mathfrak{u} \text{ss}$ - 64 parts. $\mathfrak{O} \text{ij}$
in 8 days take 4 doses, in 24 hours.

This has been dissolved in
lime water & injected into the
Vagina in cases of fluxus albus -
This practice has been tried with
effect in N. Y. They used 4 dr
of Kino & lime water $\mathfrak{z} \text{viij}$ of ~~lime water~~

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

B. has employed this in (68)
ternally in fluxu albus. In
Gonorrhoea Zij Kine. Zij alun. &
Op: Zij add ʒij of boiling water
This Injection useful in Gonorrhoea
It is exceptionable on acct of colouring
of linen. This is a cheap remedy.

Lecture 16. Dec: 4th

Terra Japonica or

Extract of Catechu

This is produce of a species
of Mimosa. It is of a dark
red & bitter-sweet taste. The
greater part soluble in water
but not in alcohol. This
Catechu seldom used in N. S.
In Europ used as a mild astringent
in uterine haemorrhage &c. &c.
It is used in an ointment of Plindor-
tan. Astringents useful in ulcers.
This Catechu is a vulnerary.
Peruvian B. good in ulcers of a bad
kind.

In when those astringents
act by stimulating w parts
Tinc: Catechu composed of
~~with~~ ℥iij Catechu Cinnamon
℥ij & proof sp ℥iij

Mistletoe or Viscum

This is a parasitic plant.
Never found on y^e earth - It eats
y^e trees upon which it
grows - It is curious art it
respects religion - It has been
held in superstition - This
Viscum y^e same on whatever
tree it grows - It is a powerful
astringent - It has with its
astringency a bitterness - Good
in Quartin Fevers - In
Epilepsy proceeding from

increased mobility, good. (69)
Its virtues principally in w
bank in a dose of $\frac{3j}{\text{to}} \frac{3j}{\text{to}} \frac{3j}{\text{to}}$ -
In Chorea St Viti, with Asafetida,
this V. good. Flom employed
V. with advantage - B. never used it.
The V. auburnum, in Del. moderate
paroxysm of Epilepsy. This V.
shows that plants also oil coloring
Lother matters ditto virtues w
same upon whatever tree it grows
Hence its properties formed by living
power of the plant -

Geranium Maculatum
It grows within the vicinity of P.
It is called Crow-foot - In Cholera
Morbus, w root boiled in milk
is taken with advantage by children
In Chol. B. has not much experience
He thinks Asturgeny & Tonics
too much neglected in Cholera
In Nephritis this G. entitled to
attention - The G. Robertianum in B. has been
used with advantage

E. Wilson has used G. with
succup in Epistaxis - It is
common in any part of U. S.

Hemlock americana

Called American Senecio or
alum-root. This root is one
of the most intense astringents.
In the West it has been said
to cure Cancer - ~~It is a~~
~~part of a celebrated Cancer Remedy~~
~~of St. Martens~~

Prochorda Virginiana

This used in Cancer & Hemorrhoids
than Cancer-root - It is a Didymopanax
namous & ord: Angiosperma
It grows under the Beach-trees
It is ~~at~~ a part of St. Martens

celebrated Cancer powder - 170
~~It is called~~ This vegetable is called
Virginian Broom-rape - This
powder was used in *of* P. Hospital
in a case of Cancer with great effect.

Tormentilla Erecta -

Tormentil

It resembles *of* Cinquefoil - Not
native in America - It *is* pure art.
Before P. M., ^{in vesp.} used in Intermitents -
It is recommended as a substitute
for B. It is recommended to prevent
abortion. This depends on relaxation
This T. may be used in Abortion -
Digitalis has been used with help
for *of* same purpose - -
Agimoy laid aside - H. ~~1777~~ 1776
laid aside

Quinquifolium a Cinquefoil
The root very astringent The root
of *of* non astringent - The Apice
galien & Rubin *of* Madde
non very astringent tho' *of* late
Emmenogogen - Spathum in ulcra

Filices not used here

The Acid wines rejected as
not important

The Bark of Pomegranat
good tho inferior to those already
treated of at large -

Lecture 17. Dec 5th #71

Of Alum.

Albis Argilla sol: or Sulphur
aluminu - Has been found
in Virginia - Formerly deemed
a conious ingredient in
Mineral water - This erroneous

It is sometimes found in them
but it is not very common -

This a powerful astringent -

It is an internal & external medicine - More frequently in latter
way - As a gargle excellent
In *Gonorrhoea* & *Suppuration* of *Darius*
good - Has been used as g. in

putrid jaw-throat - In inflam-
mations of *ye* eyes - The solution
is gr iij to ℥ij - as good as *ye*
serum aluminosum - This

Coagulum alum is made by
mixing alum with *ye* white of
egg. This in chronic inflammation -
too good

72

155

In haemorrhages good. In (173)
Haemoptysis Cullen thinks it
not good. In this disease haemul-
lac: Saturni is good - Cullen
has found Alum good in Me-
norragia & other uterine haemorrhages.
It must be given in large doses
beginning with grs ℥ss or to ℥j
In Scorbatic haemorrhages good
℥j alum falls ℥ss mixed & di-
vided into dos: x - give five every
day. If it purge add opium in
Menorrhagia - The Frequent Men-
struation is nice to manage -
~~Atten~~ Vegetable diet, conveyance
in carriage &c good - After every
thing has failed issues have been
attended with success.

In Fluor albus or Whites often
exists with consumption & other
affections of the lungs - Parvius
tot divides them into fluor albus
calidus & frigidus - Injections of
alum good - In gonorrhoea of sanguis

The first part of the paper
 is devoted to a general
 description of the
 country and its
 resources. The
 second part
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 industry and
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 The third part
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joined with oak bark ^{in aq. p. 74}
Boil $\frac{zj}{ij}$ oak bark, to $\frac{zj}{ij}$
& add alum $\frac{zj}{ij}$.

~~I. Album album Pulvis~~

Mead used alum in Diabetes
with success. In this C. says γ
Serum aluminosum not used
with success. Mistar cured an
obstinate case with this serum
Dauer gave $\frac{1}{4}$ pint of this as
strong as γ stomach would bear
it, with success. Dauer thinks
it need never fail. Flau does
alum act? in this disease - Doan
says by exciting γ absorbents of
 γ kidneys into proper action -
B. says this remedy adapted to
Diabetes of long standing -
In Intermittents, it joined nut-
meg, good. This remedy apt
to disagree Cullen says - Lind
says he never prescribed any
remedy, except of bark, with such success.

10
X

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

In the putrid bilious fever of 175
Lauth C. is recommended a
Preparation of Alum. B. says he
has given alum in Intermittents
but not to his satisfaction. It acts
in of cur as Cort. Peruv. Darwin
says it cures those Intermittents
seated in of Intestines & cures by
promotion of absorption - This reputed
by B. Alum frequently purges -
B. has found it almost always to add
Laudanum to alum when given in
Diabetes. The Dose in substance is
from \mathcal{v} to $\mathcal{ss} + \mathcal{t}$ - Good rule to
give small doses of \mathcal{t} repeated -
In large doses affects the stomach -
Alum, no doubt, stimulates w arterial
system - Flom of Ed^h found it to
quicken w pulv. Darwin places
it among his Sorbentia but thinks
w doses when large purge -

of Lead.

Difficult when to arrange this med:

~~the best way is to give~~

1. w principal preparations
2. in inducing crises & 3 in curing them

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mostly obscured by the texture and color of the aged paper.]

When oxide has no medicinal 76
operations, when united with acids
powerful - ~~The acetate~~ ^{Oxygen} with
lead forms ~~of ceruse acetata~~ white
lead - This formed by γ steam of
vinegar on γ lead - The Sac: Saturni
is this white lead dissolved in
Vinegar - The only prep. used
internally - The ex of Sov. is
a \cup of lead - It is made by boiling
 Fig. of vinegar with it
differs little from solution of lead
when read by α is minimum

of melted by this process is called
lytherage - They employ to make
ointments - Cosmetics of lead
hurt γ Constitution -

The saline prep. externally applied
do not affect γ system - M. says
 γ lead when applied to an ulcer
may be absorbed -

It produces γ Colica Saturnina

17

[Faint, illegible handwriting throughout the page]

Devonshire Colic. # 177

often terminates in Palsy of Limbs

It is often introduced in cyder.

In Amsterdam was once Epidemic
When w^h Trausers were covered with
lead upon which w^h leaves fell &
their acid united with w^h lead
& run down into w^h cysters in a
fluid state. In Venice a Dutch
Merchant killed 90 persons.

In 1793 Bark mixed with lead was
sold in Delaware & produced much colic.
Some Painters in this City often affected
with this - Potters often affected &
hence it is called Colic w^h

It is cured by purging & bleeding
& w^h blood sometimes shows a buff
this cullen has enormously denser
or aperted is not of ease - Oil or
Ol. Ricini w^h best purge. Opium
should not be given till w^h bowels
opened & this remedy sometimes
surgery. Warm bath & frictions
good in large doses. In the produc-
tion of this colic w^h Volatile Particles
enter w^h system - It is said that

1. Dr. Dewees informed his
class that he had given ʒr ℥ss
ʒ Sac: Sat: every two hours
without inconvenience to the
system. He seems to think
a certain determinate quantity
ʒ Sac: Sat: is necessary to pro-
duce a good effect & if carried
beyond this point the good effects
will not be increased - If the
Stomach will not bear this medicine
(& this is frequently the case) he
has succeeded by rejection - ʒi
ʒ the Sugar of lead dissolved in
a gill ʒ water with a teaspoon-
ful ʒ Tinct: Yehai is his formula

large quantities of Asungia taken 78
internally, will prevent the effects
of Lead. The Malic acid will some-
times produce the same effect as
when a portion of lead is added -
Cyder will frequently induce gouty
Pains in gouty habits. To many
persons lead is by no means so very
deleterious. Shipper's Patient
drank $\text{gr} \times \times$ without injury or in-
convenience. Lead is by no means
1. unfavourable to the growth of vegetables
To inflamed parts, inflammation
of the eyes, & TTT Gaulard's extract must
highly excellent. In the Erysipelas
of the old good - Cullen says sometimes
induce gangrene - Darwin says lead
in Erysipelas good - B. says be
careful in its use in Erysipelas
In Burns of the face it must not be
continued too long - Lead & Mercury
in Scrofula has been said good. In
the plethoric Scrofula this remedy
not very good.

17

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

In Gonorrhoea B. seldom gives 179
more than gr viij to ℥ij: ℥viij.

In general does not give so much
as this. His R. in an incipient
G. gives ℥iii or 4 to ℥ij: ℥viij.

An infusion of Böhmen, rose leaves
or geranium good in incipient G.

In fluxu albus & Sac. Lat. used
internally with advantage - B.
advises by all means to begin ^{in Gonorrhoea} with
weak injections lest we produce
Hernia humeralis —

17

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

2

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

of diseases in which
lead has been internally exhibited
The Sac. Saturni appears endued
with a tonic power as in *Intermittent*
B. has no experience in this ~~med.~~^{respect}.
This has been used in Epilepsy
in this disease is an old medicine
In one case after the lead induced
disease of bowels it cured of epilepsy
B. thinks this medicine not so good
as some other medicines. The long
continued use of it had - In
Whooping-cough it has been used
This practice not recommended
Hunter recommended it to Pa-
tients in Tetanus while of Patient
was in an Ice-house. B. thinks
not favourably of this practice.
Mr Clutterbush gave this medicine
in a case of Tetanus in quantity
 $\frac{1}{4}$ gr four times a day for three weeks
This ~~did~~ with advantage

18th Dec 1841

I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the above mentioned matter. I have the honor to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,
 Yours obedient servant,
 J. M. [Name]

It has been recommended in (82)
different grades of Mania - B. has
in this respect, no experience -
In gonorrhoea lead internally has been
used with advantage provided
w^h gonorrhoea was of long standing
B. gave it in combination with Opium
In Leucorrhoea it has been used
with advantage - In Diarrhoea, by
some, with advantage.

The Sac: Saturni is said to
moderate arterial action in
doses of gr. iij at once by

A lowered & Pulsu in w^h hands
of a Practitioner not far from
Phila^a.

In Haemorrhages of red blood -
This Sac: Sat: no new remedy -
Hardy says he never saw a case of
Gout but what might be traced to
w^h lead taken in by drunken wine -
~~Alcohol~~

Faint, illegible handwritten text, likely bleed-through from the reverse side of the page. The text is written in a cursive script and covers most of the page area.

~~Epistaxis may be cured~~ 183

The internal use of lead infinitely less dangerous than has been supposed. The first case in which B. gave this remedy was in a discharge of blood from the bowels after a Dysentery. In a case when a gallon of blood was discharged from the anus it was soon cured by lead.

In 99 a man was attacked with an hæmoptysis & discharged $\mathcal{R}ij$. The Sac: Sat: was given after a bleeding in doses of $\mathcal{gr}ij$ every hour & cured his Patient. In Epistaxis has given Sac: Sat: $\mathcal{gr}viij$ with $\mathcal{ss}ij$ at once & cured his Patient.

Used it in hæmorrhagic ulcers & discharge of blood from the stomach.

The first thing I saw
 when I stepped out
 of the door was
 a bright sun
 shining on the
 water. The
 air was warm
 and the
 breeze was
 pleasant. I
 felt like I
 had reached
 a new world.
 The water was
 so clear and
 blue. I
 could see the
 bottom of the
 sea. The
 fish were
 so colorful
 and beautiful.
 I had never
 seen anything
 like this before.
 It was truly
 a wonderful
 experience.

In 1795 - a man labouring 184
under a grade of yellow fever which
was attended with great discharge
of blood ($\frac{3}{4}$ 100 in 24) from the
Intestines - The usage of lead ~~being~~
op: grj & Opac: griv duodi
Dor: i℥ - given as a symptom
indicated - This man was cured
This combination of Opac: &
Sac: Saturni peculiar to Boston
Never employed Sac: Saturni
without doing good -

In a case ~~not~~ of discharge of blood
from the uterus, which is almost
always to be considered acute,
Opac: Saturni was prescribed
with great advantage & but without
effecting cure: then issues were
employed with advantage - In a
case of this kind Opac: ~~with~~
Sac: Sat:
was used in junction with Opac:

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

85

This lead excellent in Abortions
Relates of case of a pregnant woman
who was flooding & who by giving
of lead ~~it~~ was saved from death
The pulse was soon raised & of
child was born a fine & is
healthy now $3\frac{1}{2}$ years old -
This lead & even Speac: will
stop haemorrhage & without pro-
ducing sickness - Mr Burns is
of different opinion - Recom-
mends this medicine as one of
the most important remedies &
particularly in haemorrhages of
the uterus & bowels - This
medicine acts by reducing the
activity & tension of the pulse
This is in some measure proven
by its being particularly successful
in active haemorrhage.
Lead, however, must act in some
other way besides reducing the
pulse -

Handwritten text, likely bleed-through from the reverse side of the page. The text is extremely faint and difficult to decipher, but appears to be a continuous paragraph or list of entries. Some words are barely legible, possibly including names and dates.

180

The Modus operandi of Lead
is, its astringency & its power
of lowering of Pulse it is
probable: Tho' its precise mode
of action we are ignorant of -

Lectura Decem⁹th

~~Boerhaave~~ ~~Boerhaave~~ gave lead in
Lead, when there is a profuse
salivation, which is always ac-
companied with a peculiar fever,
may be useful? In cases of this
kind tho' opium is most depended
on. B. recommends a trial of
lead in violent salivation.

The largest quantity B. ever gave
was gr viij ℥ss gr i in a case of
Epistaxis -

The sugar of lead when in lay ⁸⁷
does purge & vomits. In general lead
exerts its effects in small doses.
This subject of lead is by no means
completed. Lead salivated.

B. thinks, Boli, Creta &c do
not act by an astringent proper.
Most of Cullen's astringents
ought to be referred Tonics -
B. considers every astringent
somewhat Tonic. All Tonics
some stimulant

Of Tonics.

Parwin considers them as
Acorbentia. He does not approve
of bracing as tonics. By
Tonics or Roborants are a set
of Medicines, ^{or means} which give
partial or general strength
without greatly increasing
the heat of the body.

The history of the world is a long and
various subject. It is a subject
which has attracted the attention of
all ages and all nations. The
study of history is not only
interesting but also useful. It
teaches us the lessons of the
past and helps us to understand
the present and to prepare for
the future.

History of the World

The world has been inhabited
by man from a very early
period. The first man who
appeared on the earth was
Adam. He was created by
God and placed in the Garden
of Eden. He was there for
many years but he disobeyed
God's command and was
driven out of Eden. He then
went to the land of Nod and
there he and his wife had
many children. One of these
children was Noah. Noah was
a righteous man and he was
preserved from the great
flood which God sent upon
the world. Noah's ark was
filled with animals and
Noah and his family were
saved. After the flood, Noah
and his family went to the
land of Shinar and there
they built the city of Babel.
The people of Babel were
proud and they wanted to
build a tower which would
reach up to the sky. God
was angry with them and
he confused their language
and they were scattered
over the face of the earth.
This was the beginning of
the different nations and
languages which we see
today.

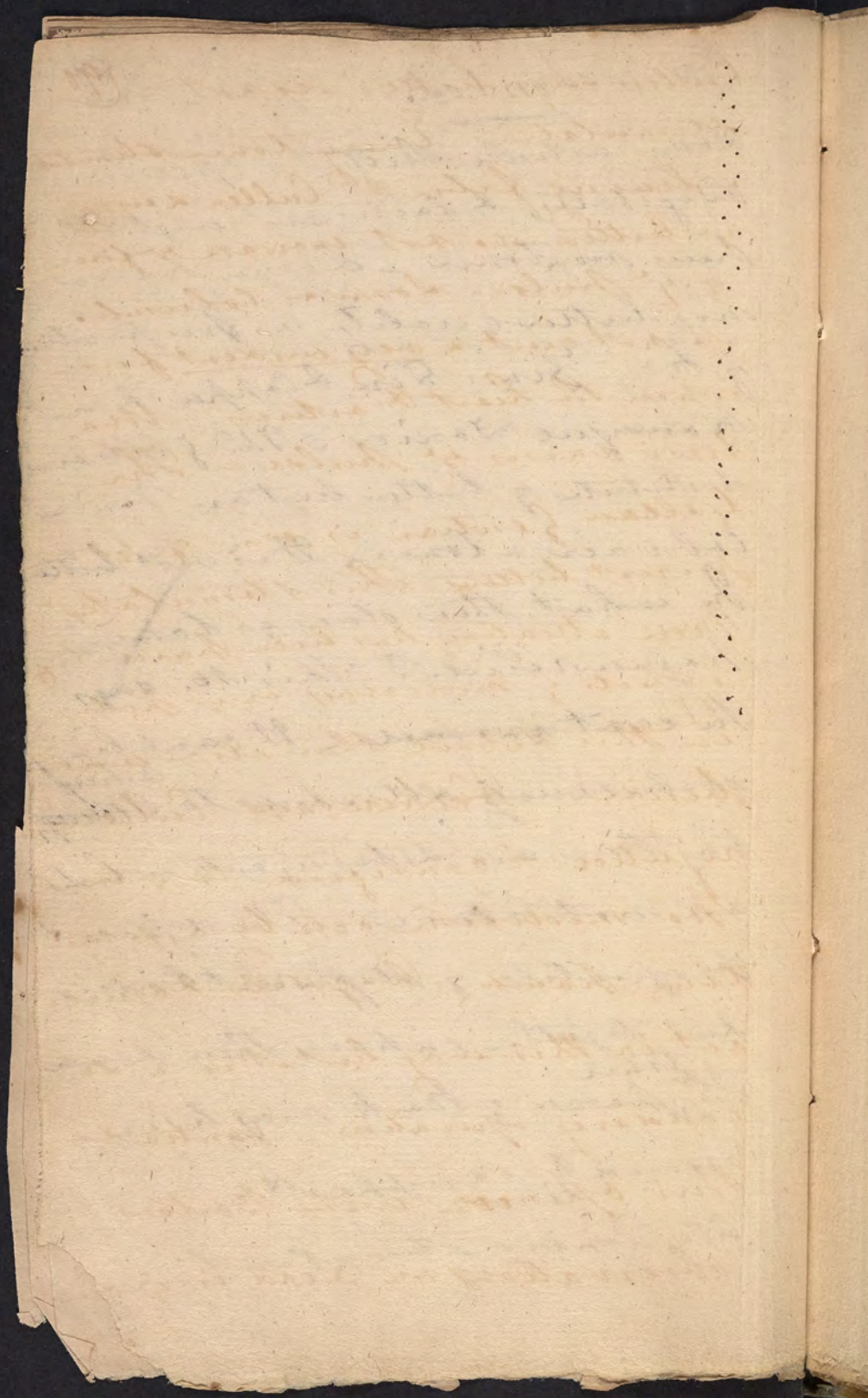
188

The Tonic effect of Stimulants
much less lasting than that
of Tonics strictly speaking
The Tonic quality of 31^a Bark
is felt for many days.

This not of course with stimulants
As of stimulant quality of
Tonics increase their Tonic
power decrease

The Particular Tonic power
is supposed to reside in their
Bitter by Cullen. B. thinks
Smith C. many of y^e bitters are
tonics; but does not think it
resides exclusively in Bitters
More that bitters are y^e only Tonics

Some intense bitters a Opium
 Digitalis, & lactescent vegetall
 have no Tonics - Some have
 no bitter quality, as Preparations
 of Iron, Zinc, Tin, & Copper, & are
 powerful Tonics. The Gallon
 destitute of bitter but an Tonic
 Cold air a Tonic. It is not bitter
 In what then does y^e tonic
 power reside? This No. says
 he cant answer. It cant be
 exclusively attached to ^{astring} bitters
 for there are astringents which
 are not Tonics. The different
 properties of different bodies
 put together enhance their power
 The ^{tonic} power of Bark may be in-
 creased by camphor &
 All Tonics stimulant



Cullen says bitters do not 290
stimulate - Every tonic stimulates
vibrating fiber & Cullen says
v bitters do not increase v force
of v Puls. Some as Columbus
do not exert a very evident force
upon the heart & arteries. Ma
stici raises v pulse - The
Mellau Gentian is one of v
purest bitters - This stimulates
More attention has been paid to v
effects of medicines on v pulse
in this school than all v world
beside. Haller says Cullen is
reputed & consigned to v tomb
No medicine acts by a seda-
tive power - Digitalis & squill
act in this way but it is a se-
condary operation - Contrast
this opinion with Bartsch's
observations on Lead in v cure

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

91

of active hemorrhage -
Bitters & Tonics cur, in part,
by a stimulant quality -

Lecture 19. Dec 11th

The First Head of Tonics is
called of Tonica Astringentia

2. Tonica Amara

3. Amara astringentia Tonica

The Astringents which have
been considered, included w
first head -

of w Tonica Amara

The chemical nature of w bitter
principle is not well understood
It is not affected by acids, alkalis,
Mucous & air &c - The Metals of
Silver, & acetate of lead will
precipitate w bitter principle
& no other agents known. This
knowledge, in practice, of great
utility. Bitterness is a simple quality.

[Faint, illegible handwriting in cursive script, likely a historical document or letter.]

Some of our purgative bitters (92)
are destitute of odour - The deleterious
effects of bitters depends not on
the bitter principle but some other
accidentally attached - Bitter
quality does not depend on es-
sential, or any other volatile
principles. Bitterness, however,
is frequently combined with
an essential oil - Nothing saline
in the composition of bitters says Cullen
of the conditions of the
system

in which ~~Medicine~~ bitters
may be employed -

Bitters increase the appetite for
the digestion of the food - Dyspepsia
depends on the gastric juice being either
of a bad quality or in too small
a quantity - Darwin says they
increase digestion by the absorption
of chyle being promoted. Stimulants
will promote digestion

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

Bitters have been recommended ⁹³
in ulcers & used with advantage
Bark in w hands of some has done
injury in gangren - The Tonic
bitters have done much good in
some cases of costiveness - Some
pretty pure bitter purgative
This militates with *Darius Lobelia*
- In some cases of ~~bitter~~ may
of Dropsy bitters may do act
as diuretics. The greater part
of w 19th class or *Syngensis* are
diuretic - *Opium* diuretic
often & bitter - *Prospora* *Regium*
found w almost burnt - good tonic
In w inflammatory stage of fever w
bitters injurious - First bleed & purge
Other bitters proper - Bitters
frequently sudorific - Bitters
sometimes Emmenagogue - When
it is attended with debility, as
in Chlorosis, more properly speaking
febris alba, bitters will do
good

[The page contains approximately 25 lines of extremely faint, illegible handwriting in cursive script. The ink is very light and the paper is aged and yellowed. A horizontal line is visible across the middle of the page.]

C. says, somewhat deleterious (94)
a poisoner is to be suspected
in all w^h bitters - Gregory says almost
all w^h bitters, especially those of vegetables
are when taken largely an injurious
Haller said many years ago bitters
possessed a narcotic quality -
The *Zanthoxylum armifolium* &
other natives have a viscid taste
The red Peruvian leaf is a valuable
known injurious than good pal-
Bark - This Bark has induced
Daley - Bitters no doubt possess
a narcotic quality - B. believes
however, that bitters are not ne-
cessarily narcotic - This principle
is accidentally attached to bitters
There is however sometimes
an intimate connexion between
bitters & poison -

Bitters relieve gouty affections -
There however will come to be
spoken of under w^h head of Antidotes
as B. considers hepatic affections

[Faint, illegible handwriting on aged paper]

almost always faulty

95

Lecture 20. Decemr. 15th

of Particular Tonics

Cortex Peruvianus or Peruvian Bark. The most important of medicines it was unknown to the ancients. The Potato, Turkey & were unknown to the ancients. There are 14 species of Cinchona.

1. *Cinchona lanifolia* by Linnæus. *C. officinalis*. This *lanifolia* or common Bark is a native of Peru near Azua. Humboldt called it *C. Condurmenia* - after Condurmen - It grows to the thickness of a body if not disturbed.
2. *Collozifolia*. The leaves are broader

9. C. spinosa - g. C.

10. C. conyifera

11. C. semata

12. C. ~~floribunda~~ *floribunda* Hooker

13. C. brachycaha

14. C.

in proportion to its ¹⁹⁰
length & it grows to 120
feet - This supplies with
red Bark - It was first
used 1779. Sydenham
did not know this Bark
The red Bark is friable

3. *C. Cordifolia* - Grows
15 to 24 feet. Professor
Calle called it *C. Pubescens*
It has been long known
as in 1740. It is not
readily distinguished
from ^{Common Bark} ~~yellow Bark~~

The yellow bark is
obtained from *C. Cadylla*
4.

5. *C. excelsa* G. G. Carabae

7. *C. longifolia* G. Saml.

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

Peruvian Bark ⁹⁷

~~S. America~~ Wipe

of y^e cant Cinchon was
advised in 1638 to take
this Bark for a fever then
its name Cinchona.

Lewis 10th was cured ~~by~~
a fever by this Bark

S. America was known
100 years before this in-
valuable medicine was
discovered - The Europeans
did not first discover its
power - The Natives first
discovered it - An Indian
with ayeu dract water
when y^e Fe Bark was
discovered this great
& wonderful remedy.

We have no good analysis
of this Bark -

~~Handwritten text, mostly illegible due to fading and bleed-through from the reverse side of the page.~~

oblongifolia 99

The Red bark or *C. [redacted]*
folia was analysed by Lander
but contains more
arsenic & is more a tincture
& antiseptic - The infusion
communicated a red
color to blue paper -
Fameray found citric
acid in it - The analysis
however of little consequence
The peculiar principle called
cinchonism has been supposed
a kind of glue. Leger & author
Dr Duncan gave it name
cinchonism. The same principle
has been found in Kina
This cinchonism is found
in black pepper - The Barks
~~to be preserved~~
most efficacious from the
oldest trees, from their trunks,
not branches &c

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

It should be kept in
 Chests when its virtues daily
 increase so that of older &
 Bark of better - Large frag-
 ments more liable to spoil
 than smaller portions - In
 w Peruvian Bark there is
 a bitter & an astringent
 principle united. Sagu
 cures fevers by glysters & pills
 Bark operates on w stomach
 demonstrating its power - In
 w Dyspepsia good - This
 disease may arise without
 w fibres being affected - The
 fibres however may some-
 times be affected - Intermittents
 cured by the tonic power
 of w Barks - Bitter almond
 has no astringency Lemney
 of Landon says it acts in
 a way not known -

w use of w Bark
 in Diseases -

[The page contains approximately 25 lines of extremely faint, illegible handwritten text in cursive script. The ink is very light and the paper is aged and yellowed.]

He will take notice of
w practising Physick in
his lectures -

of Intermittents

In w greater number than Bark
will effect a cure - The Stahls
always opposed to w Bark
At what period of w disease
may w Bark be given - Vanswick
inculcates Boerhaam's rule "give
w Bark after w disease has been
on for some time". B. says

give the Bark as soon
as possible lest w se-
cond fit take - It is
for no repetition of
paroxysms - Sydenham
a faithful observer
but a wild Theorist.
The Stahlians suppose
w Bark would suffice
suppress exertions

Handwritten text in cursive script, mostly illegible due to fading and a large dark stain on the left side.

(151)

Kind advises early adminis-
tering of Bark. This an
excellent practice. Kind had
much experience in simple
Fever. The indiscreet exhibi-
tion of bark may induce
dropsy & jaundice. Is the
body to be prepared for
reception of bark?

Cullen says, it may sometimes
be prudent to vomit & purge
previously to exhibition of bark.

When there is inflammatory
symptoms first bleed before
giving bark otherwise it
will do ~~not~~ good. In an
Intermittent fever our Country
it is often injurious to ex-
hibit an emetic for it will
produce irritability of the
stomach. B. does not assist the
emetics an improper prepa-
ration for bark except when

[Faint, illegible cursive handwriting covering the page]

there is an affection of the
 head, an approaching in-
 tability. When there is a
 diarrhoea an emetic is often
 proper - B. thinks a purga-
 tive more proper - be 6 or 8
 gr Calomel or Rhubarb &
 3 or 4 gr Cal: or of Podophyllum
 peltatum with Cal: B.
 thinks unfavourable of Jalap &
 Calomel in those cases -
 when or administration of
 or Bark somewhat doubtful
 unite with it a little Rheu-
 barb - particularly in first
 doses.

[The page contains several lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and difficult to decipher.]

Lecture 21. Dec 16

Subject of Bark continued

The *C. lanceifolia* or Pale bark was used by Sydenham.

2. Species *C. oblongifolia* furnishes y red Bark. 3 *C.*

Cordifolia affords y willow Bark.

The *C. Brachycarpa* affects y hand with palsy occasionally -

Some say when there are obstructions in any of the viscera y Bark improper. B. does not think obstructions in y viscera during y cold stage, are formed & thinks when those obstructions not very great y Bark may be given - B. thinks,

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

Cullen carries y use of
w Bark too far when
there are obstructions
Toit & some others g au
w Bark just before w time
of w paroxysm - Cullen is
of w same opinion -

Bo. says w practice of giving
bark just before w time
of an accession of fever is
improper & for at that time
w stomach is highly ex-
citable - It is however,
sometimes proper imme-
diately to give y Bark
p particularly when w
intermittent is violent.

& in some cases w second
fit will Rite

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

Bark continued 105

Flores says give the Bark directly after the fever has gone off. May the Bark be given during the hot stage? Dr Clark gave the Bark during the hot stage. Other Practitioners of hot climates give the bark as Clark.

B. does not agree with those Gentlemen. B. thinks during the hot stage it produces dreadful effects.

Floresholatt says the Physicians of S. A. give the Bark always during the hot fit & not the cold.

The climate of that country must favour this practice. In some Intermittents there are apoplex

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

tic symptoms & depressed ¹⁰⁶
pulse - The Remittents
& Intermittents arise from
the same cause - The one
passes into the other.
Morgan gave the Bark in
remittents - In our re-
mittents bleeding, pur-
ging or sweating should
always be promised but
giving of Bark &
not then unless a complete
remission appear -

The Typhus fever is
produced by stimulus
but of first instance is
phlogistic: here then
w bark improper - Some
cases of Typhus approach
to Remittents & Typhus
is contagious - B. does
not think yellow-fever con-

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

tagious -

107

Lecture 22. Dec. 18th

Subject of Bark continued.
Dover, about 70 years ago, bled
180 persons to 100 ~~of~~ ~~the~~ ~~men~~
each & afterwards ordered
dilute Sulphuric acid
& only 8 died & they would
drink spirits - The Mosch
Plague killed 40,000 - Bark
& acids were used here
At Smyrna those who
bled most are most suc-
cessful - The Genus
Synocha of Cullen is
an inflammatory fever
then w Bark improper
Senac gave w Bark in
Pneumonia when it
assumes w type of an
Intermittent -

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

In general when w- 108
blood presents a buff w-
Mark improper tho'
there are exceptions to w-
rule - In Dysentery, if
complicated with an
Intermittent, w- Mark
is highly useful
Cholera bloody only
sometimes, never useful
Opium highly useful
When Pulverulent
give the Bark
B. has not seen it
in this form - Rheu-
matism treated
to advantage
with Bark

The general conduct of the
business of the office
has been improved
there are several
new buildings
completed
The amount of
the receipts
has been
increased
The
expenses
have been
reduced
The
profits
are
increased
The
business
is
prosperous
The
office
is
well
managed
The
conduct
of
the
business
is
improved
The
amount
of
the
receipts
has
been
increased
The
expenses
have
been
reduced
The
profits
are
increased
The
business
is
prosperous
The
office
is
well
managed

Lecture 23. Dec^r 19th ¹⁸⁰⁹

Bark in Rheumatism &
great given by Flaxgill
with advantage -

In Pneumonia of persons
much debilitated & where
complicated with Inter-
mittents not to be mana-
ged by bleeding but with
Bark - Hemisrania re-
turning periodically
treated to advantage
with Bark & valerian
combined - Dr Lind gave

Bark to wth prevention
of an increase of Dropsy
In Hydrocephalus, assum-
ing the shape of an In-
termittent, Bark good -

In Plethoris Pulmonalis
wth Bark has been recom-

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

mended - In the beginning ¹¹⁰
when a Phlogistic dia-
thesis prevails, Bark
is improper - I have bleed
a Patient fifty times
& always with a buff
Tongue thinks highly of
Bark & uses it in general
in Phthisis - In persons
who have Phthisis suc-
ceeding our Epidemics
& Intermittents of Bark
may be useful - When
violent chills occur in
Pneumonia ~~the~~ Bark ~~is~~
was in one instance
serviceable
When Haemoptysis returns
periodically of Bark may
be good - In Haemoptysis
that are profuse of Bark is

[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page. The text is mostly obscured by fading and ink bleed-through.]

114

The Mictus cruentus
or bloody urine may
be treated to advantage
by Bark. Milman
mentions a case of Scurvy
cured by Bark which
is a good Dent^{if}~~if~~

Erysipelas has sometimes
been used with advantage
in London but ~~not~~ in
Scotland it is treated
as an inflammatory
disease. There also

B. thinks there are three
kinds. 1. when it de-
mands no attention 2.
Inflammatory 3. as
a Typhus or low fever.
Then the Bark would be
proper -

Rickets & cured by w
Atmosphere & is called
Morbus Anglicus which
appeared about w reign of
Charles 1. Boort took
their rise from rickets
which distended w
legs —

Epilepsy is sometimes cured
by w Bark. Cullen thinks w fossie
Tonis preferable. Periodical Epilepsy
cured by Cullen with w Bark. This
also useful in Tetanus according
to Rush. The Jamestown weed
will bring on Tetanus. The poison
of w serpent & a species of Rattle
Snake will bring on Tetanus —
The Chorea St Viti treated usefully
by Bark. Stahl relates a case
cured by w Bark.

112

In *Scarlatina virginea*
a malignant one - tho' that
for they are w^h same
disease - ~~Or the~~
the Mark has been un-
ful -

The Measles which have
often appeared in this
city, have been treated
by M^r. by large bleedings.
Scrophula is common
among the Indians but
Rachitis unknown among
this people - A prodigious
w^h difference of w^h time
diseases -

The Secretary of the
Department of the Interior
for the year 1870
Circular - 1870

The Secretary of the
Department of the Interior
Circular - 1870

After the appearance of
the Secretary of the Interior
Circular - 1870

The Secretary of the Interior
Circular - 1870

The Secretary of the Interior
Circular - 1870

The Secretary of the Interior
Circular - 1870

(113)
Lecture 23. Decr 22^d

Whooping-cough is often a febrile disease. Asthma is often depends on a mobility of the system - It is often however a febrile disease here w^{ch} Bark improper - Has used Bark with advantage in Asthmatic asthma tho' it should be used with great circumspection Bark in Hysteria often good Bark in Gangrene often good Has Inflammation often precedes gangrene but not always - Gangrene in w^{ch} arises from cold was exasperated by w^{ch} Bark. In w^{ch} case to which B. relates bleeding & purging more more proper. The Virus bite induces gangrene & w^{ch} Bark has been

The following species of
~~Centian, Quapia, Chironia,~~
~~Alumula should precede~~
~~Alumula & follow Bar-~~

(114)

had recourse to but with
no very obvious & great advan-
tage - The external ap-
plication of the Bark has been
useful. Preparations of Bark
made with wine have been
I applied with advantage.
The Quilled Bark ~~is~~ jacket
excellent -

In many cases of Syphilis
Bark is necessary - Mercury
combined with Bark
frequently good -

Bark will retain a lasting
reputation

of *Argentina* Bark

This first carried from *West*
India to which it came from
S. A. to England - This
Bark is a species of a tree
very nearly allied to *Magnolia*

The first thing I should mention
 is that the weather was quite
 pleasant today. We went for a
 walk in the park and saw
 many beautiful flowers. The
 children were very happy and
 played for hours. We also
 had a picnic under a big tree.
 The food was delicious and
 everyone enjoyed it. We
 stayed there until about 5 o'clock
 and then went home. It was
 a very nice day and we
 all had a good time. I
 hope to go back soon.

The Sulph: or oxy-sulph: pro-
duce no change on this Bark
The Alkali effect it.

This Bark may be given in
doses of ℥j every three hours

This Bark has been used
in Dysentery & Intermittents

In low fevers the Argemone
preferable to γ Bark according
to Brana because it is not
so apt to run off by the Bowels

In a gangrenous affection
& ulceration of the γ throat
this Bark good - Dr

Pearson of London, thinks
this Bark excellent in affec-
tions of γ stomach ~~and~~

As a general Tonic inferior
to γ Bark when good -

In Chlorosis this combined
with chalybeates is good

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

In Hooping-cough when ^{U16}
there is weakness & it
this *Angustura* may be
good - For Children this
is a good - It does not
disagree with Children
who take it with less dif-
ficulty than many medicines
of the *Magnolia*
They resemble the *Angus* -

The *Mag: Tripetala* or
big leaf or Indian Bark
It is more bitter than the
Angustura is by no means
inferior to the *Angustura*

Lecture 24 - Dec^r 23^d -

The *Angustura* stands near
Cinchona tho' not of the same genus
This *Magnolia glauca* treated on
by Pinx It is a valuable medicine
It is called *Sassa* The *Mag: floridiflora*

[The page contains approximately 25 lines of extremely faint, illegible handwriting in cursive script. The ink is very light and the paper is aged and yellowed. The text is mostly illegible due to fading and bleed-through from the reverse side.]

Tonic
Lectura

of (110) Feb 21

The *Chironia angulata* has
bitter flowers - The gentian
centaurium flowers are not bitter
Zi of Quapia to Zviis of boifing
matur is sufficient - The L. Si-
maranba is the weakest species -
The narcotic principle of w Flow
is same as that of ap: Twenty
drops of laud: equal to 60 of
Tinc: Flop

Mneryanthes trifoliata -
This a native of Europe & West
America growing in marshy grounds
It has been used in Gout - It is
a strong bitter with super sulph.
iron It strikes a black colour
Dierdij purges - Dr. Haller says
Bankaan used this is The eye
recent juice has been used - A
matur infusion preferable - This
M. has been recommended in
Nephritis affecting - Used in
Tania, Itis & - the fomentation has
been useful -

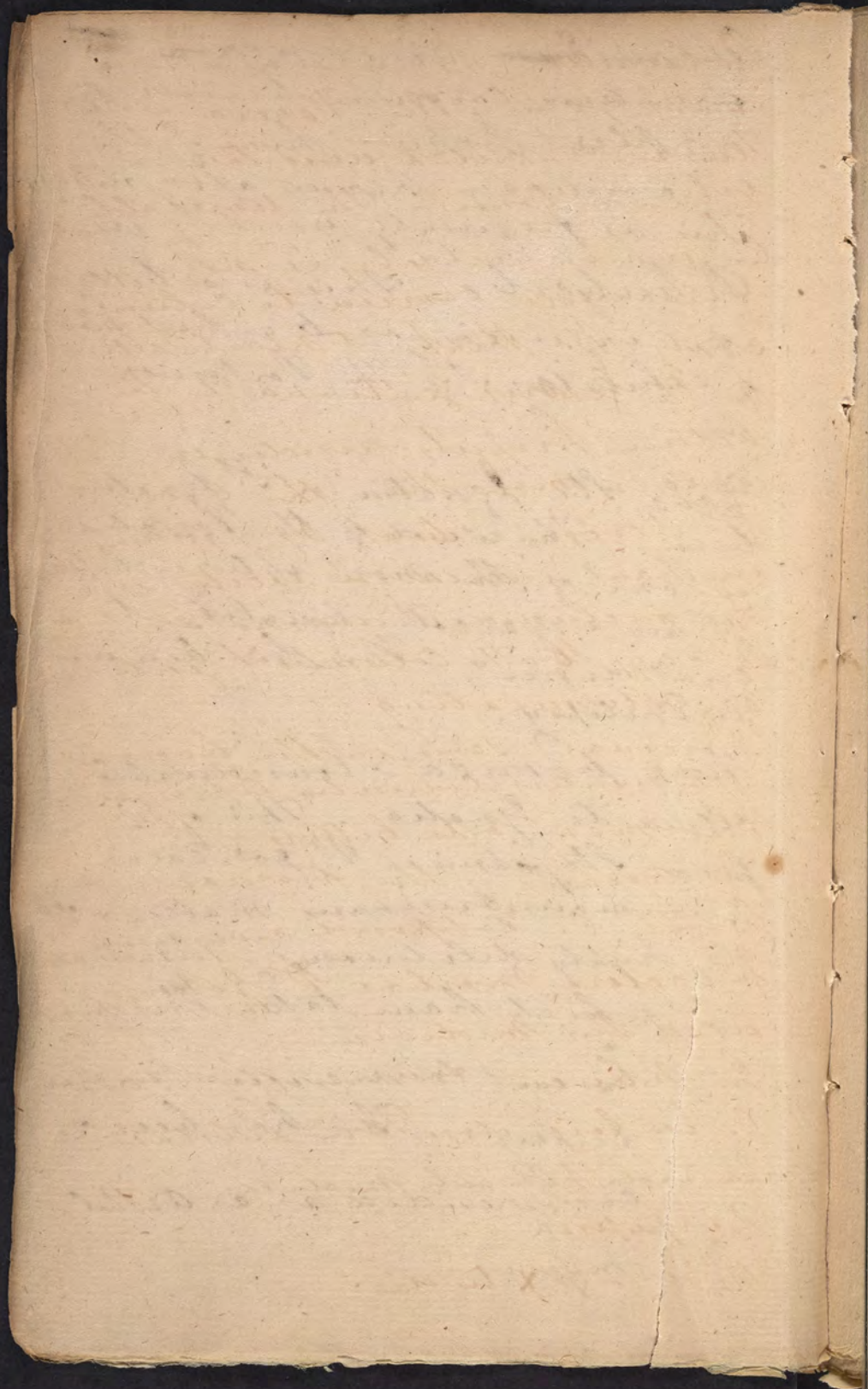
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V116²

~~Centaur~~^{ea} ~~Benedictana~~
sometimes *Carduus benedictus*,
This plant proper name of the
extraordinary hauser of ~~impurities~~
This is frequently used by families
Rhubarb. This is a better
An infusion is the best mode
of exhibiting it. The Portuguese
use

Haba Sti Ignatii or *St Ignatius*
bean - The seed of the *Ignatia*
is one of the most intense hotters
It has a narcotic quality to a
great degree. This has been used
in Epilepsy

Nux vomica - Considerably
allied to *Ignatia*. This of the
genus *Strychnis* - It contains
gummas resinous matter - It
is highly deleterious - Animals
which have taken this may
be cut & mangled without
feeling - This has been re-
commended as an *Artel.*
mentis



116³ ~~116~~

Columbo. This was used
long ago - The Flagera of Ken-
tucky is much used there & is
a good tonic - The vegetable
C. which yields C. is not known
It was first carried to Columbo
a city - B. thinks it nearly allied
to the genus Gentiana - The
active property resides in
warm more than the Gum
Dr. Percival took ʒj of Columbo
without increased excitement
& concluded it was not stimulant
B. says both Columbo & Gentiana
are stimulating -

Percival says, in the beginning
of Dysentery Columbo less injurious
than many other bitters -

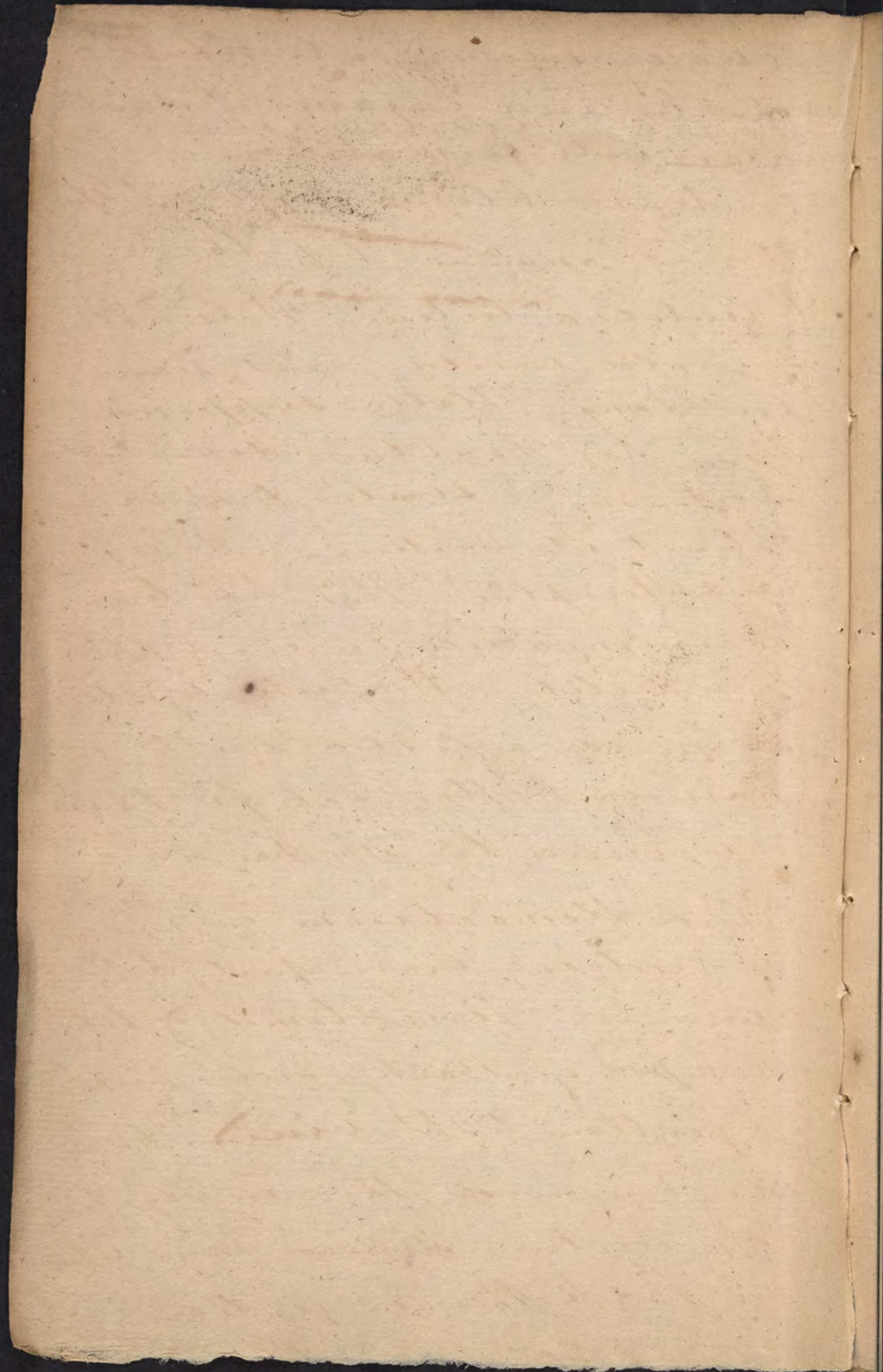
In diseases of the stomach &
bowels C. supposes very useful
In Cholera Morbus Dr. Johnson
used this medicine -

In Nausea & vomiting C. used
C. in large doses & in substance
an indispensable medicine in
Dyspepsia -

Its dose gr x to ʒi

A work by Mr Mead on
Tales, Dorsalis

Uterine infusion of C. should ~~not~~^{not}
not be used because it directly
runs into fermentation -



Lectures -

Feb 20th

Tonics continued

Gentiana. All v different spe-
cies are more or less tonic -

1. *Gentiana lutea* - It is native
of v old world. root several
feet long. Haller supposed
there was something somewhat
delicious - water & spirit
extract its virtues - An infusion
is antiseptic. This has been
recommended in every species
of debility - It assists digestion

A person affected with a
pain in v stomach for 15 years
was cured by ℞ per day -

Elixir Stomachicum composed
of Gentian, orange peel, & Dist
win - Time: Stomach of Lohmann
composed of Bark, orange peel
& Gentian vrt mixed Lohmann
recommends this in Hysteria
Its virtues depend more upon
v Bark than v Gentian

113
Gentian one of the component
parts of Portland powder

~~Dr. Linnæus says the extract
of Gentian with~~

Plenk cura a scrupulis
Patient with Gentian. It is
probable. It is sometimes
used in cases of worms.

Tinctura Amara is v
Tinc: Gentian: composita

Gentiana Centaureum.

This v lesser centaury & is
a native of E. I. It is
a very bitter plant. This
to be distinguished from
the Chironia angularis -
The G. Cent. has been used in
intermittents.

In Jaundic has been used.

Chironia Angularis -

This sold in our Market & is used by every family -

This among the best bettes

Quassia. There are three Species

1. *Q. Amara* - This grows in S. America ~~the~~ This is destitute of astringency - It is vertues in w bark & w wood root in a most eminent degree Bark preferable to w wood which is generally used in this city -

In Remittent fevers of Surinam it was first used & by black Dr Leacopy - In w Annals of Academie it was treated on by Linnaeus - It has been recommended in Dropsies Boil ʒiſ in ʒiſ to ʒij - Add to this a little ʒʒ to prevent its spoiling - Dr Lettsom has found it useful

In Hysteric atony this
is particularly adapted
~~to the treatment of~~

~~L. ^{ziii}~~

Dr Chaucet's prescriptions
seldom contain ^{than 10} ~~less than~~ 10 articles
~~than 10~~ -

Practical Medicine retarded
by such long prescriptions -

Dr Lettson has a prescription
of ~~the~~ principal ingredients
of which are Sulph. of Zinc
& Quercia -

In Calculus this remedy has
~~also~~ been used -

In Dyspepsia & laxity of ~~the~~ bowels
after Dysentery & the like the
L. has been very useful

This one of ~~the~~ most important
litters used -

L. Polygama. This grows in
the West Indies. In taste &
virtue is nearly equal to ~~the~~

of Surinam - This has ¹¹⁶ ~~117~~
been used in what is called
Dirt-eating - This disease is a
vitiated appetite - It is called
Pica Dogs & Cats are affected
by this disease - Pica -

The wood is strongest -

2. Simarouba - This grows to
a large tree - By taste in the
no astringency can be detected
Cold water extracts more of
its virtues than warm -

This has been used in Dysentery
It should not be used in the
first stage of Dysentery -

Dr Monro has often used a
decoction of this medicine in
Dysentery & Dysentery -

Common Soap or Tincture
Serpula - To preserve Malt
Liquors other bitter than this
might be used -

We know but little of
the medicinal virtues of this

Infuse 3lbs of flowers of
w. Flep in 30ij Sp. Vini

The Flep agrees with many
who cannot take Opium

Dr. Willis used the Flep-
pillow for his Majesty &
he had a good night.

The continued use of Porter
was injurious than good
wine

Mr Ray says ^{many} Flap has
been used in fermenting liquors
stone has been less common
Mr. differs from Ray ~~because~~
~~because the~~

Darwin says, Flap may con-
tribute in some degree to
the formation of stone tho'
perhaps this is now owing
to alcohol -

Cepriensis cut in public
Hospitals, 1400 for w stone
& they were drinkers of wine
Mr. thinks, small liquors favour
the formation of calculus. Mr.
has had distressing gouty af-
fections in the hand after
taking small liquor or Port
Dinner, thinks, Flap has a nar-
cotic principle ~~which~~ ~~of~~ ~~it~~
& on this depends its narcotic
virtue

[Faint, illegible handwriting on aged paper]

Salix dendron

Salix alba is most astringent of any other species - The older the tree is greater the astringency. The Bark dry leaves have been recommended in different diseases as faint, hemorrhage. In the cure of Intermittents it is certainly a tolerable remedy. In Quarters has been recommended with Bark.

Cerculus Hippocastanum is a native of the Northern parts of Asia - It has been recommended as a substitute of the Peruvian Bark. The *Prunus*. The *Juniper* or *Mahogany* has been used in Intermittents. The *S. febrifuga* has been used in Intermittents with great advantage. Barton has used this & thinks highly of it. *Cornus florida* & *Linnaea trichocarpa* by Walker & is a good substitute for Cort. Peru. The old Bark best. The latter most powerful & best

cannot be procured in
sufficient quantities

of Metallic Tonics
They are Iron, Copper, Silver &
Arsenic

Iron in substance or *Lemnata ferri*
Aethiops Martialis

Circus Martis

Pulvis Ferri

The Sulph: & ox-sulp: Iron -

Tartaris Martialis - The Mass
Solubilis or *Ferum Tartarizatum*

Florus Martiales (Dus: *gritvtdj*)

Lixivium Martis - The Tinc:
Martis in spiritu Salis - It is
done & 4x once or twice included
luted - The Matte matas in

England resemble very much
a large proportion of matas to
a small quantity of Tinc: Martis

Vin: Ferri is a good Tonic

[Faint, illegible handwriting on aged paper]

119
Itt dis: Si to Sp - In the
Mineral water Iron is frequently
held in solution by carbonic acid
& sulphuric acid. Cullen erroneous
in accounting for the operation of
Medicine. B. thinks iron for
w most part is dissolved by w gas-
tric juices with great rapidity.

Lecture 25 Dec^r 29th

Iron is supposed to act as
an aperient - This term B. does
not approve of.

The Diseases in which Iron
is used. Stahl says did not
like the Bark. They therefore
used Cascarella, Iron &c.

Iron is a slow Tonic. In obste-
nate Intermittents by some w
Iron has been found useful
In fluxu albus w Preparations
of iron are indispensabl. - Confer
with ferriar good.

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

In gleet which is a general
affection, Iron has been
found most useful -

Cullen laboured under a gleet
40 years - It originated in a
gonorrhoea - As an Emmesa-
gogue Iron when combined
with a little oil of Sassa-
parilla most excellent - When Iron
proper use animal food
Porter &c

Iron has been much spoken
of as a remedy for piles
by Pliny In some hemorrhoids
it has been highly commended

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mostly obscured by fading and a dark ink blot at the top center.]

In Hemorrhagy of ⁽¹²¹⁾ the Kidney
where there is no pain after
a small bleeding, Iron has been
found useful - In bloody
urine ʒ Coars sixty grains
of opium with iron made
into a ball with flour is
good -

When Persons are predis-
posed to Phthisis of the lungs
Rubijs with chalk is
excellent - The Consump-
tion in which riding is
proper & Iron is P

In 1793 there were an unusual
number of cases of hemorrhoids

The same thing has been ob-
served ~~has~~ succeeding
Epidemics - D

[The page contains approximately 25 lines of extremely faint, illegible handwriting in cursive script. The ink is very light and the paper shows signs of age and wear.]

The Hemorrhoids in w^h ¹²²
declin^g life may be ben-
eficially treated with Iron.
In Dyspepsia which calls
for different modes of treatment
in different cases, w^h Iron has
sometimes been highly useful.
For Dropsy the Iron has
been used tho' in many
cases it is a very mis^{er}und^{er}
In some obstructions w^h
Iron has been highly useful.
The Martial Tonics more
safe in Gout than any of the
Vegetable Tonics. The Antihel-
mentic power of Iron great
Iron exerts its effects princi-
pally on w^h Stomach
Iron coloured w^h Urine some-
day.

[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page. The text is mostly obscured by a horizontal line and is difficult to decipher.]

B. had experiments made ⁽¹²³⁾ on
the occasion but no ^{iron} ~~iron~~ could
be found in the urine.

~~B. says that the iron is~~
newly taken into the system

The Power of assimilation greater
in man than any other animal
B. thinks some portion of iron
may be absorbed. Some vegetables
absorb iron readily. From these
circumstances B. thinks his
opinion of the absorption of iron
in man is in some measure
strengthened. The iron in the
blood is united with phosphoric
acid. B. thinks
this iron was formed by
the living powers of the animal
& not taken in by absorption
This opinion derives strength
from the fact that in blood of
all animals but their food is

[The page contains approximately 25 lines of extremely faint, illegible handwriting in cursive script. The ink is very light and the paper shows signs of age and wear.]

what it may, contains iron (124)
Lecture
of Copper.

This soluble in the human stomach. All metals soluble in like manner.

This metal soluble in w gas-
trix give out of w body.

The effects of copper on w body
are numerous & dreadful

People employed in working
copper mines are perfectly healthy
but they never eat without

washing & once every week
wash their whole body. Copper
affects other animals beside

dogs. Birds however are not
affected by this metal.

It will precipitate

Copper brass to clear water

The first preparation is

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

The Arago Cris - This for ¹²⁵
med of copper & acetic acid.
This has been used internally in
Syphilis. Injections of Verdigris
in gonorrhoea useful - B. thinks
Bolid & Hunt use them too
strong - The Blue vitriol,
~~with alum~~ ^{or sulphur} Copper
This in Intermittents is
highly spoken of - Give small
doses $\frac{1}{4}$.

Cuprum ammoniacum
Take of Blue Vit: ℥iii - Vol:
Sal: Ammon: ℥iii Volatally
together & put in a piece
of paper to dry - ~~Expositis~~
~~with the paper~~

Has been given in Epilepsy
Chorea or Begin with $\frac{1}{4}$
 $\frac{1}{4}$ & increase Cullen
thinks favourably of it & says
has carried it to $\frac{1}{2}$

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

In combination with ¹²⁶
ginger or opium & when
stomach is full give this
medicines - The Tincture
of Copper has been found
highly useful in Dropsy
Copper sometimes Salivates

The open ulcers of Scrophula
or Crystalline with Basilicon
have cured. This is Charner
good - In different affec-
tions of the eyes of different
preparations of copper good

The Gale of animals useful
in the same affections -

The Argentum Nitratum
or lunar caustic is
the only preparation of
Silver used - It touches
the chancre with a pen
dipped in a solution of
caustic - This mode
gives lip hair

[The page contains approximately 25 lines of extremely faint, illegible handwriting in a cursive script. The ink is very light and the paper is aged and stained. The text is likely bleed-through from the reverse side of the page.]

It acts on ulcers of the ¹¹²⁷ legs
speaks highly of its caustic -

The ring worm may be
cured wth corros. subl. Also
wth fluida nitrate of silver

This nitrate of silver has
been used in Epilepsy -

This medicine keeps wth bowels
open - Dr Wilson gave
gr^{ss} 2^{1/2} three times a day -

This however often fails in
Epilepsy. B. has tried it
in five cases but without
much effect

Lecture 2 - Jan^y 1.

Nitrate of silver deserves at-
tention from Physicians
when Epilepsy is attended
with increased excitement
low diet has done much good
Tonics as necessary in Epilepsy
as in Intermittents - if wth mind
be not at all impaired -

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

Casan had Epilepsy.

(128)

The Argentum Nitratum cures Epilepsy perhaps by its tonic power but of this we are not certain

of Tin.

Tin in powder is still retained - The Ancien Museum was formerly used - Dr Lewis says Tin contains a portion of arsenic

Dr Alston gave w powder of tin without inconvenience to w Patient - Tin is soluble in w gastric juice of w stomach this not so clearly so as iron & others - This tin excellent for worms

The common dose is ʒi to ʒij

Some have given it in much

larger doses - Cullen omits the

in d. w. w.

Faint, illegible handwriting at the top of the page, possibly a header or introductory text.

John

Dear Sir, I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

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

I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

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

I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

(129)

As a tonic tin is a feeble medicine - Tin in destroying worms acts mechanically.

of Zinc.

There are different preparations

Sulph: of Zinc or white vitriol

There are two varieties - 1.

or Sulph: & super-sulph: Zinc:

This is what we call sulph:

Zincic this is common and

among us - so that we have

not been using or sulph: Zinc,

but super sulph:

The white vitriol has often

been used as Tonic - Enters

into or Quassia draught which

derives its virtues from a vitriol

R. zincs gr ij with 6 a s of

columbo.

The first thing I noticed
 when I stepped out
 of the house was
 the cool air. It was
 a relief after the
 heat of the day.
 I had been told
 that the weather
 was perfect. I
 was not disappointed.
 The view was
 beautiful. The
 mountains were
 in the distance.
 The water was
 clear. I had
 heard that it was
 the best. I was
 right. The water
 was indeed
 perfect. I had
 been told that
 it was the best.
 I was not
 disappointed. The
 view was
 beautiful. The
 mountains were
 in the distance.
 The water was
 clear. I had
 heard that it was
 the best. I was
 right. The water
 was indeed
 perfect. I had
 been told that
 it was the best.
 I was not
 disappointed.

130

The white vitriol often
used in gonorrhoea & gleet.
This injection is often too
strong - B. seldom gives more
than gr. v vitriol per iii Sac:
Sat: to water ℥viij - When
by Patient has had no disease
on former occasions w injection
may be stronger - As a Collyrium
some of this vitriol dissolved
in an astringent solution
of vegetable gerd -

Saunders has known w
white vitriol given to
children in Hooping cough
with more advantage than
any other medicine - They are
it not as an emetic or nauseate
but as a Tonic -

B. gives his Hooping cough
Patients, on an empty stomach
a watery solution thus in the

1840
The first of the year
was a very successful one
and we have had a
very good crop of
wheat and corn.

The weather has been
very good and we
have had a very
good crop of
wheat and corn.

The weather has been
very good and we
have had a very
good crop of
wheat and corn.

The weather has been
very good and we
have had a very
good crop of
wheat and corn.

The weather has been
very good and we
have had a very
good crop of
wheat and corn.

times a day & in winter ¹³¹
mal of fevers w/ intense pain
w/ Pectoral mixture

or $\times \times \times$ to water $10 \frac{2}{3}$ - Give
two or three tea spoons full
in w/ 24 hours This impairs
w/ appetite less than other
Emetic medicines

Flowers of Zinc have been
given in Epilepsy in doses
of from 1 to 6 gr in a day
Dr Monro says he has
seen them flower given to
2j & 3j but without doing
any service whatever -

The Acetate of Zinc

This has a bitter taste dissolves
in water but not alterably
exposed to w/ air

[The page contains approximately 20 lines of extremely faint, illegible handwriting in cursive script. The ink is very light and the paper shows signs of age and wear.]

132

It may be given internally
As a safe emetic in doses of
from ʒ to gr x - In London has
been given ʒ to make ʒij
or a decoction of Quina seed
This Mr Henry's practice
To a solution of white vitriol
in 6 or 8 times its weight of
water add a solution of
acetate of lead in twice
its weight of water & a
precipitation will take
place - Evaporate the water
containing the acetate of
Zinc & crystallize -

Barytes or Terra ponderosa

It is found combined with
sulphuric acid & carbonic
This last combination is
poisonous to animals -
When united with Muriatic

acid it forms a medicine ¹⁸³
for Scrophula Its dose from
v to $\times \times \text{ʒ}^{\text{ii}}$ - The Muriate
of Barytes has also been
used in ulcers of the legs &
has been supposed to arrest
the venereal disease -

Muriate of Lime - Pure
lime is partially soluble
in water like as much cold
for warm - The Muriate
has been highly praised as
a remedy in Scrophula: &
dose ʒ^{ij} to ʒ^{ij} of a saturated
solution - In Bronchach
Rhe. used this in dose: ʒ^{ij} \times
times in 24 hours with
the effect of curing the disease
The lime water much used
in the vomiting - A weak
infusion of Mustard & a little
Asafetida have also been used
with great advantage

The first of these is the
 fact that the population
 has increased in the
 last few years. This
 is due to the fact that
 the country is becoming
 more fertile and the
 soil is better adapted
 to the growth of
 crops. The second
 reason is the fact that
 the climate is becoming
 more temperate and
 the weather is more
 favorable to the
 growth of crops. The
 third reason is the fact
 that the people are
 becoming more
 industrious and are
 working harder than
 ever before. The
 fourth reason is the
 fact that the
 government is
 doing more for the
 people than ever
 before. The fifth
 reason is the fact
 that the people are
 becoming more
 educated and are
 able to do more
 work than ever
 before. The sixth
 reason is the fact
 that the people are
 becoming more
 united and are
 working together
 for the good of
 the country. The
 seventh reason is
 the fact that the
 people are becoming
 more patriotic and
 are willing to
 sacrifice for the
 good of the
 country. The eighth
 reason is the fact
 that the people are
 becoming more
 virtuous and are
 leading a more
 moral life than
 ever before. The
 ninth reason is the
 fact that the
 people are becoming
 more religious and
 are turning to
 God for help and
 guidance. The
 tenth reason is the
 fact that the
 people are becoming
 more civilized and
 are doing more
 good to the world
 than ever before.

(134)

B. saw a case of black
vomiting cured by lime
water. The Physician however
thru a mistake gave white
wash or cream of lime - The
Patient recovered. B. thinks
thru practice might have
been by means of curing the
Patient -

Lecture Page 2

of the oxy- & Muric. Potash

This formed by passing oxy-muric
acid gas thro Potash - In this process
thru salts are formed. B. has never
employed this article -

of the Bitters

These should have come in
immediately before the Bark -
Anthemis nobilis or camomile
The flowers are principally employed
Hoffman thought highly of
the flowers

Given in large quantities they readily run off by stool. They must therefore be combined with astringents &c. An excellent Bitter -

Tanacetum Vulgar or Common Tansy - It is a powerful bitter Tansy tea has been used for Gout. Dr. Gardener thinks this an innocent medicine - Rosenstein combined tansy with the Anthelmintic Medicines -

Attemesia Absinthium - Wormwood Milk of cows that eat this, is bitter A woman who took this had bitter milk. This Absinthium gives out an oil which is not bitter - The leaves are more bitter than the flowers -

Having wormwood in it has been supposed to have its intoxicating power increased A deleterious property is not especially attached to vegetables Haller was gouty. This wormwood

has been used in Intermittents

This has been used in Nephritis -

Aristolochia longa - Is a native of the Southern parts of Europe. The root is used. It is not a good emmenagogue - This one of the bitter celebrated in Gout. This plant very like

The tops of *Sentiana*

the leaves of the lesser centaury
the *Aristolochia longa*
Two species of ground helle

of each equal quantities. Take ʒi for a dose. This Portland powder has done much mischief. It receives its name from the Duke of Portland. Murray says more than 450 persons killed by this medicine. The *Aristolochia* appears to have great emmenagogue in producing wonderful effects of this powder. It destroys the coats of the stomach.

The *Aristolochia Serpentaria*
This generally used has a fibrous root. This is supposed to possess many of the properties of the long one. This sort of the body antiseptic. It has great powers. Cullen says none of the bitters

stimulant: This serpentaria is stimu-
lant. Hillary or Wigan found excellent.
Sydenham used this medicine
with great advantage with men
in Intermitents. The Dose
may be used from \frac{ss} to $\frac{ʒj}$

Citrus Aurantium or common
orange - The oil of this ve-
getable is peculiar. The peel
has been used in Intermissions

In Quarters particularly useful
in Cholera in doses of \mathfrak{zj}

Formerly y-banes were much
celebrated for Epilepsy - The de-
coction was used - 2 convulsions
of different parts of y body
some found them useful but
not in Epilepsy.

Johnson used the orange peel
for Chorea St viti & Epilepsy to
which diseases he was subject

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

Lecture 30th Jan 5th ¹³⁷

The Ingredients of the Russian
Kandian

of Arsenic -

This a dreadful poison & includes
medicine - This is a green
ponderous promitious liquid
when black it is distinguished
by its great weight - when thrown
on coals emits a smoky garlic
Dum arsenic - is of a blackish
grey colour, ponderous, & soluble
in most volatile - It is not
decomposed by volatilization
In its reguline state does not affect
the system - but when united
with ~~oxygen~~ oxygen violently
poisonous - of Fowler's

Mineral Solution - It is
prepared by boiling As_2S_3
with pure vegetable alkali &
so that every ʒij of the solution
contains ʒij - Parmin says
a saturated solution is prefer-
able to Fowler's solution

Ten drops twice a day is a full dose

[Faint, illegible handwriting in cursive script, likely a historical document or letter.]

for grave persons. It is better ¹¹³⁸
to begin with $\frac{1}{2}$ gr - B. gives $\frac{1}{16}$
gr & $\frac{1}{4}$ gr opium in substance
as a preferable method - B. seldom
gives more than three pills in a day.
The pill most certain in its effect.
The opium is added in order to
prevent any incommensurate
purging ~~or or or~~ - B. has seldom
seen any and the third grain in w^o
cur of Intermittents - Fowler is
not sufficient in his directions
for giving the medicine - This
is to be given in w^o ~~opium~~
internal - It soon shows its effect.
If arsenic to extent of 2 gr
do not produce some effect it
should be laid aside - This
remedy is peculiarly adapted
to recent cases of Intermittents.
This medicine in curing
Intermittents B. thinks does not
act by means of its Tonic power
Elberth thinks because w^o strength
of the Patient is not at all increased.
The Patient after being cured of his
Intermittent by arsenic is attacked
with a new disease. In one of Patients
could not walk.

13. Caution in prescribing

The Patient sometimes becomes ⁽¹³⁹⁾
oedematous after using this medicine
B. has known this medicine to
fail in one case of periodical head
ach - Arsenic does not increase
or heat of the system & of anasarca
or turning of system contrary to
the opinion of Darwin - B. says
this medicine acts by inducing
an other disease.

1. This is a safe remedy
2. It cures in a general
3. It cures those intermittents to
which the bark is adapted
- 4 - It cures when the bark fails
- 5.
- 6.
7. Arsenic & mercury prob
8. Arsenic not on a footing with
Chad Darwinian Bark when the disease
is of a typhoid nature
- 9.
- 10.
11. More effectual in children
12. Most safe in the opinion

1791
The first of the month
I received your letter
of the 25th and was
glad to hear from
you and to hear that
you were well and
that you were still
in the country. I
am well and hope
these few lines will
find you the same.
I have not much news
to write at present.
The weather is very
warm here now.
I have not much news
to write at present.
The weather is very
warm here now.
I have not much news
to write at present.
The weather is very
warm here now.

Lecture 31. Jan 6th 1840

Arsenic continued -

When there is a tendency to Typhus the Arsenic will be unavailing - Foundation of Phthisis is often laid by Intermittent - B. never known Arsenic produce any permanent injury - The recurrence of hectic fever ~~has been prevented~~ when complicated with Intermittent B. exhibited Arsenic with advantage ~~when there is~~ Arsenic has been useful in obstructions of spleen & liver This has been used with advantage in Angina Pectoris This an important fact & worthy remembrance -

In Cancer this medicine has often resorted to - Marten's powder which is nearly the same as Plunket's, was composed

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

[Faint handwriting visible on the right edge of the page, possibly from the adjacent page.]

in part of arsenic - (The ¹⁴¹)
application of this powder has
induced ~~the~~ apoplexy. Martin's
powder certainly often produces
a good effect. The vegetable
matter in this powder no doubt
regulates its force & this ve-
getable in all probability it
was of *Crotonche Virginiana*
One part was arsenic & 39
Crotonche Virginiana -

~~It says~~ cancer is cured
by arsenic & that bleeding is
a specific -

Arsenicum Solubile is made
of white arsenic & Crem. Tartar.
This produces an increase
secretion of urine - This is
Same Constitutions are seen
ly at all affected by this medicine
which at the same time will
produce a cure -

[Faint, illegible handwriting in a cursive script, likely a historical document or letter. The text is mirrored across the page, suggesting bleed-through from the reverse side.]

Incitantia
or
Stimulants.

1142

This the most important class.
Papaveraceae N. ord.
of Opium.

This prepared in several
countries - In Egypt &
This & Thelus have been
much praised for equality
of their opium hence the
Fenatur - That used here is
generally imported from Smyrna
Persia &c - Opium is pro-
duced from the seed vessel
of a Poppy by boiling
according to some
Mr Kern, who is correct,
says the capsule is wounded
& the juice is inspissated
to cakes as they appear in
this place. The seeds of
poppy are inert & may be
eaten with impunity to
any quantity.

[The page contains several lines of extremely faint, illegible handwriting in cursive script. The ink is very light and the paper is aged and yellowed. A horizontal line is visible near the top of the page.]

Opium is generally, as ¹⁴³
comes to us, is adulterated
with *Lactuca virosa* & ¹⁴⁴
Dr. Coxe obtained a tolerable
opium from garden lettuce.

Lecture 32. Jan 8th 1807

B. considers *Pneumonia* & *Dia-*
phoretica as subdivisions of
or *Metastasis* - Opium belongs
to the head of *Narcotica* - is
placed at the very head - This
derived from the *Papaver som-*
niferum. The dark colour of op
ium is owing to iron instrumen
ment used - When a copper in
strument is used the colour is
different, Opium has been
manufactured in this country.
Opium diminishes sensibility.
This in solution poured into
the eye inflammation is in-
duced - Opium in the form of
laudanum externally applied
produces good effects.

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

1144

As opium affects the
vital, animal & plant
vital functions -

1. The pulse is increased
& Towards the conclusion
of its effects, of the opium
there are apoplectic symp-
toms - B. mentions a case
where laudanum had been
taken & he thought the Pa-
tient had ordinary apo-
plexy.

Boerhaave had correct no-
tions respecting the action
of opium -

Prior to Boerhaave in 1703
Berzini says opium will
excite fear.

[Faint, illegible handwriting on aged paper]

Lecture 33. Jan 9th 1807 ^{N:145}

Cruemp clearly proves by numerous experiments that opium is a stimulant. Haller, who used opium pretty frequently for his complaint, found his pulse excited. The pulse has been raised in 9 minutes from 76 to 86. Cullen once taught that opium is a stimulant. Opium not only increases the frequency of the pulse but enlarges their diameters & increases the heat of the system.

It produces a burning of the palms of the hands & a tertian currim. Opium kills by inducing genuine apoplexy.

This allays or erases of the appetite. Girtanner says opium is very nutritious & by uniting with oxygen -

[Faint, illegible handwriting on aged paper]

Opium impairs digestion ¹⁴⁶
& induces sickness - Opium ap-
plied to y^e body affects the sto-
mach. Stoll says, the opium
in pain in colica pectorum very
often purges - Opium might be
considered as a carminative - It
sometimes acts as a Diuretic -
Diuretic power of Digitalis in-
creased by opium. B. never knew
opium salivate - It increases
perspiration which is preceded
by a pruritus - This may be
prevented in some measure
by a bowl of tea or the like -
Haller says opium is sometimes
perceived in the perspiration -
Ran Boerhaave found in ~~ex~~
~~creased~~ a dog's urine was
increased in quantity by opium
Darwin says opium & alcohol
increase all the secretions but
at the same time absorption
is increased.

[The page contains approximately 25 lines of extremely faint, illegible handwriting in cursive script. The ink is very light and the paper is aged and yellowed. The text is mostly centered and spans the width of the page.]

In the animal Functions ¹¹⁴⁷
The bilicity of the mind is in-
creased & there is a jocund
delirium & with a disposition
to venery. If the opium is in-
creased tremors, convulsions &
succeed - Some say these con-
vulsions are of a peculiar kind
& somewhat like w tonic - They
are somewhat like Tetanus &
will be increased by a person
walking a or up of floor.
The Turks when marching
to battle take opium

Lecture 34 - Jan'y 12th - 1804

Opium has inflamed the Intes-
tines. Ther a queous solution,
milk warm, has produced
contractions of y heart which
had ceased to pulsate

Carmine introduced sh.

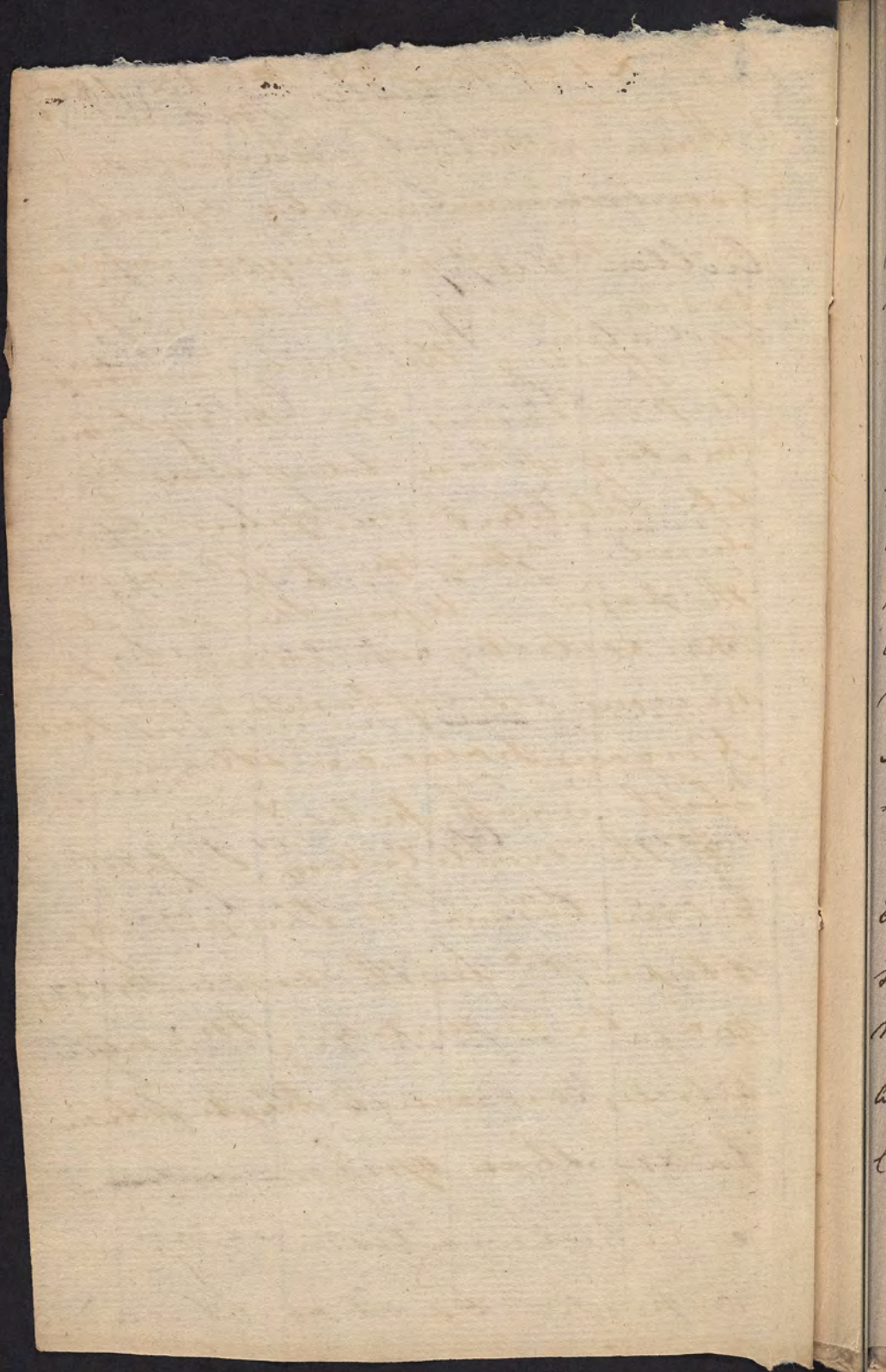
[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]

into the mouth of Gray ¹⁴⁸
& found the pulsations in-
creased. Workinston, ~~as~~
experiments on the stimulant
operation of op: an mor con-
clu: in than Cusump's -
thin increases & fullness,
& frequency of v puls., heat,
pulsarcty, dispassion to every
stupidity, coma, labor,
opoplexy, distress of mesen-
teric well as the stomach -
& c. & Opium does all
this - Opium is demulcent,
diaphoretic as well as ~~win-~~
~~thin~~ The same dose of
opium on different nights
produces different effects
To conclude: That opium
is an trinitent, has, by
a number of experiments,

The first of these is the
 general principle of
 justice. The second is
 the principle of
 equity. The third is
 the principle of
 utility. The fourth is
 the principle of
 expediency. The fifth is
 the principle of
 honor. The sixth is
 the principle of
 duty. The seventh is
 the principle of
 conscience. The eighth is
 the principle of
 reason. The ninth is
 the principle of
 faith. The tenth is
 the principle of
 love. The eleventh is
 the principle of
 hope. The twelfth is
 the principle of
 charity. The thirteenth is
 the principle of
 mercy. The fourteenth is
 the principle of
 kindness. The fifteenth is
 the principle of
 gentleness. The sixteenth is
 the principle of
 patience. The seventeenth is
 the principle of
 self-control. The eighteenth is
 the principle of
 perseverance. The nineteenth is
 the principle of
 courage. The twentieth is
 the principle of
 fortitude. The twenty-first is
 the principle of
 wisdom. The twenty-second is
 the principle of
 discretion. The twenty-third is
 the principle of
 judgment. The twenty-fourth is
 the principle of
 prudence. The twenty-fifth is
 the principle of
 industry. The twenty-sixth is
 the principle of
 diligence. The twenty-seventh is
 the principle of
 order. The twenty-eighth is
 the principle of
 cleanliness. The twenty-ninth is
 the principle of
 temperance. The thirtieth is
 the principle of
 moderation. The thirty-first is
 the principle of
 simplicity. The thirty-second is
 the principle of
 frugality. The thirty-third is
 the principle of
 economy. The thirty-fourth is
 the principle of
 industry. The thirty-fifth is
 the principle of
 diligence. The thirty-sixth is
 the principle of
 order. The thirty-seventh is
 the principle of
 cleanliness. The thirty-eighth is
 the principle of
 temperance. The thirty-ninth is
 the principle of
 moderation. The fortieth is
 the principle of
 simplicity. The forty-first is
 the principle of
 frugality. The forty-second is
 the principle of
 economy. The forty-third is
 the principle of
 industry. The forty-fourth is
 the principle of
 diligence. The forty-fifth is
 the principle of
 order. The forty-sixth is
 the principle of
 cleanliness. The forty-seventh is
 the principle of
 temperance. The forty-eighth is
 the principle of
 moderation. The forty-ninth is
 the principle of
 simplicity. The fiftieth is
 the principle of
 frugality. The fifty-first is
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 economy. The fifty-second is
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 industry. The fifty-third is
 the principle of
 diligence. The fifty-fourth is
 the principle of
 order. The fifty-fifth is
 the principle of
 cleanliness. The fifty-sixth is
 the principle of
 temperance. The fifty-seventh is
 the principle of
 moderation. The fifty-eighth is
 the principle of
 simplicity. The fifty-ninth is
 the principle of
 frugality. The sixtieth is
 the principle of
 economy. The sixty-first is
 the principle of
 industry. The sixty-second is
 the principle of
 diligence. The sixty-third is
 the principle of
 order. The sixty-fourth is
 the principle of
 cleanliness. The sixty-fifth is
 the principle of
 temperance. The sixty-sixth is
 the principle of
 moderation. The sixty-seventh is
 the principle of
 simplicity. The sixty-eighth is
 the principle of
 frugality. The sixty-ninth is
 the principle of
 economy. The seventieth is
 the principle of
 industry. The seventy-first is
 the principle of
 diligence. The seventy-second is
 the principle of
 order. The seventy-third is
 the principle of
 cleanliness. The seventy-fourth is
 the principle of
 temperance. The seventy-fifth is
 the principle of
 moderation. The seventy-sixth is
 the principle of
 simplicity. The seventy-seventh is
 the principle of
 frugality. The seventy-eighth is
 the principle of
 economy. The seventy-ninth is
 the principle of
 industry. The eightieth is
 the principle of
 diligence. The eighty-first is
 the principle of
 order. The eighty-second is
 the principle of
 cleanliness. The eighty-third is
 the principle of
 temperance. The eighty-fourth is
 the principle of
 moderation. The eighty-fifth is
 the principle of
 simplicity. The eighty-sixth is
 the principle of
 frugality. The eighty-seventh is
 the principle of
 economy. The eighty-eighth is
 the principle of
 industry. The eighty-ninth is
 the principle of
 diligence. The ninetieth is
 the principle of
 order. The ninety-first is
 the principle of
 cleanliness. The ninety-second is
 the principle of
 temperance. The ninety-third is
 the principle of
 moderation. The ninety-fourth is
 the principle of
 simplicity. The ninety-fifth is
 the principle of
 frugality. The ninety-sixth is
 the principle of
 economy. The ninety-seventh is
 the principle of
 industry. The ninety-eighth is
 the principle of
 diligence. The ninety-ninth is
 the principle of
 order. The hundredth is
 the principle of
 cleanliness.

been incontestible, pro ¹¹⁴⁹
men. On this head no
more need be said

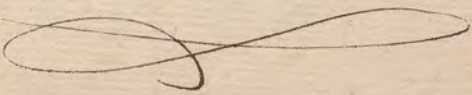
Cullen supposes Opium a
Sedative. He says it is sent
of the stomach - Cullen says
sent in the Extremities is
always preceded by affec-
tion of the stomach - This
Barton says, from exper-
ience, ~~this he knows~~ is
not the case - In Men-
morria, Opium is inju-
rious. says B. D.ⁿ Young
says Op. hurtful in every
disease which requires bleed-
ing - B. can't go that far -
for in some diseases ~~as~~
as Rheumatism, Opium
is proper & also bleeding.



Lecture 35 - July 13. 1807 ¹⁵⁰

Pain returning periodically
have been relieved by opium
Does this give relief in inflam-
matory pains? It does. After
the effects of this medicine stop
Tumor comes on - In inflam-
matory pains relief is not given
the debility from opium being
duced - Both op: first increases
the pain - Upon the whole
op: is to be considered as per-
nicious in inflammatory pains
Nervous pains are attended
with weak pulse &c.

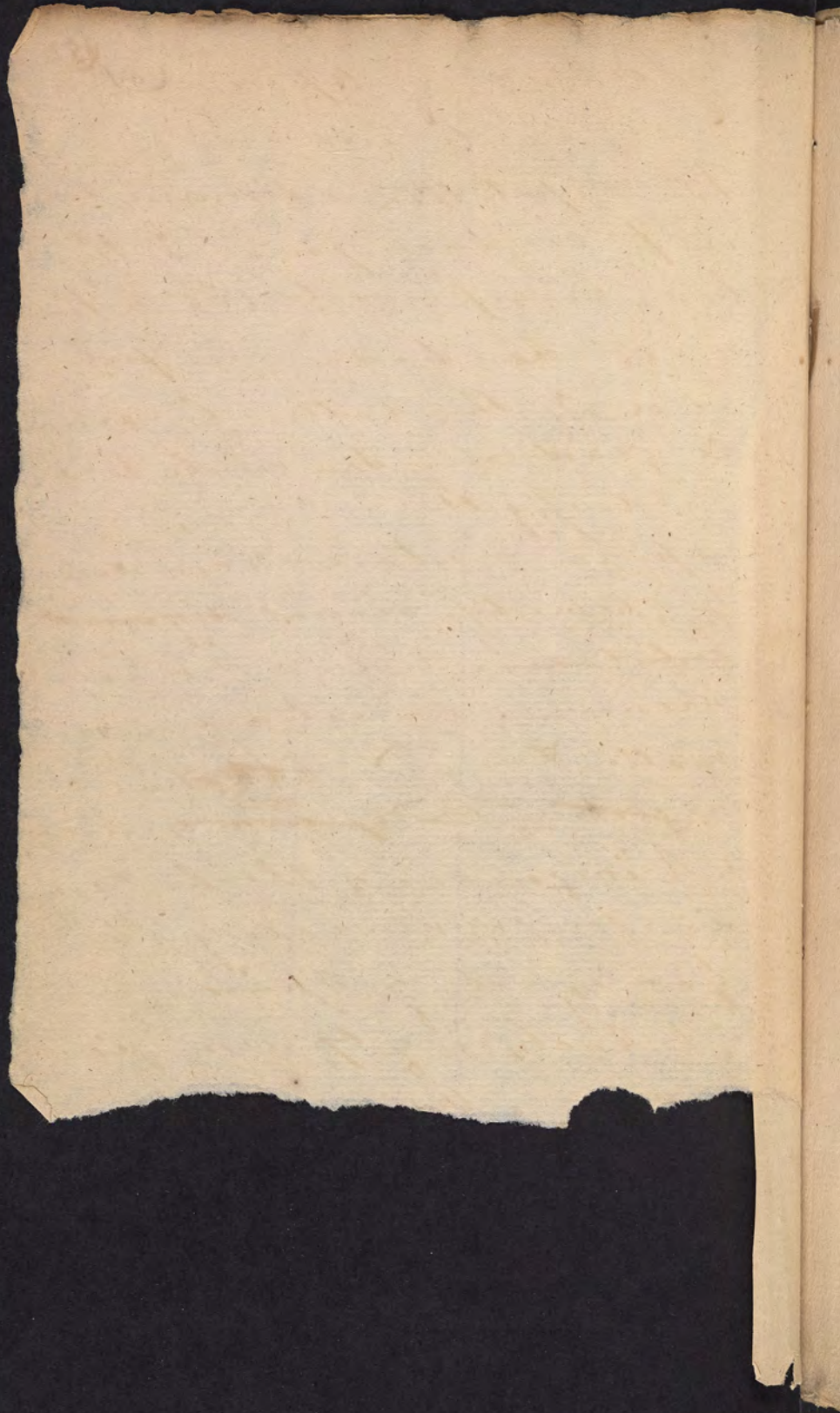
If the constitution be little
accustomed to this remedy
stupor & with convulsions
may be induced. Many
articles are much higher stim-
ulating than opium



October 30 1877

Dear Mother
I received your letter of the 25th
and was glad to hear from you
and to hear that you were all
well. I am well at present
and hope these few lines will
find you all the same. I have
not much news to write at
present. I am still in the
same place and doing the same
work. I hope to hear from
you again soon. Write when
you have a chance. I am
your affectionate son,
John Smith

151



152

Subject of Opium
Continued.

By repetition & stimulus, loses
its original force - If the
body be exposed to 120° & then
to 80° the body will feel
cold. If this latter be annexed
to gradually the will be no
coldness felt.

Opium contains, according
to Chemistry, several different
~~substances~~ viz, a narcotic
principle, an extractive
matter & ~~an~~ ^{al} ~~al~~ ~~al~~

~~degraded~~ ~~on~~ ~~of~~ ~~in~~ ~~its~~ ~~kind~~

1. Vinegar one of the best reme-
dies for counteracting the
bad effects of Opium.

The Analysis of Opium is
a Gum, a Resin & a ferment
matter according to Crampe.
The bitterness attached to
the gum & the astringency
to the Resin - This Crampe Opium

153

This analysis is not good -

Lecture Jan^y 16th 1807

Subject of Opium continued
of its use & abuse in disease
1. In Intermittents - 1600 years
ago the Preparation of opium
was used in Intermittents
An opiate was known before
the expected paroxysm has
been given with advantage
Dr. Lind has given opiate
half an hour after the
formation of the hot stage
This he says shortens
the fit & produced diarrhoea
& easy sleep from which
they awake nearly well -
Lind's use of Opium he
says he dropsy has succeeded
the Intermittent - This opi-
um increased the violence
of the fit.

10

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page]

If he be delirious wait ²⁴
till it go off before giving
the opiate - Lind gave the
opiate in 3ij Tenu: sacra
when the bowels were bound
B. from his own experience,
can't condemn Lind's practice
B. however would not wish
to follow L's practice in
our climate.

Stark found opinion of no
advantage but injurious
in Intermittents when the fever
had come on. Stark, however
practiced in a very cold cli-
mate & can't judge of the pro-
priety of Lind's practice -

The Douce's powder has
been given before a accession of
fever of paroxysm of an Inter-
mittent, with great advantage
A cup of ^{strong} Coffee supports the
operation of Opium -

In 1784 the Red Back
was first introduced
into this city. This was
more than other
Species -

155

Opium does not, in the
general, affect the head
when given in strong Coffee
The Narcotic quality of Op:
much diminished by Coffee
so that sixty drops will
not produce greater effect
than $\frac{1}{2}$ when this is an
accustomed dose of the person.
Opium in Coffee does not
produce itching.

The Coffee loses some of its
virtues by burning -

Opium joined with the Bark
makes it sit better on the
stomach -

Continued fevers are decided
ly called into Synocha, chris
& Typhus. There in the beginning
an often inflammatory
here of course the Bark is
improper

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the above mentioned matter. I have the pleasure to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,
 Your obedient servant,
 J. M. [Name]

156
B. says the yellow fever
is a synochus - In the beginning
of most of the fevers of Scotland
there is inflammatory action.
The stimulus which induces
plague is of a most powerful
kind - Plague & yellow fever
two varieties of the same spe-
cies - In Typhus Carcerum
attended with delirium
Opium highly useful -

Dr Gibbons first used wine
& opium in Typhus. This
Cullen acknowledged. By
this practice the night is passed
with rest & ease -

Lecture Jan^y 19th

Opium combined with Cam-
phor famous for a determina-
tion to the skin. Some have
given this formula \mathcal{R} 4 \times laud
& \mathcal{R} 3 $\frac{1}{2}$ of Camphor pulv &
Cullen gave this with great judgment
in Typhus.

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

In the inflammatory stage ¹⁵⁷
of ~~any disease~~ ^{Typhus} Op: is injurious.
The bowels of Typhus Patients should
be gently opened - Four hours
~~or~~ is a sufficient interval
of time between the doses of
Opium. B. says he has some-
times desisted in giving Op:
by reason of its great diaphoretic
effect. Opium not good
in Yellow Fever. hah!

Vomiting in this disease has
been allayed by other

Opium pernicious in Phleg-
masia. In ~~some~~ acute
~~suppurative~~ when inflam-
mation exists to a considerable
degree, In Jaundice, from
a biliary stone, ~~ing~~ bleeding
is often necessary & Opium
highly proper at the same time.

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



In the suppurative state 158
of inflammation Cullen says
Op. good. Hammeton has
written an excellent paper on
a disease of the brain of a
part of Britain & he is the first
who ~~has~~ introduced Mercury
into ~~that~~ that ~~in~~ country, in
Flebotomy. Parojical elixir
Sine: Op. compound of
Dispensatory - The Assia
oil might be left out as it
does little or no good & is
expensive - The flowers of
Benzoin very good -

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

take the sweet appear -

Lecture Jan^y. 22

159

Opium continued. In
Nephritis op. can be taken
in great quantities with-
out any injurious effect.

Rheumatism. It is divided
into acute & chronic. In
the former bleeding when
carried too far lays a foun-
dation for ψ chronic rheu-
matism - Acute rheumatism

is to be treated by sweating
after ψ reduction of the pulse
by blood-letting - Dover's
powder excellent in acute
rheumatism - It is formed

of ℞i. ℞ purpure ℞
℞ ℞i. Sulph: Potash ℞i.

Mix them well & of this
give ψ ℞ ad ℞℞ - every 2 hours

B. uses instead of Vt. ¹⁶⁰

Tartar, Sugar or Gum: ~~Asclepi~~
Nitre added to them fre-
quently produces additional
good effects. This medicine
is to be given in the morning
after sleep: B. gives it in the
evening - The Patient to cover
in flannel - This an impor-
tant rule - The powder to
be taken in a bolus. No drink
to be taken till w sweat
break out. 50 minutes after
taking w medicine drink in
w general may be taken -
After w sweat some gruel
may be taken - The Patient
by no means to take w least
quantity of w drink till
w sweat appear -

The first part of the paper is
 devoted to a description of the
 various species of plants which
 are found in the country.
 The second part is a list of
 the names of the plants, with
 their local names, and the
 places where they are found.
 The third part is a list of
 the names of the plants, with
 their local names, and the
 places where they are found.
 The fourth part is a list of
 the names of the plants, with
 their local names, and the
 places where they are found.
 The fifth part is a list of
 the names of the plants, with
 their local names, and the
 places where they are found.
 The sixth part is a list of
 the names of the plants, with
 their local names, and the
 places where they are found.
 The seventh part is a list of
 the names of the plants, with
 their local names, and the
 places where they are found.
 The eighth part is a list of
 the names of the plants, with
 their local names, and the
 places where they are found.
 The ninth part is a list of
 the names of the plants, with
 their local names, and the
 places where they are found.
 The tenth part is a list of
 the names of the plants, with
 their local names, and the
 places where they are found.

Bailed bricks bent to (161)
apply to w parts that do
not sweat. After sweating
wike w body dry I let
the Patient continue in flannel
till ~~morning~~ next morning.
This morning w Patient
may come out of bed but
must not leave his room.

Sydenham condemns w use
of opium in rheumatism.
This Practitioner did not give
it before the fifth day - B. has
used it in the beginning of
the disease - If this medicine
do not induce sweating in
acute rheumatism it will
injure the Patient.

It has been supposed Speac:
counteracts the effects of the
opium - This Bracely's opinion
Speac: in this respect, is upon
a footing with coffee -

111
The first part of the
book is devoted to a
general history of the
country from the
discovery of it to the
present time. The
second part contains
a description of the
natural history of the
country, and the
third part a description
of the civil and
political history of the
country. The fourth
part contains a
description of the
manner of life of the
inhabitants, and the
fifth part a description
of the government of
the country.

The acute rheumatism with ¹⁶²
irritability general succeeds
acute rheumatism treated by
bleeding - This kind of rheu-
matism to be treated by Bark,
Dr. Hamilton advised Op.
& Mercury in rheumatism
succeeding to Syphilis.
Opium, as long as the ex-
tremities are affected, in
Gout is injurious - Gout
is or approximates Medicines
B. had this disease at 19 years
of age & Randolph in Croup
had it between 14 & 15 years
of age - Brown considered
Gout in w light of ardent
debility & stimulation
accordingly & accordingly
killed himself. Dr. Thompson
says, Gout is an ordinary
inflammatory fever - This
B. does not believe

[The page contains approximately 25 lines of extremely faint, illegible handwriting in cursive script. The ink is very light and the paper shows signs of age and wear.]

Gout in the stomach 163
has been treated with opⁱ
Op: in one day - In articular
colica B. has given ℥ʒss
Laud: in 24 hours. Ginger
is a most excellent remedy
in gout - It is to be boiled
in milk - It is preferably
given infused in warm
water & sugar is added B.
has taken ℥ʒss in 24 hours
This method however is
frequently to be aided with
opium - Hemiplegia is
often a febrile affection - This
to be treated by op: Valerian
& Bark - The sick head-ach
is a form of gout - This fre-
quently relieved by op: &
Coffee -
In small-pox op: is often
employed -

Op: is not safely exhibited 1164
before the 7th day of Small-pox
Sydenham recommends Op:
in Measles. If inflammation
be present this practice is
proper - B. says of children
that Measles in a Spring or Summer
they are apt to be severely handled
with cholera morbus.

Lectura Jan 23

Of Opium in Haemorrhages
In the active kind is unprop
In the Passive useful - It
is thus an opium kept up
by irritation & op: act as
a restraining. Haemoptysis,
after the action of the heart &
arteries are lessened by
bleeding, may be treated
advantageously by opium

This is generally an active
hemorrhage & of course
stimulants generally injure
tho' B. has for by most part
used it in the Menstruation
mixture - Epistaxis almost
always an active hemorrhage -

The immoderate flux of
the Lochia often
too moderated better
by Opium than any
other medicine

Some cases of Piles
very similar to
Dysentery & therefore op.
may sometimes be used

Every Physician has used ¹⁶⁵
Op. with advantage in Dys-
entery - In warm climates
this disease calls ^{loudly} for Op.

Every body acknowledges the
utility of Op. in Cholera morbus
Tenc: Thel: 344 have been
given in 24 hours in a disease
of Tetanus. A Negro Man
took gr 1500 of solid opium
in 17 days in Tetanus & was
cured -

Dr Masely seems to think
no great deal of Op. in
Tetanus -

B. has cured Tetanus by
a mild irritation from
Mercury -

Glycophobia somewhat

Handwritten text, likely bleed-through from the reverse side of the page. The text is extremely faint and illegible due to fading and the age of the paper. Some faint characters and words are visible, including what appears to be "XXX" in the middle section.

allied to Tetanus - It seems ⁽¹⁶⁶⁾
to think this disease has not
been cured - This a highly
inflammatory disease &
has been treated by some
by large bleedings. ^{Dr}

Hillary says, op: has
been useful in Hydro-
phobia - Frank says
op: in this but the Patient
died - Hydrophobia

is sometimes a symptom
of Hysteria & was cured by
Asafetida -

A man labouring under
Hydrophobia was better by
two vipers & the man cured -

From 4 bits of a Rattle
snake in less than 15 minutes

[The page contains approximately 20 lines of extremely faint, illegible handwritten text. The ink is very light and the paper is aged and stained. The text appears to be bleed-through from the reverse side of the page.]

Torpor will be induced ¹¹⁶⁷

Chorea of the uterus is a frequent
cause of bleeding, & is often
accompanied purging, &
sometimes treated to ad-
vantage by opi.

1790

James T. ...
... of ...
...
...

...

Lecture

Jan. 26¹⁸⁶⁸

Opium in Epilepsy often good
In Hysteria, which is in some
measure allied to Epilepsy, Op:
is often good. In Plethoric
states of the system Op: not so
proper. Palpitation, when symp-
tomatic is often relieved &
cured by opium. Asthma is
sometimes ~~relieved~~ cured or
at least abated by op: This
disease is often a peculiar
form of Gout. Pertussis or
Whooping-cough is, when bleed-
& purging not indicated,
relieved by opium. Dysuria
or water brash which is
common in Northern countries
is mitigated by sweet milk,
fresh meats & is in some cases
by Muscivora. Cullen
has found nothing equal
to Op: B. says it is a symp-
tom of Dyspepsia & is prob-
ably to be relieved by W

1787

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

Medicines for Dyspepsia (169)

B. saw a case which was relieved by *op. succini* - It is frequently dependent on Dram-drinking -

In Colic, after \bar{v} blood has been drawn & \bar{v} bowels well opened, *op.* good - Some varieties of Colic may be treated with *op.* without previous evacuations - These varieties proceed from *Phytoria*, cold, vapors of \bar{v} mind &c - *Deusham* in *colica pictorum* recommends *op.* in junctura with purgatives - Some have found *op.* a purgative in *colica pictorum* -

In Mania *op.* has often been employed but not always with that happy effect desirable - *Cullen* found *op.* in some cases of Mania ~~to~~ useful tho' he also frequently found it to fail.

The first part of the paper is
to be a very simple one
and to be written in the
most elegant and
correct manner.
The second part is to be
a collection of the most
interesting and useful
facts and observations
relative to the
subject of the paper.
The third part is to be
a summary of the
whole, and to be written
in the most concise and
clear manner.
The fourth part is to be
a list of the names of
the authors of the
papers, and to be written
in the most correct and
elegant manner.
The fifth part is to be
a list of the names of
the subscribers, and to be
written in the most correct
and elegant manner.
The sixth part is to be
a list of the names of
the donors, and to be
written in the most correct
and elegant manner.

That Emetics should 1170
produce their effect in
Mania a large dose should
be given. Ten & even 20 gr.
have been given - Op: given
before the exhibition of
Emetic the latter operation of
whichever is often assisted -
In Mania from drink
Op: is often good but is
a nice remedy - B. abstracts
that drink gradually &
give his Line: Cap: is
made by infusing $\frac{3i}{\text{Cap}}$
in $\frac{3viij}{\text{W: Vin}}$ -
Calomel & Corros: Sub.
should always be used in
combination with Op: Ap:
sometimes salivates -
Apium is often employed as
an ingredient in Gonorrhoea -
B. not any fond of Op:
in Gonorrhoea -
Op: checks more certainly

(10)

The first part of the paper is
concerned with the general
principles of the subject
and is written in a very
clear and concise manner.
The second part is devoted
to a detailed description of
the various experiments
which have been made
in order to determine
the nature of the
phenomena which
are observed in
the course of the
investigation.

the salivary discharges (171)
induced by Mercury than
any ~~other~~ remedy. It is
to be employed as a gargle
& given internally in doses
of 4 to 6 gr in w day & half
w quantity in the Night -
Opium in Gangren which
is described by Poot & attacks
w toes is most important.

Dr Monro by no means
advised Op: in Cancer but
low diet he thought highly
proper -

of *Glycyrrhiza* *virginica*
Black ⁱⁿ *Glenben*

This herb is called to Op:
& is most important. It is
not a native of North America
It is called the Devils cabbage
in some parts of Virginia
This boiled roots of this
induced Madness in some
Monks.

[The page contains several lines of extremely faint, handwritten text, likely bleed-through from the reverse side. The text is illegible due to fading and the angle of the page.]

It induces double vision ¹⁷²
~~both~~. This shows how the
Brain may be stimulated -
Gangrenous vesicles of the
skin have been induced.
The Vapour of this Glycyrrhiza
affects Barton in a surprising
manner - This very generally
promotes laxation tho' not always,
This is constipating about as often
as op. is laxative -

Op. killed a man in Paris
his stomach had black
maculae on it & w^h membranes
of the Brain appeared highly
stimulated & water was
found in the ventricles.

Lecture Jan. 27th

Glycyrrhiza continued
This more nearly allied
to op. than any other medi-
cin known. It is diuretic
Dr Stahl of Vienna gave it
in many cases of convulsions
in doses of ʒiʒ bis die

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A letter
Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to fading and bleed-through.

He carried it in an ear (173)
as high as 80 + in 24 hours
In general it may be given
with as much safety as opi:
It agrees with some when
opi: does not. A young lady
slept under the dose of 80 +
Extract. Dr. Motherjice
has published a case of Acute
cured by Ext: Glycyrrami
or of Morning Sickness
& increased to 80 + in 4
day - He gave it also in
Brunner's mania - of no
great use in Epilepsy says
Stork. Chorda is frequently
treated successfully by opi:
& it is highly probable a
80 Extract: tu die will also
prove useful - This latter
extract, suffer from keeping

Natura Stramonium

It is common about the

[The page contains approximately 25 lines of extremely faint, illegible handwritten text in cursive script. The ink is very light and the paper is aged and yellowed. A small, dark mark or signature is visible near the bottom center of the page.]

this city - It is called 174
by some *Plenban* - It is an
annual plant - The smell
is poisonous & extremely dis-
agreeable - *Susineus* Goats
eat this vegetable as also sheep
Flowers & goats will eat Tobacco
scarcely any of *Narcotica*
will kill the goat - The
Soldiers on James town river
eat this vegetable while
young & even affected ~~to~~
~~days~~ with a kind of Mania
for several days. This has
been supposed a sedative
but is otherwise - It is a
stimulant -

In 1785 some British Troop
gathered some of this vegetable
while young as a sallad and
affected with the genuine Tetanus
& other diseases - The man with
Tetanus died. A child from
eating it had her labour

Acher says it is an effectual
in regular Epilepsy as Bark
is Intermittently. Stramonium
has been recommended in
Hydrophobia.

under ~~the name~~ Sygno. 175
Phobia - Dr. Cooper has
wroued in his dissertation
w stimulativ effects of this
weed - Dr. Stork was advised
to use all the poisonous vegetals
he so much speaks of, by
the celebrated Linnæus of
Upsal - Light remarkably
affects w Narcotic plants
rendering them less powerful
This has been used in Epilepsy
& Mania - In this Country
the medicine has been used
in Epilepsy - Archer & May-
land say, he used it in
this disease with a degree
Than who had irregular
returns of the disease were not
so often cured - The game
will of w need a low diet
& occasional bloodletting may
had a course to - They should
be gathered when of a green
colour -

Lecture

Jan^y. 29th 1776

Datura continued - B. has had a good deal of experience in this medicine - He says it sometimes unquestionably cures of diseases mentioned. D^r. Cooper ~~used~~ used this medicine in case of epilepsy with advantage - In this case there were symptoms of inflamed brain & the disease was for some time suspended but not cured - Epilepsy is frequently preceded by an aura epileptica - In some cases bleeding, purging & low diet must be had recourse to - In other cases stimulus preferable Opium, stramonium have been used with advantage - This D. Stramonium has been used in Mania - I once saw in the Hospital

177

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the above mentioned matter. I am sorry to hear that you are not satisfied with the result of the late trial. I have no objection to your bringing the matter before the Court again, if you think it proper. I will be glad to see you on the subject, and will do all in my power to assist you. I am, Sir, very respectfully,
 Your obedient servant,
 J. M. [Name]

Patient was discharged cured 1777
and after taking for 4 first
night or 11 & this increased
on every night. She at length
took 3^d dose at a dose -
She was ultimately discharged
cured - Bergius speaks
highly of this remedy -
When the pupil becomes
dilated the dose should
not be increased - It is
only the extract or seeds
that should be used - Just
as the plant is about to
blossom select the best
looking leaves - These are
to be put in a flannel
twist then pierce out &
expose this in a lay
plate in a room where
the sun has been but
not in the sun -

178

Atropa Belladonna
an

Deadly-Nightshade

It is one of Solonacea
It is more stimulant than
any vegetable yet considered
It is acrimonious - The berries
of leaves may be used - ~~It will~~
~~take 4 4 4 of Taster: Oder~~
~~has been taken without effect~~
Ipecac: preferable as a vomit
in those cases. This vegetable
affects the pupil, produces
dryness of the fauces, nose
& an inability of action
in the stomach. This has
disrupted cancerous scirrhus
& in some cases cured or
at least greatly amended a
cancerous form - Cullen
says it has not, in these cases,
answered his expectation
Dr. Berthol has used this

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

Staphylinidae

in Portugal. The ester - (179)
nal application of a diluted
extract of this Belladonna
has produced dilatation
of the pupil - Upon dropping
a solution of this into eyes
previous to an operation
on it, the pupil will be
dilated & admit the appli-
cation of eyes without in-
juring the pupil - B. thinks
it probable if D. Stramon
would do the same thing

Lecture Gang. 3th

Nicotiana Tobacum

Tobacco - M. O. Luides

This was originally used in
religious ceremonies by the Indians
In the reign of Elizabeth much used
In the reign of King James discarded
of the Umbellifera

Conium Maculatum or
Flemlock

1771

The first of the year
 was spent in a
 visit to the
 country
 and the
 weather
 was
 very
 good
 and
 the
 crops
 were
 all
 well
 and
 the
 people
 were
 all
 well
 and
 the
 year
 was
 a
 very
 good
 one
 and
 the
 people
 were
 all
 well
 and
 the
 year
 was
 a
 very
 good
 one

The second of the year
 was spent in a
 visit to the
 country
 and the
 weather
 was
 very
 good
 and
 the
 crops
 were
 all
 well
 and
 the
 people
 were
 all
 well
 and
 the
 year
 was
 a
 very
 good
 one

180

This is not a native of
the United States - It is common
in w streets of Trenton N. Jersey -
Dr. Withering found it
common here, used for ~~Cancer~~
a Feemlock - Its stock is spotted
& its agreeable smell of the brueson
leaves - The seed are always
striped - This a much stronger
than opium or any of the preceding
Narcotics - This has produced
a considerable salivation - An
Dogs resist w effects of this plant
better than any other animal
The Goat eats this with impunity
The juice contains crystals which
dehydrate in w few ~~days~~
This was known to the Ancients
Dr. Stokes says he cured a
number of the cases of cancer by
the extract of Conium
Bergius says w Conium is
always hurtful in genuine
Cancer - Mr Adams on
poisonous ~~substances~~ ^{is} highly
recommended.

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(181)

Harris took his name
to the Zemblack bath with
advantage In 1785 a
case of Lepra was treated
with the conium. After taking
a dose of this medicine in
the morning a hat full
of ^{cuticular} ^{scabs} might be collected
in the bed — Hunter
found it useful in Syphilis
It has been used with de-
cided advantages in Scrophula
Dr Kuhn gave Zemblackgrü
successfully in Scrophulous cases
The medicine at length could
not be procured by Patient
died — This was employed in
Greece to destroy the heretizens

Lectura Feb. 2^a

Dⁿ Stark has recommended
the conium in cancer — To this
when not highly irritated
the conium has been useful
in those of a scrophulous nature

Mr. W. of London speaks
highly of the powder in
of 58 a day in some cases
of tons in ulcers.

Hemlock has been used
by Dr. Mather in

[The following text is extremely faint and illegible due to fading and bleed-through from the reverse side of the page. It appears to be a continuation of a medical or scientific treatise.]

182

chronic rheumatism. The leaf
is most powerful - It has been
used by Butler in Gonorrhoea ven-
lenta - It has been used in the
Gargery of old people - Van Swieten
was three times attacked with this
in his toes & was once saved by
the Flewlock - The extract is
most commonly used in this city
the leaves preferable - They should be
collected in June & should be kept
in spirits from the sun - Often
some time thirty grains may be taken
in the day - Pertussis has been
cured by this medicine

Of the sub-narcotics

Of the Laurus-cerasus

The Prunus laurus-cerasus
of Linn. - This very different
from the Kalmia or Laurel of Persia
Dr. Ross says nothing from experience
of this Laurus. Convulsions, in gizzards
is effect of stimulus - This has been
but little employed in practice
Darwin has known a weak tea of this
given to hysterical women with success
The distilled water has done much much
The fine taste of small prepared extract
is often given by & leaf of the Laurus &
in this country by Welch & Peck

The Southwind blows
then when the North-
winds blow by South
winds increase the
evaporation of camphor.

of Camphor.

183

This an article of much importance
This obtained from the Laurus Camphora
This has been obtained from a great
from the roots of the same tree This
Principle much diffused among
the vegetable, of our clime, in our country
It grows to a great size in Japan
Camphor is soluble in water
The not readily so. The acrid
& nauseating part of camphor
are communicated by some
thing foreign - Camphor in
union with bark greatly
increases the power of the latter
The mucates, sulphuric
& fluoric form dipole this
medicines - The camphoric
acid readily unites with earths
& alkalies. This C. different
from every other - It is a volatile
oil in union with carbon
The to a power of camphor
destroys almost every kind
of insect, except the de-
testable moth - These insects
are more readily destroyed in
summer than in winter when

[The body of the page contains approximately 25 lines of extremely faint, illegible handwriting. The text is mirrored across the page, suggesting bleed-through from the reverse side.]

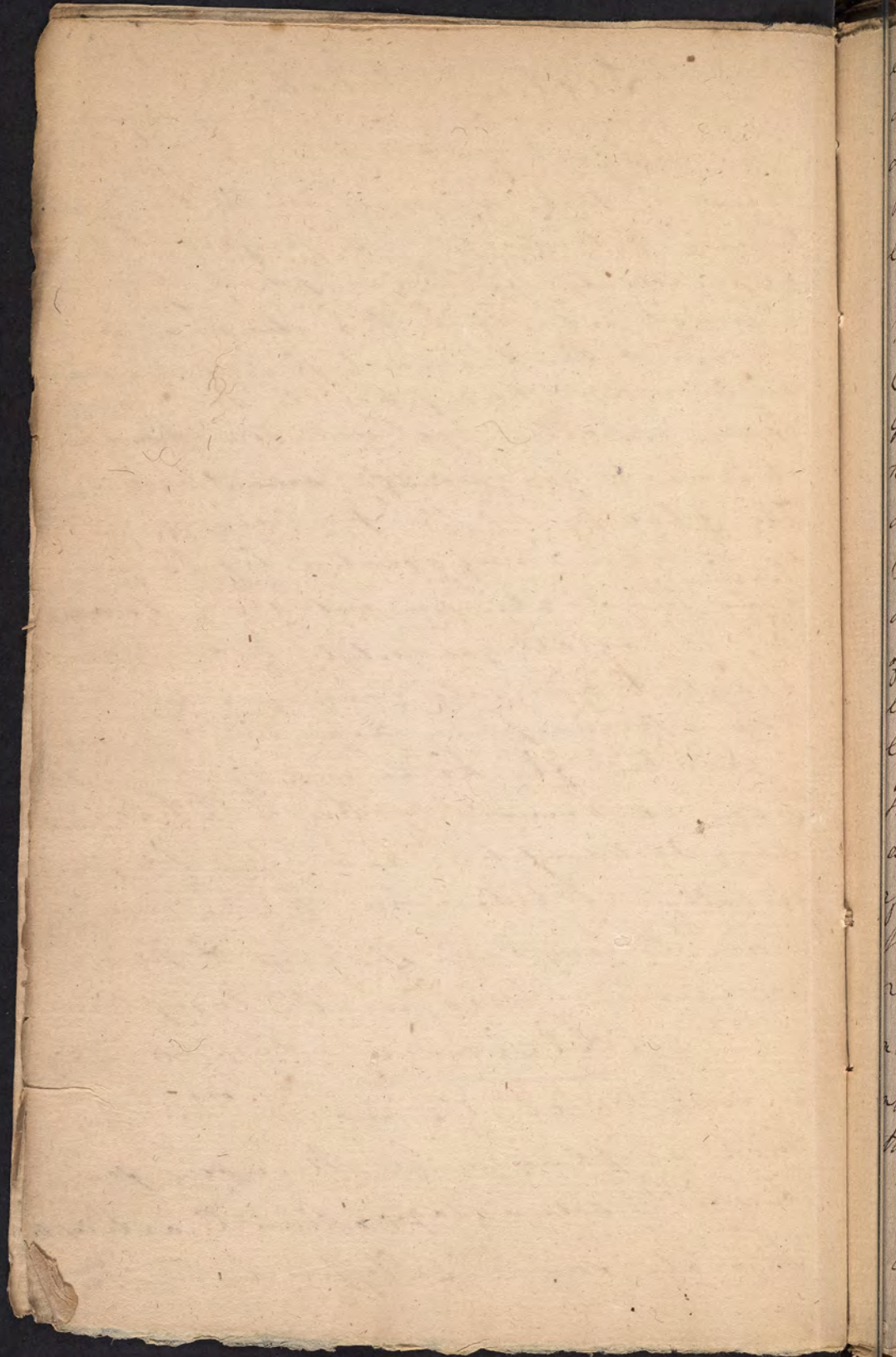
Lecture Feb 3

1854

The subject of Camphor continued.
Birds & other animals with two ven-
tricles & a single an preferable for
experiments with Camphor. Some
animals who took this became hydro-
phobic & the stomach was sometimes
inflamed - Camphor is sometimes
taken into the system - The ~~princi-~~
pation is frequently ~~small~~ camphorated.
The flowers in the parlours might
be much invigorated by throwing
into the water in which of flowers
is, a small quantity of camphor.
Plants & animals governed by the
same principles - Like the Salamander
a Newt, fly & an insect - vegetables
have a nervous system - Dr. Alexander
says ʒj Camphor reduced his pulse
greatly - Barton has known Cam-
phor to inflame the eyes & pro-
duce other disagreeable symptoms.

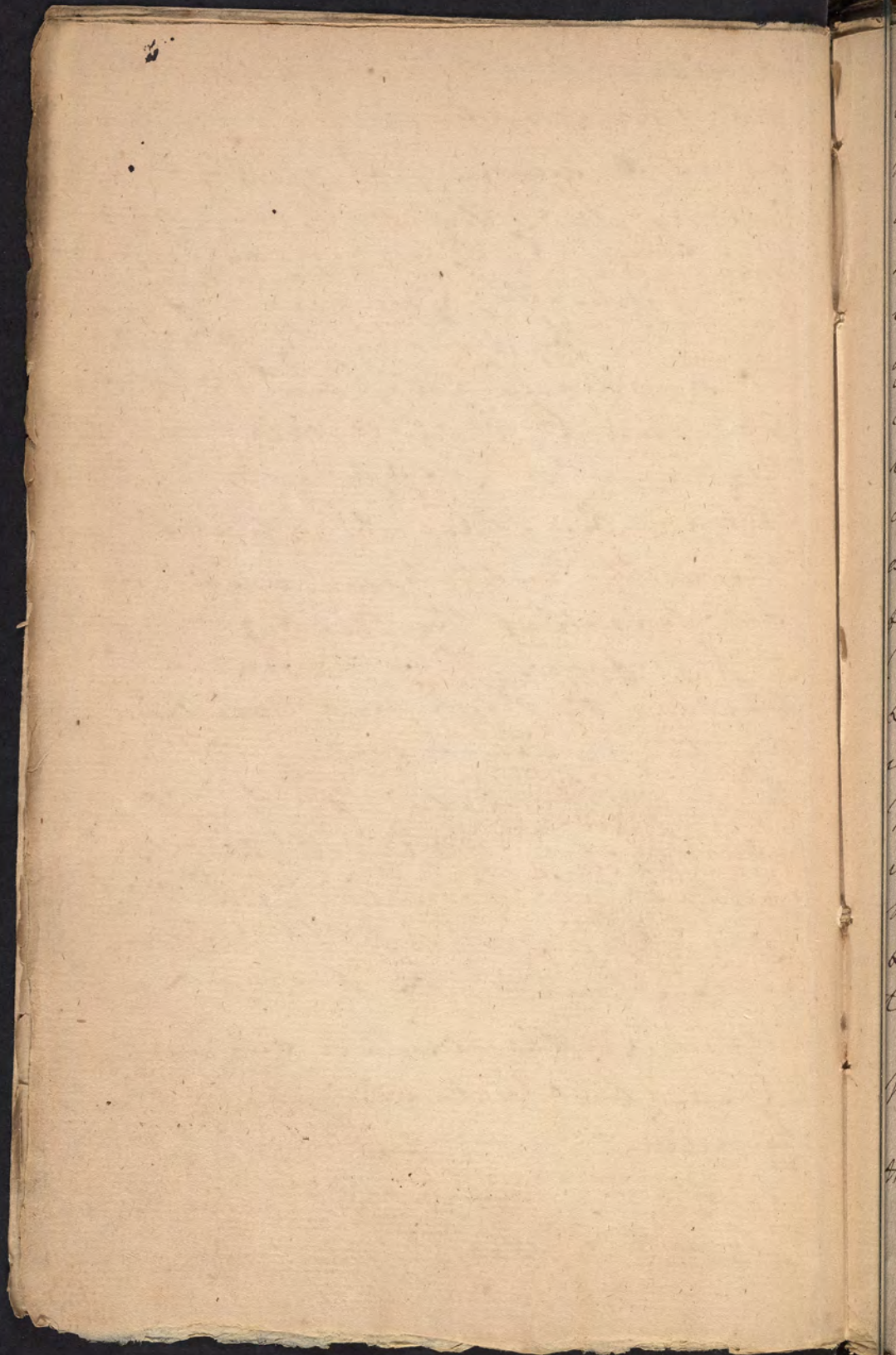
Lecture Feb 5th 1807

Camphor continued. This has
been employed in Nervous fever
& with advantage. This C. antiseptic
Pierce says in Typhus this C.



excellent - It promotes a
 diaphoresis & acts in some manner
 as an anodyne - C. with Cort.
 Peruv. has been recommended
 by some. C. has been used in
 Gangren - the Gangrena sicca
 This was the practice of Dr Collin
 C. peculiarly adapted to the
 Gangren which occurs in the
 termination of Typhus. This
 disease has been treated by a
 County Practitioner with a
 decoction of the Bark of a root
 of Japofias. It is prepared by
 boiling the Bark in a solution of
 ley to a consistence of Mush.
 In exanthemata C. has been
 also used - Rosenstien says
 if the skin be anointed with
 pomatum in unison with va-
 riolous matter to which was
 added C. the disease did not
 appear but when C. was not added
 the disease came on -

Hoffman says he used C. in
 acute inflammatory affections
 with success -



Collin used Camphor ⁽¹⁸⁶⁾
in rheumatism

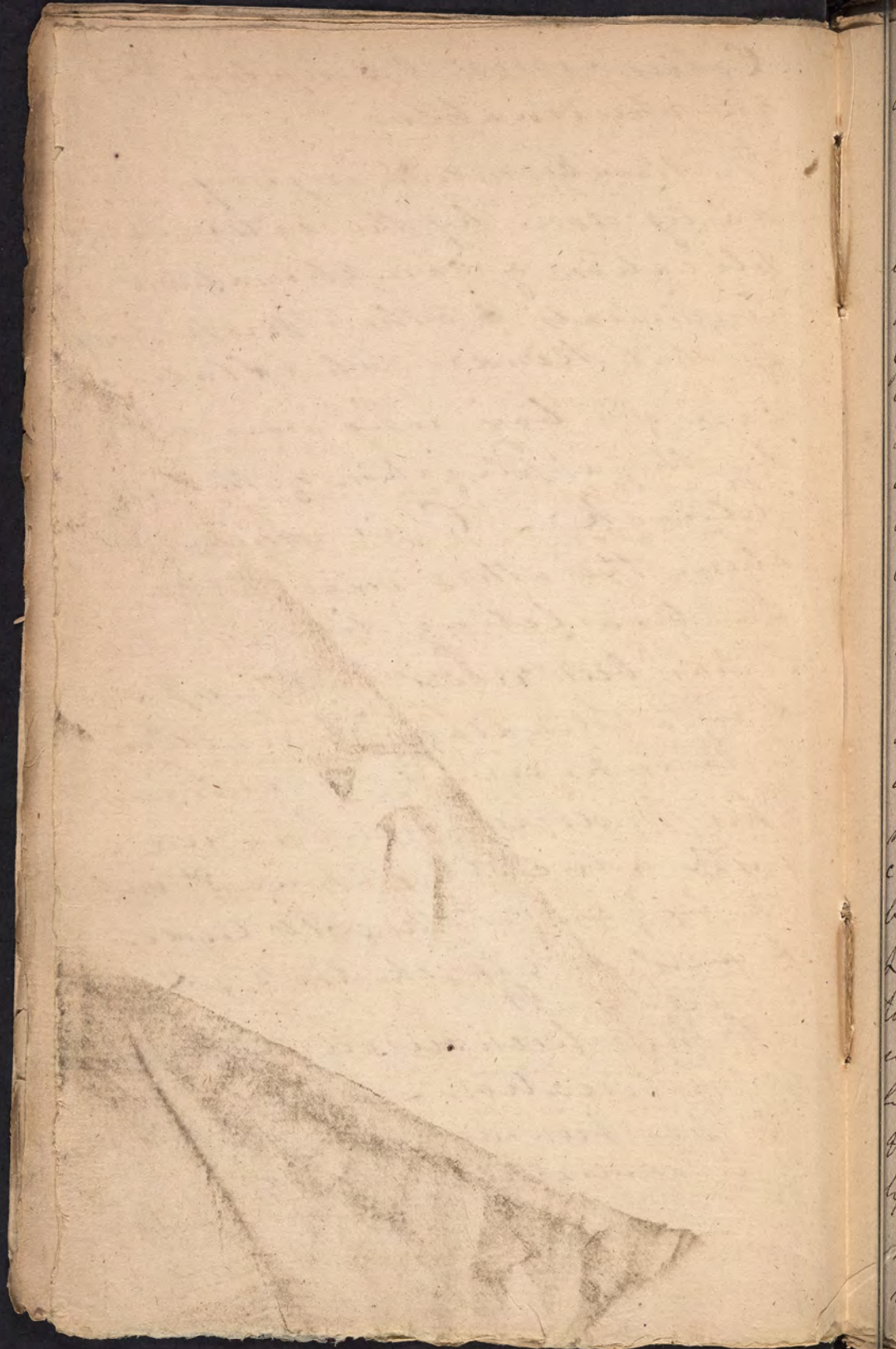
It thinks much injury is
daily done by the external ap-
plication of camphorated
liniments & other preparations
of that kind - He allates a
case of a boy who was killed
by the application of the spi-
daddock - C. is remarkable
above the other essentiaes
for translating diseases -

C. has been used in Epilepsy
& with advantage in junction
with Cupressum ammoniacum

This Medicine has been used
with advantage Chorea & with
the began with gr^o & tw^o die
& went on till she took gr^o & viij
to die - H

H has been used in painful
Menstruation -

C. has been used in Sympthomania
It is advisable to bleed -



187

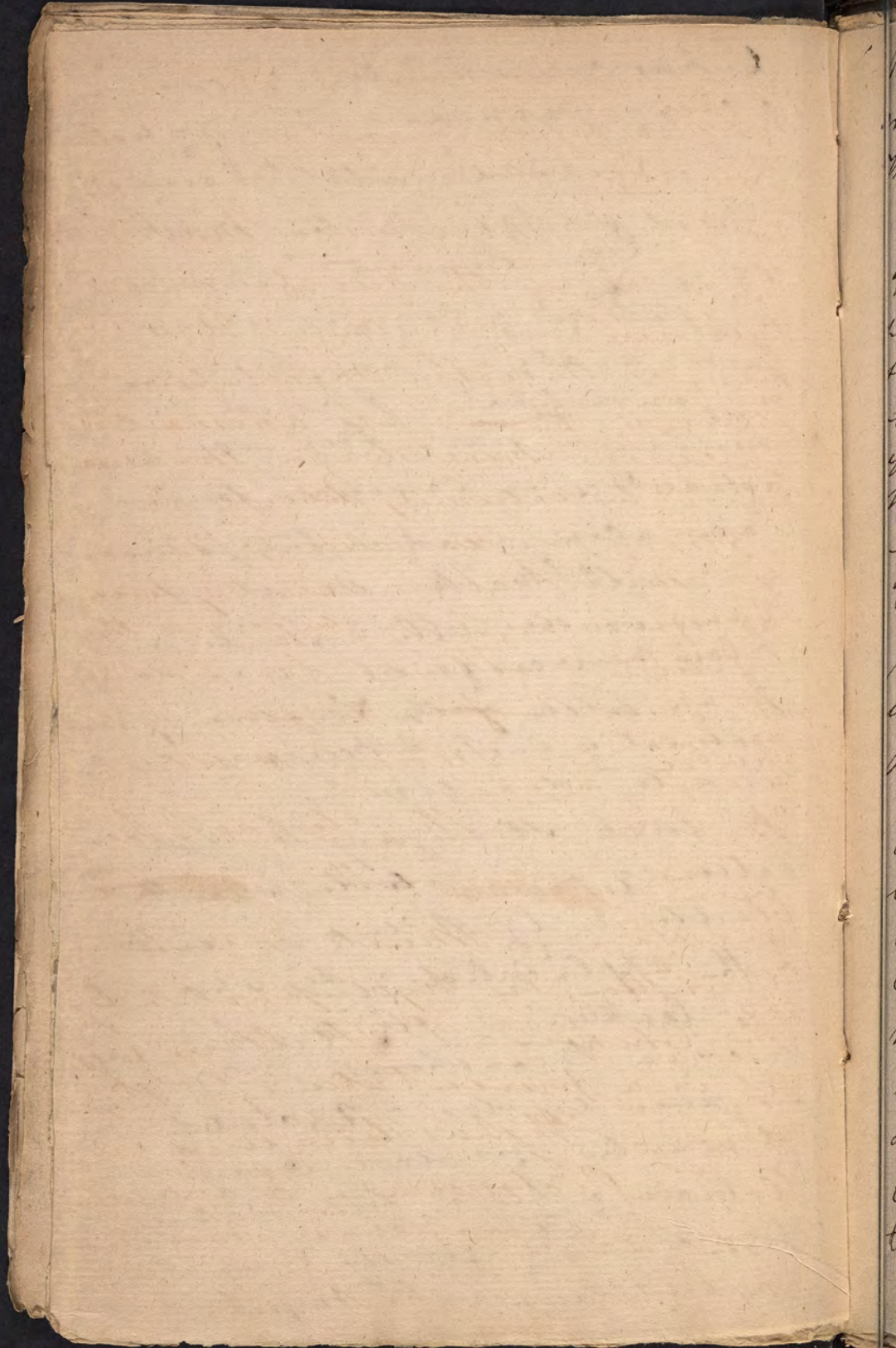
C. has cured in an instance
a case of Mania

Lecture - Feb 6th - 1807

Great danger in the external
use of ψ Saurus Camphor
Injections of camphor with
Gum: Arabic have been used
in gonorrhoeas - Opium &c.
combined have been used with
advantage in Cancerous fores - The
Cam. alone renders the fores worse
C. with Bark, excellent in
Gangren or such as intermitted
& low nervous fevers

In the ulcer of the Scrotum an
ointment of Cam. & Mercury were
used to advantage -

ψ . treats Strangury by appli-
cations of warm water in the
bladder or by warm baths
& the application of sinapisms
to the Testicles. C. has been
used in Branchocela - It may
be given in dos: of 2 grs to 60
It may be suspended in water
by means of Symp. Gum: Arab.
Best way of giving C. is to
rub it down with Myrrh



By 2 1/2 Mynk Bij 2 Camphor
may be diffused in 3viij water
This originated with Percival
of Moschus or Musk

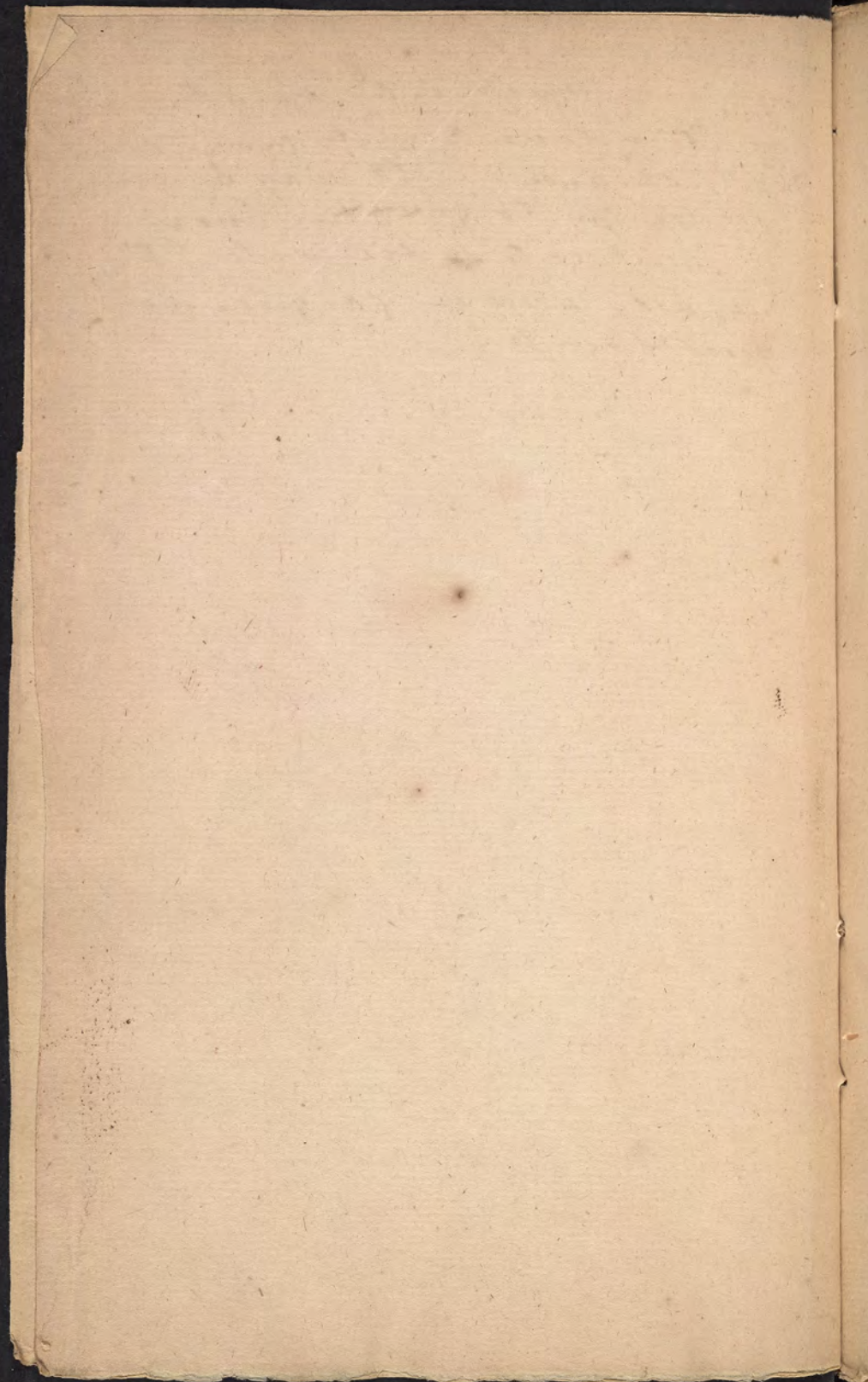
It is one of the very few animal
substances used in Med. It is
from the Moschus Moschiferus
obtained from the animal
yields one Musk bag. The animal
must be extremely plenty -

Alexander exhales a smell
of Musk. This musky perfume
is wonderfully diffused the
nature. This in large doses
increases the force & force of
pulse. Musk in attacks

of Gout in the stomach has
been used with great
advantage - Musk is used
Cinnamon, in hydrophobia by
the Chinese - Dr Hillary says
it is a preventative in this
disease - It has been used in
Colica Pictorum - In subacute
tendinitis accompanying nervous
fevers -

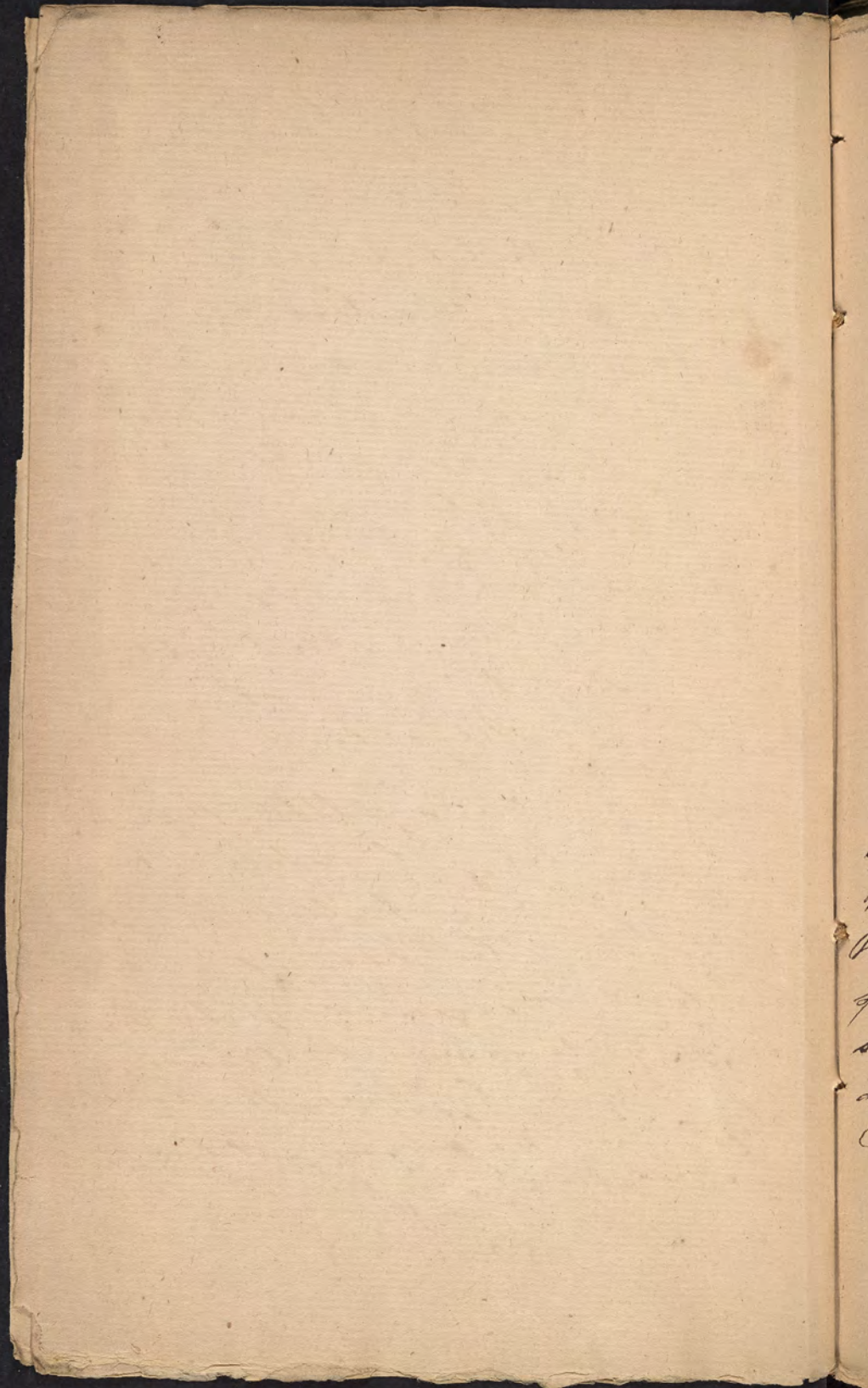
[Faint, illegible handwriting on aged paper]

The best method of judging ¹⁸⁹
of good Musk is by its strength
of its odour & by its granulated
appearance - It may be given
in ten grs to ∞ - Every gr
of Musk costs ~~of~~ six cents - It
has been used in Gargere with
great success -



Lecture - Feb. 9th 1807 ¹⁹⁰

Of the Artificial Musk
It is prepared by pouring
Ziij, Nit. Acid upon ℥j
rectified sp. Succin
After having stood 24 hours
there is a remains matter
which is to be frequently
washed & which then has
many of the properties of
Animal musk - It has
not used this medicine
It is much used in Ger-
many - It is tutted to 12
gr an to be tuturated
with some demulcent &
then diffused in water
℥ss - of this you own
two teaspoonful - The
Tincture is to be given
in doses of ʒʒ



Animal Musk is obtain^d ¹⁹¹
from our Alligator & other
animals - It has been obtained
from our Polecat -

of Castor -

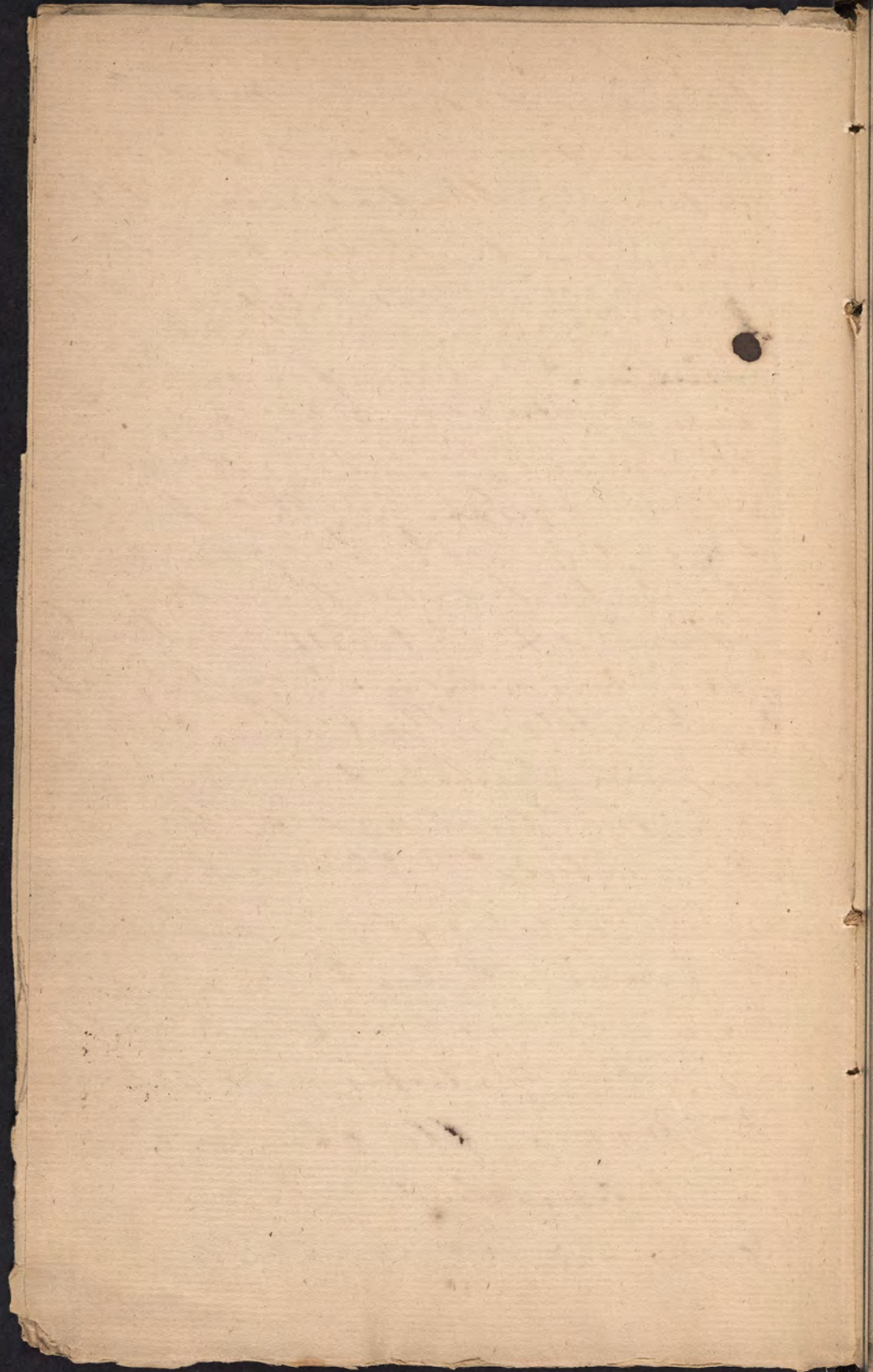
This is supposed by some to
be the inguinal glands of women
This is not the case - It is con-
tained in a bag - This has
been celebrated as a famous
Antihysterick - It has been
used as an Emmenagogue - It
is given in doses up to ~~3~~
Cullen says he never observed
any thing of Narcotic -

The Crocus of the shops is
the stigmata of the plant -
It is a peculiar substance & its
powers may be extracted by
Spirits - Bergius says he has
seen Hysterical Patients reso-
lved worse by this medicine
Cullen has no favourable opinion
of this Crocus - It is much used
in the art of dyeing

of Valerian

It is a native of Europe
 It is a stimulant & is not
 endowed with any narcotic
 powers. The taste of the root
 is warm, acid, & its odour
~~is~~ most agreeable to Cats & Rats
 & is used for catching
 rats - It is not so powerful
 stimulant as some of the Medicines
 already spoken of. It is purgative
 & vomitive - It is diaphoretic -
 It has been used for a long
 while - The Introducer of it
 was cured by of an epilepsy
 by it - It is a Medicine of
 decided powers & a Physician
 should blush not to know
 its virtues - It has been sep-
 arate particularly adapted
 to female Patients in epilepsy
 from obstructed Menstruation
 says it is antispasmodic -

Dr Monro often gave Valerian
 in Epilepsy but never cured
 Haller gave it in Hysteria



Proper Rutherford says
he never saw any medicine
do so much good in Epi-
lepsy as the Valerian - 13.
says in some instances
he has cured Epilepsy with
this medicine -

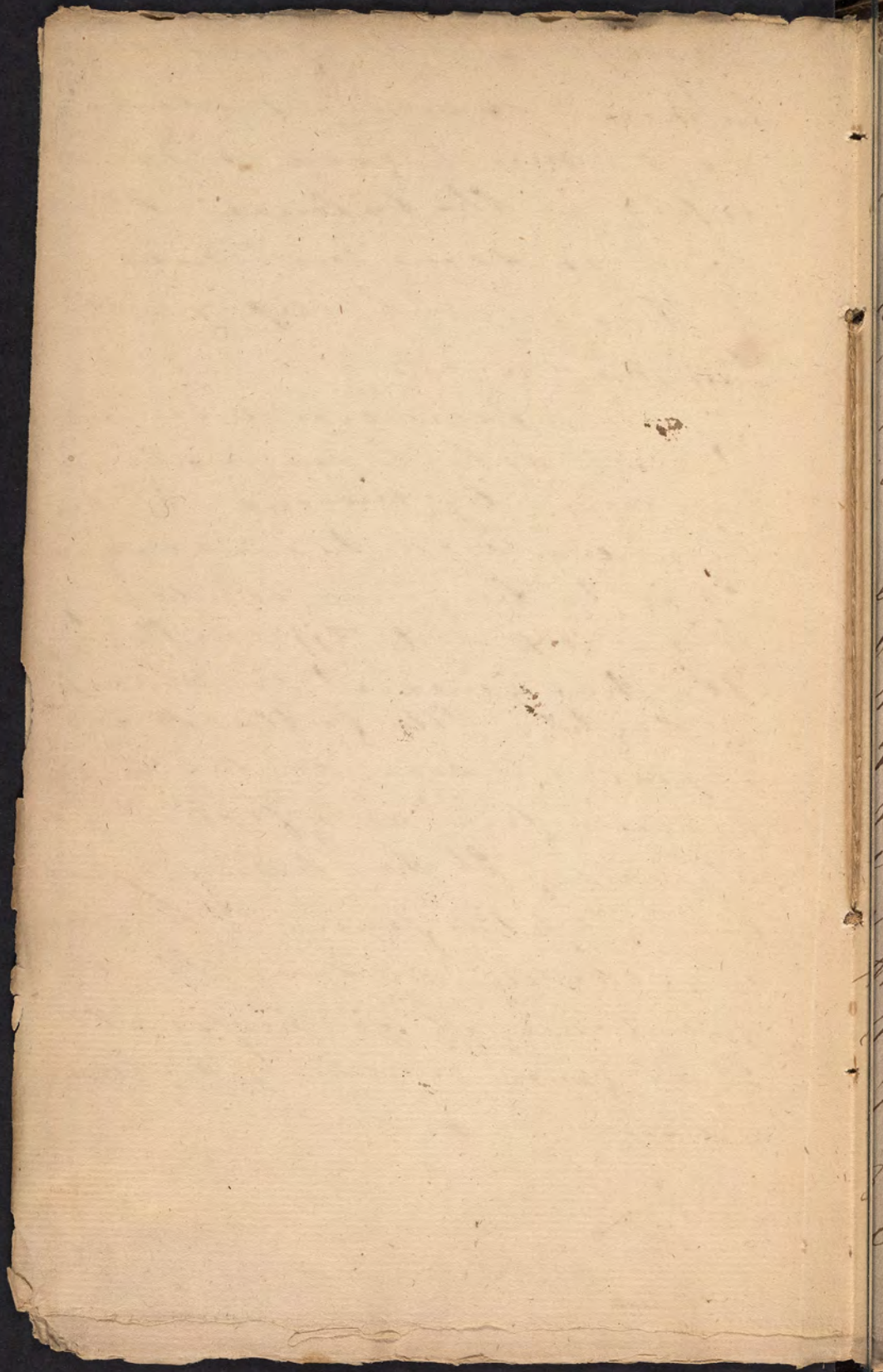
It has been used in Cholera
It will which frequently is
produced by worms - It has
been used in Hemicrania

It is to be given in doses
from ℥x to ℥ij in the day

He has given it in dimness
of sight - The gutta serena
appears in some instances to
proceed from an affection of the
stomach - It has been used in

low Typhus fever - It is given
in Tincture by some this in
substance it is preferable

It is given in doses of ℥j twice
a day -

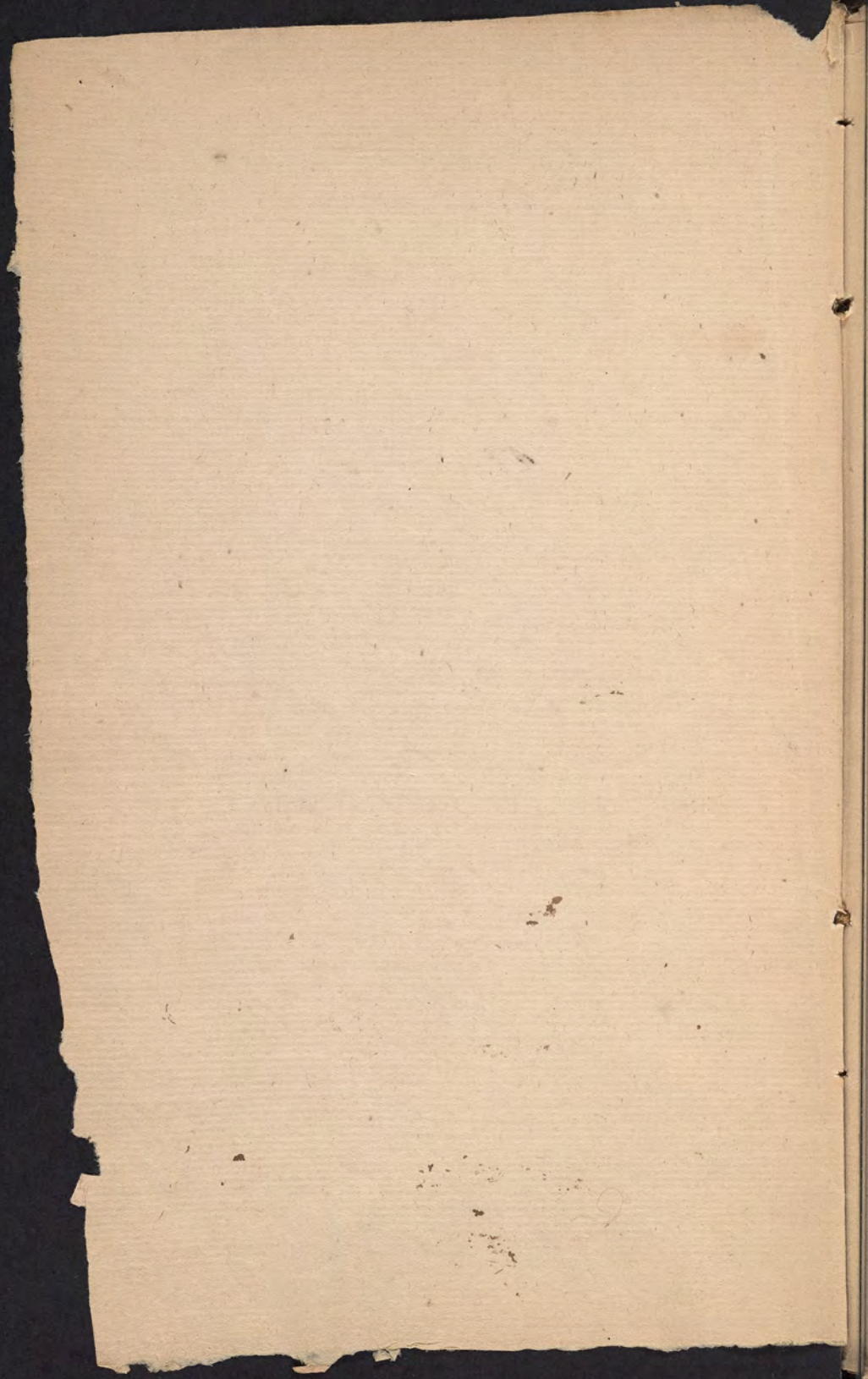


Lecture - Feb. 10th 194

Ferula Asa Fetida

It is an Umbelliferous plant
The gum exudes from the
root white but after some
time. We have one species
in this country - the *F. Cana-*
densis. The *Asa Fetida* we
use is a gum-resin &
entitled to attention from
Physicians. This is most
powerful of the fetid gums.
It is stimulating as is
proven from its effects
in colic - Cullen says
it penetrates more readily
the nerves than any other
Medicine.

In Spasmodic Asthma
of children this is most
excellent remedy

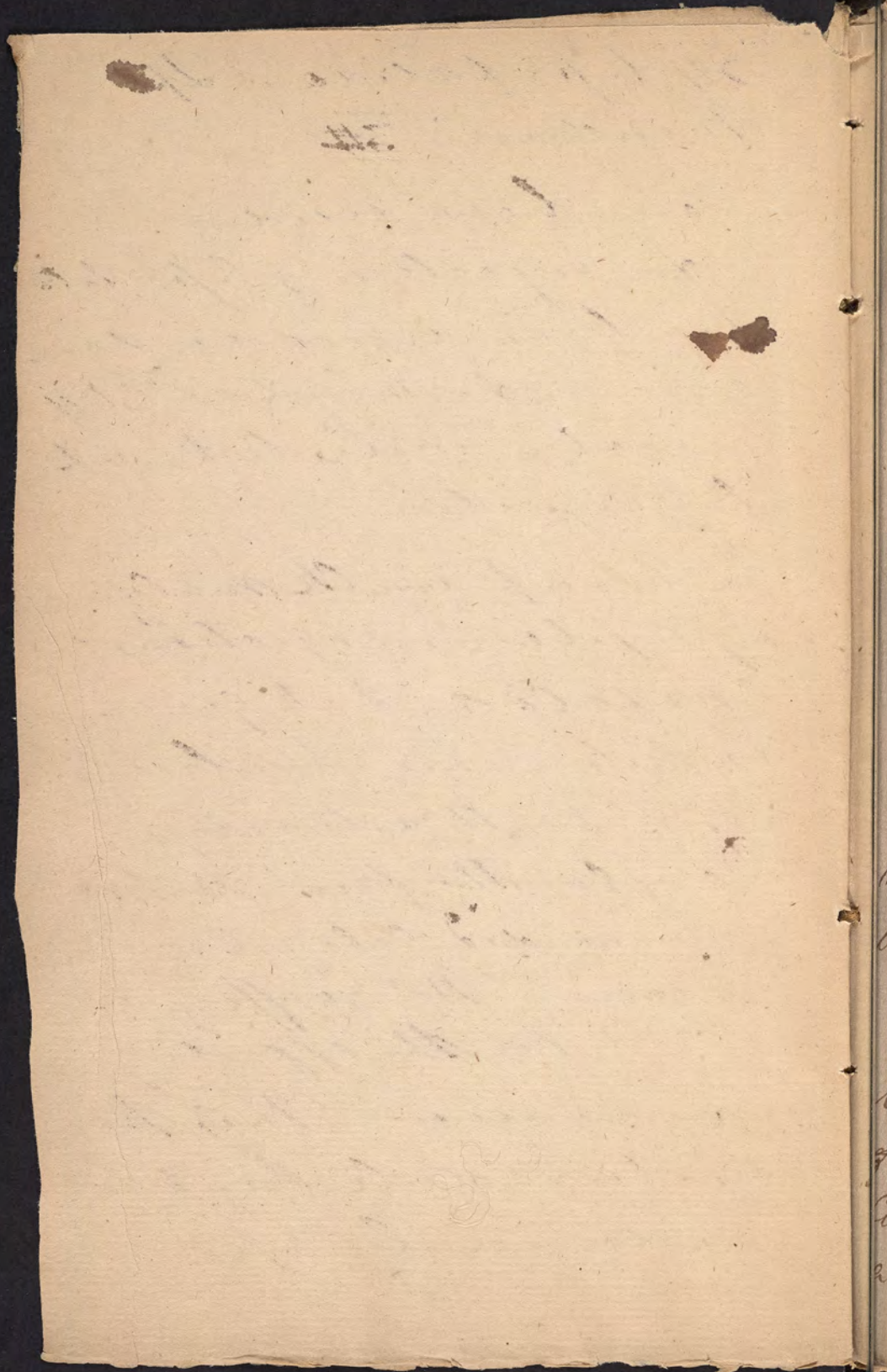


Zij Apapetide - Sp. 195
Munduri ~~37~~

have been used -

An injection of Apapetide
has been used in some
cases. As much as *Zvij*
of water will take up
be injected

In croup with malignant
symptoms, injections of
Apapetide & it given
in solution has been
used with advantage -
Douglas the first who re-
commended Calomel in this
disease - Mr Geoffroy says
good for the effects of
Laudanum - This pre-
vents or dulls the
induced by ap.



Dr Whitt says A. in ¹⁹⁶
duces sleep - This probably
is effected by relieving pain
This medicine purges
in gr^{ss} or ^{ij} as well as colons
~~of~~ ^{of} the rectum. Has been alle-
viated in cases of cholera
It is given in union with
camphor. M. says it
acts by producing exfo-
liation. M. has no expe-
rience in this respect -

It is sometimes best to em-
ploy it in tincture -

M. often uses a watery
solution of this medicine
of Gum: Ammoniac

We know not the plant
of that produces this -
Cullen decries this erroneously
according to Linnæus -

¹⁹⁷
This has been used in
Scurvy - This garlic is
in some cases a powerful
expectorant

In deafness the juice of this
might be dropped into
the ear. The use of this
class of Medicines has
been supposed a remedy
against Bronchitis. The
juice of y Onion ap-
plied to the head has
a great effect in removing
y hair ~~at~~ fallen out
from Tonic capitis
of the Siliquose

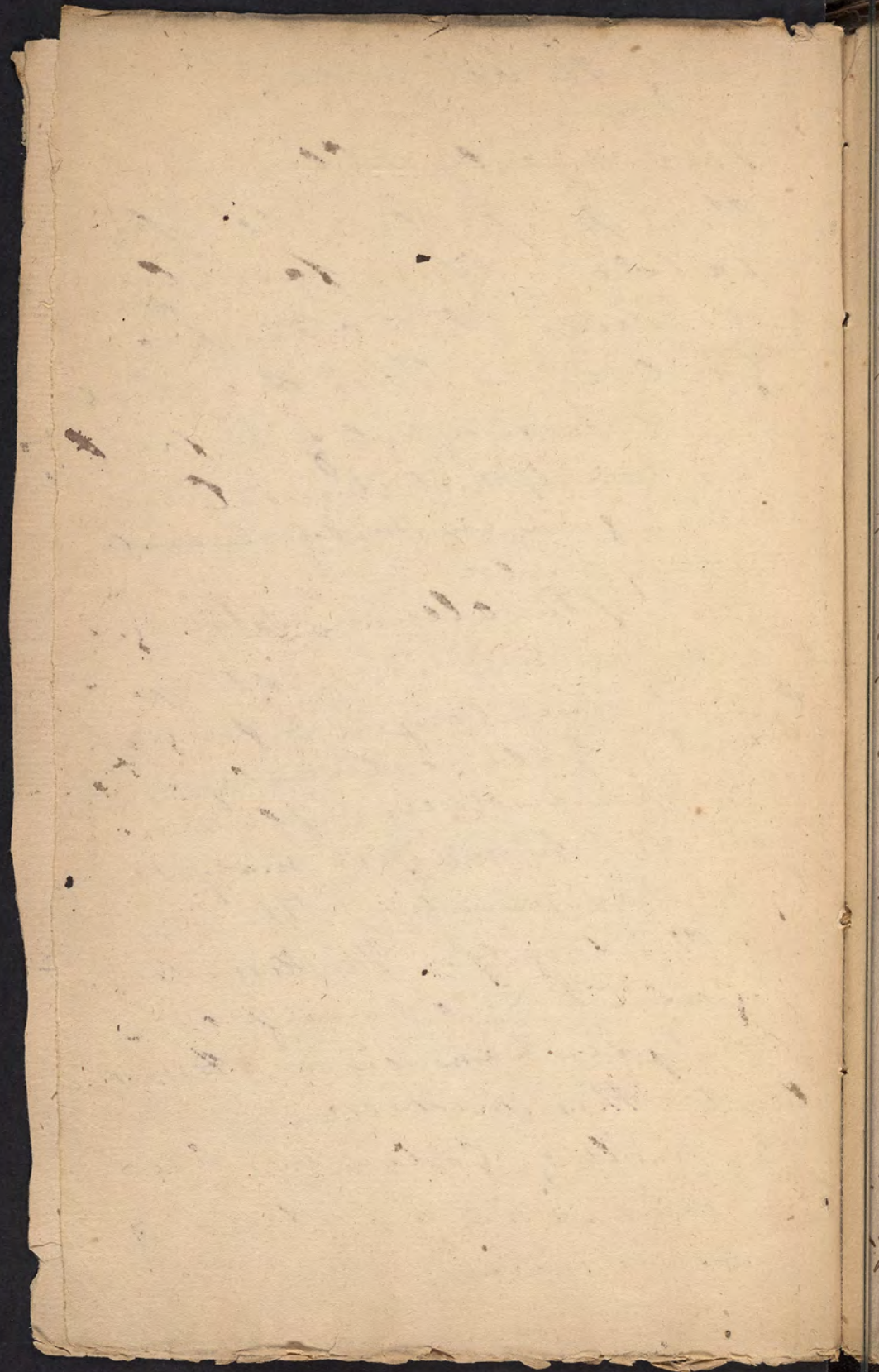
Internally they have been used in
many diseases - as Venereal Intermittents,
in Chronic Rheumatism & Palsy
When dropsy depends on a torpor of
y Lymphatics Mustard may be
highly useful - An infusion
of ~~some~~ radish has cured Scurvy

(197)

of the Alliaceae

Then nearly allia in their properties to *Opopetide* - This family derives its name from Garlic - This is the most powerful of the family - This family nutritious - Those which grow in mild climates are very mild.

of the *Allium sativum* Garlic
The red onions are the strongest & resist much longer to freezing point - Garlic externally applied to the skin induces inflammation - This happens often many persons by the perspiration The Jews eat this largely - The stimulus of Garlic is a powerful one Dr Sydenham cured Dropsies with this medicine - The smell of Garlic has been discovered in a fistula of the os humeri



Lecture

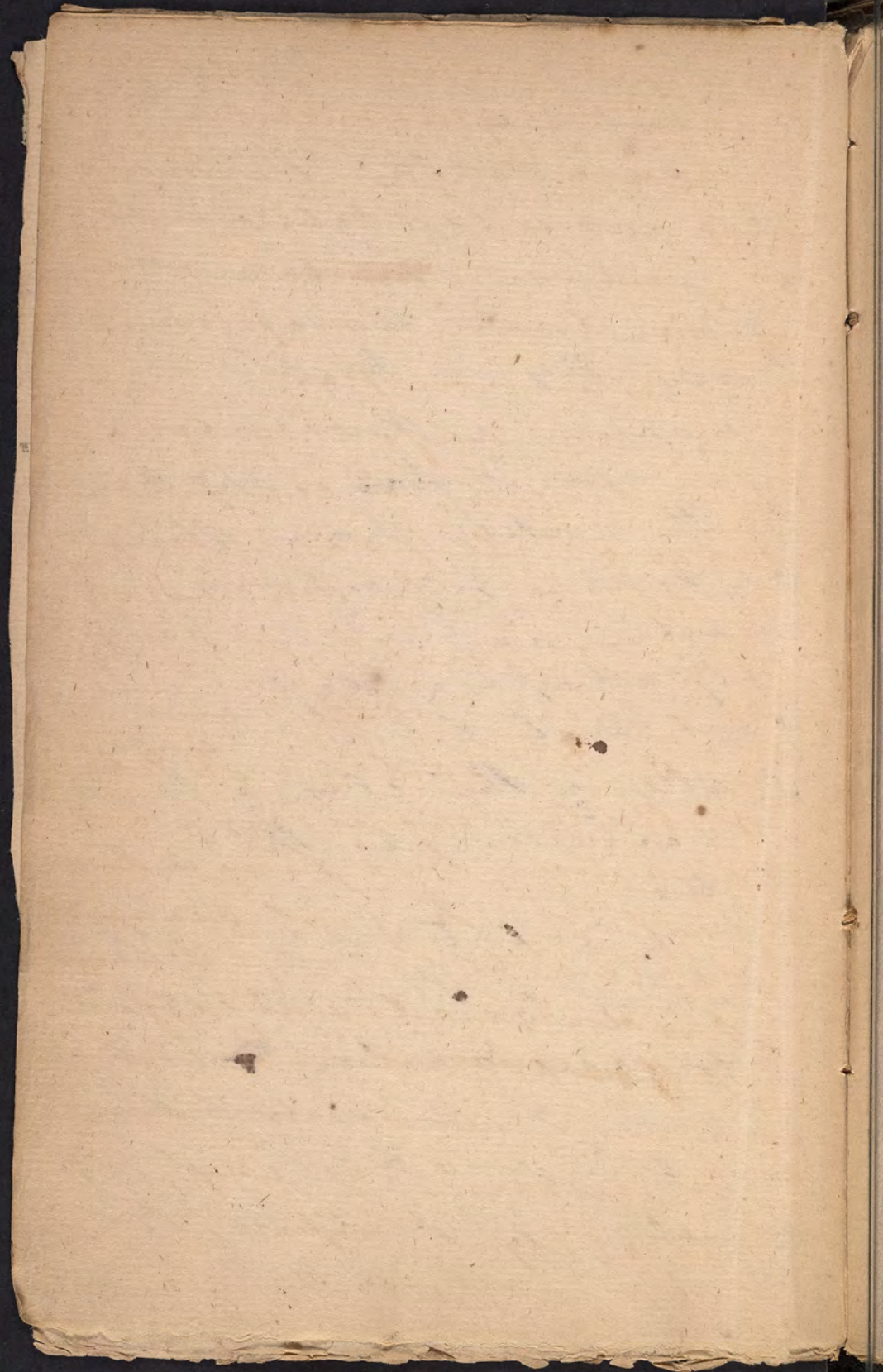
Feb. 12th 1798

Siliquosa

These have been found useful
in chronic rheumatism
& have cured this disease in
Scary they are highly useful
Sinapisms of Mustard or
Horn-radish ~~have~~ applied
to the ankles have prevented
epileptic paroxysms. This
practice is perhaps best
only adapted to cases of
great mobility. The active
matter of this class of Medicines
is carried into the circula-
tion

of external appli-
cation of Sinapisms &
Horn-radish

Sinapisms are made of
of siliquosa & cataplasms
of meal or any thing of the kind



Two parts of Mustard & 1
 of wheat or rye meal with
 vinegar or milk. The Mustard
 prepared for use at table is not
 as good as ~~the~~ flour
 of Mustard Sinapisms act
 as blisters from flesh -

They are useful in convulsions
 from teething & convulsions
 from small pox. Stomach
 is relieved by sinapisms

These preferable to blisters

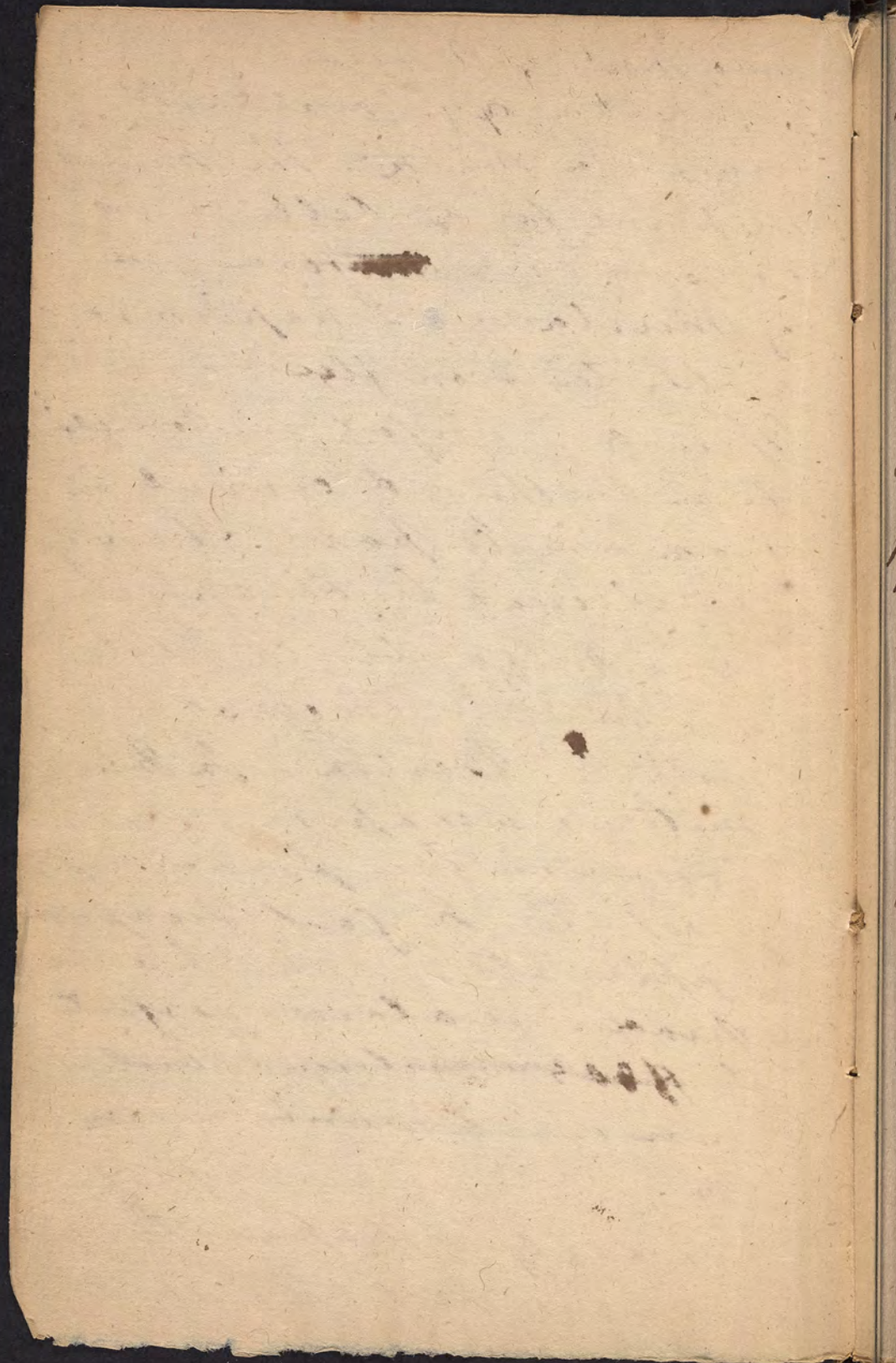
This practice originated
 with Dr Barton - In Inter-

mittents Sinapisms have
 sometimes been found highly
 useful - In faint Sinapisms

applied to the neck have
 produced alarming effects

~~In cases of rheumatism & other
 pains from Sinapisms to be avoided~~

In general it is improper
 to apply Sinapisms to the
 hairy part. They should



250
be applied at some distance
from the part affected.

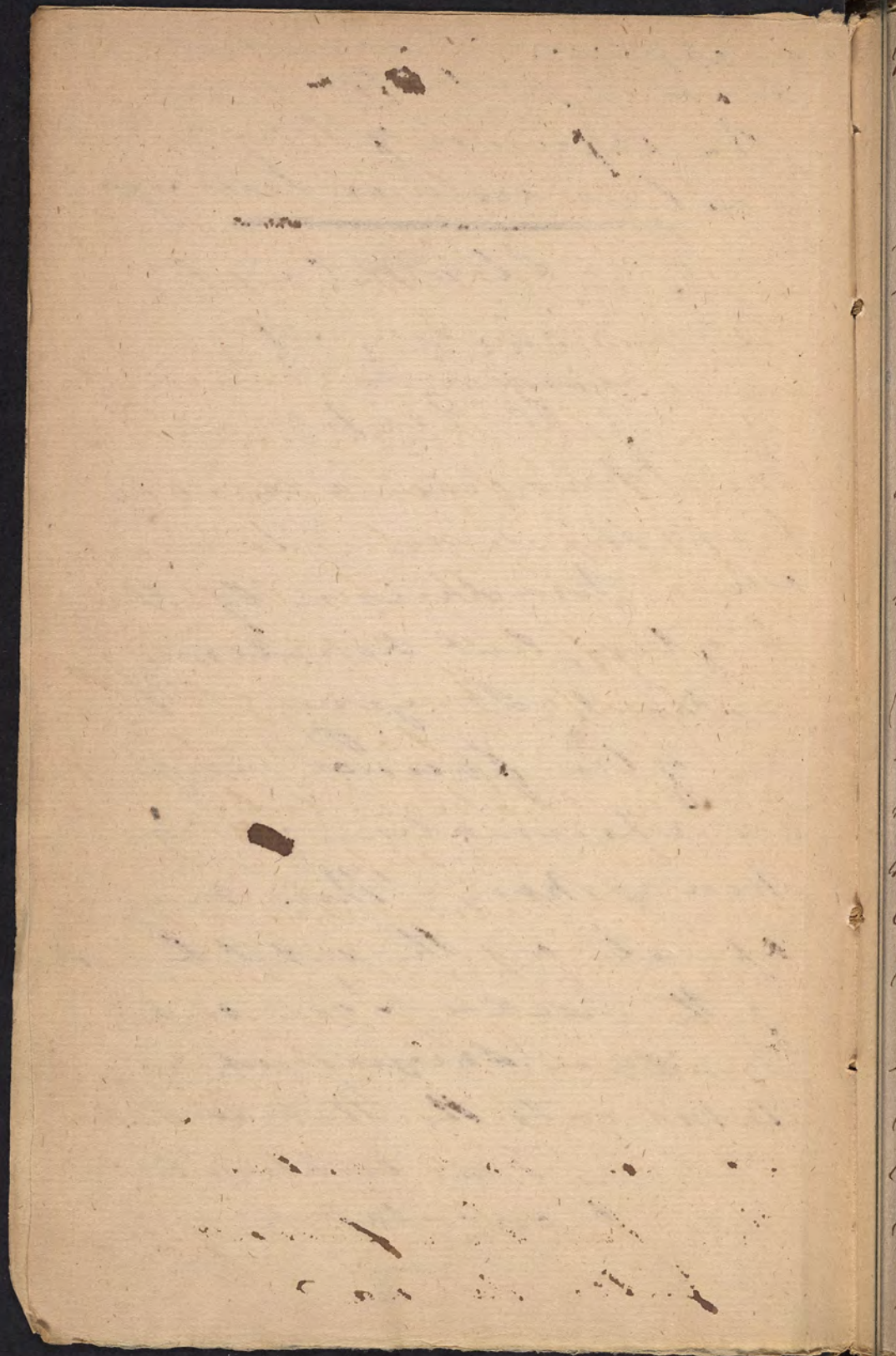
An infusion of Fluorid
has been used in Scurvy

of a Stimulant
Evacuants

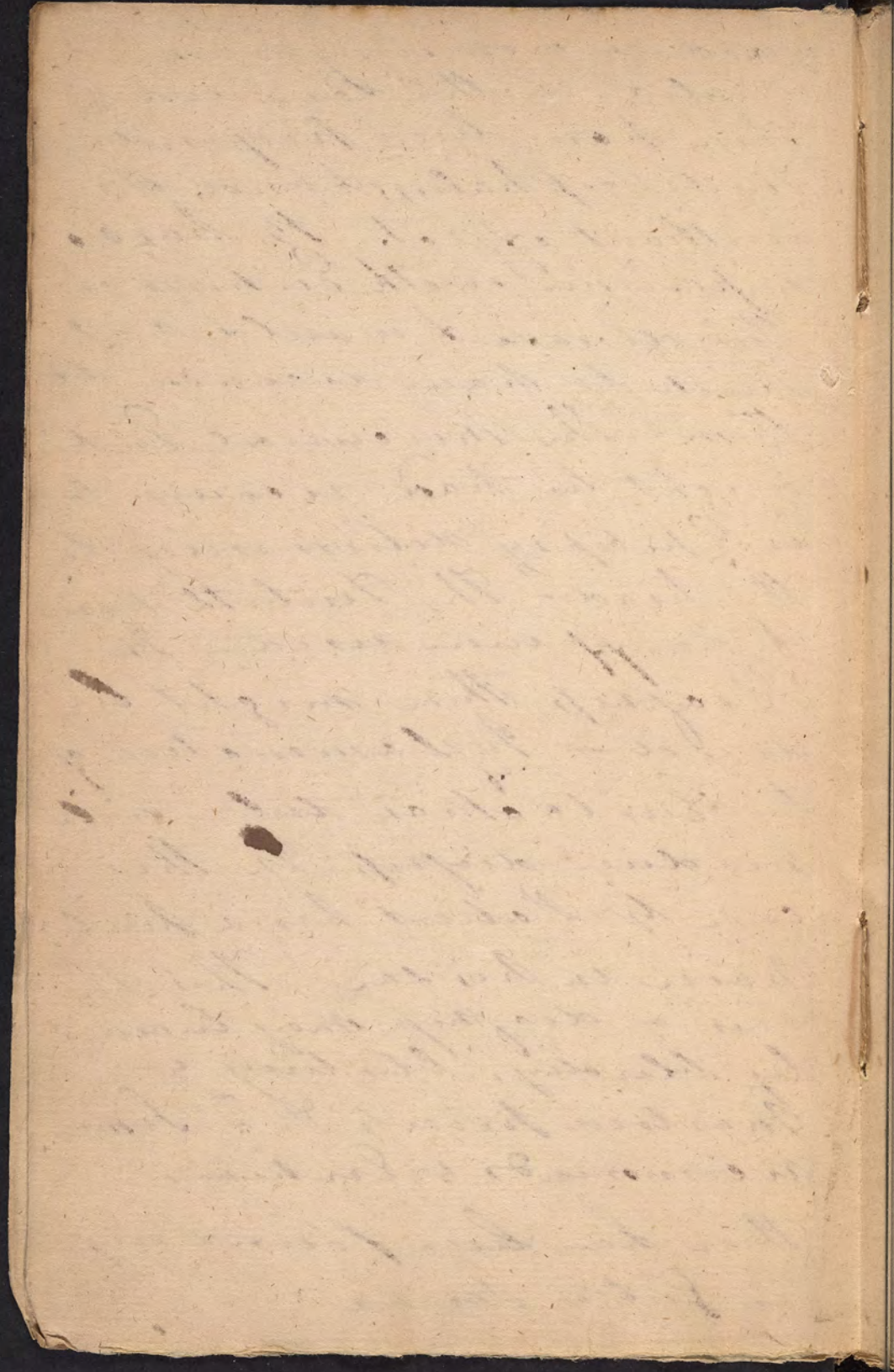
of the Erythines

They procure a discharge
from the nose - The evacua-
tion produced by them
is often, but sometimes
without sneezing - They
are often found useful
in rheumatism of the
nose & throat - They may
operate on the whole
of the head - Some erythines
produce sneezing when
taken into the stomach

It seems some erythines taken
into the circulation will
produce sneezing like Spica



produces vomiting when
 treated in the same way
 There have been proposed in
 Hydrocephalus, & used, tho'
 without effect. B. has no
 experience with Emetics in
 this disease & would not
 wish to have recourse to
 them - The Mercurial Emetic
 might be had recourse to
 in Epilepsy determining to
 the head - The Turbith Mineral
 & Snuff were used - In
 Deafness, there might be
 used - Inflammation of
 the Eustachian tube will
 produce deafness - In this
 case Mr Patient has a peculiar
 pain in his ear - This Spe-
 cies of deafness may be cured
 by bleeding, blistering &
 Mastoid process, & Dr Semmings
 recommends 4 Emetics
 There have been found useful
 in Putta Serena



Mr War used Mercury ²⁰⁰
Snuff composed of gr & Turbith
Mineral & Zij Pulvis Stom-
totoxicus - In Amariis
Plithorica bleeding purge
Sulph: Mercury & Common
Snuff salivate - Dr

Bankham relates similar
cases - When the ordinary
means of inducing salivation
^{fairly} B. recommends a trace
of this Mercurial erthine
In a Polypus of the
Turbith Mineral may be
be used

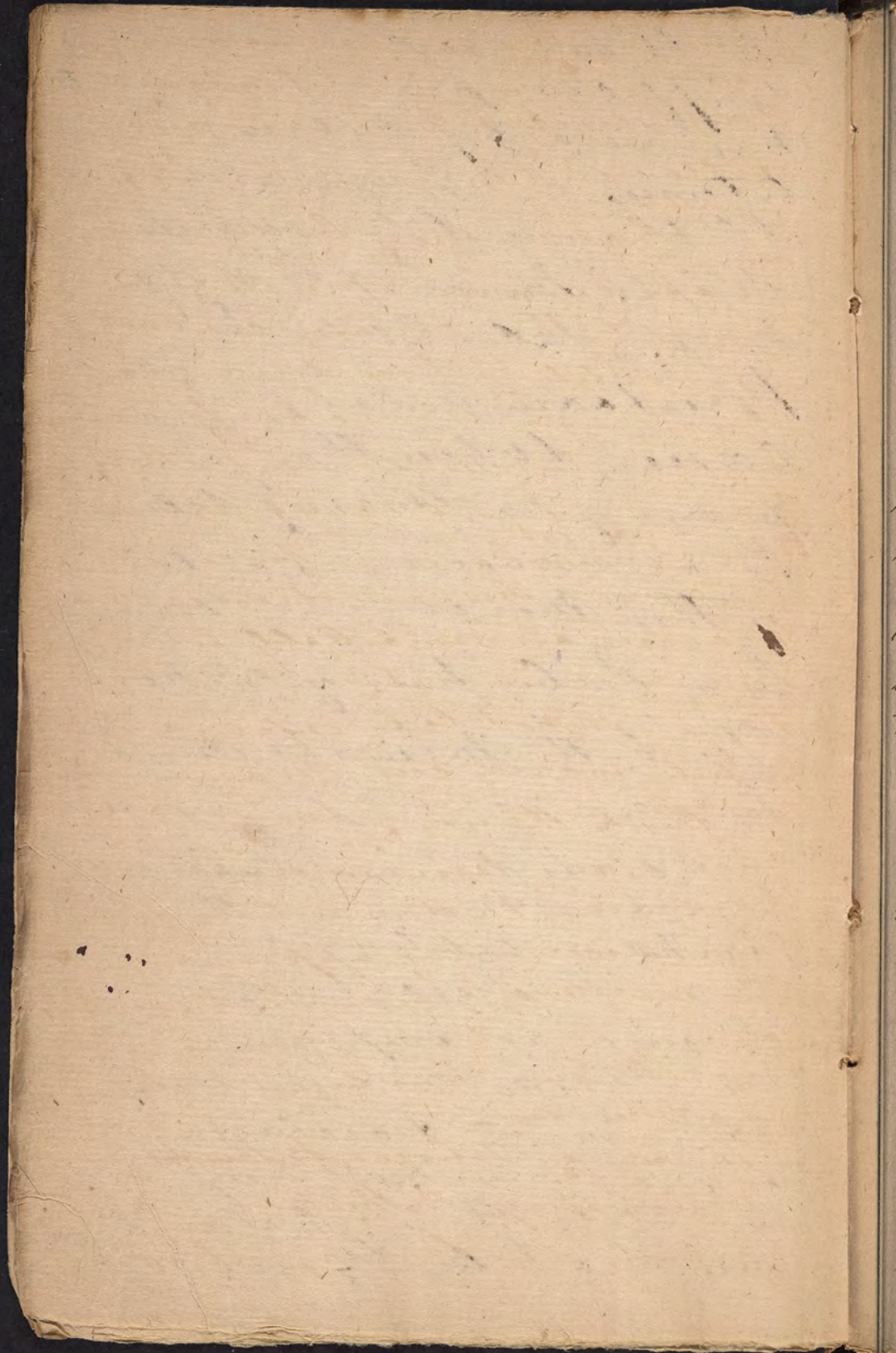
Lecture

Feb 4. 13th 1807

Erthine continued
of the Meta Vulgaris
The juice is employed - B
never used it.

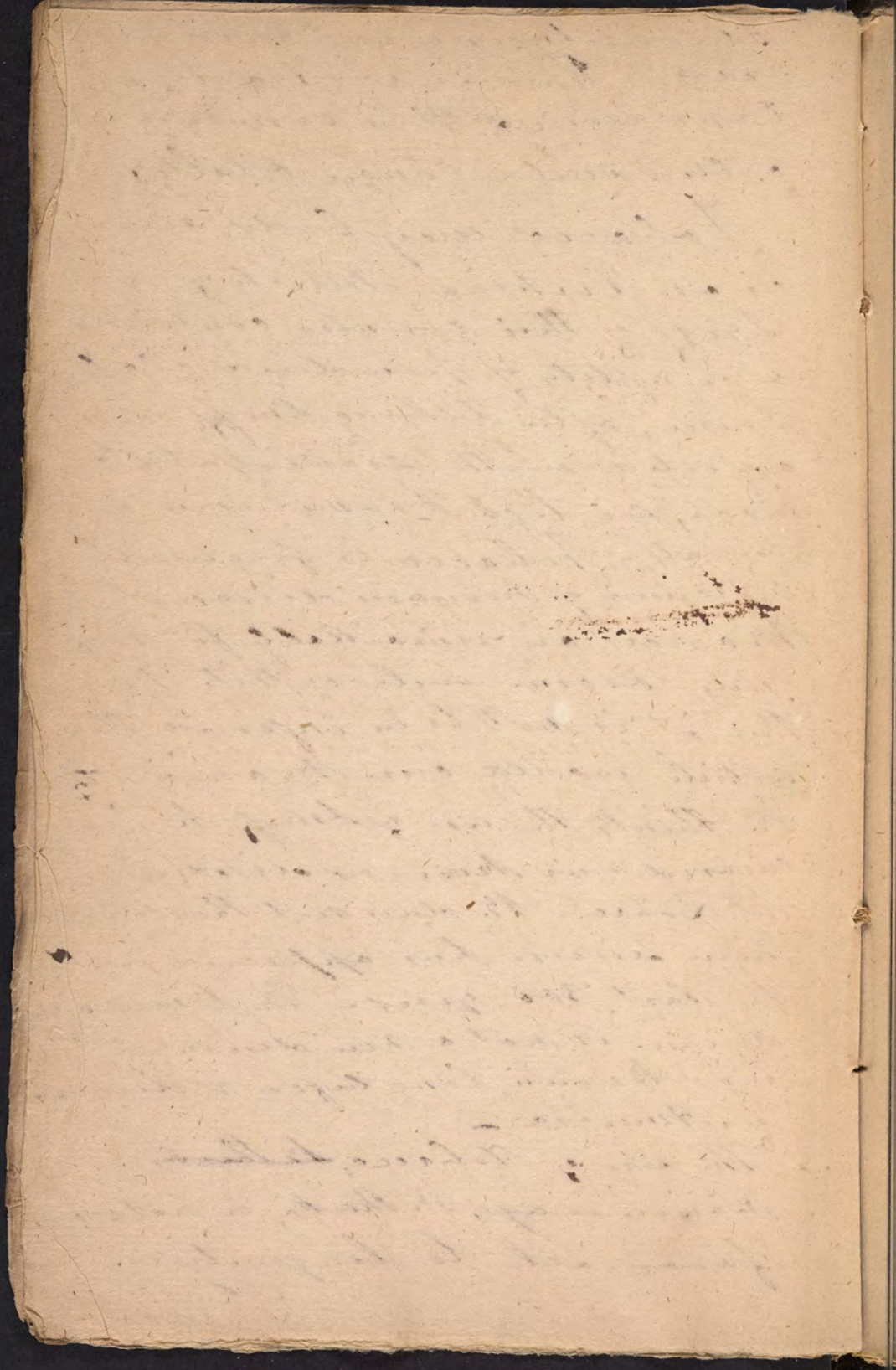
Asarum or Asarabacca

It is one of the most useful of
this class. It is a native
country & is raised in all the
Pulvis



Stimulatory of w Pharece 203
hair. This is w Stracem
Canadense & It is commonly
called wild ginger & Colts foot

Tobacco every body uses
as an Euphine - Much of w
snuff of this country contains
a quantity of powder of glass.
Some, after taking snuff are
affected with sickness at sto-
mach, vertigo & sometimes colic
diseases - Tobacco is frequently
the cause of nervous diseases -
Maniacs are remarkably fond of
snuff & some will eat it. From
this it is not to be inferred this
article would cure Mania. ~~It~~
B. thinks the use of snuff has ^{not} in-
creased our nervous diseases of
Mr Lohra - B. does not think our
new disease has appeared within
the last 300 years - The Venereal
disease is not a new disease - It
was known long before w discovery
of America -
The use of Tobacco, ~~he thinks~~ in
various ways, B. thinks, is not un-
favourable to longevity -



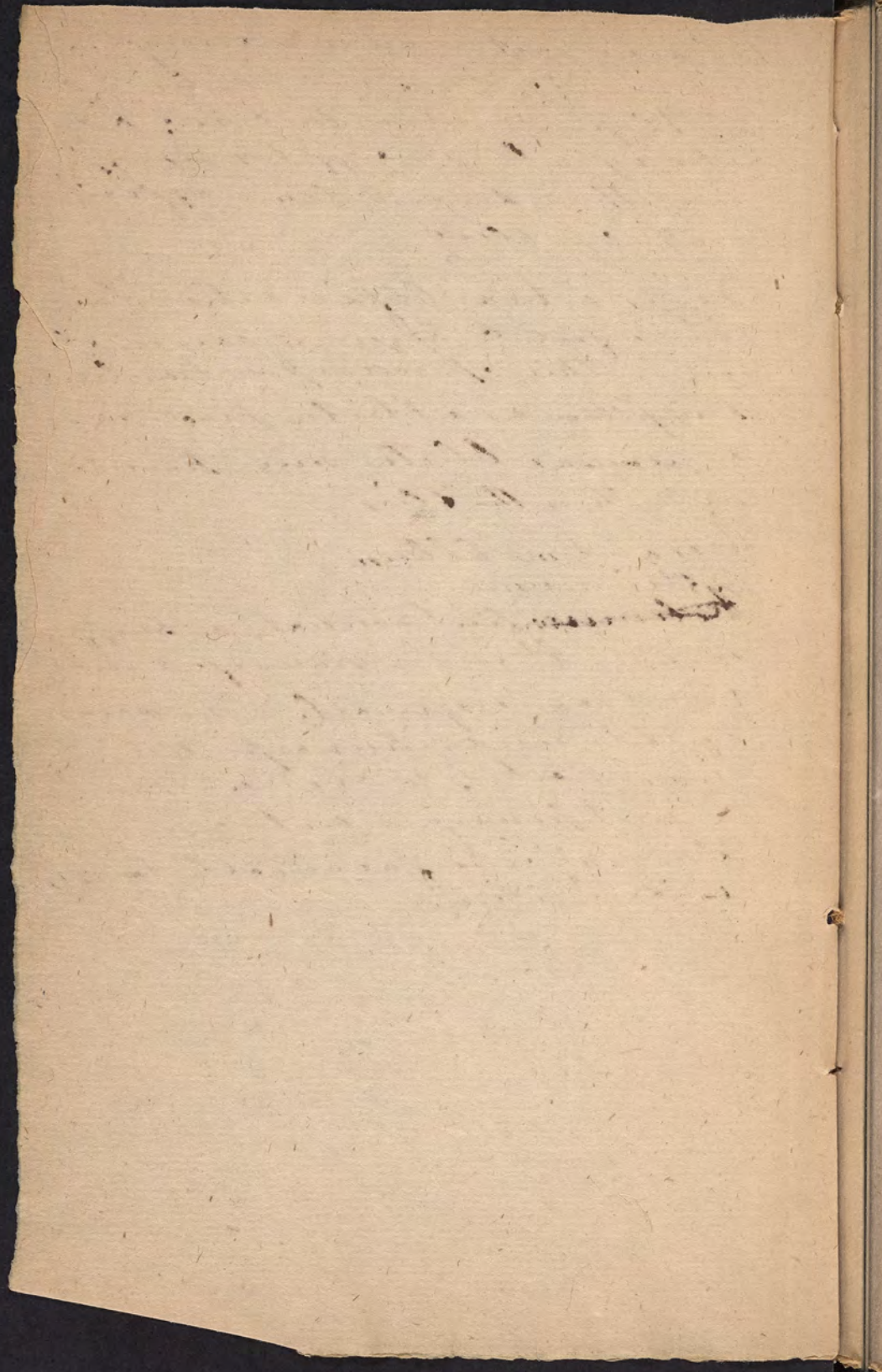
Tobacco will however destroy 204
we view if it do not shorten life
Dr. Hope mentions the case of a man
who, upon leaving off his snuff
was, three several times affected
with apoplexy.

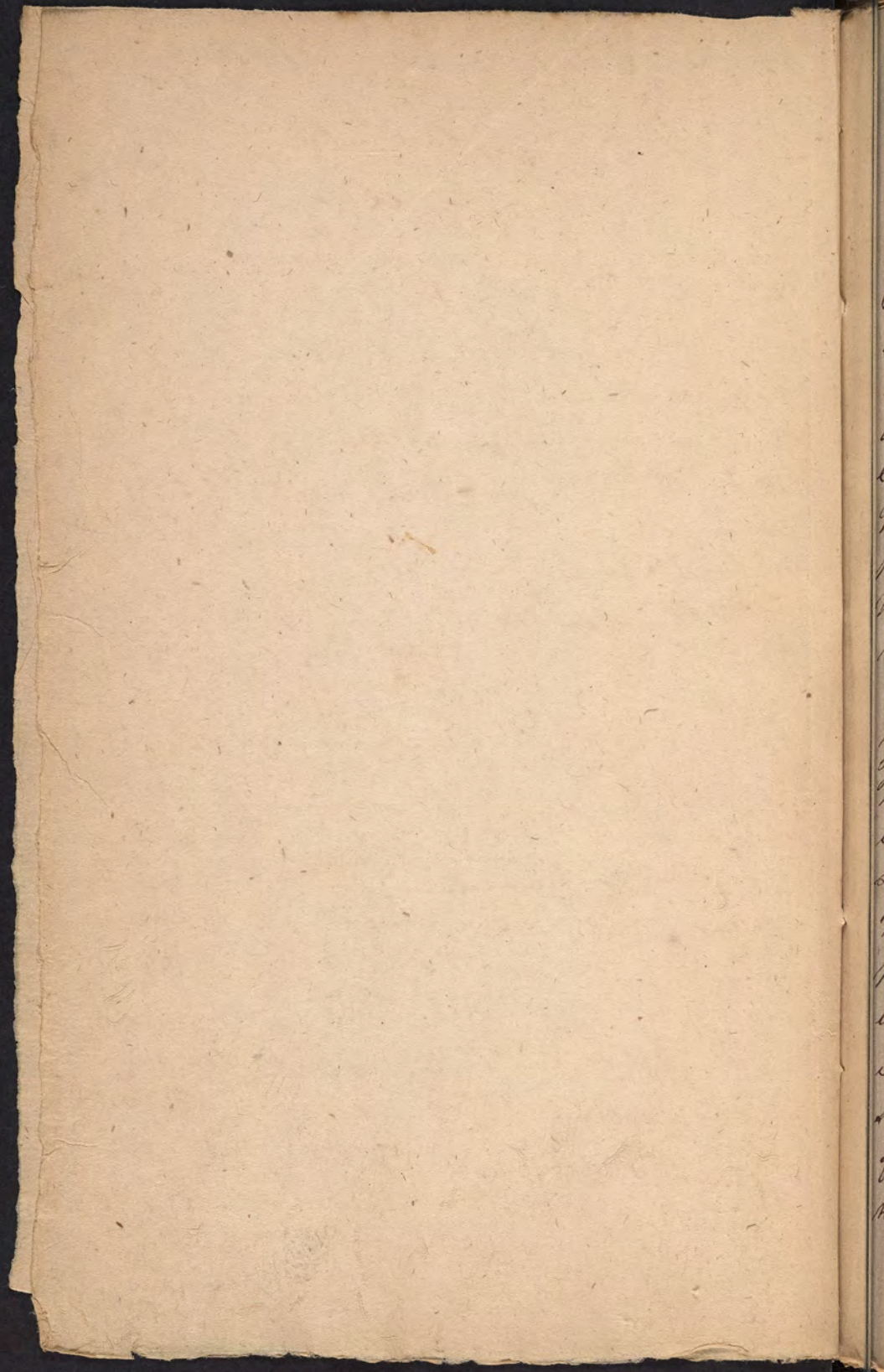
Euphorbia Officinensis - This
powerful & acrid can in its
use - This spread upon the skin
& applied as a blister produces
a permanent blister more perman-
ent than the flies -

Veratrum Album -

~~*Hydrocotyle*~~

~~*Hydrocotyle*~~ *Antennaria* a snuff
weed - It is a powerful emetic
the odour is agreeable - The sneezing
quality resides principally in the
inner part of the flower - This is
a most powerful emetic -
Sneezing is a favourable symptom
in some diseases





Lecture - Feb. 16¹⁷⁹⁰

of the Salivating Medicines
or
Sialagogues.

They are divided into external
& internal - The latter are certain
acid medicines which when
applied to the mouth produce
an increase of saliva. They re-
lieve rheumatic congestions -

The principal is the Anthemur,
pyreticum or Pelletory of Spain
The root is used - Imperatoria
is another. Horse radish -

One of the most powerful is
Lythronium fraxinifolium
The stimulant property resides in
bark & seed - The other
species is called

These when taken internally
produce salivation. B. Ros
used it - The Polygala Senega
is mentioned as an external
sialagogue - It is equal to any
of the above & will answer whenever
medicines of this kind are necessary

[Faint, illegible handwriting on aged paper]

[Faint handwriting visible on the right edge of the page]

207

of the Internae salivary
Medicines

Mercury & its preparations
w^{re} great siccalgogues - This
however is sometimes an a-
ternae siccalgogues -

This Argentum vivum is
inert with respect to the body &
is tasteless & without smell - It
says Mercury is absorbed on many
occasions - It was formerly
customary to take Amalgam
drawing Mercury - It, formerly was
taken to assist in dancing & was
not infrequently seen in w^o drawing
room deposited there by some
fair one - Morrus ~~to~~ saw this
himself & sometimes could de-
termine from what girl it
came -

To render this medicine
active it must be either pu-
chancealy or chemically
changed -

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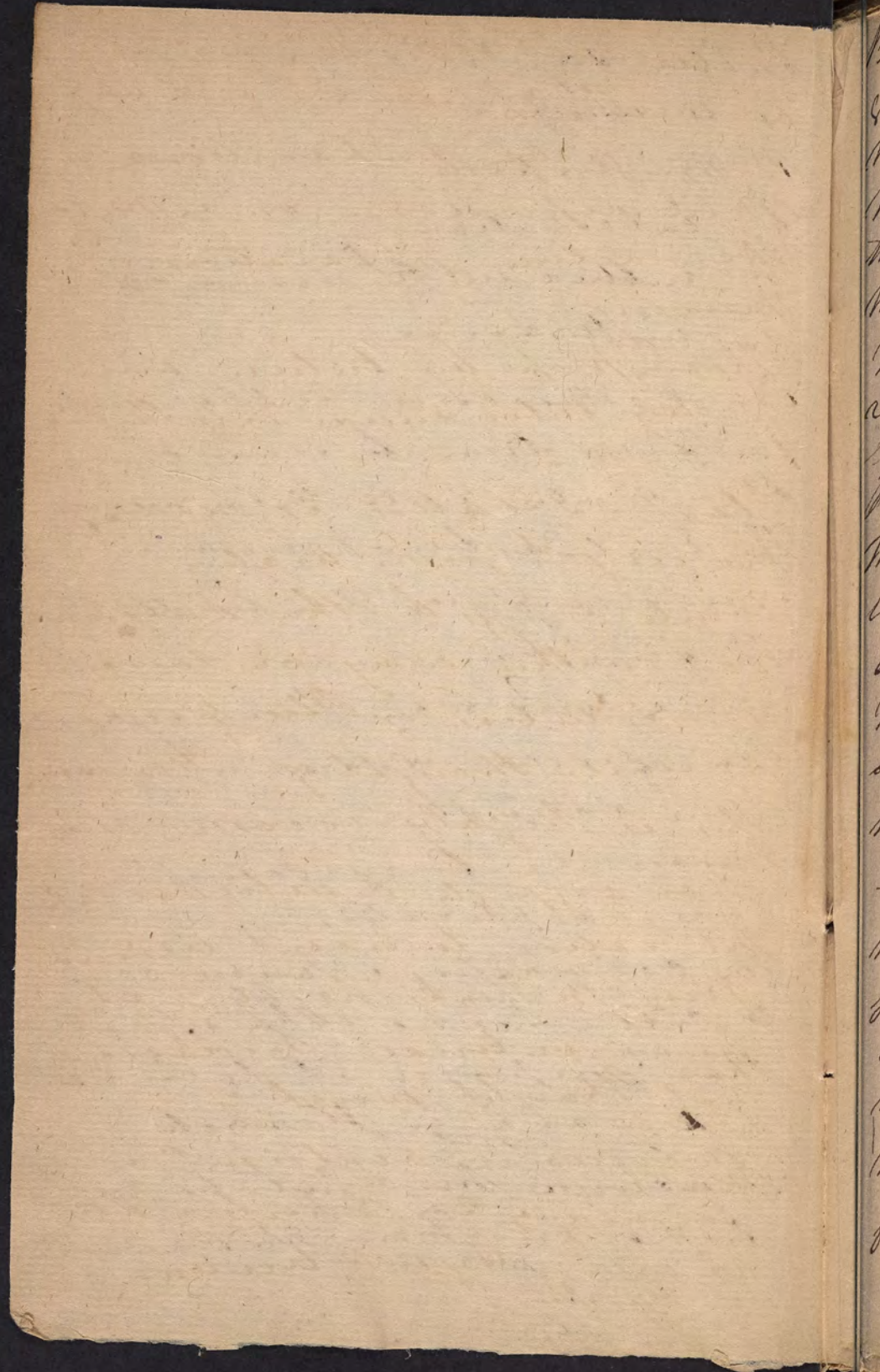
Cullen says it may be changed
in 4 ways -

1. By vapour -
2. calcination
3. rubbed with viscid substance
4. with acids

Crude Mercury kept in water
for some time becomes charged
& in water will kill worms
The water is black from Mercury
which may possibly be deposited
The fumes of Cinnabar or ve-
neral ores, have been serviceable
These fumes drawn up & then
have salivated very readily
Mercurial fumigations are
actual applications.

The calcination of Mercury according
to Cullen has no other effect
than preparing it to be more
active on the stomach

Mercurius Precipitatus super
is nothing more than a oxide
of Mercury



B. gives at first $\frac{1}{4}$ or $\frac{1}{5}$ of
& with opium: It is a very
manageable preparation.

More dependance on eximia
than active preparations of
Mercury -

These prep: by tuture are
readily introduced into the body
by friction.

Plank's solution is made of
Mercury & Gum: Arabic.

White of Egg & other substance
act in this way on Mercury

This solution of Plank is not
so well thought of - For worms
this is highly recommended

For a gargle & external ap-
plication to recent venere
Juss B. thinks highly of it -

As an internal Medicin
not thought much of -

Mercurial ointment is
formed of 2 or 3 parts of Lard
& one of Argent: vivum

A schinus which has
been blistered ~~is~~ may be
advantageously dressed by
the application of Precipitated
ointment after excision
has been removed.

make the best Mercury
 The Hortis is made of equal
 parts - The Ingredient of Tur-
 pentine not good - The
 ointment made of lard will
 do for winter In summer
 put it to be added -

Rancid oil is said to con-
 duce to more Mercury by force
 After rubbing good Mercury
 Salivation is induced in general
 in 3 or 4 days For some in 24 h
 This ointment should be rubbed
 in for 15 minutes -

Lecture - Feb. 17

Salivating M. continued
 Unguentum Nitratum - or Citrini
 In tania capitis, Itch, &c or unguent
 The external use of this medicine
 has induced a long & continu
 salivation - Mercurial oint
 B. never used it - The Saliva
 preparations are different ac-
 cording to the acid used -

[Faint, illegible handwriting on aged paper]

The Mercuriat of Mercury
or Corros. Sub: was not much
used by Cullen - Mr. Forman
experience with it thinks highly
of Corros. Sub: It is more man-
ageable than almost any other prep:

Dr. Ward's white drop is
prepared with nitric acid
sol: Vol: Ammon & Quicksilver
silver, all exposed
to heat - The pure salt is
to be dissolved in rose water
Two drops contain less than
half a grain of Mercury - Two
drops are to be taken for a dose

The French are averse to the
internal use of Mercury with
nitric acid.

Merc: emet: flavus or Turbith
Mineral is an acidic prep
& must be given in doses
1 to 4 gr - 4 gr is generally an
emetic & a very manageable
one too - This combined
with Opium excellent in
Dropsy

[Faint, illegible handwriting on aged, stained paper]

[Faint handwriting visible on the right edge of the page]

In both minimal with
decoction of woods determines
to skin

Merc: Phosphorates said to cure
rapidly in form about the puerile
fever or sufficient dose -
Sugar, Phosphate & powder of
Cinnamon a good formula

of the use of Mercury in
particular disease

of Typhlocephalus Inter-
nus - This is generally a
febrile disease - It comes
on gradually, vision is doubt-
less very considerable, diarrhea
sometimes attends as also nausea
& vomiting, pupils dilated &
in Patient frequently dis in con-
vulsions - ~~It~~ This comes

on generally under puberty -
A variety of remedies has been
recommended - Mercury has
certainly sometimes proven
beneficial tho' it has more
frequently failed - It

Salivation cannot be induced
in children under 2 years

[Faint, illegible handwriting on aged paper]

[Faint handwriting visible on the right edge of the page]

Mercury frequently produces³¹⁵
in children a running at
w nose. Profeſſor Jan M.
in 22 Patients & they all died.
This acknowledgement caused
B. never made a cure with mer-
cury. A great acceleration of
growth then came on after a cure
of Hydrocephalus.

2. In Phtthisis Pulmonalis
B. has little favourable to say
respecting this practice.
100 years ago Calomel is said
to have cured in Phtthisis in
Wile. 3^d in w hands of Redcliff
At the expiration of 10 years W.
again became affected with Hydro-
thorax & w left swelled. Redcliff
observed he would not have
his Majesty's two legs for his 3
left Kingdoms & his Majesty soon
died.

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Lecture - Feb. 19th 214

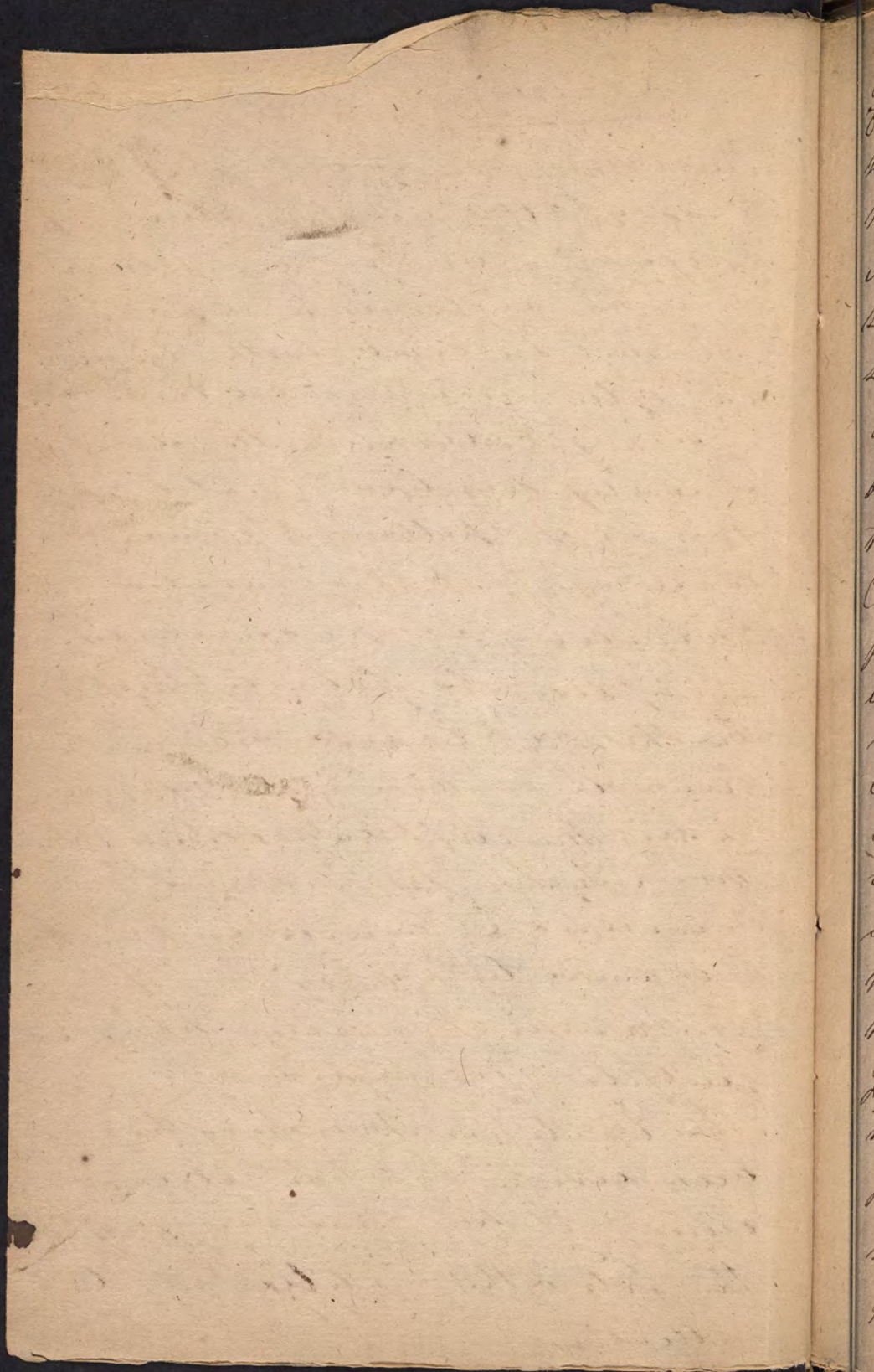
Mercury in discury - In Dropsy 100 years since succeeded by this remedy in curing abdominal Dropsy. Calomel in comb. with Sgule has often been useful in Dropsy. During salivation the discharge of water has been great & as soon as wth spitting stopped the water again accumulated.

Mercury is peculiarly adapted to febrile Dropsies.

In these wth lancet should precede wth use of Mercury. B. says Mercury sometimes does much harm in Dropsy & a mercurial course is sometimes followed by Dropsy.

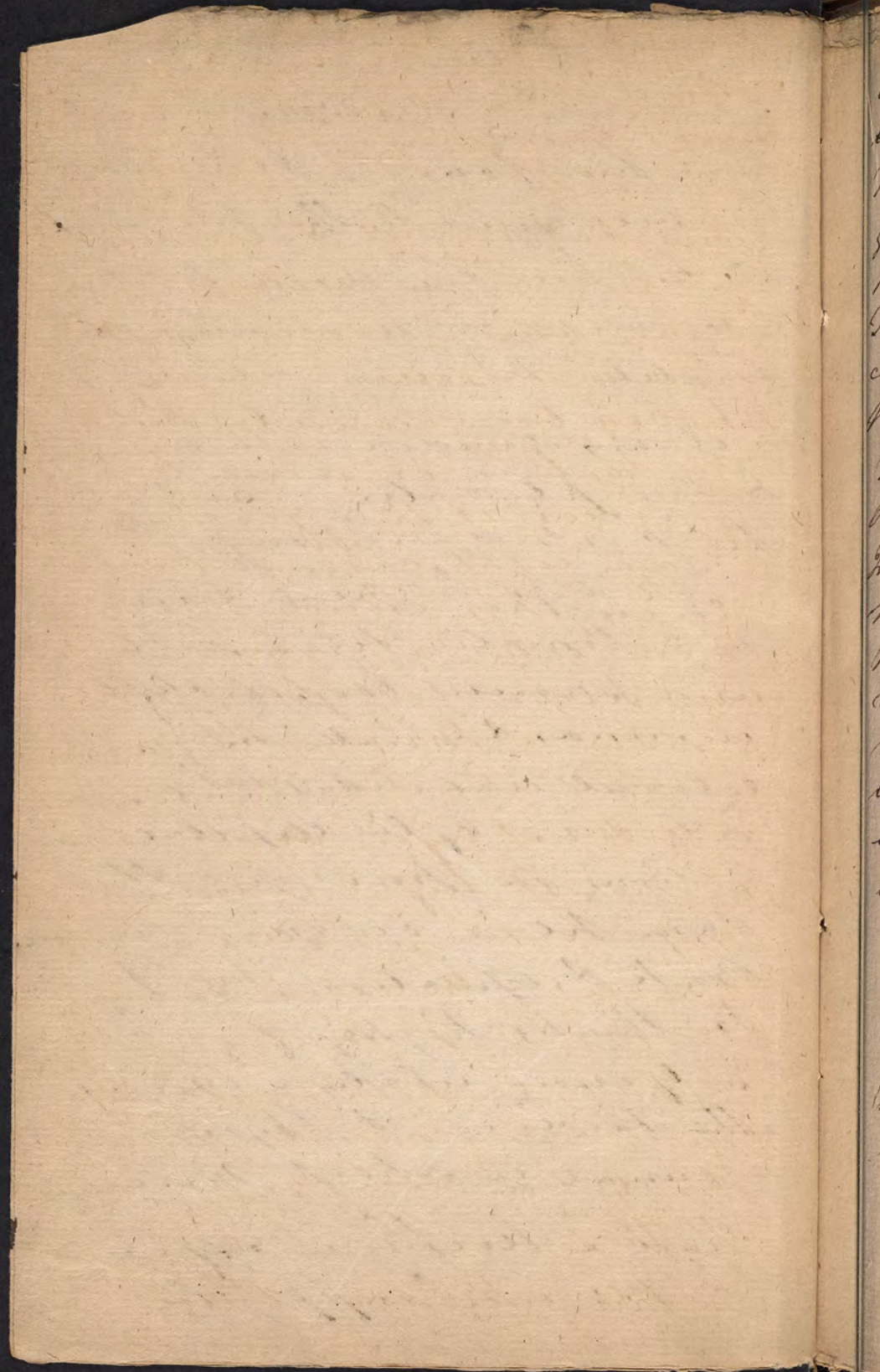
In Jaundice Mercury has frequently succeeded -

In Epilepsy Mercury has often been used but has seldom cured. It has however suspended the fits & this entitles it to attention -



Effusions in the ventricles ¹⁸¹⁵
of the brain of Epileptic Patients
have been found - When Epilepsy
has been cured Dr. Ferrius thinks it probable
it has been in cases of this kind
by means of promoting ab-
sorption.

Tetanus divided into idiopathic
& symptomatic - The latter
the most dangerous - Dr.
Clark says he never cured
symptomatic Tetanus. He
used Mercury largely - After
wounds & such he gave
calomel until salivation was
induced - After capital op-
erations he pursued the
same plan occasionally giving
Bark & opiate - This Practice
Dr. Ferrius thinks highly of - Dr.
J. Young relates a case in
the Medical & Physical
Journal in which Mercury
had a decided effect.
In this case suppression quin



attended & was supposedly ²⁹¹⁶
wound being owing to Opium
This not the case - Hot skin
generally precedes salivation
B. had a case of threatening
Tetanus which was completely
cured by Mercury - Has Hydro-
phobia been cured by Mercury?

This has been asserted by many
Physicians in the affirmative.
In some light cases B. thinks
Mercury has cured & as a
prevention it would be
very proper to exhibit this
remedy - Mercury should
be given at a time ~~not~~ sufficiently
early & not before, as to affect
4 months before the usual
appearance of the disease, after
the bite of the rabid animal

In Cynanch Maligno Dr
Duncan exhibited Mercury
with good effect - The Pa-
tient has had one evacuation
& that by the mouth -
Cullen pursued the same
practice

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

Cynanche Trachealis is an ⁽²¹⁷⁾
of the most formidable diseases
It is divided into symptomatic
& idiopathic - This disease
is produced by the same matter
as that which produces
yellow fever - in some instances
Calomel may be used when
this disease is protracted &
when in adults -

In Pneumonia it is seldom
necessary to use Mercury
tho' it is sometimes -

Practitioners have frequently
used Mercury when this
disease has occurred on
Mercury ground -

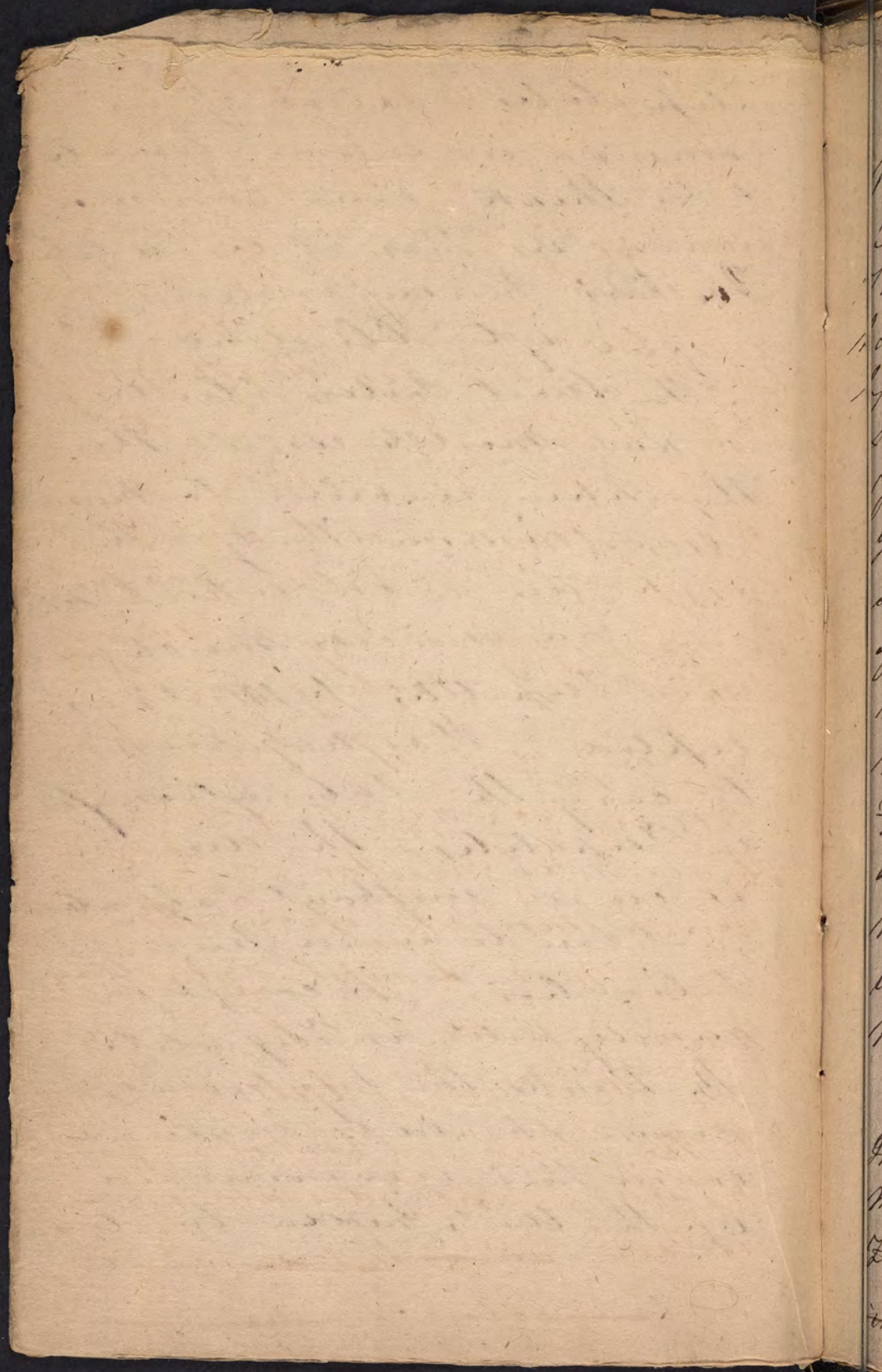
In Scrophula Mercury
has often been beneficially
used -

In Bronchitis Mercury
has been used to advantage
It is now almost abandoned
of & corrected by his theory
of this disease -

[Faint, illegible handwriting on aged paper]

218

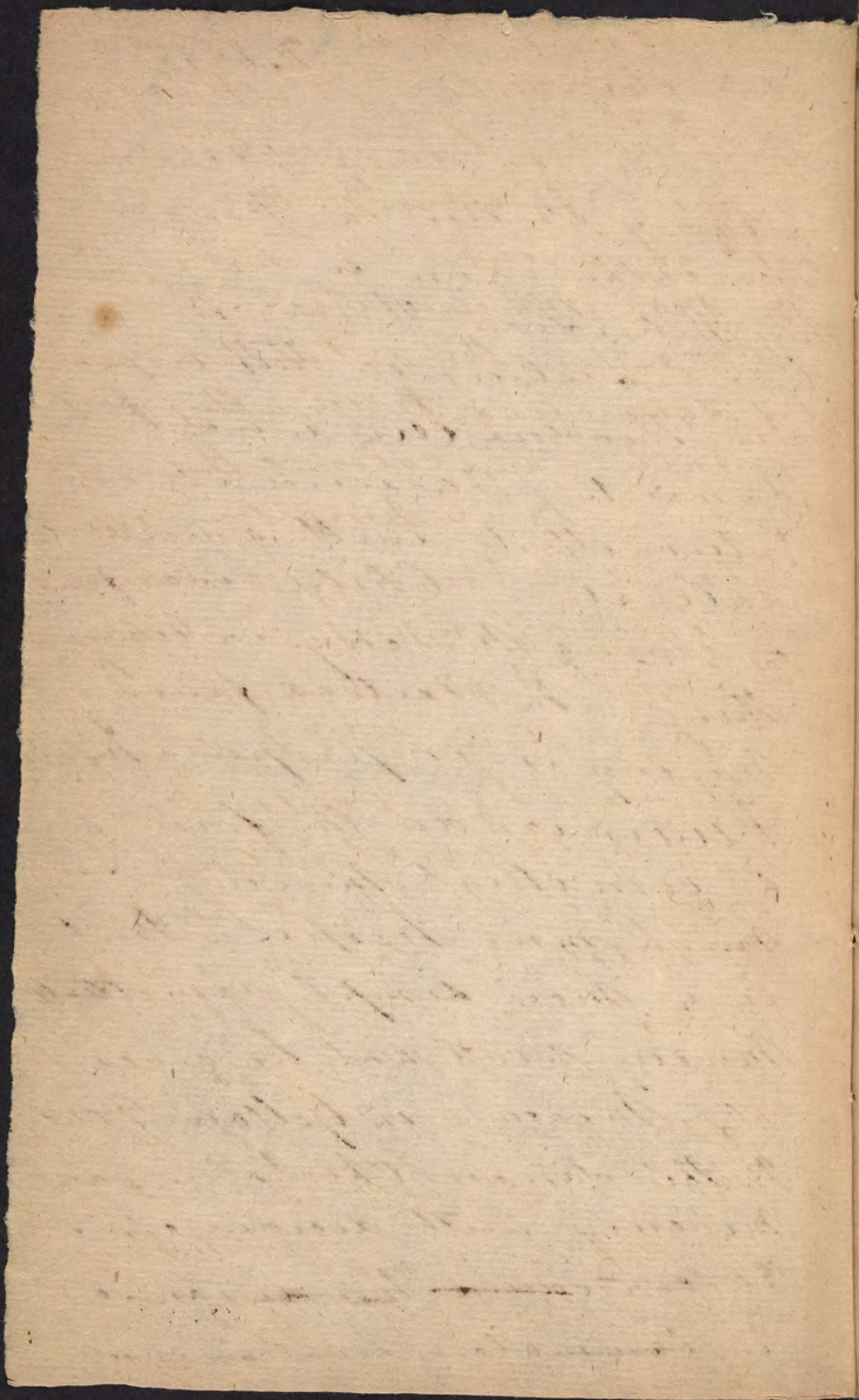
Hepatitis - extremely
common in warm climates
& B. thinks more common
among us than it used to be
For this Mercury is decidedly
useful after bleeding -
In the West-Indies bleeding
is not much used - then
they have recourse to Mercury
almost immediately - There
is no disease in which Mer-
cury has done so much good
as in Hepatitis, Pyloritis ex-
cepted - It is not necessary
to carry the Salivation far
in Hepatitis - The disease
is cured without Salivation
Great care to avoid profuse
Salivation - A cough fre-
quently attends Hepatitis
B. thinks the Mercurial
course should be continued
longer than recommended
by the West-India writers -



Lecture

Feb. 20th 1819

Mercury in diseases continued.
And of its use in Fevers -
The enthusiasm in this respect
has subsided - It was first used
by Paracelsus in this respect
Sir Theodore Denham was O. to
James I. - He used it in
Intermittents with a view to
salivate - Child was fond
of giving Mercury in every
thing - In Tertian fevers
Mercury is improper - In
Fevers under the form of
a remittent Mercury is
much more proper - But
in a more simple remittent
Mercury need not be given
of Mercury in Yellow Fever.
In this disease Chisholm gave
Mercury with decided effect -
~~He considered this disease as~~
~~inflammatory sometimes affe~~



Partial view of handwritten text on the adjacent page, including characters such as 'C', 'h', 'T', 'c', 't', 't', 'c'.

Chisholm considered Mercury ¹⁷⁷⁰
almost infallible - His ^{successful} practice
has however been questioned -
He never found it useful
but injurious -

In 1793 Mercury was used in
this disease tho' not with a view
of salivating. B. says, they fre-
quently gave Calomel tho' with
a view to its purgative effect.
Calomel in Vera Cruz is considered
as entirely improper in Yellow fever
B. says, out of 4 or many who
took Mercury in Yellow fever
not more than 8 or 10 have
died after a salivation was
induced. This is his experience
The practice of salivating is far
more of a most important dis-
eases - B. lost a Patient in
Yellow fever aged 18 days -
It died with black vomit -

In Dysentery - In many
cases of this disease Mercury ^{proper}

[Faint, illegible handwriting on aged paper]

[Faint handwriting visible on the adjacent page to the right]

D^r Clark of England (221)
used Mercury in this disease
with decided good effects.
The dose from 5 to 10 gr Calomel
with opium every night
By this practice all except
one, recovered. The dose of
the Calomel should be in
proportion to the violence of
the disease - B. has frequently
combined with ʒ Calomel
a portion of Emetic Tartar or
Opocacuanha - If Dysentery
assume the form of malignant
fever Op. should be used
largely - Dr. S. Duffield
~~has known~~ knew this
practice of giving Mercury
followed 48 years ago.

In 1794 B. saw two cases
of Dysentery in which Mercury
killed the Patients the one
by hemorrhage from the bowels

[Faint, illegible handwriting covering the majority of the page]

[Faint handwriting visible along the right edge of the page, likely from the adjacent page]

the other from a crisis of
a low -

When the Dysentery is com-
plicated with Scurvy Mercury
is altogether improper -

In 1748, 400 troops took Mercury
& all who were salivated died
The Chronic state of Diarrhoea
is happily treated with Pruss
of Am. in Rheumatism

Mercury is sometimes used in
this disease in small doses
at night & next morning a Day
in union with Gum: Guaiac
excellent.

Gout has never been cured
by Mercury.

In Gynaecorrhoea & Dyspep.
have been relieved by Mercury
Dr. Potter of Baltimore has
used the Blue pill with ad-
vantage in Dyspepsia -

In Typhus fever Mercury to
the slight salivation, has cured.

[Faint, illegible handwriting on aged, yellowed paper with a torn left edge.]

[Partial view of the adjacent page showing handwritten text.]

Lepra - Can say little from ¹⁸²³
experience - From analogy it
may be good -

Dr. Hillary recommends Astinoy
in Lepra

In Trombasia a Gaus Mercury
is said to have been good - Dr
Hillary gave Mercury in this
disease. He gave Calomel only
objecting to unctious -

Stygalism should not be raised
high - The history of Gaus much
wanted - Dr. Tucker found
Mercury completely successful
in Gaus in Trombasia -

~~Dr. Tucker~~

XXXXth P. M.

reference to the
of the year
the following
in the year

the year
to the year
the year
the year

the year
the year
the year
the year

the year
the year

(224)

225.

226.

227.

228

8
Lecture

Feb 23¹⁷²⁹

Mercury continued

Sibens nearly allied to Syphilis

This disease extremely common
in Canada some time back

Mercury has sometimes proved
useful in Scrophulas

Cancer is said to have been
cured with Mercury by Dutch

Mr Adams says the only case
of cancer in which Mercury
is useful is immediately after
an operation for removal of
a cancer

Mercurial drugs have been
recommended in Amouris

Deafness is sometimes cured
by Mercury

P^ora or P^och. Mercurial
preparations excellent in it

The sing^l Citrinum is preferable

It ~~is~~ is apt to injure the
Liner - Ten yr Course sub. to
It is water also cures it. This

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

1730

remedy sometimes salivated
by its external application
The disease produced by the
Rhus radicans, deserves a
name from Morocajets. &
is cured by a weak solution
of Corros. Sul. in w proportion
of about gr 1/4 to ℥j - N. says
he is the discoverer of this
remedy - Mercury not only
cures this disease but renders
the skin less susceptible to
take the disease - This Poison
viz N. has given in Othitis
Troublesome eruptions after the
application of blisters, which
are extremely apt to itch,
have been cured by Corros. Sul.
Colica Pictorum has been
successfully treated with
Mercury -

Mercury the most important
medicine with which we
are acquainted. It requires
much management in its ex-
hibition. Mercury with Turp
entine has its powers enhanced

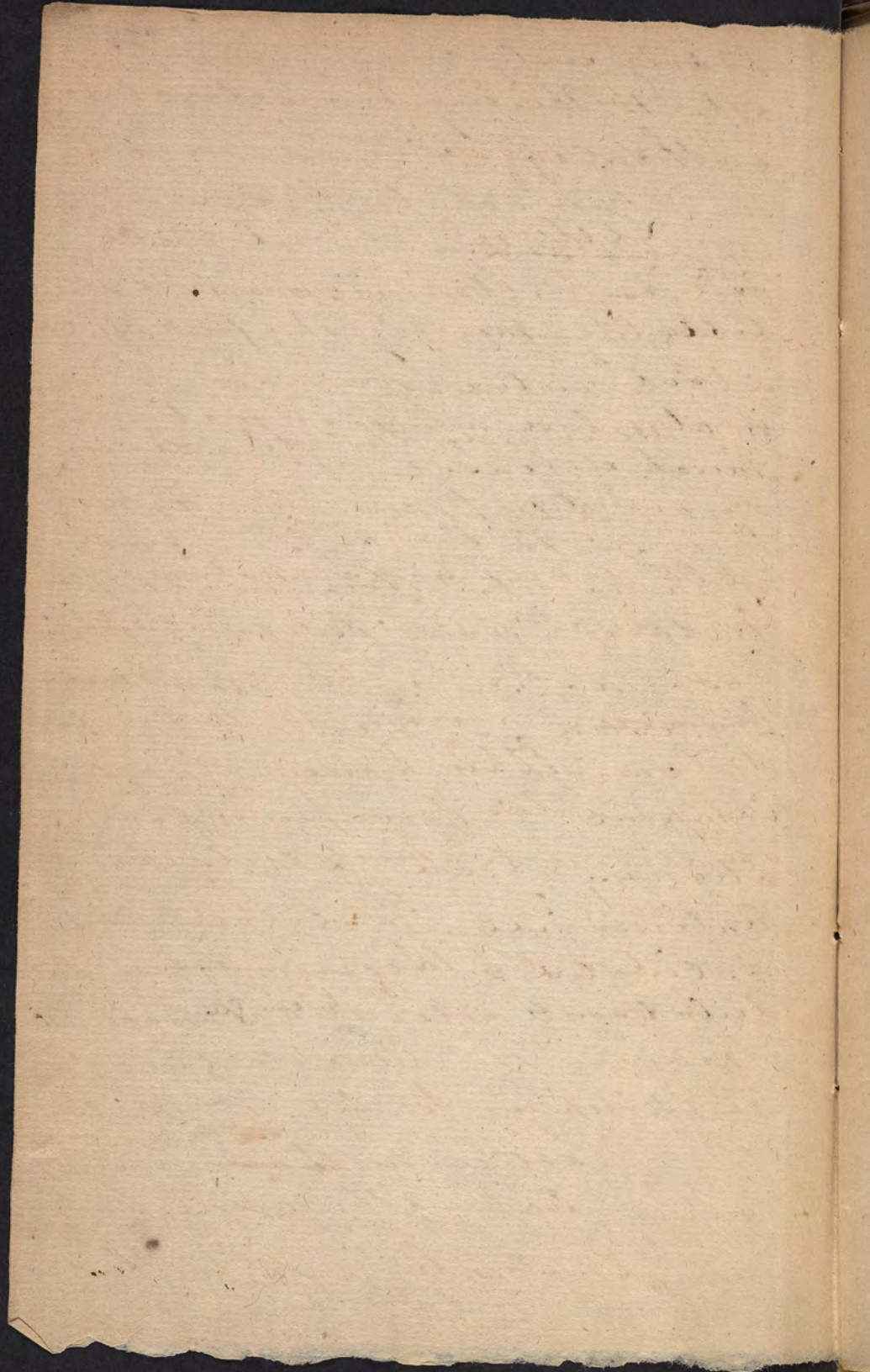
[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]

Bark will cure Fever, (231)
after Mercury has salivated
without effect -

Lecture - Feb. 24th

D^r. Hamilton is said to have
detected Mercury in "Milk" of
a salivated woman - Mercury
is absorbed when the system is
much diseased. Mr. Thornton's
observation proves the same
thing. B. thinks the powers
of the Constitution, in some
instances, have cured Syphilis.
Took notice of Hunter's Theory
& related facts which prove
its correctness -

Campden Conium - Of:
Stramonium, Lead, some of the
Antimonial Medicines have
salivated - Some animal
substances, as the Yellow-Gum salivate



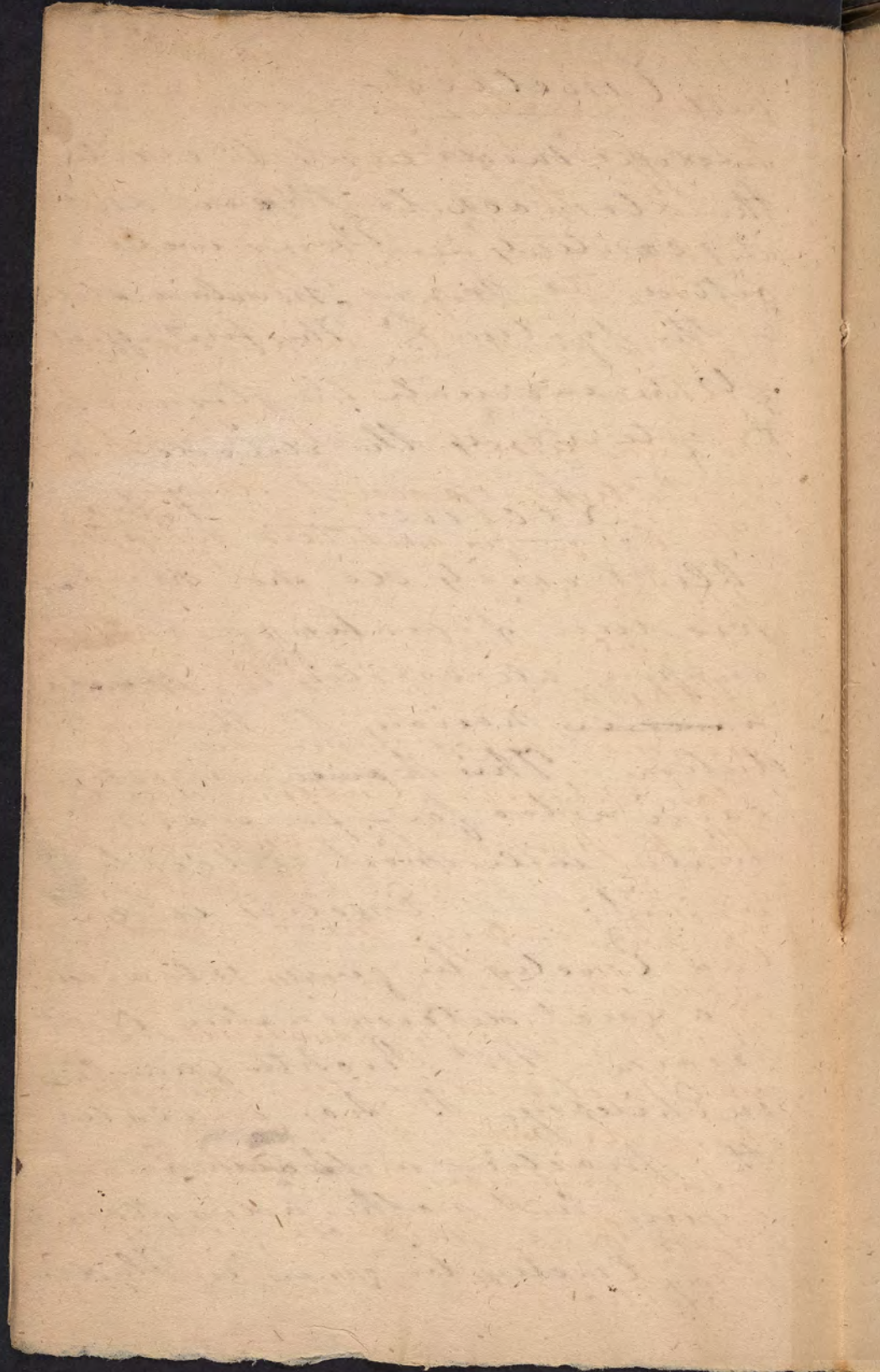
Emetics.

Such Medicines as excite
the stomach to throw out
its contents - These were
fitted to many morbid states
of the system - The first effect
of it to evacuate the stomach
of afterwards the duodenum

Lecture

Feb 25th

All vomits do not necessarily
produce sweating - Some
suppose all emetics are ~~to~~ ~~marked~~
~~marked~~ noxious to the consti-
tution - This however is often
carried too far - for warm
water will most certainly
vomit. of Emetics in disease
Can Emetics be given when there
is a great determination to the
Brain - Mr Richter gave them
in Epilepsy - B. has emetia
the practice without any
injury but rather advantage
May Emetics be given in Hydro-



cephalus? No. In Sen- (233)
gutter Emetics sometimes good
In different forms asthma &
given - Ipecac: in spasmodic
asthma has been used with
great advantage. Rucinus
recommends E. in humoral
asthma -

In confluent Amale Pox when
w Patients cannot discharge
the large quantities of phlegm
ʒj Ipecac:

Ipecac: will bring on ~~the~~
Asthma - Dr. B. Robinson
recommends vomiting in
Haemoptysis - Cullen did not
think proper to continue this
practice -

In Dysentery Ipecac: in small
doses has been recommended
It was given in small doses -

In Mucous excretion this has
been recommended -

Haemorrhages are not better man-
aged by any medicine, sac: Salt's
excepted, than Ipecac:

[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page. The text is mostly obscured by fading and ink bleed-through.]

Then belong a general ⁽²³⁴⁾
Laxing & Antispasmodic power
in *Spicac*: Antimonial, do
not ever rise so certainly in
returine Hemorrhage as *Spicac*:
Digitalis seldom sweats tho'
excellent in returine Hemorrhage
Perhaps these remedies act by
creating a new action in the
system - When lead will not
produce the effect add to it
Spicac: In *Prubs* advancing
to suppuration, Emetics may
be given with happy effects -
In *Albernia humoralis* vomity
not to be given - In *Jaundice*
Emetics indicated - Then given
while the Patient is in the
warm bath - Persons bitten
by Vipers have been cured
by Emetics

Of particular Emetics
1. of vegetable Emetics
These the most important

Lecture -

P.M.

Feb 25th -

Duncan's division into
Emetics in rheumatism -

Asarium Europaeum - This
has frequently employed as
an Emetic - Linnæus thought
it might be introduced
into the shops for Speac.
This not correct - The leaves
as well as the root are used.
This with us is called *A.*
canadense -

Erigeron. This has cured
Intermittently by its external
application - Good in w. legs
of ~~Horses~~ -

Nicotiana - This is a
Narcotic emetic -
The external application
of Tobacco, produces vertigo,
fever, temporary insanity,
a vomiting of blood & con-
vulsions -

235

When large quantities
of Laudanum have been
taken the external appli-
cation of Tobacco has proved
efficacious

Ipucacuanha - This ~~is~~
the most important of
Emetics - It is a species
of *Callicocca* - The root con-
sists of Bark & Medullary
part - The property in
cortical part - This lessens
the power of opium - It does
not make a very powerful
impression on the stomach
It has been recommended
in Dropsy - In this disease it
has been used in the form of
Powder powder - Swelled
limbs after Dysentery have
been cured by it. Clark for
many years has trusted to
a weak infusion of *Ipucac.*
in Dysentery. B's formula
Ipucac: gr iij Op: gr ii & Cretae
+ xlv. Inf Pulv: viij - Give
4 powders in 24 hours

This is highly recommended
in Dysentery & deserves a trial
The good effect of this formula
does not depend on a purgative
quality -

In Cyranach Trachealis B
has given Opi. with colome
The wine is made of Zij ʒ
ʒ root & wine Hij - This
root gives out almost all
its virtue to wine - Zij
the dose - Speac. in dose of
ʒi will often excite vomit-
ing - Speac. in union
with Emetic Tartar is fu-
quently exhibited - Two
ʒr will sometimes produce
considerable vomiting - Dos.
of good Opi. ʒv. ordinary
Speac. ʒr xii -

Spirea trifoliata. This
abundant in many parts
of the United States - The
root of this consists of bark
& wood like *Speac.* This
Spirea requires a larger quan-
tity than *Speac.* Its dose ʒr xx
A tonic property resides in
this as in *Speac.*

Florus take this as a 230
Tonic - In Kentucky there
is an other species which
operates in half y^e dose
Scilla - This a native of
Spain - It grows on the sea
shore - This well prepared &
dry, when it loses much of
its weight - Dry w^{ch} is, the wet
2j

Sax. vomitoria - This a native
of Virginia - It is held in ven-
eration by the Indians. It vomits
as soon as it touches y^e stomach
This also diuretic - This is
trusting on acct. of its relation
to the Thea - The Indians take
before entering on business of
importance

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Lecture

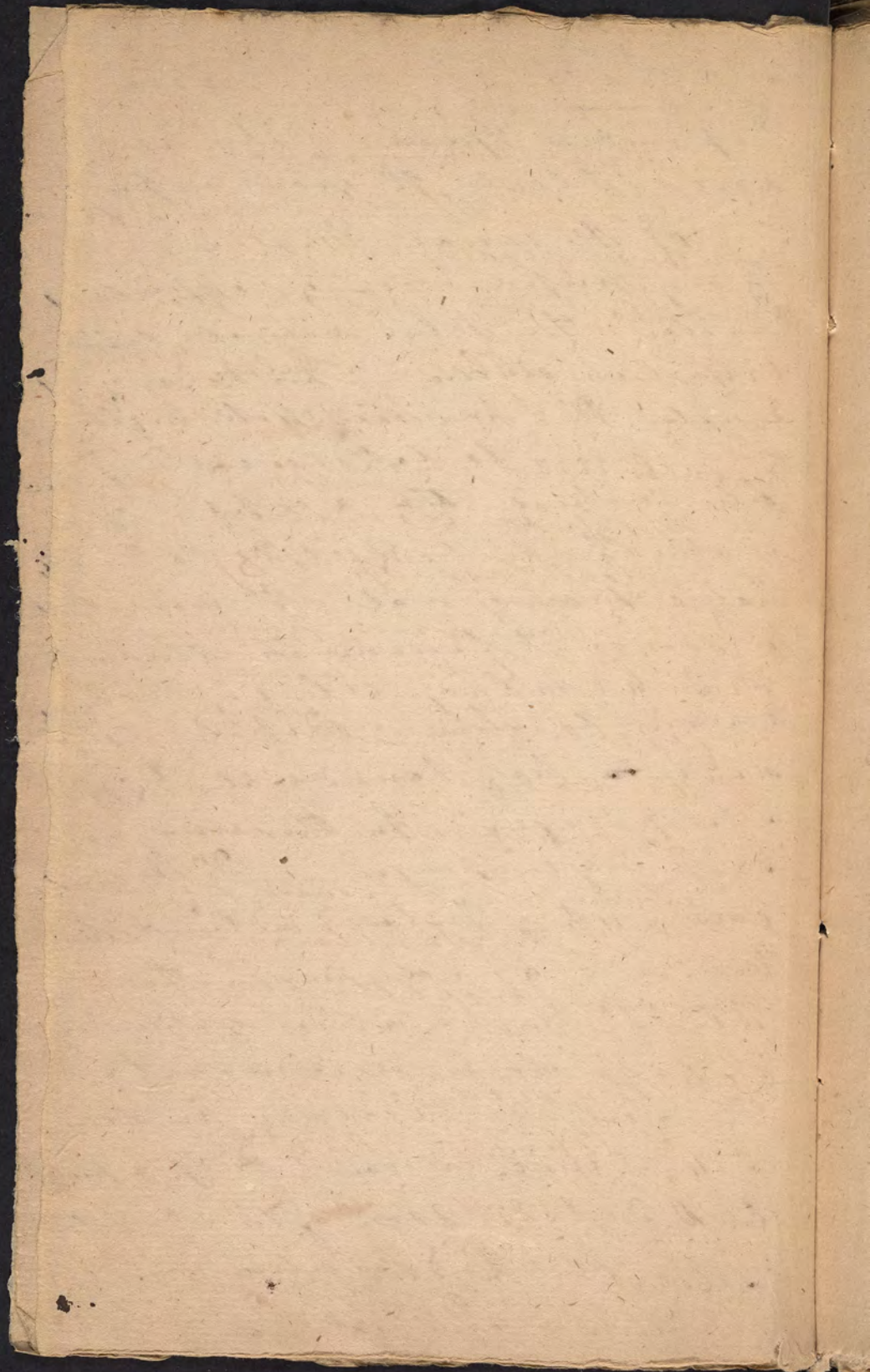
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Feb 9 26

Euphorbia Spicac. This an
acid plant - It grows in form
of Mineral Emetics -

Many preparations of Copper are
Emetic - The Blue vitriol, sulph.
Copper, is emetic - This kind of
emetic Dr Simons spoke highly
of - Previous to taking a dose of
blue vitriol the a cupful of
water the Patient is to take a
half a pint of water - It vomits
as soon as it touches the stomach
It is a manageable emetic ac-
cording to him. Dissolve half
dr. into half pound water & give
a teaspoonful - In this way B.
says it often purges - Dr Manist
gave ʒij of Tartar. Emetic & blue
vitriol a a dry vomit -

All the preparations of Mercury
in large doses will vomit -

The Sulph. Mercury in doses
of 4 gr will vomit & if a purge
be not taken soon after it will
scurate - In Europe it is given
in *Scrimia humoralis*



B. has prescribed
this in doses of ʒ ʒ ʒ ʒ ʒ ʒ
in Angina Maligna
In union with the
Squill is given with
advantage.

Vitriolum album or Sulph.
Zinc: This has been fre-
quently used on acct of its
propriety in vomiting
In violent cases ʒʒ to ʒʒ
In instances where poisons
have been taken The ac.
preferable because it
is in some measure
an antidote to Opium.

In vomiting in fevers a weak
infusion of Mustard is some-
times preferable to any thing
else.

Dr. Moreley's formula

Vit. alb. ʒʒʒ alum ʒʒ
boiling water ʒʒʒ ʒʒʒ

Mix bet the solution stand
till cold - Dose ʒʒ - Per Child ʒʒ

The Oubis Antimonialis
supposed very ~~to be~~ nearly allied
to James' powder
~~this James' P.~~

1238

This formula is said to succeed
better than any other of the disa-
greeable effects of the mineral Emetics
This vitriolic solution has done
much more good in Phthisis in
the hands of B. than any other remedy
Mostly recommends it in Dyspepsia
The blun. may sometimes be left
out on acct of its purging - In con-
sumption it had better be left out
or decreased -

Antimoniated
of ~~Antimony~~ Tartar Potasse or
Tartar Emetic - First appeared
in 1620 - This soluble in hot &
in cold. More so in the form of its
degree of solubility is a proof of its
purity - It is decomposed by earths
& alkalis Its dose from ʒi to ʒss.

In decided cases sometimes preferable
Dissolve ʒss in ʒviij Syin a table
Spoonful every 15 or 25 minutes
Dr James' Fever Powder is
supposed by some to be composed
Antimony calcined, a little arsenic
oil ^{& salt} & haire it in Nitro -

From Pearson's experiments this
powder seems to consist of Phosphor.

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of lime & antimony -

1239

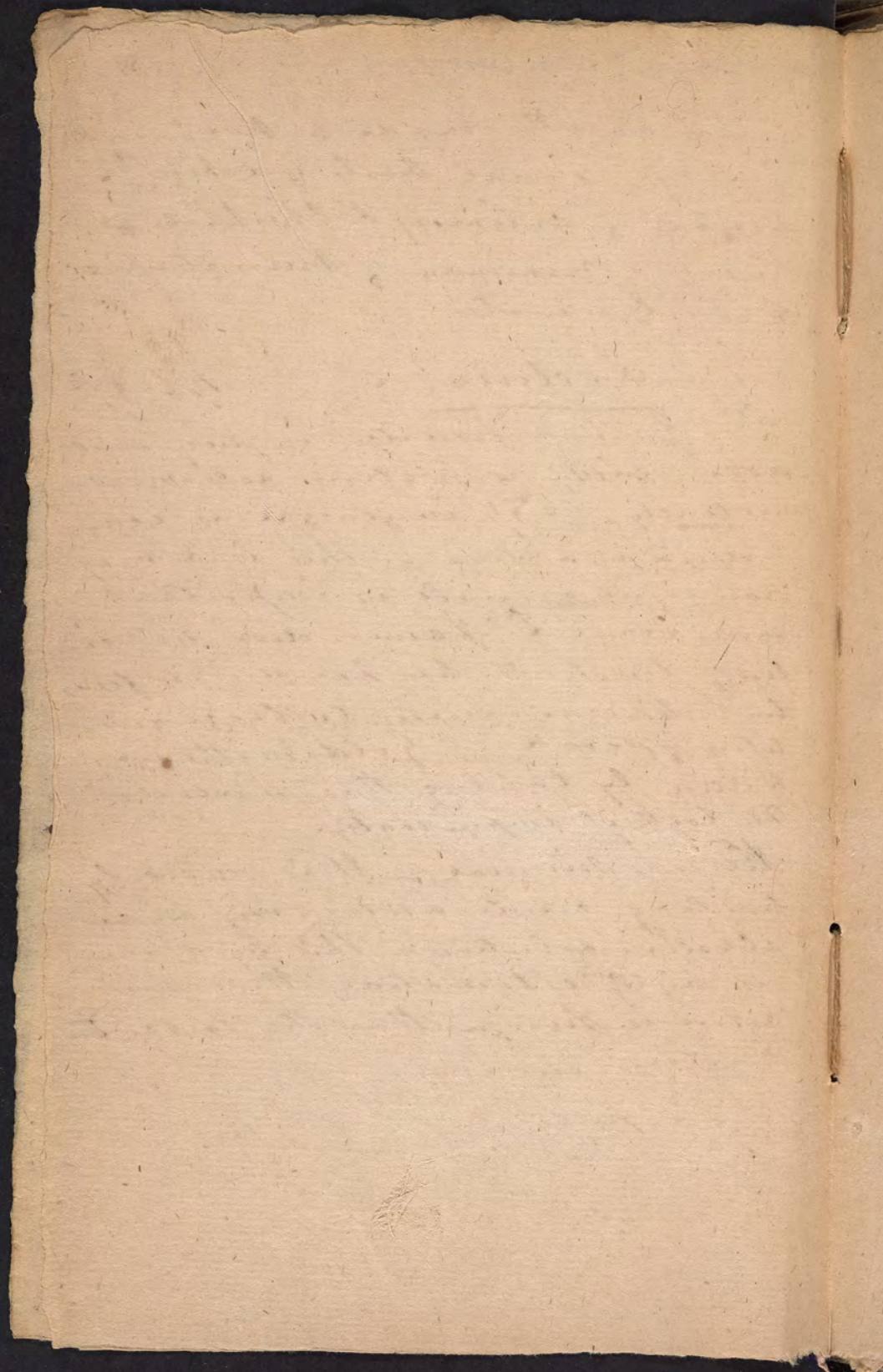
This is another mode of preparing the
Dipole equal parts of white ^{them}
oxide of antimony & phosphate of
lime in a minimum of muriatic acid
& boiling water -

Lecture -

Feb 27th

D^r James powder in very small
doses, gr. iii, sometimes acts most
violently. It in general is con-
sidered as a dose - This is a very
powerful as well as important
medicine D^r James did not en-
tirely trust to his powder in fevers,
but had recourse to large quan-
tities of Bark - Goldsmiths was
killed by taking this medicine.
He took it impudently.

Stomachic Mineral - It is made by
boiling crude antimony in an
alkaline solution - This by some
is highly estimated - It is more
used in Europe than the Tartar &
Emetic -



Cathartics

1240

There are extensive sets of medicines which evacuate the Intestines downwards -

Purging may be occasioned by various states of the system Cold frequently purges. In '99 a case of Colica Pictonum ~~was~~ cold water thrown on the Patient had a good effect.

These Medicines do not only discharge the contents of the Intestines but extend to their effects to adjacent vessels -

Cathartics necessary in fevers of all forms Typhus not excepted

There is excellent in Febricula Dejection of Spirit frequently cured by purgation medicinal

Some purgatives are taken into the circulation -

If a purgative be applied to a running fever it will purge

Inhabitants of hot climates require, in general, more of a purgative

1. The best Gamboge is obtained from the stalagmites
Gambogioides

than those of a ^{cold} ~~hot~~ climate 1241

Duncan arranges 4 C. into
C. stimulantia, Refrigerantia
Astringentia, Emollientia
Narcotica - B. does not ad-
min this arrangement. J. H.

Lecture

Feb. 27

1. of the most powerful Cathar-
tics or *Aperitors* -

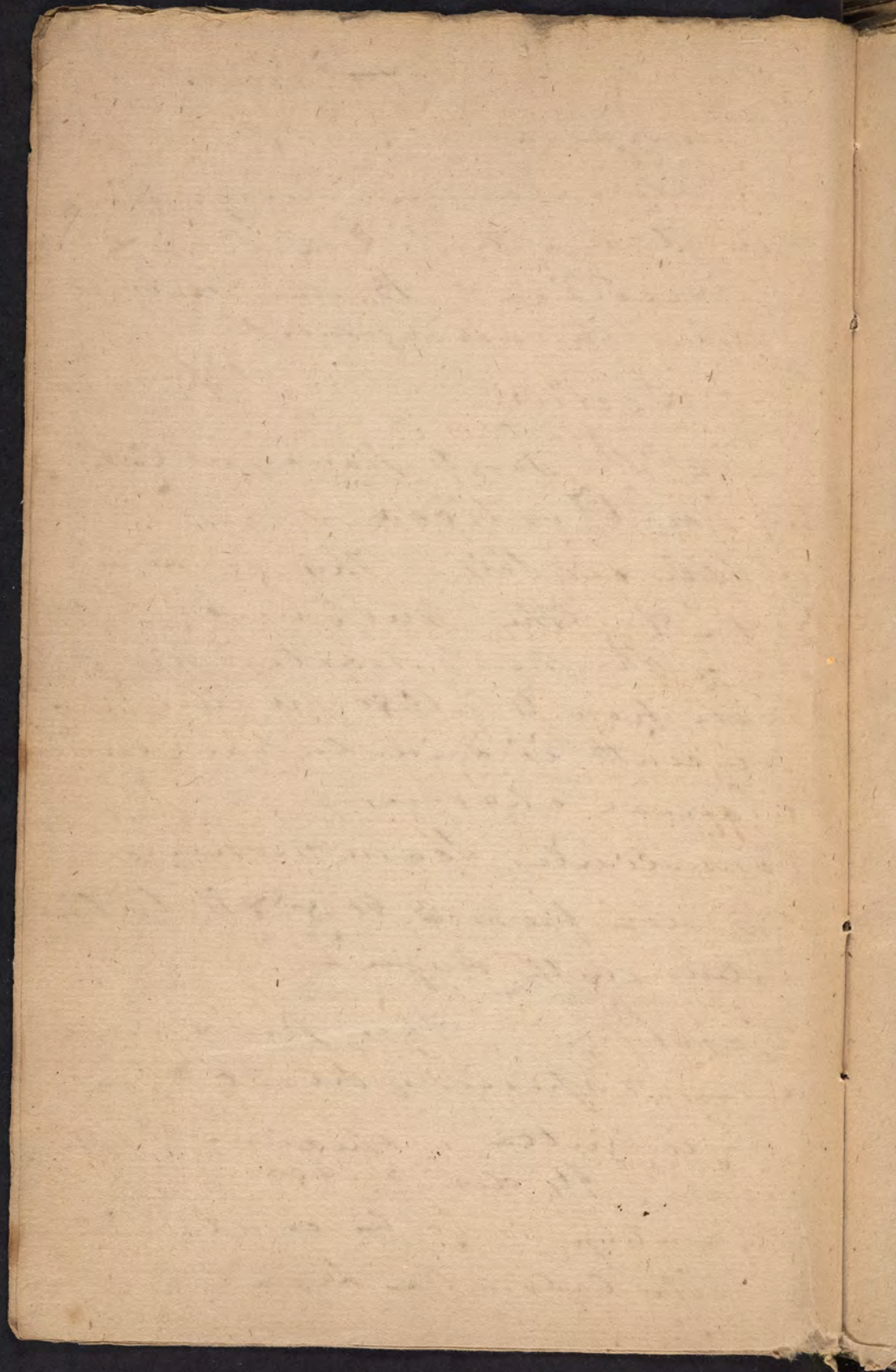
1. Coly cinthis - This grows in
E & A. The pulp used - It is
one of the most drastic purges.
Dose from 4 to 10 gr. A wine of
Coly cinthis is said to have emu-
nical effects -

Convolvulus Scammonium

Its dose from 3 to 8 or 11 trit-
uration with sugar -

1. Gamboge - This produced
from 3 species of plants. Gam-
bogia fetida, a species of *Flyper-*
icum Its dose 3 or 4 gr

Gamboge is to be combined
with Calomel or sugar -



Best Patent Pills contain 1242
this article - Lee's pills most
excellent -

Helleborus Niger - This grows
in Germany - Its root from \times
to $\frac{3}{4}$ - Its cathartic property, in
its resin -

Alac - A gum resin, brittle,
shining fracture & the insipid
juice of the *alac*

It is not fitted to all con-
stitutions -

Convolvulus Jalappa - Not the
Mirabilis as has been supposed

It is a native of S. A. It takes
its name from a Town *Jalappa*

Its active property in its resin

This Dr. says not ^{so} fit for children

Combined with Calomel its
property that grips is lessened

Its dose from $\frac{j}{2}$ to m -

Children may take \frac{ss} or \frac{iii}

This not the proper C. for our
Fever - who will think with
Bouton?

Podophyllum Peltatum -

This one of our most common plants known by the name of May-apple N^o. has used \mathfrak{ij} of \mathfrak{v} powder of the root in yellow. Hence & other similar flowers - This sometimes ripens -

This is Calomel much preferable to C & Jalapa or Rhubarb -

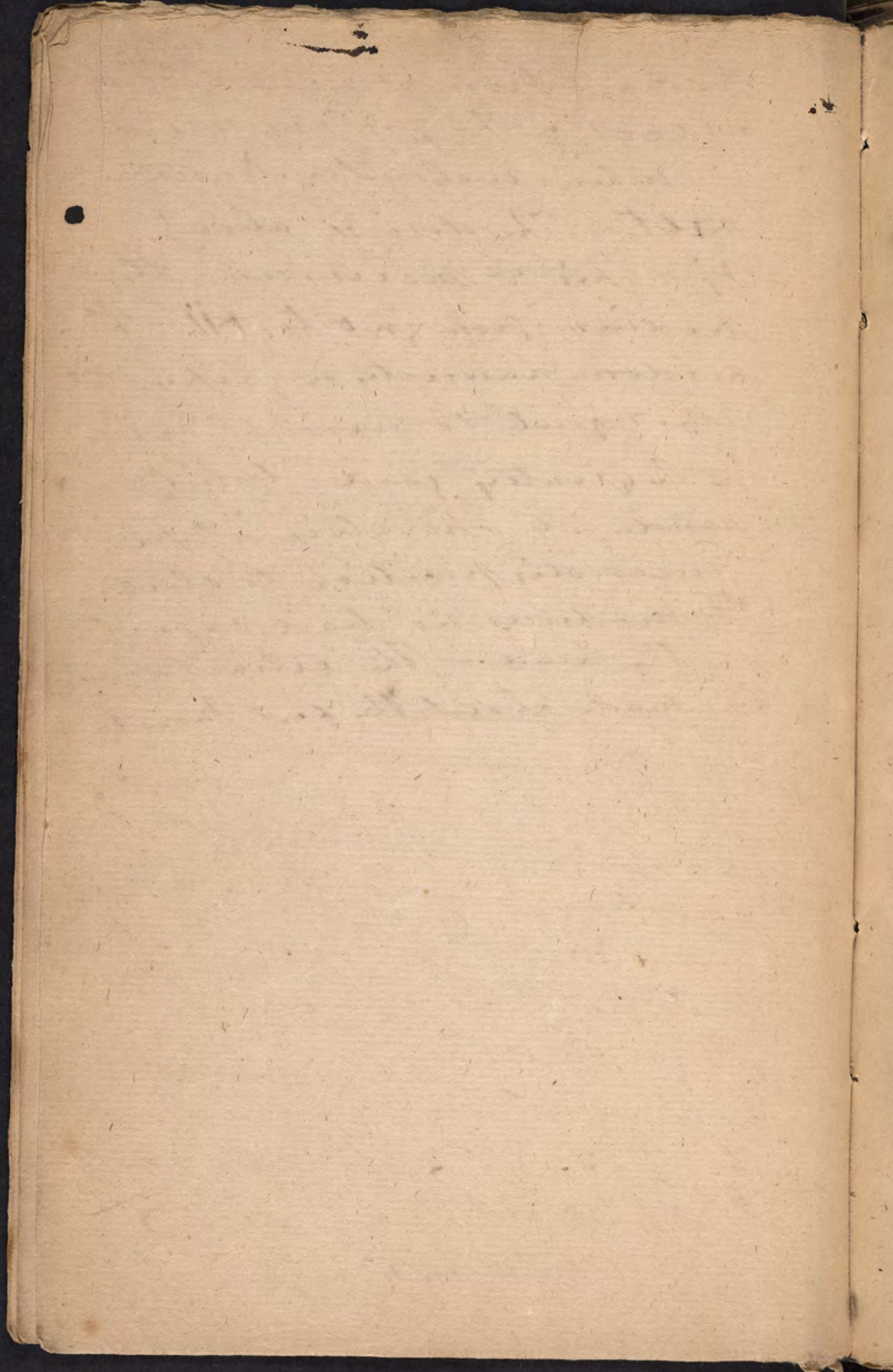
It is not so emetic as Jalapa it leaves w^o system less disposed to ~~continue~~ please the Patient contains than Rhubarb or Jal.

D^r. Glentworth's supposes the Pody. Pel. was w^o best purge in Colica Pictonum -

It is to be collected when the fruit is ripe or w^o leaves yellow -

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Extract from the Bark of
the root of the july leaf cereus
or white walnut or Mutter-
nutt - The dose is about
ʒj - This is maximum - Its
medium from ʒv to ʒii - It
seldom nauseates or grips - It
is not quite so prompt as some
In Dysentery good - While
under its operation it pro-
duces disposition to sleep -
It produces no bad effect
on the head - The extract should
be made about the first March



Lecture

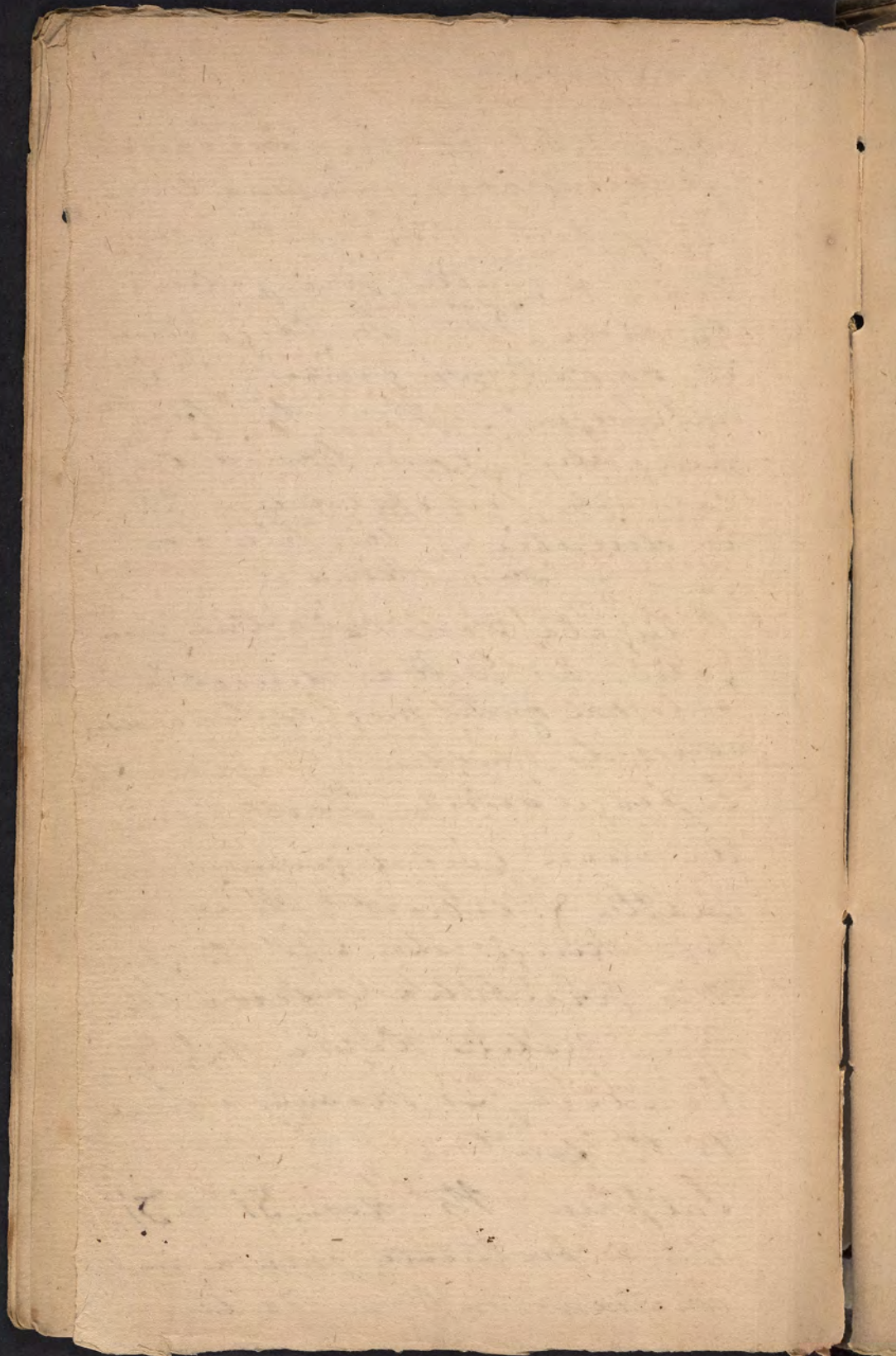
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Feb. 28

Rhubarb. The production
of the Rheum Palmatum
is of best - The root used
It is a gentle purgative
Its dose ℥i - In large doses
it sometimes gripes - It is
astringent. It is the best
purgative combined with
Calomel, for children - It
is diuretic - Useful for
jaundice of some kind

Polygala Senega - This pur-
gative as well as diuretic -
It is one of the most certain diu-
retics

Capica Senna. From Persia
An ounce yields gummas
matter & extract - It is a
safe purge that apt to grip
This prevented by fennel seed
Our native Capica Mary-
landica is nearly equal
to the first

Sulphur - Its dose ℥i to ℥iij
This is frequently joined with
Magnesia or Crem. Tartar.



It is not apt to leave the (245)
bowels flatulent. The factor is
its only objection - In Dysentery
has been recommended -

Caster oil - From the Ri-
cinus Cassiaria - The fecal
yield of oil - The bark, if mixed
with the oil, vomits & disturbs
the system. It may be taken in
wine & brandy. For children
give it with Molasses. In milk
some take it.

Crem. Tartar: same admin in
colica Pictoria -

Calomel must be given in large
doses to children - They require
as large doses as adults or nearly
so -

To Sal. Glaub: add Crem. Tartar
diminuish render Sal. Glaub.
more palatable tho' ~~not so~~ it di-
minishes its purgative quality -
B. relates the cure of a woman
cured of Scrophula by going to
the sea - She drank the
sea-water & occasionally bathed
in it,

B. recommends Dr Flemington's book on Surges - It is according to B. one of the best practical books which have appeared -

B. concludes his course 246

He has given the ^{a man} ~~most~~ ex-
tensive ~~course~~ practical
course than is given in Europe
A course on Mat: Med: never
difficult than any other.
You should continue to
study, & observe - & & &

He now concludes, re-
commending ~~the student~~
pam - & & & a desire for
ye ye ye ye ye

Feb 28 - 1807 -

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