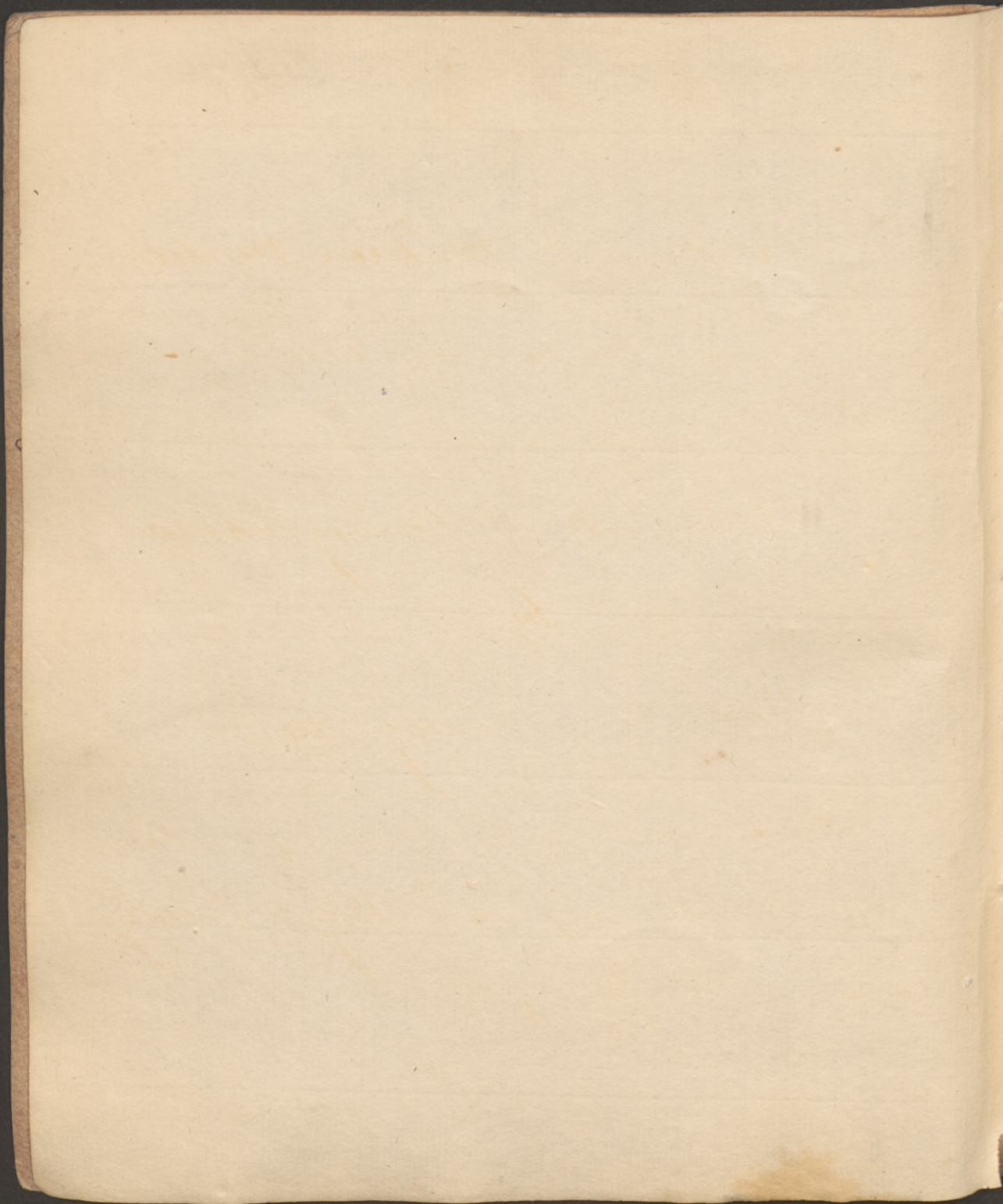


Dr Dorsey.
in
No 5.

Phil^a 1816-17.
3

W. S. Hodge

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Notes on the Materia Medica
Being the Substance of a Course of Lectures
Delivered in the
University of Pennsylvania.
By

John Syng Dorsey. M.D.

Taken during the winter of 1816 '17 & enlarged
during that of 1817 '18 by Hugh L. Hodge.

Vol. 5th

John W. Alden

My dear Mother

Dear Mother

I received your kind letter of the 10th

and

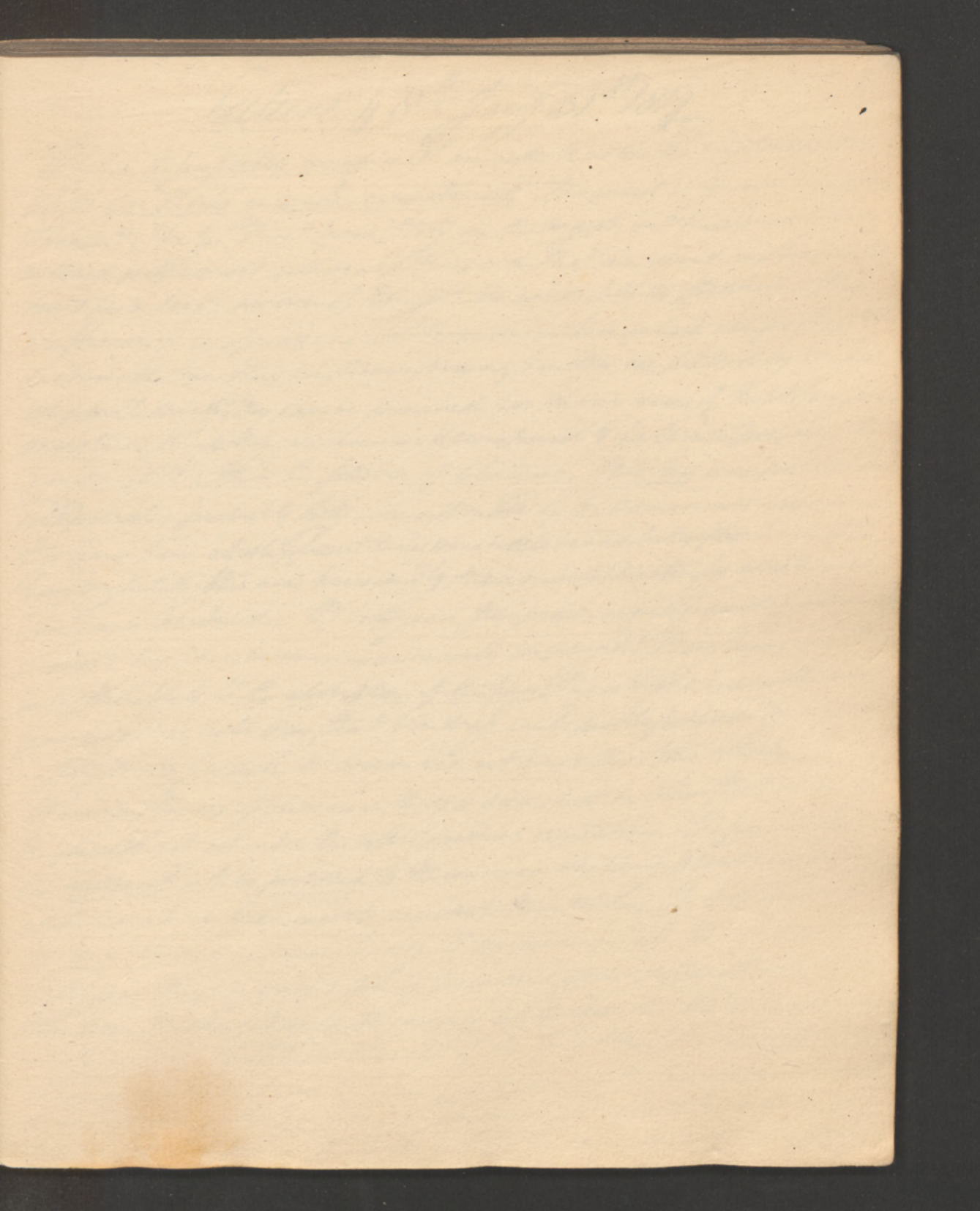
was glad to hear from you

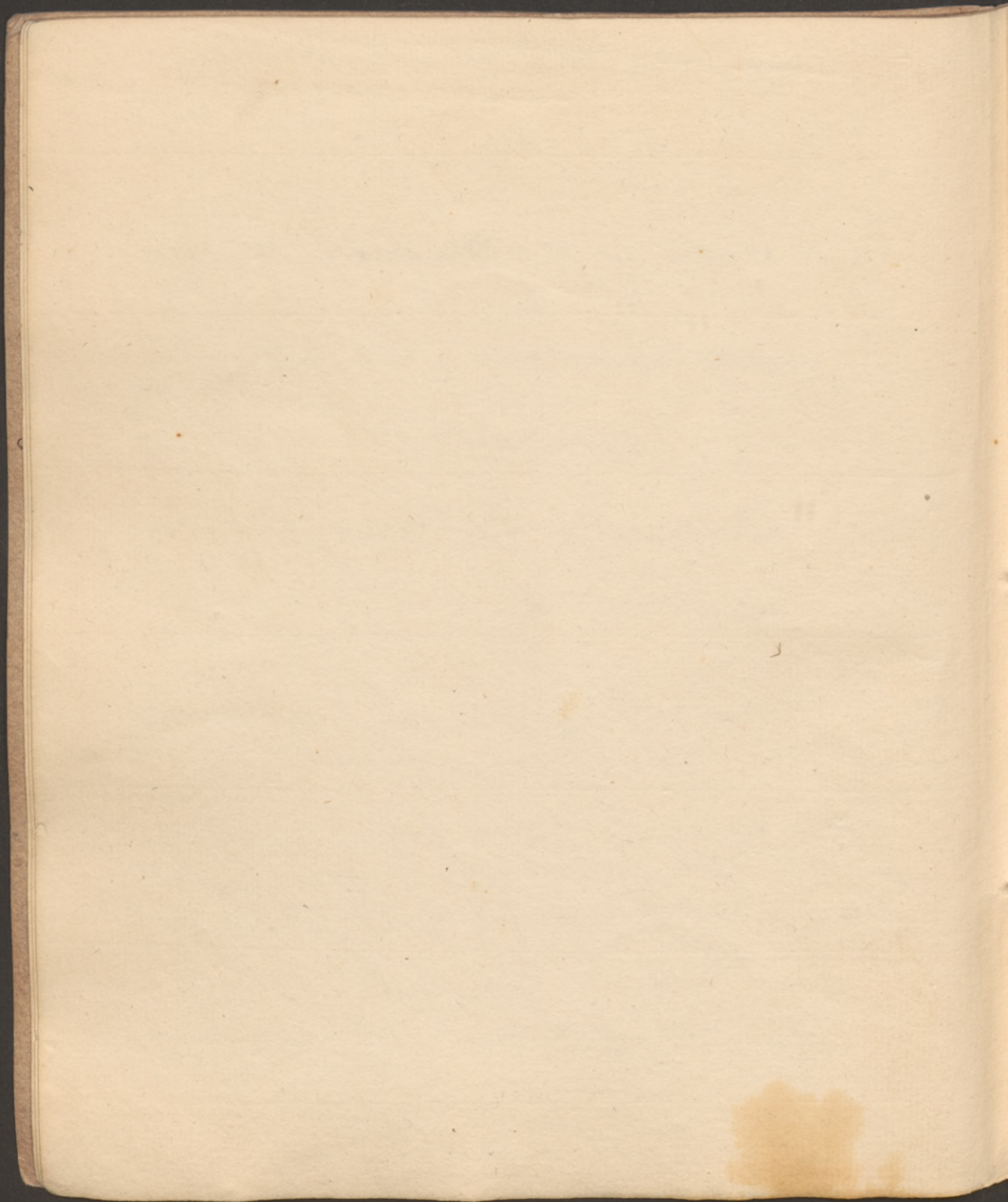
and hope you are all well

I am well at present

Yours affectionately

John W. Alden





Lecture 48th Jan 31st 1817

1.

Of the Epispastic remedies I am now to notice the most important, this is the Cantharis or spinea vesicatoria. This insect is procured in Spain France & Italy. Those from Italy are the largest, but the Spanish is considered as the most active. It is said that an avid vapour is produced by a large swarm of them, which will blister the skin. They are procured by spreading a cloth under the tree, which they frequent by making the tree they feed through & away, here they are killed by vinegar. When well dried they can be preserved for many years, if kept free from moisture. When they are however decomposed & fall into powder this powder still retains the power of blistering. Blisters were employed by Hippocrates probably that they were not made of the same insect as we use, they have been at different times much celebrated but of late have often been neglected; this was occasioned by their misapplication, by which much harm was produced. Of late years their proper management has been understood & they have become very universally employed. Many however attribute their effects to the absorption of the flies: this is by no means the case; you might as well say that blindness could be produced by a worm in the stomach because the worm did not touch the optic nerve.

Whenever they are applied near the eyes care must be taken that some of the flies do not get under the skin & produce irritation. To prevent this the ointment is to be prepared to the common blistering plaster. Various additions have been made to accelerate their action. The best of these is the turpentine, as recommended by Dr Hartshorne. As there is occasionally when the flies are not finely powdered, some difficulty in washing them from the skin, it will be convenient to cover the blister with gauze which may be stretched to the edge of the plaster. The average time at which a blister draws is from 6 to 8 hrs - on the head it must remain much longer, full 24 hrs - & you must not expect to find large fine blisters on the dead - this will not be the case, large quantities of

2.

* Dr Rush's remarks on their use in yellow fever will show
the principles on which they are to be employed in fevers gene-
rally -

4

four pain in the stomach will be relieved equally by a blister to the ex-
-tremities as by one to the epigastrium, so also pain in the head &c.

Pullen attributes the whole efficacy of a blister to its antisparmotic
power - considering that the evacuation produced by it fully compensates
for the stimulus previously imparted to the system. Blisters certainly
have this antisparmotic power, but they are useful in many cases in
which no spasm exists - as may be shown in numerous cases. I would rather
attribute their efficacy to their inducing a new action at the part to which
they are applied or on the whole system. To say that they equalize
excitement is rather incorrect - as they induce greater action in parti-
-cular parts. Strangury consists in a desire to void urine when
there is none in the bladder, accompanied with violent & painful spasms
of that viscus. In Fever, they are thought to be more useful, when the spi-
-curs - but in general it is unnecessary & should be avoided or be removed
as soon as possible. To prevent the occurrence of strangury, or Indigestion
made an experiment of this kind. He applied blisters to 40 patients,
to 20 he gave mucilaginous drinks freely - It was found that a much
smaller number of these had strangury than of the 20 who did not em-
-ploy the drinks. It is therefore proper to administer them, when a blister
is applied; in some cases this cannot be done; comples may then be em-
-ployed; an anodyne glyster is however one of the best remedies. In some
cases laudarium is very useful, when taken into the stomach; when any of these
means are contraindicated, you may at least in form your patient, that it
will last but for a short time, that his pain & troublesome urines will soon cease.
The irregularity in the occurrence of the attack is a little singular - in some per-
-sons there is the strangury & this varies very much with the same person
at 20, persons times. Mr. Percival observes, if a blister be applied to the head
immediately after it is shaved, it will be more likely to excite strangury, than
if delayed 24 hours after that operation. I do not know whether this has
been sufficiently confirmed. In the typhoid cases of fever, the fluid evacua-
-tion is too great for the patient & in many of these cases of great be-
-lievability the blister will not rise - or specifically produces gangrene. Cases also

1
t. I have known a case of Scarlatina in which the pa-
tient was so low, that sloughing occur'd from the applicⁿ of
a blister to the neck but it was prevented —

occasionally occur, in which gangrene takes place when we have no reason to suspect it, this however is rare & should not deter us in similar cases from pursuing this operation. When you have any reason to suspect gangrene, or a consequence; do not apply the blister to the lower extremities, but to the arms or ^{upper} is better to the body, as the powers of life are weaker in the lower extremities than in the ~~upper~~ other parts. In obstinate cases of intermittents, in tertians & quartans blisters are useful - but here it is often very useful to prepare the system by bleeding - then to blister & afterwards the bark, which will operate more effectually. In the Phlegmasia all acknowledge their utility - they should be applied as near as possible to the part affected, as they deplete from the vessels of the ^{part} inflamed parts & in this manner afford relief. In Salera maribus they should be employed early & are often successful in relieving the distressing symptoms. In diarrhoea also they are useful, in obstinate cases they should be applied to the abdomen - otherwise the wrists will answer. In Dysentery after depletion they should be applied to the abdomen. They are useful in various Spasmodic diseases, as colic convulsions epilepsy, asthma. In consumption & catarrhs they afford much relief & should be applied directly to the part: the wrists are less advantageous.

Lecture 49th Feb 3rd

Blisters are also useful in croup they should be applied to the larynx & ^{but} trachea & not till after depleting remedies have been freely employed. In all the other anginous affections they are very useful - in the swelling of the testicles as a consequence to the measles, they are very useful. I must need them in Scarlatina - It would be useless to enumerate all the diseases in which they are employed - indeed there is hardly a disease in which blisters are not employed - Dr. Pringle has the credit of first employing them in a to spring the progress of a engore - here they are indeed very effectual, & indeed of service to arrest the further progress of mortification - This I consider as one of the most useful inspec-

+ sometimes superior to that of the Spanish Ply - I believe they may be equal but not superior - the superiority be attributed to their being used in a recent state - the Spanish Ply being gener^{ly} employed ~~is~~ after being kept a long time - but age does not influence the act^g of this article -

nents in Modern Surgery. There are other insects which are much employed
as vesicatories besides the Spanish fly. The only one, which I shall mention
is the Lytha vittata. In 1799 they were very numerous, infesting
the potatoe vines in large numbers. Their vesicating power was accidental-
ly discovered by their inflaming the skin, when rubbed upon it. They are often
called the Meloe Americana. For their history I refer you to Dr. Cooper's
Dispensary. Dr. Schott in his inaugural thesis has published many expe-
riments on this subject. He found, that the fly although it had been kept
for a long time produced vesication in a less time than the Spanish fly.
That on an adult a blister would be raised in 5 hrs & a half & on chil-
dren a fine one in 2 hrs. He concludes, that it is more certain & ac-
tive than the Spanish Meloe vesicatorii. Dr. Guard from its employ-
ment in disease & more extensive experience ^{comes to the} following conclusions -
1st Powder of these flies on the skin will raise a blister - 2nd That their
activity is equal to ~~that~~ ^{that} of the Spanish fly. 3rd That a saturated tincture
preserves the vesicating power - 4th That both the powder & the well in-
dure strangury. 5th That this acts in rather a shorter period & when
given internally it exhibits the same effects as the Spanish fly. 6th
That they essentially induce a purulent discharge from the skin in the
same manner as the common fly. I have also tried this insect & I
think that there is very little difference between the two - & the Meloe
Americana is worthy of employment - but probably cannot be obtained
in sufficient quantities. As to the mode of application of blisters -
I will make a few observations. When to the head the hair should be
shaved close, in some cases some of the hair may be left in front to
prevent the unpleasant appearance of a bald head - the blister
should be large & circular - & cut so as to ~~lay~~ lie smoothly on the
head - A common hair washing will be sufficient to retain it.
To the back of the neck the blister should be lunar & shaped - with

†. It is now seldom resorted to for stopping hemorrhage -
 the ligature has almost wholly supplanted it - yet there
 is one case in which ~~It~~ it is still absolutely necessary &
 that is for a bleeding far back in the sinuses ~~—~~ for such
 a case I have seen it employed & with immediate success.

‡. Issues discharge more pus - are more extensive & are
 on the whole most effectual ~~—~~

consent by upwards - the extremities should be perforated & strings passed through them to be secured to the night cap. In blind the ear they should be excavated so as to receive the ear - there they are to be secured by a Bandkerchief around the head & throat. In applying them to the eyelids - it will be most prudent to close the eyelids by adhesive plaster - To the eye-gartriu region they may be angular, so as to adapt them to the angle formed by the ribs. To bind it here shoulder straps should be joined to a circular bandage - one also passing over the perineum will be useful. To the chest a hydro a compress & S. bandage are necessary. To the abdomen a suspensory basis but - To other parts of the body, their shape is immaterial - a square or oblong form is preferred.

I proceed now to the third division - viz - caustics. The actual cautery is a very old remedy - it was long employed for surgical purposes especially to stop hemorrhage; till the discovery of the ligature by Arbuzov Pare in some degree brought it into discredit. For medical views it is occasionally employed - Dr L. Valentin, a French Physician has lately recommended it in various cephalic affections of a chronic nature, in chronic ophthalmia also & says that he cured one case of blindness with it. I however do not think that it has any advantage over the common caustic; - As to the burning of Proxa, it is still employed by the French & Indians - but it is as barbarous a remedy as the cutting knife - & should be considered in the same light.

I will not detain you with specifying the several modes of forming setons & issues but refer you to practical writers. Setons are generally applied to the back of the throat - they are preferable to issues, in that situation as they are cleaner & can be more easily attended to - they are employed in various diseases of the head. Issues or alters were much employed in diseases, after inf^l has been subdued; - thus in diseases of joints, they are made after the violence of the attack has yielded to depleting remedies - In chronic diseases they are usually applied at the insertion of the deltoid muscle

12.

from the left corner as being the most convenient situation. Particulars
Escharotics. Ven. Helmonx long asserted that nothing acted on the li-
vings body on chemical principles - the life of a part in some instances
however so quickly destroyed, that I do not think any other cause, than a
chemical action can be assigned - sometimes a drawing ^{to} appears to be
the result, which terminates in gangrene - The Common Veget. Caustic
is one of our best ~~caustics~~ articles under this head - When made it
should be kept in close bottles which should be of a size proportioned to the
quantity of caustic as it is very deliquescent - The advantages of this are
1st By its deliquescent & penetrating powers, it is adapted to the formation
of Spues. Take care that you do not go too deep, especially in the nose
wherehood of large arteries, of which, there is some danger

2nd From the same property it is adapted to remove the callous
edges of old ulcers but it will not answer for new ulcers or for
the removal of shancres - as too much of the surface would be destroyed

3rd To open abscesses it is also well adapted -

4th In tumours & ulcers of the throat it is much employed as
it can be neutralized very quickly by vinegar -

The mineral acids are often employed as caustics, but their fluidi-
ty is a great objection, as their action cannot be confined - They are much
in use to destroy vermin as they accumulate in hot weather. 3i of the
nit. acid to ʒij of water is a convenient proportion -

The Lunar Caustic or nit. argenti - is the best caustic we possess
To healing ulcers it is admirably suited; it stimulates the granulations
so that cicatrization is quickly produced; frequently in 24 hrs the part
touched by the caustic ^{is covered by a escharote.} as it regulates animal matter, it does not spread
as the vegetable caustic - A convenient method of applying it to
sinuses is to dip a silver probe into nitric acid, which forms the caustic
then easily be passed into the fistula - There are numerous ^{escharotics}
~~articles~~ in use, which I will not detain you with - but refer you

14 + The citren ointment is very excellent - there is perhaps
no article which will succeed so generally in eruptions on the
skin -

to the dispensatories. & The salivæ may perhaps be ranked under this head & is very useful to stop up the discharge from a blister, here it is preferable to the spissastic ointment which not unfrequently produces a troublesome stranguy. From what has been said, it will be seen that the use of Spissastics is very important & deserving of much attention - It would be unnecessary to be more particular in this place upon their practical application, as you will receive abundant information on this head from other sources - let me however remind you of the necessity of making yourselves well acquainted with the general principles in the use of blisters, & guided by which you will be able to adapt them to the circumstances of your patient.

Lecture 50th Feb 24th

I now proceed to the second grand division of our remedies or to Stimulants - I have already explained my views of the nature of sedatives & shall not now enlarge on this subject - I shall consider under the head of irritants those remedies which excite the system generally & which are commonly employed solely for this object. After all acute & inflaming diseases, little else is required, than a more generous diet - & a greater latitude in the choice of foods, this may therefore be considered as of the lowest order of stimulants - this however I would not resort to, until all morbid action had ceased - there are however some cases of disease in which these stimulants are to be ordered - As to their mode of operation little need be said - some appear to act on mechanical principles others on chemical - & others influenced by neither of these appear to be adapted to make an impression on certain organs; as adreus & cast substances on the nose - Hence in cases of apoplexia all of them are brought into action - — Heat & Cold besides a stimulant operation appears to possess other properties, which

+ I today read a case of asthynia - from the *Annals of*
Charcoal in which the man was cured by the long con-
-tinued use of ~~the~~ cold water thrown on his face -

have been already noticed, but they are employed purely for their stimulant
powers in the Choid & other low states of fever. A precursor of death in
many cases is cold feet & legs. warmth to these is of great importance &
often preserves life for a considerable time. In asphyxia from sub-
mersion heat is a very valuable remedy - Heat is not much employed
as a stimulant & except in syncope where it is a very common practice
to sprinkle the face with cold water. Frictions have been long
employed as a stimulant the ancients used them very much & in some
high tones they are found very useful they are made best with a
flask brush or piece of flannel. In syncope, in asphyxia in the-
tic rheumatism palsy & they are very advantageous. Electricity
& Galvanism are much resorted to; in tumour palsy, amaurosis, chro-
nic rheumatism, gout & in some cases with advantage. In partial
Palsy from contusion & in swellings about joints they are very useful -
I have known the deltoid muscle completely paralyzed by a blow,
which was relieved by electricity. Of the two I decidedly prefer elec-
tricity to galvanism in all cases as being more powerful & efficient.
The diffusible Stimulants. These are very improper I think
claped under the head of Veratris by professor Mercur, as although
their final effect is more or less narcotic yet they are always administered
with a view to their stimulant operation. As the purest specimen of
the class I shall first notice the Veratilis Alkali. This is procured
wholly from animal substances; although it is found in some vegetables
The solid carb. ammon. the aged ammoniac & the aque carb. am-
moni. are all employed. but I prefer the concrete ammoniac, the
common vol. salt. I prescribe it in the form of the volatile ju-
-lip. R Vol. alk. Zij - S. scrab. & each aa Zi - Rq. ʒiiv
M - laudanum is sometimes added. qth & L. to the ʒiiv.
This is given in doses of ʒss every ʒn hour - 1, 2 or 3 hours according
to the urgency of the case - & has the effect of exciting the heart &

+ It is the safest of all our stimulat^g articles - & may
 be resorted to, when ather ~~the~~ stimulants would be improp-
 -per. After inflamⁿ action is nearly reduced - & before we
 employ Tonics - or when we cant wait for the tardy
 operation of these articles. The val: alk^y is a very ap-
 propriate medicine - There is no febrile disease in which
 it may not be employed during the convalescence - but it
 is contraindicated in the early stages of all diseases.

arteries. Its operation however is very transient, perhaps there is no
article which is more so; from the circumstance it must be given fre-
quently. It is employed in all febrile diseases, but most in the early
stages or previously to proper evacuations. In Europe it is used in
intermittents but in this country there is too much attention the sys-
tem to allow of this. The same observation will apply to remittent
infulous fever not only not till late in the disease. In the
Phlegmasice it has been employed in chronic rheumatism in some
cases it may be allowable but not where there is any fever of an inf. type.
In certain cases of retrocedent gout it is very useful & powerful, where it
attacks the stomach. It is one of our most efficient remedies.

In Pleurisy it was formerly the custom after one or two pre-evacuati-
ons to resort to the val. alk. but now evacuations are carried to a
much greater extent, & the alkali is seldom resorted to. It is however
a very excellent expectorant & is to be employed, where the system
will allow it. In typhoid Pleurisy it is very valuable & in
the tumors - debility & mania from intemperance even where there
is local inflamⁿ. More it is of immense benefit, especially in conjunc-
tion with op^m. Where there is a pleuritic effect with intemp^rance
it relieves the pain, cough, promotes expectoration & ~~accelerates~~
excites sweating & strengthens the pulse. In Portugies there is in
the early stage too much phur but afterwards it may prove useful.
Polosthoma arising from errors in diet it is useful but in no other case.
It also in Dyspepsia - In spasm of the stomach, in Hysteria it
is very valuable - May be used in diarrhoea & Dysentery. In
the drop & neurones they have been employed, the French direct it in-
differently but not wisely. This is wrong, especially in that case which de-
pends on indigestion, which always produces a determination to
the head. Lately it has been recommended in Cancer, but here I

+ Perhaps longer, when induced by alcohol than when brought on by any other stimulus

+ The quantity of opium gradually be diminished - Ab-
 straction here is in reality a powerful sedative - &
 hence by diminishing the daily allowance of our pa-
 tient we actually deplete. Thus in acute infl^y dis-
 eases & in persons habitually intemperate we are com-
pelled to employ moderate stimulants.

cannot believe it to be of much service. ~~And~~ It is maintained
by some to be useful in poisoned Wounds, but by others this is denied
The accounts are very contradictory. The late Dr Ramsay of S. Caroli-
na recommended it in Cases of bites from the Rattle Snake. In Ap-
oplexia & syncope it is much employed especially as a stimulus to
the organ of smell. In the low states of bilious & yellow fever it
is of great service & is employed to a great extent. I have given in
yellow fever upwards of ℥i in two Drs. Dr Hahn speaks very high-
ly of this article. He says that he never knew it produce an unhea-
lthant symptom & that the excitement it produces is superior to all
others. — I have not placed the Vol. alkali at the head of the dif-
-fusible stimulants, because it ~~is~~ is the most powerful. but because
it is the purest specimen of the kind which we have. There are many
articles, whose powers, as stimulants, are greater; & I will mention some
of those which are employed for this end independent of their marso-
tic effects. Alcohol is one of the most powerful. It is the product
of the vinous fermentation & is obtained by distillation. — It is a power-
ful stimulant. In a small quantity it accelerates the circula-
tion, strengthens the muscles, invigorates the mind. increases the secre-
-tions & stimulates most of the corporeal powers. These effects con-
-tinue for some time & are succeeded by a corresponding depression.
In a larger dose, it induces intoxication or a temporary mania
which goes off in stupor & sleep. In still larger quantity it in-
-stantly kills without any previous excitement. In prescribing
it, the habits of the patients are to be attended to, as some who are
accustomed to it will bear large quantities & others very little.
When a habit has rendered it necessary we should not suddenly take
it away, as the patient would quickly sink. When much activity is
required we order brandy or rum which contains about 5 parts

+ It is also less violent - & more permanent - Malt
 liquors also contain alcohol - ~~They~~ are sometimes to be
 preferred, as they ~~possess~~ ^{contain} some bitter vegetable matters
 & have considerable pungency from the carbonic acid
 they contain

nourishing articles should also be introduced.
 as species of Mutton - of beef &c - Sago - Tapioca -
 arrow root - yalbs of eggs - &c - When these power-
 ful stimulants induce heat, flushing of the face,
 restlessness &c - they should be omitted for a while
 then resumed - Alcohol also is much
 employed in some nervous diseases, particu-
 larly in Tetanus, which is usually treated to the free
 exhibi^on of wine & opium

of alcohol. In most cases, wine is employed as being a safer stimulus - There are also other effects produced by wine - it is a much better tonic, than any of the other articles - When there is any inflammation, wine & alcohol are not to be employed, except in cases of intemperance, where it would be necessary to keep up the usual stimulus, as otherwise the patient would be carried off by various nervous affections - All agree, that wine or alcohol is not to be used in remittent fevers, as the bilious & yellow till the last stage of them - but I think that it is seldom safe while any diverged action remains - In intermittents, it may be sometimes employed during the apexia - but often there is too much action even for the bark - The Port Wine is usually preferred - It not only possesses considerable astringency, but it is so often adulterated, that other wines are usually to be chosen - In the phlegm of wine has been much used in very large quantities - In these low states we begin with the White Wine, then wine, or diluted brandy, brandy toddy - afterwards, raw brandy, sometimes with pepper & other condiments - When administered in this manner, it acts as a nerobik & therefore should be frequently repeated - The patient should not be allowed to sleep too long - but should be roused to take his stimulus at regular intervals - even delirium does not forbid their use in these cases -

Lecture 51th Feb 18th

ardent spirits, are much employed in chronic cases, but this should be done with caution as by excess it becomes more injurious than the original disease - They have also been recommended in the Phlegm, but I so often noticed ^{the circumstance} that it is only where the inflammation subsided that they are proper - that I shall not insist on it, at present in some cases of great power they may be used - Alcohol & ^{the menses} some of the acids, when mixed & distilled, form the ether.

+ I have also given it in Quercus alba per heat up
with eggs

This is a common remedy in the ~~East~~ West Ind^s.
It is said to have effected cures after the occurrence
of the black vomit

The sulphuric ether is most used in many of its properties resembles the alcohol, it is very prompt in its effects but proportionally transient. It is employed as an antispasmodic & a stimulant, but has less of a tonic nature than alcohol.

It is used in various spasmodic diseases, in doses of $\text{ʒ} \frac{1}{4}$ up wards $\text{ʒ} \frac{1}{2}$ by measure; in extreme cases $\text{ʒ} \frac{1}{2}$ is of the given. There have been various modifications of it - Ruffman's emulsion consists of ether with an alcoholic quantity of alcohol - it might be called diluted ether, the dose is $\text{ʒ} \frac{1}{2}$ of the pure power which are peculiar, it is preferable in some cases - as not being so volatile as the ether it is more easily taken -

The Oil of Serebinthine powerfully irritates the system; the dose is $\text{ʒ} \frac{1}{4}$ to $\text{ʒ} \frac{1}{2}$ when given as an anthelmintic - but as a stimulant $\text{ʒ} \frac{1}{2}$ is the usual dose - In the typhoid state of yellow fever it is given both by injection & by the mouth - In spasmodic affections of the bowels it is given, especially in the flatulent colic by injection. Dr Bayham has recommended it in Epilepsy this is natural where there are worms; but in other cases its use is not so clear & it must operate by the general impression on the system -

Of the Vegetable Stimulants - the Capsicum is more active than most of the usual stimulant species - but they all are more or less stimulating. It is much used as condiment in the W. Indies & other warm countries, not so much so in our own country. It is ~~most~~ used more frequently as a medicine - I consider it as one of the best of our active stimulants, as being more free from any narcotic power - I prefer given it with the food - or in pills - I have never used it in decoction - in dyspepsia it is of great service; here it is preferable to ardent spirits, as not likely to prove injurious - In protracted intermittents it is very useful with the sulph. of copper - but this combination is not to be employed to the exclusion of the tonics - the proportion is $\frac{1}{8}$ of a gr. of blue vitriol - to $\text{ʒ} \frac{1}{2}$ of the capsicum - In yellow fever I have much used it with great service - in 1808 I gave grain. ʒss to ℥ss as it appeared in Charleston brandy & Cayenne pepper were used -

usefully employed as an external application; lately also it has been recom-
mended in Cyrcanthe maligna. The prescription in this case is to take ℥i of
the capsicum - ℥ss of common salt - & to infuse in 1℔ of boiling water,
after which ^{part} vinegar is to be added. (The) however ought not to super-
sede the use of emetics. Whether it is ever proper I cannot from my own expe-
rience determine - It is proper to remember, that in prescribing the capsi-
cum, some parcels will prove very active & others are inert. It varies
very much in ^{its activity} ~~power~~. The black pepper has proper similar virtues, but
is not so active.

Singer is an excellent carminative - Platanus is a common ^{of my}
kind in ~~many~~ diseases. Vis of the very tract lesson. The following is very
useful in this case - ℞ - rhuiz. rubig. ferri. & rhuizit. - a ℥i. m
at dir in ℞^o xij.

Dr Haller has, as I think, very correctly classed all the aromatics
under this head. His description of them is very valuable & to it I refer
you. The alliaceous plants as the garlic should also be included.

I proceed now to Narcotics. These are medicines exhibited
with a view to their sedative operation; they are known by ~~the name~~
as Anodynes, Sedatives &c. but I prefer the above - Look
at Murray's account of their operation - At the head of my list
of narcotics I place Opium. This is the produce of the Papaver
Somniferum & is procured in Europe & Asia. It is not native in
the U. States - but is often raised in our Gardens. From Egypt &
Persia it comes in flat round pieces - of a reddish brown or liver co-
lour. The Turkey Opium is the best - It is considered as a gum re-
sin. it burns like resin & part is soluble in alcohol - Particulars are
also soluble in water - The resinous part however possesses most of
the narcotic power. & diluted alcohol is considered as the proper men-
struum - The Vinous tincture is also in use. Heat in pairs its

† Opium is the parent Specimen of a Narcotic. At
one time the contest was very violent between those who
maintained its stimulating operation & those who mag-
nified its narcotic powers. The disciples of Galien &
Brown were arranged upon ~~the~~ opposite sides.
I consider it ~~to~~

+ when the material is given down Ziv. is often
 copied

I find that this method was recommended by Dr. Moore
 of Edinburgh - in his inaugural Thesis - Feb'y - 1818 -

If I arrived within 30 minutes I found my patient highly excited, & for which stupor & spasm produced. Now, as opium is more frequent by far than any other article, with the view of committing suicide, I will detail the proper practice to be pursued where poison has been swallowed -

When opium has been taken in sufficient quantity to destroy life, the first effect is stimulant - you find your patient happy & contented, sometimes but not often repining of his purpose. & frequently in a state of apathy, this will often last for 30 minutes - in all these cases you are to labor but very promptly & successfully with the emetic. The sulph. of zinc is the best, but it should also be given with ipeac. $\frac{ʒj}$ of the white vitriol - to $\frac{ʒj}$ of the ipeac. If it does not operate in a few minutes it should be repeated the gages at the same time be irritated with a feather. No diluent drinks should be exhibited, as they serve only to spread the poison over a more extensive surface & to hasten its passage into the ^{diverticulum} ~~stomach~~ - When vomiting is induced then diluents may be resorted to - as also free bleeding of the jug. This relieves the head - & prevents apoplexy.

In the next stage there is diminished action - this is said to come on suddenly in some cases. I have never seen it sooner than 30 minutes here there is a total want of sense & motion - the breathing is stertorous the pulse slow being 30, 40 or 50 strokes only in the wrist but quick & full. Here also our first object should be to remove the poison - but the patient cannot swallow any medicine - here Dr. P. Physik has afforded us the means of relieving our patient - He has proposed to pass a tube into the stomach through the mouth or nose, inject ~~some~~ fluids, though it & then by suction extract it - thus washing the poison out of the stomach - It is not always necessary to wait for the 2nd stage before you resort to these means I was the first who put this suggestion into execution in the case of a woman who was apparently in the article of death she recovered - The 2nd case I tried it was in a young man who taken $\frac{ʒij}$ of laud^{er} - emetic did not operate & I resorted to the flexible tube & after using it vomiting came on

My patient recovered. In the administration of medicines in these cases it is very useful. In the cases of two children who had accidentally swallowed a large quantity of laud^m Dr. Sydenham insisted on brandy & water. This had the immediate effect of exciting the phenomena of life. The pulse became evident, but these symptoms soon ceased & the Dr. became fearful that the brandy would hasten the event - by gradually becoming diminishing its strength he succeeded in restoring one of them, the other died.

Whether the opium is taken from the stomach or not, brandy & water weaker or stronger as may be necessary is to be resorted to. wine & also - sinapiisms should be applied to different parts & stimulating glysters be administered.

Dr. Seaman of New York in one case employed the rod with success - which if ever allowable must be in these cases. Dissections show that the stomach is inflamed which ^{is} appears in spots scattered over the surface as is usual. - The largest dose which I have known taken with the view of ending life is gr̄ss̄ss̄ss̄ of opium - & yet the smallest dose has been the cause of death. In the case where ʒij of laud^m was swallowed I was called at 2 o'clock at night & arriving in a short time found my patient in high spirits. ~~He refused~~ ^{he refused} to take my medicines ^{upon} ~~that~~ ^{that} I administered. I gave him ʒj of white vitriol & ʒj of Opus - at the same time bled him freely - he vomited copiously but ~~in~~ in 25 minutes he began to grow & drop. Stimulants were now demanded, brandy & water was exhibited as long as he could swallow but as Dr. Sydenham had not at that time proposed the tube I resorted to Glysters & sinapiisms. - In 24 hrs he happily recovered.

Opium exhibited in small doses & gradually increased has a powerful stimulant operation & induces habitual intonation which is equally praiseworthy with that induced by ardent spirits - ~~to~~ ^{to} obtain the effects of opium for any length of time its dose must be constantly increased. it should ^{therefore} never be exhibited in chronic diseases as the quantity will soon be enormous & ~~the~~ the article become as necessary as brandy to the drunkard. By its constant use, the system becomes exhausted & can

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not withstand the least injury or disease without producing those troublesome symptoms known under the title of mania a potu. The habit must be changed. This can sometimes be effected immediately by substituting the hop tea or some other stimulus. The hop tea is made by taking a handful of the hops to a quart of water & letting it steep & then it is drunk as coffee - gallicin &c - are afterwards useful - but Opium ^{is to be} accomplished, if we should always endeavor to break this destructive habit. Recently I had a patient who for a disease of 5 yrs standing had accustomed himself to take Ziwig of Laud^m daily. In 6 weeks I was able to reduce it to a few drops. The patient should be kept up by a good diet - & by other Stimulants if necessary, the Laud^m should be gradually diminished - By habit large quantities are taken without producing death. Dr. Murray relates a case in which pts of Laud^m are taken daily - An antidote to opium has been sought for but it is not likely that it will ever be found, we must content ourselves with removing the cause & then adding our remedies to the disease. Purgatives are not proper.

As to the good effects of opium in the cure of disease, it may be considered ^{as} 1st In cases of severe pain it is superior to all remedies - 2nd That it is one of our best Stimuli when given in small doses frequently repeated. 3rd To induce sleep or vertigo is equal to it, 4th The same may be observed of it in relieving spasm - 5th in checking excessive vomiting &c &c It changes morbid action. In disease it is a very universal remedy, always remember its properties when you prescribe it & adapt it to the existing state of the system. In Continued Fevers. Cyprus, Symplicia & Cyanchus, it is to be employed but the infl^d action should be previously induced - This is true of Syphilis - of which I have never seen a case, which did not begin inflom^y - in the 2nd stage caution is still requisite in employing it - Some have substituted wine for it - this I do not think right, as wine possesses very little if any sedative powers.

+ when there is a hot dry skin & an active pulse - it should not be employed - as so far from inducing sleep - it will render the patient watchful & distressed - in the 2^d stage when these symptoms have subsided it may be employed - but still cautiously - I have known a single grain produce coma - & believe death - as he was never roused from his stupor -

Opium is very improper in delir^m under any other circumstances - & manifestly aggravates all the symptoms - & - In all cases of nervous tremors &c arising in this disease it is the remedy -

It has also been given with the bark - but with no advantage - The indications to be fulfilled by these articles are different - & they should be exhibited at different intervals -

Opium is by no means useful unless it is to be employed. Opium has a specific agency on the brain & should therefore be cautiously used in symptomatic affections of that organ. In fevers it is directed for various symptoms & in genuine typhus it is essential in small doses - when delirium occurs in a low state of the system it is to be used, & then only; diarrhoea often demands its use as also does the frequent symptom of *febris subcutis tendinum*. In cases of great weakness Opium with the val. alk. ~~is~~ ^{is} the cordials are the proper remedies.

Lecture 53rd Feb 10th

In intermittents, Opium is now very frequently employed, but this is by no means a modern practice. It was known to the ancients, who gave it an hour before the paroxysm. I am in the habit of using it, but never till the system is in a proper state, that is, free from inflammation, which is to be accomplished by the use of evacuations - omitted & I employ it to the exclusion of the bark. Dr Lind has recommended it after the commencement of the last stage, & observes that it lessens its duration, by quietly inducing a general moisture over the skin. When ^{it} has employed it in this way - jaundice, dropsy, or disease of the viscera has never occurred. I have repeated this practice - & cannot agree with Dr Lind - it will not produce a termination of the complaint, in some, however it lessens the violence of the symptoms - I prefer exhibiting it at the commencement of the paroxysm & not during its continuance - To prevent its narcotic effects, a practitioner has recommended it to be given with the vegetable acids or with strong coffee - In our bilious fevers it is never to be exhibited till after powerful evacuations; when the system sinks in that, & in yellow fever, & then is *subcutis tendinum*, delirium, & vomitages from the gums ~~is~~ ^{is} to be exhibited as in Typhus in small doses & at short intervals with val. alk. brandy &c

When diarrhoea also occurs as a symptom opium is very valuable -
Some practitioners in these low cases of yellow fever exhibit op^{um} & calom.
with what intention or theory is not well ascertained - they say however that
it is with a view of satiating & at the same time best obviating the diarr
thoea: with it, many of their patients recover - Camphor & Opium in com
bination are also much used, Campbell recommends it where there is much
watchfulness - but I do not believe much is gained by the Camphor.
In febrile diseases with much action it is often given to ~~relieve pain~~ pro
duce sleep - now in such cases it is very wrong to administer it - as it will
not produce sleep unless the dose is very large & then it is so disturbed &
the dreams so terrible that the patient prefers ^{being} awake rather than
be thus tormented. The stimulant effects of such doses also aggravate the
disease - It is much better to bleed in all such cases & let the patient
become weary - when he will occasionally have a pleasant sleep. But
in cases of local inflⁿ where pain is the principal symptom & where this is
totally disproportionate to the general disease - opium may be allowed - as in
Dentalgia, ^{trismus} ~~hemispheria~~ ^{ataxia} ~~ataxia~~ &c - In some of these cases very large
doses are required - Monroe to one of his patients with a stone, gave grs.
xvi. & after the operation the same effect was produced by grs. x of opium.
Dr Cullen allows it in the suppurative stage of inflammⁿ, but it may
in many instances be given sooner - no general rule can be laid down.
The writer has said that it is not necessary in any of those in which we
may bleed - but there are many cases in which this rule will not answer.
Where large abscesses have formed opium is very proper - In Gonorrhoea
it becomes very important especially in that species ^{noticed} recommended by
Mr Pett as occurring in the part of old purposes. As to Surgical
complaints we derive from opium great advantages. In all
local inflammⁿ unaccompanied by much gen^l & febr^l & where the pain

40. + It may often be employed externally in these cases
~~it~~ it always I believe in this way produces some effect
on the system - & moderates the pain - I am very much
in the habit of adding it to poultices - where there are large
Abscesses it is useful to support the system -

+ Some cases of Hemoptoe appear to be brought on by coughing, the least violent inducing a cough which is followed by a spitting of blood. In such cases Opium is useful.

In dysentery it is useful after free evacuations - in the first stage it is generally wrong - but in some cases where the pain & tenesmus are very severe an anodyne injectⁿ is very serviceable. If there is much fever - P.B. is demanded - after which the anodyne injectⁿ - Theriac & chalk in combiⁿ may be given by the mouth after the fever is subdued. In Cholera - after free evacuatⁿ opium may be administered. Dr Hartshorn has cured many cases of Cholera by V.S.

In acute diseases of the Head as a general rule opium is not to be employed - in Acute Ophthalmis never -
 O. of eye is not likely to cure Mania - but may be employ-
 in many cases very advantageously. In Phlegmasholy our medicine is invaluable. In Mania a potu I place my chief reliance on opium - after alternating it with the Kaff.

existence to his own being - he died of a palsy induced by the free use of
stimulants during an attack of the gout. When however the disease attacks the
stomach it is to be freely employed in conjunction with the various cordial &
stimulant articles. It often great relieves the spasm but must be exhibited
in very large doses, I often given ^{of Lewis} ~~off~~ with no effect whatever; but it is
necessarily here to feel our way & to begin with small doses as in all
other cases. In Acute Inflammⁿ It is not generally to be employed
In some few cases however it may be proper as where there is a stone in the
bladder or kidneys. In Hemorrh^{ies} its use is to be directed upon gen^l
Principles that is it is not to be employed in cases of active bleedings but
in those only where there is but little action & where the system is depressed.
In eruptive fevers it has been recommended - but in the first stage
it is not allowable. In small pox the cool regimen & purging is pre-
ferable. Sydenham altho' every kind of depletⁿ has recommended it in
Scarlatina but in this country it is altogether inadmissible till after
proper evacuations. In the various bowel complaints it is much recom^d
& with proper caution is very beneficial - in diarrhoea - colic. ~~cholera~~ ^{cholera}
- In colica pictonura it is very advantageous & is said to form laxa-
tives - which must depend solely on relieving the spasm by which the con-
tents of the intestines had been detained. In the bilious - & flatulent
colics it has also been useful - one dose in the latter form often proving
completely successful. ~~##~~ In the acute stage of Mania it is
certainly improper - but in the chronic form it & other stimulants
become necessary. I Physick after evacuations exhibited opium
in large quantities in recent cases - & in one case succeeded but in
others it has failed. In the traumatic cases of Stenosis opium
is very valuable, it does not always succeed, but it is much more
successful than any other article - it should be given in large

44 f. Idiopathic Tetanus is, I believe, very rare. I conceive, that the cases usually termed such are hysterical. many Rheumatic cases are also confounded with it. ~~The~~ N.S. & cold affus & are the most important remedies in such cases

II. Where the fits return periodically, Opium given just before the ^{expected} paroxysm is said to prevent its occurrence, but this is rarely the case.

III. Opium often seems N.S. to tranquillize all the symptoms. So that a much smaller dose of Opium will be successful. The habitual use of Opium in these cases is to be avoided.

quantities to induce its soporific effect. In that terrible disease by Stropharia which has hitherto resisted all our efforts I am anxious to see Opium carried to a much greater extent than it has hitherto been. It is certainly our duty to make use of powerful Remedies in a very free manner in diseases which are invariably fatal - Do everything boldly in all such diseases, you cannot do much mischief. It may be the happy means of vanquishing what has hitherto been triumphant.

Lecture 54th Feb 11th

Opium has been recommended in Epilepsy, but with very little success - we at present know too little of the pathology of this disease to expect any advantage ~~off~~ from our medicines - Dr Chapman considers it as arising from a depressed condition of the digestive organs, but this is certainly only one of the remote causes of the disease - & Remedies ad dropped to the stomach after, very often prove totally inofficacious. Dr Keene has maintained that low diet is the most successful, which might operate militate against ~~the~~ the use of opium, but it must be remembered that this is to be given in such large quantities, that it would conduce to the same end. In what is called the aura epileptica where the patient feels a sense of coldness as if a cool air was blowing upon him which in some cases amounts to a pain - Dr Cullen considers the opium as very valuable. In Hysteria it is of great service; where there is great arterial action, bleeding should be promised - which renders its effect more certain. In Asthma its effects are various - sometimes it is successful but often it has failed - experience must direct you in these cases. Palpitations of the heart are very often symptomatic & therefore are only to be cured by opium where this medicine agrees with the primary disease - If they are caused by Dyspepsia I have found the bol. alba. very successful. In a majority of cases Palpitation arises from the state of the digestive organs & is to be cured by remedies ad dropped to them.

46 I very seldom prescribe it in this disease - as it is of a chro-
nic nature & therefore would demand its long continuance.
In Pyrois Cullen considers op^m as the only remedy. This com-
plaint is very rare in this country - but is said to have appeared
in some of our Western States. It is not clearly understood
when it is idiopathic I have no doubt it is hurtful - when
it is symptomatic ~~of~~ then the remedies for dyspepsia are
demanded - particularly an attention to diet - & when it ap-
pears in the intemperate & debauched a complete change
of ~~living~~ the manner of living should be enjoined

In Dyspepsia it often palliates the symptoms but does not cure
In Lyphepsia it was at one time much esteemed, but it is now believed
to possess no antispasmodic virtues. but is successful in relieving many
of the symptoms, arising from it or produced by the more violent
I have recommended a decoction of the Poppy seeds, as a gargle in several situa-
tions - In all surgical cases opium is employed with great advantage
in relieving pain. - As to the best method of exhibiting opium
I must say a few words. There are various formulae in which it enters as
a chief ingredient: but I shall mention only the most simple ones.
It is given in subst^{nce} once either in powder or pills. The dose in a
case to an adult is grj. the pills are considered as acting more perma-
nently & slowly - but I do not like them, as they are often so hard that they
are with difficulty dissolved in the stomach, & sometimes become so en-
veloped in the contents of that viscus as to produce no effect whatever,
whenever we wish the operation to be speedy the powder is much pre-
ferable - ^{that} however you should wish to exhibit a pill, let it be made
of the powdered opium with the conserve of roses. In this way it will be
more easily dissolved in the stomach & be applied to a larger surface -
In some cases however where you are desirous of a slow operation the
solid opium may be given - Laudanum - or the Tr. Opie is a
very common mode of exhibiting the opium - there is ℥ss of op. to ℥i of
Spirits. So that ℥ss of the Laud^{um} contains about grs xxx of opium & there is
about grs i of opium in grs xxv of Laud^{um}, which is therefore the average dose
for an adult. When Laud^{um} is long made & kept very closely in a vial -
there is a deposition of the opium, so that the Laud^{um} becomes weaker, &
more dangerous circumstance is that when ~~not~~ it is not kept closely corked
up - a portion of the spirits is volatilized - & the opium not being vola-
tile remains by which the laudanum ~~is~~ becomes much stronger -
I am very anxious that you should remember this cir-
cumstance as I have known grs ij of such Laud^{um} produce death.

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you should always therefore be very ^{careful} ~~careful~~, that your laud^m is in a
proper condition - The average dose for an adult is $\frac{1}{2}$ gr or $\frac{1}{4}$ gr, always
downward bearing in mind the age of the laud^m & the habits & constitution
of your patient. To a person 15 yrs of age $\frac{1}{4}$ gr is an average
dose & so for the age of the patient regulating the size of the dose to a
child one year old $\frac{1}{12}$ gr is the dose - within the month $\frac{1}{12}$ gr only should
be given - Purgative is considerably used - it is aromatic & stimu-
lant & more agreeable than laud^m - but it is not more effectual & I
never employ it - as the dose is much larger there is a great difference
in preparing it - In our Dispensatory \mathcal{Z} contains gr $\frac{1}{2}$ of opium - but in
one of the English Dispen^s \mathcal{Z} contains one less than gr $\frac{1}{2}$ of op^m
such immense difference is of itself sufficient to condemn the article, as
we cannot tell what we are prescribing. The Vin^l of opium
is very little used in this place; it is less used & effectual than the laud^m
- The watery solutⁿ is not much used internally but often as a
glyster - In many instances we cannot exhibit the op^m internally by
the stomach - in which case we must resort to external applications & to gly-
sters - The opium plaster is prepared by softening the opium in spirits &
spreading it on leather - The Theriac plaster I gen^{ly} employ - not as formerly,
composed of 300 ingredients - but of a few active articles which ^{are} to be found
among our apothecaries, as I always use it as an anodyne plaster, I gen^{ly}
put a little of the powdered opium on its surface which renders it much
more effectual - In acute inflam^{ns} ^{no} purities with laud^m or a solutⁿ
of opium - in some cases it may be useful but I usually prefer the sugar of
lead - When given by the rectum it is in very many cases of the greatest
advantage & ^{is} very frequently employed - about 3 times
the quantity of laud^m is to be used as when exhibited by

the mouth - it is employed in various spasmodic affections of the bowels - in strangury from a blister, it is very useful - & also in tooth-aches - Sometimes the spirits forming the laudanum is too stimulant for the rectum & it is evacuated - In such cases a full period of the powder of ^{opium} & some soluble subst^{ance} may be introduced into the rectum & will prove of great service -

Before discussing the subjects of opium, I must remind you of the necessity of attending to the state of the system in administering this article - do not give it indiscriminately whenever the patient is desirous of its pleasant effects - but always keep in mind its peculiar properties, & never administer when these are incompatible with the state of your patient -

The next article on our list is the *Rhizomus Niger* or Black Herb - This is a plant of great activity - It is not a native of the U. S. but is easily cultivated - The leaves have a disagreeable fetid smell, but are insipid - all parts of the plant are narcotic - but the extract is the best employed - This has been long known as a poison & is very similar to the opium - as a soporific it is next to opium, the best article we possess.

The first effect is to increase the heat of the body, the pulse &c. but in a short ^{time} stupor, coma - & ensue. It is said that when death is produced by it the body is covered by numerous petechiae - It is a very ancient medicine, Stahl used it freely in numerous diseases - The dose is at first $\text{gr. } \text{ij}$ it may be gradually increased to vi . It differs from opium in having less tendency to induce constipation. It is employed very much in the same diseases as the opium, but the above property renders it, in some cases, preferable - The seeds are said to have been useful in hemorrhagy - but it could not be of the active kind.

$\text{Gr. } \text{ij}$ or ij from the smell alone it produces no effect. Thaw

given gr. xv. has slight vertigo & was sometimes prod used, but I ab-
stained its full narcotic powers. In Portugal it has been much used
but it possesses no advantage over the laudanum - its agent - rub-
ricated one is useful where from some peculiar circumstances opium
is contraindicated & a narcotic is wanted.

Lecture 55th Feb 13th

The *Promylenus loricatus* does not grow in America but is very poisonous
& though we have placed it among the narcotics, but it is not much used in medi-
cine - When given to animals in a large dose it is said to kill immediately
& therefore has been mentioned as a good example of a pure sedative - but that
does not prove it to be so, as we can conceive that a powerful stimulus may
destroy life immediately. In a certain dose it invariably proves fatal to a-
nimals & in all doses it produces violent convulsions - finally coma & death.

But although I have placed it under the head of narcotics I have never known
it exhibited so as to produce sleep - The distilled water is generally used - & the
doctors have thought its active properties were seated in an essential oil. But it
appears ~~very~~ by later experiments to ~~depend~~ depend on the presence of the Pruf-
sic acid - Besides the distilled water, the infusion of the leaves & the $\frac{1}{2}$ are
employed - Cataplasms of it are also said to be very useful in relieving
pain. It has been employed in Intermittents & in Consumptions it is said
to have proved useful in Tonorrhoea which I very much doubt. The dose
is from grs. v. to xv. of the water & from ʒo to ʒss of the $\frac{1}{2}$.

The Atropa Belladonna or the deadly night shade, is a perennial
plant growing in Europe - The leaves, berries & root are used - The ber-
ries have a sweetish taste & are generally the most active; but the leaves
are preferred as being more uniform. In a moderate dose it imparts a
sensation of warmth produces headache nausea &c. In a large dose acts

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as the more powerful narcotics - Dissection shows that there was infl^{ct} of
gangrene of the interior stomach as is produced by opium - When any large
quantity of it has been taken you should act as in case of other narcotics -

1st The stomach should be evacuated - 2^d The spastic symptoms be removed -
3^d The sedative effects are to be counteracted by stimuli - By gra-
dually increasing the dose a large quantity may finally be taken - It
is used to promote the secretion by the kidneys or by the skin in several
diseases. It has been used in Epilepsy, in Chorea Sacra Viti - & in ner-
vous affections In Mania it has totally failed. Broussais has recommended it
in Vertigo - In dropsy I have no confidence in it or any other narcotic
Its diuretic power is very trifling - & it should never be used with this view
only. Like opium it has been given before the paroxysms of an intermit^t
Galen has said that it has been useful in Sciirrhous & in ceruous ulcers -
He mentions some cases - but from my own experience on this subject - I am
very much inclined to believe that these cases were not genuine ceruous
affections. It has also been used in Hydrophobia - Saunders em-
ployed it with a view to dilate the pupil of the eye, gent^l as an external
Application - The dose is gr^s ij or ij of the dried leaves.

The Conium Maculatum. This is a native of Eng^d & Scot^d
& grows abundantly in the U.S. The sub^{er} leaves are both active but
the ext^{er} of the leaves is the most used. Its narcotic power on the human
species is very great, although goats eat it with impunity: in large doses
it produces the usual terrible effects of this class. Stahl recommended the
extracted juice in cases of cancer - but in other hands, it entirely failed. I have
tried the Amblych very extensively both internally & externally in cases of
cancer I hold to assert that in genuine sciirrhous it is absolutely inert: in some
instances it relieves the pain, but in this, is not equal to opium - it performs
no cures. In Serofula I have employed it with great satisfaction -
where I consider it acting as an alterative. Dr Kuhn agrees with me & adds
that he has used it successfully in a case of lepra - As to Serofula I

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Some cured ulcers of this nature which had persisted very long for upwards of
10 yrs - in two months, by the exhibitⁿ of licuta & corros. subl. Mercury
It has been employ'd in other Ulcers see those who recommends it in
disorders of the joints: in ulcer from bubo. It has been used it with
great success - In Syphilis connect'd with scrofula it is very valuable
when exhibit'd with the corrosive sublimate. In tumours produced
by inflamⁿ & commonly call'd Schirrous the licuta is useful. But
these tumours are not genuine schirrous affections they very seldom termi-
nate in cancerous Ulcerations & are form'd merely by the deposition
of coagulable lymph & there ~~the~~ bleeding, with low diet & purging
conjoin'd with mercury & licuta gen^{lly} succeeds. In chronic
rheumatism humoralis, also improperly call'd schirrous - it is very use-
ful - this disease in a majority of cases depends on a stricture in the
urethra, but not universally as maintain'd by Mr Home. In genuine
cancerous testicle the licuta is of no service castration is the
only remedy. In the mortification described by Mr Pott it has
been tried, but here I prefer the opium as recommend'd by that
Gentleman - It should also apply a blister which in one case I
have known very beneficial. In Pertussis I have no confi-
dence in it & in Sci Doloureux it has gener^{lly} fail'd - sometimes in
this case promise more than any thing else - In chronic Rheuma-
tism it is of no use - In catarrhs where V.S. is necessary, it is of
no service, but in other instances, it is occasionally advanc'd egl-
ous - In all the nervous affections it has been found use^{ful}

Dr Chapman has found it useful in some cases of Amenorrhoea
& jaundice - Licuta is also external employ'd in form of late
Plom made of the fresh leaves - the extract is used in the same man-
ner by being softened with water - the Hemlock bath is another
form - Dr Hamilton recommends this last in cancer of the Scrotum.

58 I am in the habit of commencing with gr. j. &
increasing it till ℥ij or ℥ss. are taken daily.

The dose of the powdered leaves is gr̄ss. v. or viij^{ss} which may be gradually increased till large quantities are taken. Dr Chapman has given upwards ʒj. Every day. The leaves should be taken while the plant is in flower & be dried slowly - after which it should be kept in bottles well stopp'd. When and it is of bright green colour & retains its peculiar odour. The extract is prepared by insinuating the juice of the fresh leaves - In the employment of the Licuta a always remember that different parcels vary very greatly as to strength & therefore that the dose should always be reduced when a new parcel is employed - & it is a good rule never to change the parcel of any active medicine without being very cautious as to the dose. Upon the whole I do not value Licuta as much as Barone & others - but I have more confidence in it than Dr Kullen - it will not cure cancer, but is often useful in scrofulous diseases - The following prescription is what I usually employ - ℞. mor. sub. gr̄ssij - ext. licut. gr̄ssij. in st. diti in Kil. & B L & IV. - You had better always use the plant of our country which being fresher is superior to the European - & is naturally equally good. The test of its action is a dilated pupil - nausea vertigo & when it should be omitted -

Lecture 56 th Feb^{ry} 14th

The Natural Stramonium grows very plentifully in the N. It is generally considered as a native - It is an annual plant & is distinguished by a peculiar fetid smell - it has very improperly been called Henbane as we have ^{another} articles of that name - it is known also by names of Horn apple, stink weed, James town weed or by corruption in Jenson weed which in this part of the country is the popular name. On many animals it has no effect, but this is not the case

I have never known it from fatal

with the human system. Dr Cooper has shown it to be a powerful stim-
ulus, it powerfully excites the pulse, but its sedative effects are soon
manifest. It resembles very much the other narcotics but differs in
some little respects. When taken internally it has a more direct effect on
the pupil of the eye, than any other narcotic. & the dilatation of this
opening is the first indication of its acting on the system & will enable us
to determine with considerable accuracy that the stramonium has
been swallowed. Stahl first pointed out its use & employed the
extract in epilepsy & mania & was followed by many of the conti-
nental physicians. Haller does not speak decisively in its fa-
vour. & the Baron himself cured but one case of Epilepsy with
it. Dr Astruc of Maryland has spoken very rightly of our medi-
cine in this disease. He observes that in those cases in which the
fits recur at stated intervals the stramonium is as useful as the
marked intermittent tents - he gives gr ij of the powdered seeds every
4 days & soon after every 5 or 8 days till the time of accession has past.
He then omits it till within 3 days of the ~~next~~ expected fit when
he exhibits it as before. He at these some time puts his patient on
a low diet & occasionally bleeds. Now this success of our medicine
is greater than that of any other practitioner & no one would ac-
cuse him in the above operation as to its efficacy. May not in-
deed attribute more to the low diet & bleedg than to the stramo-
nium especially when we recollect that Dr Cheyne considers a low
diet as the most efficacious remedy in Epilepsy.

The seeds are preferable in these cases they should be gathered when
perfectly ripe & then they are of a blackish colour. Flour is usu-
ally employed for making it into pills, but I prefer the G. obrat.
as by triturating the seeds with it they are more easily pulverized
which is by no means a very easy process

+ The patient to whom I here refer has since died of Pulmonary Consumption.

Internally it has also been useful in some chronic diseases of the eye; in gutta Serena it has afforded some relief but has effected no cure.

In Mania it has been very extensively employed in our Hospital
Dr Barton speaks most favourably of it, observing that it was a
safe medicine, & often effected a cure. I however have never found
it in my own practice or seen it in that of others, of the slightest use
in Epilepsy or Mania. I agree however with Dr Barton that
it is a safe article. In Tetanus, I consider Op^m as much
more powerful & have therefore never resorted to the stramonium
In Asthma it has lately been resorted to, taken either internally or by
inhaling the smoke. Its success has been various. I know one case
in which the paroxysm was always relieved by it. It is however less
effective than the opium. In consumption it is said to have
been useful, but this could only be from its narcotic effects, acting as a
palliative, in which it is certainly not to be compared with opium.

Dr Cooper recommended it before the paroxysm of an intermitting.
It has been used in palsy rheumatism dropsy &c &c but little
confidence is placed in it in any of these diseases.

The extract is very useful indeed in dilating the pupil by being ap-
plied externally, for the operations of the eye. In its use internally
it is necessary to be careful to begin with gr^{ij} of the solid & gradu-
ally to increase it till nausea is produced when it must be laid aside.

It is not employed the gr^{ij} but the dose is gr^{ss} or $\frac{1}{2}$ or $\frac{3}{4}$.
It is prepared by filling a bottle half full of the ^{Acids} ~~leaves~~ & filling
it up with spirits. The best has been externally applied in cases
of local pain. It often does good, but generally is productive of harm. For
it not infrequently induces nausea & vomiting it will not be much
employed. An ointment of the Stram^m has been used in cases
of scalds & burns, in a few chronic ulcers ~~it may~~ from burns, I have
used it, but merely with a view of changing my prescription
tune is the only thing which will answer for these ulcers.

In hemorrhoids in chirous tumours it has also been used, but

2 Volumes have been written on the ill Effects of Tobacco. as it is commonly employed in snuff & smoke &c. & these I think have been very greatly exaggerated as we find so many constantly indulg'd themselves in the luxury & gratification without suffering any injury to Eye ~~ye~~ ^{the} Persons it was sometimes to be forbidden —

to no purpose - In club foot it has been applied with a view to its relaxing effects, than which nothing can be more absurd.

Dr Barton was in the habit in his lectures of narrating some of the bad effects of this article as an external application - I have never seen it produce any effect but nausea which fully counterbalances any good which may be derived from it. In some few cases it may be substituted for the opium as it does not constipate the

bowels. Nicotiana Tobacco I need not say anything of the history of this plant which is well known - It is a powerful narcotic & Dr Cullen has gone so far as to say that this effect was produced by smelling it into the nostrils - This I have never seen although I have often seen it used freely this way by persons unaccustomed to its use. When taken into the ~~stomach~~ stomach it produces nausea & other effects of narcotics & is attended by a peculiar relaxing & debilitating effect - & by involuntary discharges by stool - As an antispasmodic it is employed in colic & hernia - it is in these cases given in the form of glyster - which is prepared by infusing $\frac{zj}{ij}$ in one pt of hot water - of which only half the quantity is to be injected at once - Its effects are considerably varied in different persons - in one case related by Dr Robert Cooper the patient died of its narcotic & debilitating effects varied in different persons so that much caution is necessary - It has been given internally in Tetanus - I have even given $\frac{zj}{ij}$ of the saturated Lr. to a child - it had no effect whatever - In New York Dr One case of Tetanus has been cured by the tobacco glysters - As an external application it may be tried in tetanus where other articles fail - This disease requires that the application should be often changed. The citrin ointment cures a majority of cases - if it fails resort to the saturated butter the garden rue the Calomel, the crocod. sublimate to the tobacco or in succession.

The *Conium maculatum* possesses similar Properties as the
above - but lately it is attracting attention as a cure
for Paralysis which will render it an object of
more importance. —

The Digitalis is a powerful Narcotic: but as I have on a former occasion fully considered this article, I now pass it by & take up the Humulus Lupulus or Common Hop. This is a narcotic, but possesses also considerable tonic power, - it cannot however be much employed as a tonic for fear of its other effects. In subletane the dose is gr iij - The ℞ is given in doses of ℥ss - The infusion in doses of ℥ss - this last I prefer in Mania a potu, where I have found it very useful, having often succeeded with it ~~alone~~. Without any other remedy - It is prepared by infusing a handful of the hop in a pint of water the patient may take it ad libitum - The saturated ℞ is often used as a substitute for the opium, but it is not sufficiently certain - it at a plasm has been employed to relieve pain - & to procure sleep the hop has been sprinkled on the pillow - but in these

I have not much confidence. ^{is an intense bitter &}
 The Faba St Ignatii possesses some narcotic power - but it is not of much value on this account - & it prevents the article from being employed as a tonic. †

Lecture 57 Feb 11th

Antispasmodics. Spasm is an irregular & involuntary contraction of a muscle - & the medicines which relieve this ~~are~~ receive the above appellation. With this view V. S. is often the best remedy, & is proper in cases of Spasm - but the name is appropriated chiefly to certain Narcotic & stimulating medicines - but there is no one which uniformly proves antispasmodic - I have already considered several of the narcotics which are used with this end & shall now therefore notice those only which are useful ~~with~~ only in this manner.

+ in proof of its stimulating operation —

And first The Camphor This can be procured from many plants
as the ~~soft~~ sassafras, sage, rosemary &c & also from the oil of Thyme
Peppermint & some others - The Laurus camphora furnishes it in the lar-
gest quantity & from it all the Camphor of commerce is obtained. This
procured by exposure to heat; when the camphor sublimes - ~~It is~~
colour, & transparent, possesses a peculiar odour, is bitter & leaves a sense
of coldness in the mouth - It is inflamm^g - all the acids act on it, & the
mineral acids decompose it; in small doses, it has a stimulant ef-
fection, in larger doses it possesses some narcotic powers, but it is a
modicum which very often disappoints your expectations.

As to its modus operandi in diseases we know very little, it
always acts as a stimulant, & should only be used when this effect
is desirable - The Old surgeons thought that it acted as a sedative
recent experiments prove that it excites the pulse - but in dependence
of these there are numerous circumstances which are satisfactory at
least to my mind. In certain febrile diseases it may be given
but never when there is any activity in the system; in the typhoid stage
it is employed with the op^m Sulphuric, which no doubt are anti-
thetical to the effect of the success. In intermittents none employ it
exclusively - but it is usually given with the bark, but adds no-
thing to its virtues. When the doctrine prevailed of the occasional
putrescency of the fluid it was considered as an antiseptic: but
Dr Sydenham has fully proved that putrefaction never affects the living
arteries & veins. Wierham recommends it with op^m as a powerful an-
tiseptic - As it is not useful in the first stage of acute diseases, it may
be in the latter, where it assumes the typhoid action & a still lower
grade where gangrene is the consequence. Purpural fever is
~~attended~~ attended by very variety of symptoms, where there is strong

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inflammatory action the lamp² is inadmissible & in the weak stage it
is inefficient. I believe its virtues in these cases have been overrated.
Camphor has also been employed in the Phlegmasia, but in the active
stage of all inflammation it is injurious, but by some it is ~~resorted to~~
in the latter stages as a stimulant. Dr. Barton has termed Camphor
a subnarcotic, that is, as possessing slight narcotic power. It is very
useful in a certain condition of the system, where depletion cannot be
carried to a further extent. & where there is considerable restlessness
& anxiety, in such cases it is more beneficial than any other arti-
cle - In chronic rheumatism it has been used but certainly not
with much advantage. In the nervous it has been favoura-
bly thought of. Cullen observed that it has prevented the paroxysm
of epilepsy, but has not cured it. I found it most useful with
the sulphur ammoniacum & flores zinci. This is very agreeable testi-
mony as more is to be imputed to its combination than to its
alone virtues. In Tetanus it has at the present day no ad-
vantage - neither has it any supporters in Charac. It. Inobsti-
na with spasm it is not useful. In Mania Dr. Cullen records
one case in which it was serviceable, but this may be said of almost
every article which has been used in that disease, & I believe
that the camphor has little or no efficacy. Dr. Barton however
says that he was completely successful in one instance. In
Convulsions of females Dr. Hamilton employed it although he
condemned $\frac{ss}{ii}$. The practice in this disease you will learn from
another source. — In strangury from blisters it
is useful although it occasionally produces the same affection.
As to its mode of exhibition, the dose is on an average gr. v.
but it has been given in much larger doses - gr. x to ℥ is not un-
frequent, & prescribed - cum ℥ij & also ℥ij have been taken, but

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G. Dr. Wallace of Virginia mentioned to me, that it is best given in Seltzer water by which it is dissolved.

H. In this way I use it in cases of strangury & gradually increasing the dose of the tea to ℥ij & ℥iv.

I. This is an admirable remedy in that species of dysentery frequently produced by poisonous vegetables, the watery or spirituous ^{Preparation} is employed.

*. It is soluble - & gives up its virtues to water -

†. That by this formula Tetanus has after been prevented I have after thought.

in an over dose it induces nausea & vomiting. It is given in the form of pills or of emulsion - lately it has become very fashionable to ~~to~~ rub it up in milk, which makes a very neat preparation - I often give it as a tea; the Camphor tea is prepared by putting a lump of Camphor in a cup & pouring a little spirits on it that it may be powdered & then adding the hot water. In Symp. of Turpentine, it forms a very useful external application. ϕ

Musk - or Musk. This is the product of the male of an animal in the East - It comes to us in small grains, contained in hairy bags - It is unctuous, has a bitter taste, & a powerful peculiar odor - It is easily volatilized & gives its ~~fragrance~~ odor to articles distilled with it - It has some of the properties of a resin, but is generally much adulterated before we receive it. ϕ

In diseases it is not much employed. Dr. Kullen considers it as the most powerful antispasmodic we possess. In Tetanus I have not found it of any service, but it is I think an admirable remedy in the tremors & Paralysis arising from intoxication - in such cases my prescription is the following ϕ \mathcal{R} Val. Alk. & Muski. aa $\mathcal{Z}\mathcal{ss}$, Lib. $\mathcal{Z}\mathcal{ij}$. Laud. gutt. $\mathcal{L}\mathcal{v}$. $\mathcal{R}\mathcal{ij}$. $\mathcal{Z}\mathcal{ij}$. m. - From a number of comparative experiments I am decided, that the above formula owes much of its virtue to the musk. - Dr. Owen employed it successfully in a singular case of spasms of the muscles of the neck.

In Hydrophobia Dr. Kullen has I think, committed himself when speaking of this article for it is of very little service. In Laut of the Stomach it may be useful, but in no other ^{of this disease} case. In Paralytic Cholera. It formerly had considerable reputation, but at present little confidence is placed in it. In low states of the system it may be useful, we had recommended it in $\mathcal{P}\mathcal{P}$.
- I have seen narcotic effects produced by this article; the

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+ An artificial musk has been introduced by Margram & is
said to be equal to the natural musk - it is prepared by pouring
the ~~nitrous~~ nitrous acid on the oil of amber.

done is $gr\ x$ or xx - I prefer exhibiting it in small doses of three
grains - given every 2 hrs. It is given in the form of Beales, but
I prefer the exhibition - As an injection it has been employed, but
for this it is certainly too expensive. \times

Caster. This is procured from the beaver - it is situated in small
sacks near the anus - The best comes from Russia, that from our
own country is not near equal to it. Chemistry shows no difference
between it & the castor gum - Cullen considers it as a powerful anti-
spasmodic - In Epilepsy it has been recommended by the old Phy-
sicians, but in every case it is inefficient - Caster at present is very
little used on any disease - Its dose is $gr\ x$, xx , or xxx .

The same may be said of the various Embryumatic oils - ~~the~~
The oil caducei is a preparation of Mart's stone sometimes employed
but it is very difficult to retain on the stomach & is not equal to the cork
ammonia. — Oil Succini. The Amber has no virtues what-
ever, but the oil is useful - In Hysteria I have found it eminent-
ly successful - Here the dose is $gr\ x$ - I prefer here also the doses small
& frequently repeated as more liable to be retained - It is also equally bene-
ficial in Spasmodic colic - where I have seen it act very powerfully: as an
evacuation it has also been employed but it has no advantage above
the real one. The most valuable article is the Gum of Aspidochelone,
which is obtained by exudation through incisions in the back of the
Tortoise of Persia - & the gum is brought to us in large masses
the appearance & odour of which are well known - Dr Cullen at-
tributes all its virtues to its action as an antispasmodic certainly
much of its value depends on this property - It is therefore employ-
ed in various nervous & spasmodic diseases - in Hysteria it is
the first resort of the practitioner - & is often successful in re-
lieving the paroxysms - It sometimes acts as an expectorant.

X It is an excellent article to resort to, when opiates are forbidden by any of the circumstances of the case. //

I will here take the opportunity of observing that there are no ex-
pectorant medicines properly speaking - that every remedy which
relieves the disease of the lungs may be considered as expectorant,
thus bleeding, purging, blistering &c are powerful expectorants only
however as they destroy the inflamⁿ which prevents the natural secre-
tions from taking place; thus also *assa fetida* may be useful as an ex-
pectorant - after inflⁿ has been overcome in promoting the secre-
tions. ~~It is~~ It is for these reasons that I have not introduced
the claps of *expectoⁿ* into my list - expecting that the observa-
tions which I have made in particular articles, will enable
you to adapt ~~your medicine~~ them to the indications which the
disease may require. In Asthma it is useful to relieve spasm
& also the flatulency which often prevails - here acting as a carmi-
native - I may make the same observations respecting Carinae
tine as I have of expectorants - all articles proving carminative
which overcome the existing disease of the digestive organs. In Per-
tussis our medicine is equalled by no other - my practice in
this disease is to exhibit a dose of calomel every 4 or 5 hrs - till a-
bout 3 doses have been exhibited - after which I resort to the
watery solution of *assa fetida* - in the proportion of ʒi to the ʒss,
ʒi being given to a child 2 or 3 yrs old every 2 hrs. With this
practice I am very much pleased, as it always renders the disease
mild & relieves the violent paroxysms of coughing & probably
shortens the duration of the disease. In mania a pueri it is
useful - & where persons are endeavouring to overcome the
habit of intemperance, the use of garlic & *assa fetida* are very useful
by - The dose of our medicine is from grs v. to ʒi. large doses
however are apt to excite nausea & should not be used.

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I usually combine it ~~with~~ Zij in Ziv of Rose water, Zij being
the dose - as that in this there is gr. v. of the medicine which is
to be given every hour or 2 hours. It is also given in Glyster
to gr pint of mucilage - half of which is to be administered at
a time - This is said to be useful in cases of ascari des, of this I
have no experience - preferring always the turpentine.

Very analagous to this is the Stem Ammoniac - which is per-
haps the best expectorant we possess Zij being ~~administered~~
dissolved in Zvij of water - the dose is Zij . The following
is the formula which I usually employ Rij of Zij - Scot.
 Silla Zij - laud. gr to Zij . mus. L. grat. Zvij . m. This I
have used very frequent ly & with great advantage -

Lecture 5 th Feb^{ry} 18th

The Valerian is another Anti-spaasmodic which is more used than
most others, It grows in Europe but not in this country. The root is the
part used which comes in slender fibres attached to one head. It has
a disagreeable smell & a bitter taste like all other roots it yields its
virtues to alcohol & to water - It is certainly a stimulant article &
acts as a diaphoretic & diuretic, occasionally as a cathartic & emetic
Dr Suller thinks it has some power over epilepsy in this disease
many have employed but it very often fails - Dr Barton thinks that
it will relieve but that it will not cure - In chorea - in hemiera-
mia it has been tried but unsuccessfully - Et or Zij in these cases re-
commends that Zij should be administered 3 times a day - Pechter
used it in Gutta Serena, but I believe that in genuine cases
of this disease it is of no service. In febrile cases it may be

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+ It is also given in infus^o - but it deteriorates when
long kept - its volatile active parts being volatile.

useful when a tonic & diaphoretic power is wanted - It possesses
no anthelmintic virtues - although this has been ascribed to the
the case. Dr Cullen advises it to be given in substance in the
dose of ℥i to ℥i. +

The crocus, ^{Saturus} or Saffron, I have so often used without benefit that
I am disposed to throw it out of the list altogether - so also the
essential oils - these are all stimulant & all carminative - & are
often given in small doses with other medicines by which they may
be retained - this effect is obtained by their stimulant power -

Tar & tar water are used as antispasmodics they act partly
in this way & partly as stimulants - they are useful in complaints of
the chest & in dyspepsia - I have also employed them with ad-
vantage in scrofula. The Warm bath properly very useful
properties - which I have not time to detail, its greatest vir-
tue however is as an antispasmodic. - The Allium Sati-
vum is another article which we must not pass over - This is
much used by the Spanish & French as a condiment, more so than in
this country - Cullen has ranked it under ~~the~~ his stimulants, but
it is also an antispasmodic & may be properly considered in this
place. It has a strong odour & a peculiar taste; the bulbous
part is the part employed - the juice of this rubbed on the skin in
flames & sometimes unicates it, but in this respect it is inferior to
the siligone plants. Often in cases of local inflⁿ it is useful,
frictions with the juice are serviceable in ~~Lata~~ Pustules.
Also in certain cases of deafness it is useful when inserted into
the external meatus by exciting the secretⁿ of cerumen, but I
prefer more stimulating articles, as the ℥ of Cantharis.

In the stomach it acts as a stimulant & promotes digestion

+ denied this - asserting that we have many tonics - which
are not bitter & many bitters which ~~do~~ give no evidence
of a tonic operation.

but in this country it is not much used - there is no article however that is more safe & useful as a condiment - It is customary to take it by swallowing a clove at a time - it is better however to divide it into small pieces - sometimes the juice is employed internally. In diseases it is not to be employed where there is much fever - it opens passages by the kidneys & it is probably absorbed into the circulation. After the reduction of febrile action it may be employed with advantage in many cases - In Intermittents it is not attended with much success. Sydenham used it in dropsy in the pectoral complaints it has been much used but it is not equal to the squill - in many diseases of the stomach & bowels it has been employed.

Tonics - These form a class of remedies which leaves the head stronger, in this respect differing from stimulants which leave the system exhausted & debilitated. But I believe that this is not the only difference, but that they essentially differ as much as cathartics & emetics. A certain state of the muscular fibre is necessary for strength, & tonics are those medicines which impart this - They ^{belong to these} may be considered as a tonic but we mean to confine the medicines which give tone to the system by a certain impression - As to the nature of tonics - Dr Cullen attributed it to some quality which gave them a bitter taste.

Dr Barton ^{disputed} ~~of this explanation~~ the question however is of but little importance, we may however observe that bitterness generally accompanies a tonic but the power of the medicine is not proportioned to its degree of bitterness - Some other properties of an article may overcome its tonic power & thus render it useless when employed with this intention - Thus the nar-

X. It is in the same manner they act on the alimentary
canals

lotis power prevents its action as a tonic. Tonics do not
act only on the muscular fibre, but they permeate every part
of the body - They make an impression on the stomach which
as in other cases is propagated to every other part - Thus it
is in the first place propagated to the muscles increasing their tone
2^o to the brain when that organ is debilitated - 3^o to the
Nerves - when these are incapable of performing their usual
functions 4^o To the absorbents - as in dropsy where they have
lost their ~~to~~ natural activity & power - 5^o To the Cellu-
lar membrane which enables it to retract after the distension
water in dropsy - 6^o To the blood vessels - increasing their power
- Increased frequency of the pulse is by no means a evi-
dence of strength - many other properties are necessary to indi-
cate this state which can only be learnt by experience -
7^o To the skin - as is well seen in the effects of the skin of spi-
ritual stopping the perspiration - Thus we might trace its
influence to every component part of the body - Are Tonics ab-
surd? This question, I have already in a great measure answered
Some of them may be absorbed, but their beneficial action
is not to be explained by this - they operate altogether by the im-
pression on the stomach - Tonics have been called Perma-
nent stimulants - how long they continue to act is very doubt-
ful - they have received the above name as they are not fol-
lowed by the exhaustion which succeeds the stimulant & narco-
tic medicines. As to the diseases in which they are useful
these will be noticed under the individual articles -
I shall consider the whole under the two divisions of

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Vegetable & Mineral Tonics - Of the former upwards of 40
are on the list - but I shall content myself with naming
the most important - Extract of the Peruvian Bark

This we place at the head of our list as being the most important
tonic we possess - Dr. Barton has eulogized it too highly, in maintain-
ing, that it is equal to all others of the class. It is ^{now} more than a
century since it has been in general use. In 1638, it was discovered
& named Cinchona - from the Countess of Cinchona, in whose case
it was first employed; in 1649, it was introduced into Europe
by the Jesuits, who were very successful in its use - they gave sig-
nificantly ^{it was} a dose - & very seldom ^{that more than} 2 or 3 doses ^{were} necessary - some-
times one was sufficient. The Botanists enumerate 14 differ-
ent species - but there are only ^{three} species which are generally known & which
probably comprise most of the others. 1st - The Cinchona lancifolia,
being probably the same as ^{it was the first used but} the pale bark - ~~the~~ we do not see it
here. The tree is tall & thin & is found on the Andes in Peru. The 2nd
is the Cinchona oblongifolia - this grows to the height of 120 ft. it
is the same with the red bark of the shops. The 3rd is the Cin-
chona cordifolia - this is small & has rough leaves: it is said to
furnish the yellow bark. Much has been said of the com-
parative ^{strength} merit of these different kinds - the red is generally the best
but it is likely to be adulterated & the preference is usually on
this account given to the pale bark which comes to us more pure.
The bark has a bitter taste, with some degree of astringency
& some aroma - when first taken into the stomach it produces
very little effect. The investigations of the Chemists have
thrown very little light on this subject. Look at Dr. Percival's

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Lecture 59th Feb 20th 89

The use of the Cinchona in the treatment of diseases, is always to be directed under the belief of its being a decided & powerful tonic. The case to which it is particularly adapted is the Inter-mittent Fever. The first question, says Dr Cullen, is what time is it to be given? Boerhaave directs it, after the disease has existed for some time as he believes if exhibited too soon it does mischief. It should however be exhibited early in the disease - delay however is by no means dangerous & it is often necessary to resort to some preparatory measures. When there is much action an emetic, cathartic or even V. S. becomes necessary. It is very customary to commence the treatment of all fevers with an emetic - this is very excellent practice - but it is so disagreeable, as not always to be submitted to - & in most cases a brisk mercurial purge is equally effectual & not un frequently puts a stop to the disease. On the subject of the Peruvian bark I must beg you to consult Dr Cullen, as he is here very valuable. His examination how far visceral absorption forbids the employment of the bark is one of the best examples of critical reasoning with which I am acquainted. Where there is visceral disease, the state of the organ affected is to be attended to - if there is much inflammation bleeding becomes necessary - but these diseases however require remedies not usually demanded by the fever - such as mercury which is very

90.

* Bend is a warm advocate for its early exhibition
There has no advantage gained by getting it the moment
the sweating has ceased - nearer the ensuing Paroxysm
will be better -

4. These remissions should be well marked - they occur only in the latter stages of the disease that is during the convalescence - During the ~~first~~ violence of the disease bark is improper -

much confidence of it when given in such large doses. If the bark
~~It~~ should be rejected by the stomach - a decoction may be made of
3i in a pt of water with a little cinnamon or an orange peel,
this is to be strained & 1/8 part is to be given every hour or 2 hours
It is often in such cases combined with the Serpentaria. In
those cases of intermittents in which there is a determination to the
head - P. V. blisters must be previously used. In Intermittents
bark has been much used, ~~here~~ in this country they are generally
too inflam^m - but where it is proper to exhibit the bark there-
misfires are the proper time - In Typhus Gravior & Melior
the cinchona is very valuable - but in general it is too feble
by itself - with, h^{is} andy, vol. alk^{is} - are usually demanded.
In ~~the~~ Plague bark has been employed, but this disease we
never have had in this country - In the P^hlegmonia, it is never
to be employed where there is much inflam^m - in some slight
cases it may possibly be allowed - Cullen thinks, that it may
be in some instances resorted to after the inflam^m is subdued
but Morton advises that after one or two bleedings in in-
flam^m of rheumatism, the bark should be exhibited - Fothergill
& Haughton go upon the same plan: the last of these states
that out of 121 cases, the bark proved injurious in 4 only -
this is more successful than any plan hitherto adopted, but
in this country such practice will by no means answer
The disease here requires the free use of the lancet - &
the bark whatever - There are some cases of rheuma-
tism arising from or so closely connected with intermit

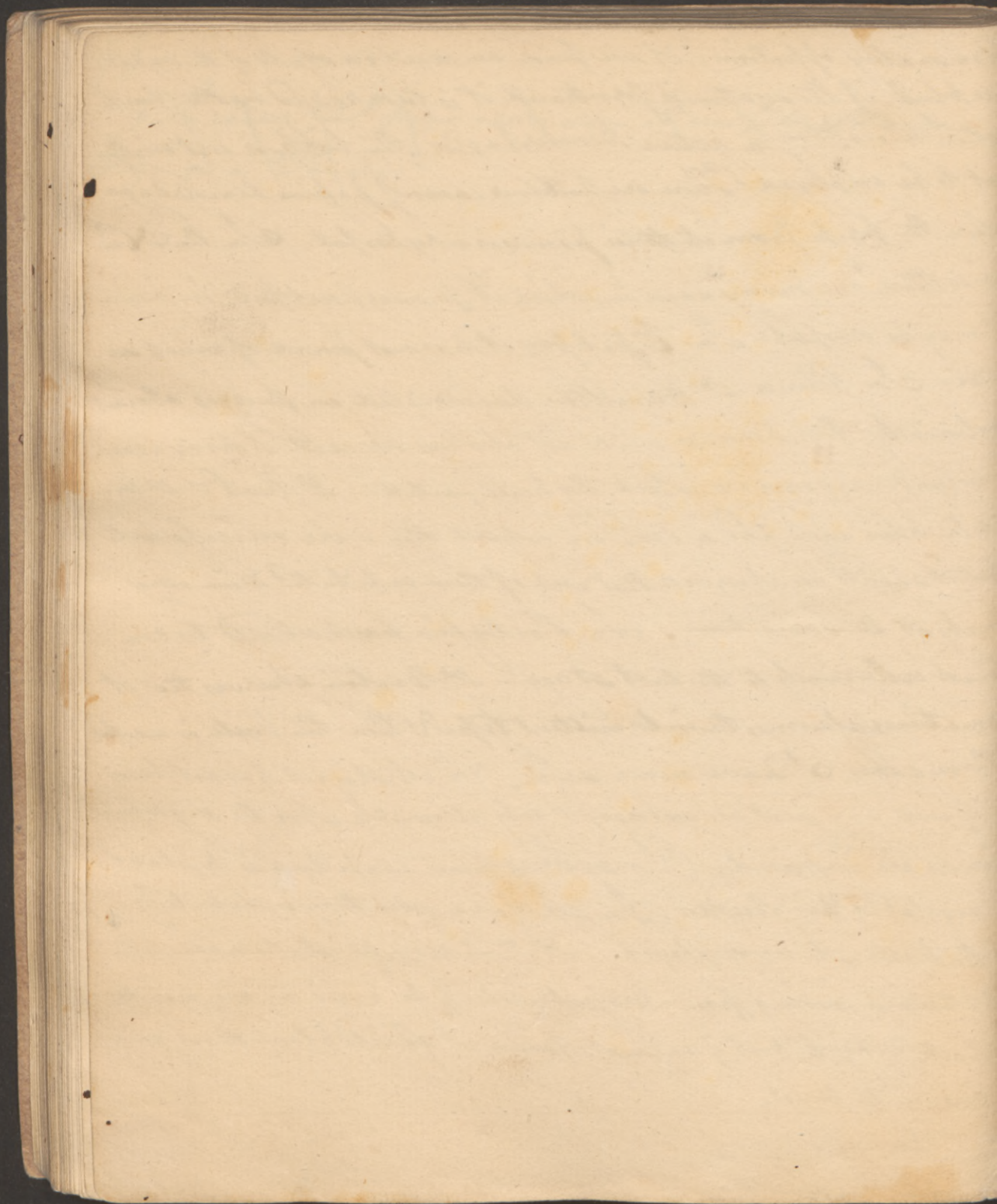
†. In headache it is sometimes useful. - I have lately
cured a case of periodical headache - the paroxysms of which
had returned every other day for 10. yrs. by exhibiting
first an emetic & then ~~soon~~ employing the bark in
small doses.

-tent, that the bark may become necessary, not however if
any inflam^y symptoms are present. In America it has
been recommended by two of my predecessors Dr^s Barton & Chapman
but of its efficacy in such cases I have no experience. In Great Br
Barton thought very highly of it. In dysentery it has been recommend
ed by many high authorities & been condemned by others. Now I shall
not quote but content myself with observing that bark is at the
time inadmissible in this disease; during the convalescence after the
disease has ceased it may be employed & then only. In pulmo-
nary complaints it has been employed, but I think there is no case to
which it is applicable. In what has been called ~~bilious~~ Pleurisy of the
head where there is cough - pain in the side - dyspnea & violent head-
ache, it is said to be useful, but I have never seen any case in which
it would be proper. Bilious Pleurisy require the lancet rather than
the bark. In typhoid Pleurisy we often resort to the bark - as pen-
taria &c. In consumption it has been much used - in the early
stages it is undoubtedly very hurtful - & Dr Cullen observed that it
is hurtful in 9 cases out of 10 of Pth thisis. Marton & others
maintain that it is productive of gr^o injury - this I am disposed
to deny - I have great doubts whether the bark is not inadmissi-
ble in all cases of Pulmonary disease. In erysipelas the prac-
tice in Europe & this country is very different - there they give
bark & tonics - here we resort to V. S. and the anti-phlogistic sys-
tem. Eruptive diseases are to be put on a footing with the other in-

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In case, I have never seen it useful otherwise
than as a tonic.

Hæmorrhagic affections if we find an excited state of the system we bleed. if the system is prostrated it is to be raised by the bark & other tonics. In active hæmorrhagies the bark is certainly not to be employed. There are however cases of passive hæmorrhage where the bark from its tonic powers is very useful. In the Nerves there are many cases in which it proves hurtful, in some it may be useful. In Epilepsy it has not proved of much service. In Rheum Dr Hamilton has insisted on purges almost exclusively. These however will not always succeed. I have a case now under my care in which they have failed. Dr Musc & Dr H. each have each had a case in which they were successful but it should be observed that each of them exhibited to me very freely at the same time. In Pertussis bark should be confined exclusively to the last stage. Dr Barton observes that it sometimes assumes the intermittent type & then the bark is useful. These cases I have never seen. In Asthma it has not been used with any great advantage, & only allowable where the digestive powers are impaired. In scrovy more confidence is to be placed in vegetables & in Acids. In scrofula when there is debility the bark is to be employed. Dr Fothergill relates a case of Ophthalmia arising from Scrofula which he cured in one month by bark & by a diet of animal food. I should place more confidence in the latter.



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