

Dr. Torrey,

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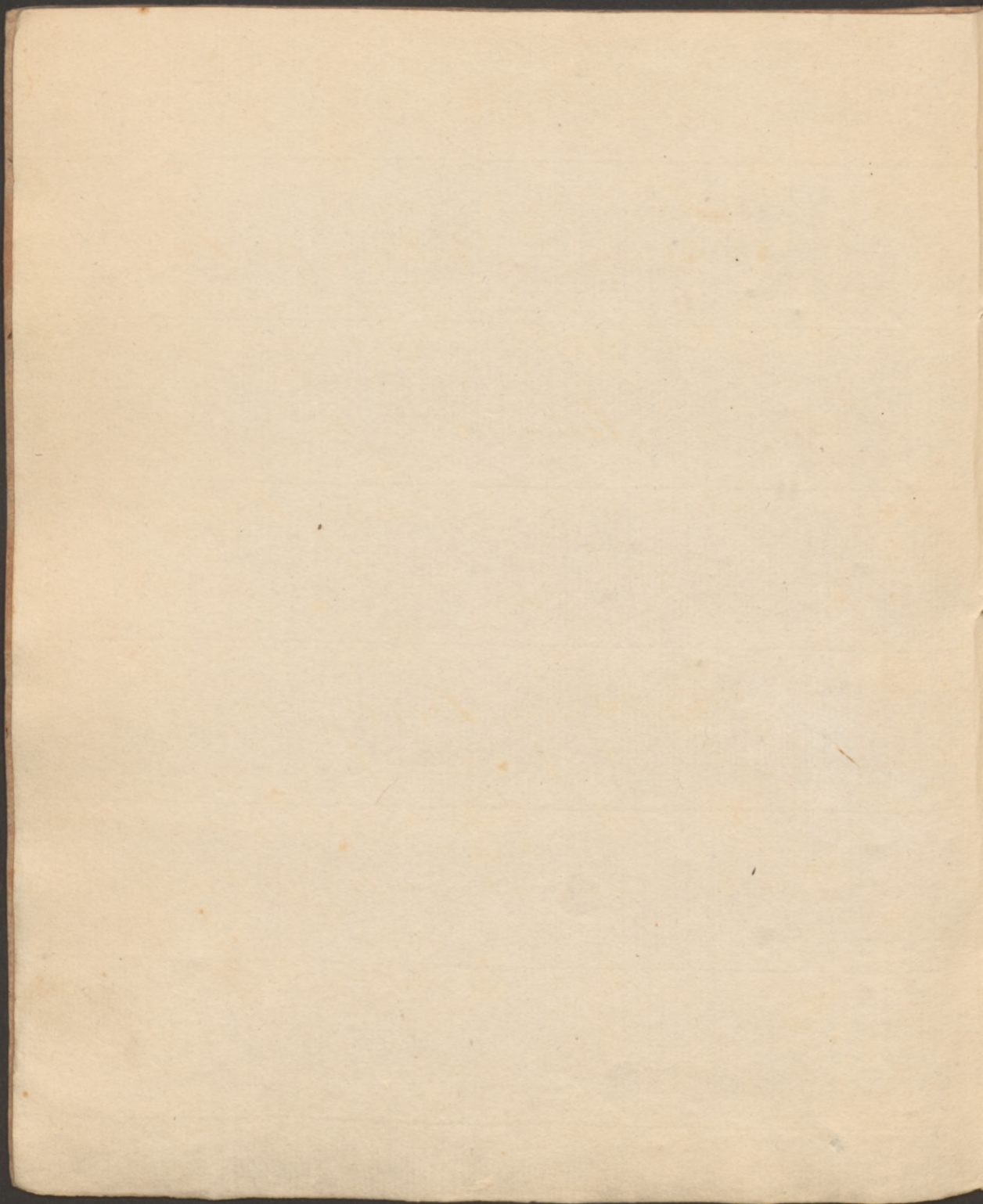
Phila. 1816-17.

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1817-18.

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Notes on the Materia Medica
Being the substance of a course of lectures
Delivered in the
University of Pennsylvania
by.

John Syng Dorsey. M.D.

Taken during the winter of 1816 '17 and enlarged
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Volume 1

A History of the

by

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Lecture 36th Jan^y 10th Dr Parry - 1817. 1.

We will now notice those substances which when taken into the stomach, excite diaphoresis. The several emeticks are perhaps the most powerful in this respect. They all, when taken in doses not large enough to excite vomiting, promote the exhalation by the skin, but none of them are so effectual, as the preparations of antimony, especially the tartar emetic. When the diaphoretic operation of this medicine is required in fevers - I prefer the antimonial powder already mentioned. Besides the mixture there used the tart. emet. is given with other salts frequently with the Sulph. Soda. ℥j of the Salt & grs. of the tartar emet. being dissolved in ℥viij of water, ^{or in Rhenish water,} ℥i to be given every hour or two hours. The Antimonial Wine is much used & is often very convenient, especially for children. It was formerly prepared by dissolving the glass of antimony in wine which was a very uncertain preparation, ^{its activity} depending on the quantity of acid in the wine, as now prepared from the tartar emet. it is uniform in its strength & possesses an advantage - that the dose can easily be graduated. But as there is great variety in the irritability of different persons we must always observe cautiously we must feel our way in the administration of the tartarized antimony. Within the month ℥t. i of the wine will be sufficient to excite sweating - Under 5 yrs we may give ℥tss ij. iij. or v. & for an adult ℥tss xv to xx. ℥tss xxx is a large dose as a diaphoretic. The wine will answer in usual cases of fever - in violent cases however, I prefer the solution in water - It is being dissolved in ℥viij of water - ℥i to be given ^{for an adult} q. s or 4. h. This is much preferred ^{in which} in irritable cases, in bilious fevers - in dysentery, & Pringle gives ^{it} a decided preference ~~to antimony~~ & thinks, that there is nothing equal to it. Antimony acts, no doubt on the stomach directly & sympathetically on the skin; as it produces its effects sometimes very quickly - The imagination

tion also of the patient facilitates the action very much, so that, so long as we
will to correct promote sweating only; it is often necessary to conceal from your
patient what you are giving him, as otherwise it will be very apt to pro-
duce vomiting. In Refluxion the antimonial powder is often very useful
one being given every hour or so; but if the skin becomes moist - the pulse is
retained, & the pulse abates. ^{& artificial crises is induced.} The powder, known by the title of Jem's pow-
der was formerly much employed; its composition is very similar, ^{to that of the} pow-
der ^{as} the oxide of antimony with the phosphate of lime. It is insol-
uble in water. ^{It is insol- or in the form of a pill} ^{or in the form of a pill} ^{or in the form of a pill}
in large doses it ^{excites vomiting.} Dr. Keir has seen it much employed in one of
the Edinburgh institutions & he states that it is very useful in some
producing no effect, & sometimes acting very powerfully, & moreover that all
its advantages can be procured with equal benefit & more certainty by
the emet. tartar. He has also employed it in his private practice with a
very similar result - so that in a short time he entirely abandoned it.

A very common & excellent sudorific is the combination of Laudanum & the anti-
imonial wine in nearly equal proportions from grs 20 to 30 of each. The emetic
tartar is not to be given to gouty or dyapeptic persons, subject to cramp of the sto-
mach, or to terminations of the bowels - as it frequently in such cases produces un-
pleasant effects. Ipecacuanha has also been much used as a diaphore-
tic - & is to be ranked as a relaxing medicine. - With the view of exciting
sweating only it is given in doses of grs. ʒi to grs. i or ij. every hour or two.
with nitre it is often conveniently used. ʒi of nitre to ʒj of ipec. divided
into viij powders. The Dover's powder is another formula in which it is often
prescribed - as also the ipecac - wine: of this ʒij is the dose for its emetic prope-
rations, as a diaphoretic - grs xxx to ʒi every hour. Besides the ant. & ipec.
the other emetics are useful as diaphoretics. the use of which may be under-
stood from what has been said; they should be given ^{not} when the stomach is irri-
table - or when there is debility - as they all must be considered as ^{relaxing} relaxing med-

4. ⁺ Of these Potash in union with the citric acid - is much employed in London - in this city also it is a good deal employed - thus prepared it is termed the neutral mixture - when taken during oppression - it forms the anti-emetic mixture or pepper-
peeling draught, so commonly employed to ease vomiting.

⁺ When you are employing nauseating articles as diaphoretics it is useful occasionally to interpose the saline mixture - as by ~~the~~ the emetic articles the stomach becomes so irritable that the smallest dose cannot be exhibited - in such cases the neutral mixture is very pleasant - tranquillizing, & restoring tone to ^{the stomach} this organ so that the former articles may be renewed.

• It does not excite the pulse as the other ammoniacal salts.

The Neutral Salts are employed as diaphoretics. ~~Of these, Potash~~
is prescribed especially in the European countries in the formation of the
fever. This operates both as a diuretic & diaphoretic & is often useful in de-
creasing acid in the stomach. It is used in this place also but I think should be
more frequently employed than it has hitherto been, as it is very useful in ma-
ny cases of irritability of stomach, especially in fevers, producing at the same time
a gentle diaphoresis. It is prepared by adding to ℥ij of lemon juice, a suf-
ficient quantity of the pot ash to saturate it - smelt it with sugar & add
℥iv of water. To this a little Laudanum or some volatile oil, as the al. urine
is sometimes added. ^{Done ʒss. every 12. or 2. hrs.} Vitre is a useful diaphoretic. It acts, not only on
the skin but also on the kidneys & bowels, being a general warmant. It is in
this manner that we must explain its power of diminishing the pulse. It forms
an ingredient in the antim. pow^r, so often referred to. The dose by itself is
from grs ʒ to ʒv. The mar. of pot ash & mar. of ammonia have been em-
ployed, but are now neglected. The acet. of Ammon. or the Common Pot
Shinners, is entitled to a place on our list. It acts as a gentle diaphoretic &
has been much employed in fevers, ^{especially intermit^t} & forms part of the antiphlogistic treat-
ment. The lithate of ammonia pot ash as above noticed is seldom rejected
from the stomach & therefore is very useful in those cases accompanied with
considerable irritability of the stomach. — The carb. Ammonia-
has been employed as a diaphoretic but its powers are too active to be employ-
ed under this view alone & I shall therefore more particularly notice it under
Calomel is sometimes said to excite sweating. if so, it is the weakest of
its numerous powers, which are generally too important to admit of its
being used in this manner. It is often mixed with ant. Vitre, in the ant-
powders. The diaphoretic powers of which do not appear to be increased
by the addition. — Of the vegetable diaphoretics Spain has
been much employed but is properly as ^{or} diaphoretic only. It however

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* while the sudorific ~~of~~ powers of the compound are increased.

H In different diseases the article employed with the opium
Idea: may be varied - thus instead of nitre - we should
employ Chalk - in Dysentery - & in the affections of the stomach
& bowels generally: &c

D. In Taut, it is some used - but there is no disease in which
we should study the particular state of the system in relation
to the administration of our remedies - as in this - remember this
in administ^g the Dover's Powder as the stimulating & narcotic
powers of the Opium are often injurious -

always acts as a sudorific, & has been observed to form an ingredient in al-
-most all the sweating powders, at different times recommended. It is often
united with antimony & ipecac, & it is noticed, that in such combinations
both the opium & the emetic have their ^{by Murray} powers diminished. The former be-
ing apt to produce narcotic effects, & the latter to irritate & vomit.
The prescription of Laud. \mathfrak{ss} & ipec. \mathfrak{ss} & ant. \mathfrak{ss} is much used.
As also, that of op & ipec in the form of Dover's Powder. Of this grip as
a medicine done. In some cases, where its cathartic effects are desired, I
have preferred, the sulph. of potash to the nitre. Dr Barton has re-
commended sugar or L. Symplic but I prefer the salt, as being a finer ar-
-ticle cooperating with op. & ipec, & not inert as the sugar &c. As to
the employment of the Dover's Powder in producing sweating & the attention
to be paid during its operation, I beg leave to refer you to Dr Cullen &
need not however be always given in the morning, as he directs; & often
in the evening without inconvenience. It is used in intermitt, 9 remitt & fluxu
with a frontage. In several of the Phlegmasis. Cullen has supposed it
beneficial during the suppurative stage of a phlegmon. It is much em-
-ployed in inflamm Rheumatism, but remember that Vena Section &c should
be previously reduce the system, as otherwise your medicine would not only be
useless, but injurious. The narcotic power of ^{the} opium, although occasioned
yet always manifest & should be remembered in its administration. In
Dropsy it has been recommended - A case of diabetes has lately been re-
-fused in which large doses effected a cure. Dr Ferriar has also mentioned
Camphor as a diaphoretic it is however very little employed. There are
several other articles which may be noticed under ^{other} heads, which have been
occasionally employed - but which are not much used ^{all they} of any impor-
-tance.

Lecture 27th part 13th

The Eupatorium Perfoliatum has been considered as a diaphoretic. It is a native of the U. States & is known by numerous names. It has been regarded as emetic, cathartic, sudorific, diuretic & tonic. The leaves & the stem are the parts generally used, although the whole plant possesses active powers. Dr. Barton recommended the flowers. It is given in infusion, which when taken warm promotes diaphoresis. Our Indians are said to employ it as an emetic to cure intermittent fevers, & also as a diaphoretic in some cases. When however we want an emetic we have better ones, than this & we have also better tonics. By some it has been recommended as a very excellent diaphoretic. Dr. Henschel of New York has spoken very favourably of it, as also has Dr. Chapman my experience in intermittent fevers has not been very great, but from what I have seen of this disease we do not want any new remedy. I have always succeeded by emetics, cathartics, occasional V.S. followed up by the berry, or arsenic. I have seen it employed in the bilious vomiting fever & exactly in the yellow fever, of this, then I can speak boldly & decidedly. in all the cases in which I have tried it has been of no more service than an equal quantity of warm water, producing occasionally only a slight diaphoresis. Dr. Barton was doubtful whether as a sudorific it is equal to the Polygala Senega. It has been employed in dropsy & in various eruptions on the skin, of its employ use here I acknowledge that I am sceptical. In Pneumoniae typhoides it has done a great deal of good, whether from any specific power or from the sweating excited is doubt full. Upon the whole the Eupatorium has I think been underrated, but it occurs the less frequently some active properties which prove very useful. I shall say a few more under another head. The Polygala Senega has been employed as a diaphoretic. In the form of decoction $\frac{zj$ to the pint it has been used as a diuretic &

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which he says will open the bowels & I have not found this effect to be produced in less quantity than from ℥j to ℥i. In Gout it is undeserving the attention it has received, Cullen thinks that, as all other remedies which prevent the attacks of the gout will finally prove injurious, so also condemns the guaiac. But there are cases of gout which are closely allied to Rheumatism in which it is useful these cases are, whether gouty affections of the stomach & bowels alternate with pains in the limbs. The diffusion ^{in mucilage} I do not like, as whenever the guaiac is allowable, the quantity of spirits forming the tincture will not be hurtful. If I wished to pay an eulogium on Guaiac, I would tell you that it has been useful in colic & flatulency - but as in this & in many other cases its ~~effects~~ virtues have been magnified, I have confined myself to what is better known to be matter of fact.

The Mezerion. This comes from the North of Europe & has been noted by Dr Cullen as an active stimulant. It is more stimulating than the Guaiac. It is sometimes given by itself or with a little liquorice root in decoction, it diffuses a gentle warmth over the ^{system} ~~system~~ in doses of ℥ij. but in larger doses produces emetic. Late writers have recommended it in chronic Rheumatism & especially in venereal cases, & have imitated in these diseases the celebrated Lisbon diet drink by variously combining the Mezerion the following I prefer - ℞ of the shavings of Guaiac. ℥ij. of liquorice & Sassafras root each ℥i. water 10 lbs. To this some Sassafras may be added to obtain a little mucilage for it possesses no active powers whatever. I have employed gallons of this medicine in chronic Rheumatism & in the venereal cases & in my opinion it is inert as an antivenereal remedy; but on this subject I will give you the experience of Mr Pearson which is rather more favourable - He states that sometimes it appeared to remove some secondary symptoms & to alleviate others; but that there was no satisfactory series of evidence that in any case it had eradicated the lues venerea. The patients would sometimes be apparently well; but always returned, even

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with the same kind of symptoms as before, if he had blotches on the skin. He would return with a renewal of these. This is saying very little for it in the venereal disease.

The Savine. This comes from Stachis & Zosteris. It grows in this country & has been recommended for the cure of chronic Rheumatism. Dr Chebman has found it serviceable in many cases, I have not used it much but can state that it is a stimulating medicine exciting the pulse, producing redness & itching of the skin, eruption & sweating.

Sialagogues are those medicines which produce an increased discharge of saliva from the mouth. They are divided into external or masti-
-catories & internal. The external are those articles which when taken in to the mouth excite an increased flow of the saliva. In a certain sense all our food & various substances would be sialagogues - but this is confined to certain stimulant powers which have a more direct effect on these glands. The most useful & the only one to be noticed is tobacco - this certainly excites the flow of saliva - but this increased discharge can have no effect in a curative point of view - no one would think of employing these medicines unless they produced some other effect. We will therefore only consider the internal ones. & indeed only mercury, as all the others have very slight effects in this way. Hydragyrus or Mercury is then the only powerful sialagogue - powerful because it adds to this virtue, many others which we are now to investigate. From its diversified effects by means of its various preparations in numerous diseases, it has received great attention. It was not however to keep secret - first noticed it as an anthelmintic - but it was at that time looked upon as a poison & fell in to disuse. About the 15th Cent^y it was again revived as an anthelmintic & to facilitate perspiration. Since this time its virtues have been generally explored.

many of them are now known but I believe we have yet much to learn on
this valuable medicine. In its crude state it performs activity, by its
weight it was formerly employed to overcome obstinate constipation -
as also in cases of piles & haemorrhoids - but it was soon found to be useless.
Its preparations however are very active & valuable & much are owing
to the Chemist for their introductions into our Science.

Lecture 38th Jan 14th

There is an account ^{given} of the effects of mercury, whether in a crude or ^{oxidized} state I will not determine which is rather singular - A British man
of ^{War} during the siege of Calais had a bag of quicksilver burst in his
hold - the consequence of this was, that the whole crew were salivated - What of
fact the rolling of the ship & the consequent motion of the quicksilver might
say, we cannot decide; it was however manifest that from some circumstance
it proved very active. The miners, who procure the quicksilver, are seized
with many morbid affections & live but a few years; it is said ^{here} few more
than 4 yrs. after they have entered the mines; they are affected with tremors,
palpitations, convulsions & various nervous affections. Crude mercury,
when boiled gives a particular taste to the water, but I've never maintained
that it has no active power. There is no loss of weight in the metal - yet the
water no doubt possesses this peculiar taste.

Many preparations of mercury are in use & however different they are
in some respects, yet they all possess the power of salivating. This consists
in dependant of the increase of salivary, of an inflammation of the
gums - mouth, tongue & fauces; this, in children especially, sometimes ter-
minates in Gangrene - & sometimes from the swelling & suffocation has been
threatened, or actually produced. Salivation is induced sometimes
with great difficulty & sometimes with great ease - I have known it
freely brought on by $\frac{1}{2}$ a gr of calc. subli. in one instance death

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to be taken from the ptyalism brought on by the antimonial powders.
The effects of mercury are first a moderate fever & fatid breath among the first
symptoms of its effect on the mouth is soreness of the gums at the roots of the
teeth. — Of the preparations of mercury, some are made by trituration
with some unctious substance, where according to some & which with very good
will it should be placed. Of these is Plenk's solution prepared by rubbing one ounce
of the mercury with ℥ij of S. Arab. & ℥ij of water. This was recommended by
its author as procuring the good effects of the mercury without salivation, this
however is not the case - it is very similar to the blue pill, but is not so plea-
sant. The blue pill is also made by trituration with several subtle unctious
as S. Arab, manna, rhub. &c. &c. I prefer chalk as facilitating the tri-
turation & as being serviceable when the bowels are very irritable. The mercu-
rial ointment is another preparation of the diaphanous made of different
degrees of strength according to the different proportions of fat or lard. In all
these it has been disputed whether the mercury was oxidated, minutely divi-
ded only or what is altogether imaginary whether it was dissolved in the ac-
id of the lard. Forbye declares, that the mercury is simply divided,
as with the aid of a microscope, the globules could be seen. The experiments
of Dr. Belusier however seem to prove that a portion of the mercury is oxide-
d: whether oxygen is really united or not, does not appear to be accurately
determined. The activity at any rate depends on the mercury & not on the
oxygen. With acids & with oxygen, mercury forms compounds certainly
more active than those already mentioned. Before noticing these it will
be proper to say a few words on the modus operandi of mercury.
Little was known of the operation of mercury previous to the discovery
of the circulation of the blood - at that time it was maintained by the me-
chanical Philosophers, that mercury by its great weight was carried thro'
the capillary vessels & thus removed every cause of disease -
Paracelsus, Cullen & others considered it as an evacuant - so more

late writers have affirmed that it cures the venereal disease by neutralizing the venereal virus; which is certainly not true; mercury has no such power, the matter of chancre will produce chancre however diluted mixed with mercury. Mr J. Hunter's opinion on this point is in my opinion, the only true explanation. It is accurate but it is deficient - as far as it goes it is certainly true. His explanation is founded on the doctrine, that no two opposite actions can exist at the same time in the same place or in the same constitution: & therefore that mercury cures the venereal disease by inducing a new disease, which is curable or which subsides when the cause producing it is removed, & which as it were drives out the prior disease. Dr Adams has illustrated & confirmed this opinion in a very satisfactory manner. In curing the venereal then, mercury must act on every part of the body.

Is mercury absorbed from the skin, stomach &c when it produces a salivation? In all cases, we cannot, as has been maintained, suppose that any medicine acts before it is actually formed, tho' at present, is self evident. In the living body, there are certain properties - one of which is irritability - this is that property by which action is produced from the application of a stimulus; A second property of every living body, is the capability of propagating this action to every part of the system - this is Sympathy. By these two properties are all actions, both healthy & diseased performed. Now it must make no difference, as whether the stimulus is applied to the skin, stomach or blood vessels; by saying, that it is applied to the inner coat of the blood vessel gives us no solution of the difficulty; it is not here in contact with the solids, upon which it acts - it is only bringing it nearer, than when it is in the stomach, but the action on the solids must be explained in one instance, precisely as upon the same principles as in the other. But is the mercury absorbed?

This has been said to be proved, by globules of mercury having been found in the milk, in the bones & in the blood, Walther related numerous cases of this kind, collected chiefly from other authors; it has also been advanced by Mead - B. Boerhaave, Boyle; & now it is very difficult to set aside the testimony of such men, yet we may say, that men are very liable to be deceived on points, in favour of which they are prejudiced, & besides, the experiments & observations of all late writers have never giving the least sanction to these opinions; these persons have never found mercury in the milk, bones or blood. Dr. Sydenham was taught to believe, that mercury was absorbed into the system, but meeting with a case, where salivation was induced, ^{during} ~~the~~ ^{the} continuance of a ~~influx~~ ^{influx} in which he had been told was impossible, he was induced to make some experiments on this subject in the year 1798, which were published & which completely satisfied him that mercury was not absorbed into the system - or at least, that it did not appear in the blood or secretions, & that salivation could be induced by an impure or the alimentary canal by the mercurial preparations.

Lecture 39th Jan^y 16th.

I now proceed to the combinations of mercury & omitting the long list which you will find enumerated, I shall select those which are the most useful. With Sulphur Mercury forms two combinations - the first is the Sulphuretum Hydr. nigrum or Etia psominel made by triturating equal parts of sulphur & mercury together - it is not much used: sometimes as a purge in doses of 5 to 10 grs. The second is the Hydrar-Sulphure-Resinum which is prepared by adding 5 parts of mercury to 1 of melted sulphur - which is then powdered & sublimed. This is very inert when taken into the stomach: it is now only used in a vapoury state - in which it is more active.

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With muric acid mercury forms two of its most valuable preparations
calomel & corrosive sublimate. These names I prefer as they are less apt to be
mistaken for each other, than the newer ones of mercuric & sub-mercuric, al-
though these last are very properly given. In these salts the mercury exists in
two different states, although formed of the same materials. But of their
chemical history I shall say nothing as on this point you will receive ample
information from another source. Calomel in my opinion is the best
preparation of mercury we have - indeed it is equal to all the others.

It acts as a cathartic for which it is very often employed - & also as a si-
lagogue: with this view it is given in small doses of grs ss or ij . twice a day
or $\frac{1}{4}$ gr three or four times a day. The first dose usually produces some
purging & on this account many have objected to it, but it should be remem-
bered that after the first or second dose it has no effect on the bowels; if
it should have, the addition of a little opium will prevent it. In fe-
brile cases where we wish not only to salivate, but also to evacuate the
bowels gently - calomel is undoubtedly the best medicine we possess.

The corrosive sublimate is escharotic & in large doses poisonous, inflaming the
stomach & quickly destroying the patient. I do not know what would be
the best antidote for this when taken in too large a quantity - the stomach
should not simply be washed out, as when other poisons are taken; & large quan-
tities of lime water or solution of pot ash be swallowed which would pro-
bably decompose the extract. The dose is from $\frac{1}{8}$ gr to $\frac{1}{6}$ or $\frac{1}{4}$ twice or
thrice a day, either in the form of pills or of a solution. The former is greatly
preferable care should be taken that each pill contains the due quantity.

Oxidum Hydr. Rubrum, is prepared by boiling mercury under
expense to the air. It is seldom used, the dose is grs ij twice a day.
Oxidum Hyd. Rubrum per nitratum acidum rubrum, the
common red precipitate of the shops is prepared by dissolving mer-

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away in nitric acid - evaporating the solution & expressing the powder to a great heat, till it becomes of a bright red colour - This contains a small portion of the acid united to the oxide of the metal, & is more active than the red oxide just mentioned - it is seldom given internally but is much used as an external application, as it possesses considerable escharotic powers.

Oxidum Hyd. Cinereum is prepared by precipitating the mercury from its solution in diluted nitrous acid by means of the water of the carb. ammoniac. its dose is grs ij or iij.

Sub. Sulp. Hyd. flavus, commonly called the Serpent's mineral is prepared by dissolving the mercury in Sulphuric acid & throwing the powder obtained by evaporation into boiling water. This has been used as an emetic in the treatment of a lague, but possessing no peculiar advantages at any of the be discussed ^{cases.}

Hydraz precipit. albus prepared by precipitating mercury by means of the acid ammon. It is used sometimes in ointments but except by its white colour has no advantage over the red precipitate.

These are the preparations of mercury at present much used & the only ones which I have ever employed or it need ever employed. I refer you to the Dispensatories for a number of others, if you should wish to employ them. I proceed to the employment of mercury in the cure of diseases of spirit in Fevers. In the treatment of these, it was introduced about the beginning of the last century by several of the West Indian Practitioners & with considerable success. Dr Chris Holm Rowever has the credit of its introduction. He undoubtedly was the first who employed it with any fixed object & who publicly recommended it. In the years 1792-4, 5, & 6. He made numerous trials of it in the fevers of the W. Indies. These he considered under 2 heads - the first he called a malignant, pestilential, & contagious fever. & the second a mild yellow, remitting fever. He did not employ any previous evacuations but prescribed the mercury in very large doses 5 grs every 4 or 5 hrs till salivation was induced - by ~~the~~ ^{the} ~~the~~

some 10 grs have been given every 3 hours, so that salivation has been excited in 24 hrs, & with success. This bold practice has been sanctioned by many others & they observe, that when the mouth opens, becomes sore, the patient always recovers. But, as in every other medical subject some respectable practitioners are opposed to the practice. — Dr Warren has drawn up a very able account of the fevers of the W. Indies, well worthy of much attention. In this country mercury has been much used & the experience here is very favourable — Dr Rush has published the result of it; which is, that salivation is a most cert & in remedy, I have not, says he, lost a patient who had been salivated. Sometimes however salivation cannot be produced — When the mercury acted on the bowels Dr Rush added opium. Dr Jussfield of this city went still further & always gave opium with the calomel — This I do not approve as in many instances opium is contraindicated. In all the cases in which in this city we employ this or indeed any other remedy, we consider it as auxiliary, & at the same time employ other methods of cure — In typhus fever its advantages are not so well determined. It is said to have been successful in some trials in the W. Indies — but in the jail & hospital fevers it does not appear to answer. It is certainly not to be employed where there is great prostration of strength. In the typhus epidemic of New England which prevailed during the years 1798, & 1802 — Dr Warren employed it very extensively & with success, in large doses of gr. x. or xv. of calomel but he used it at the same time both in powder, blisters &c. — In typhus mitior Dr Rush has employed it with advantage he states that it renders the pulse stronger & fuller — Dr Hamilton has pointed out that the system bears evacuations better than might be supposed — In the Phlegmonia it has been much employed, for ~~many of the~~ especially in the local inflammatory affections. In small doses the mercury proves very useful in many chronic cases, without throwing

the reason why altogether, it does not salivate or produce any sensible evacua-
tion. In such cases it is called an alterative. Chronic ophthalmia is very
often benefited first after every other remedy has failed, increases also of spira-
ty of the vessels I have often known it successful. In phrenitis after power-
ful evacuations, as V. S. purging &c. salivation is very useful. In mania
it should also be tried as it often restores the patient - although it is often as
every thing else is, too tardy in its effect; but it has succeeded oftener than others.

In Pneumonia after evacuations it is very useful. In New Eng^d. where
V. S. has been less employed in pleuroy than here, the physicians speak
very highly of calomel as proving a most valuable expectorant & relieving
the difficulty of breathing. In other parts of the country however we cannot
depend so much on calomel we trust more to the lancet - we are not altogether
guided by the pulse, but we bleed for pain & oppression of breathing &
then resort to calomel & not before.

In Consumption Dr Rush has highly recommended it. He relates many
very many cases of success in his own practice & in that of others throughout the
U. S. I however believe that Dr Rush never in reality cured a pa-
tient of consumption. He & I & magisters who adopted his practice, cured
~~perhaps~~ chronic inflam^{ns} of the lungs, attended with hectic fever &c. but
no case, I believe of real tubercular affection - In the former, mercury
will often effect a cure, but in the latter it will only relieve the symptoms
under the patients, & it from the life, & more tranquil & pleasant - (By some it
has been recommended in cyaneum maligna - I Douglas observed ^{that} these
cases indeed, are gained, in preparing the above evacuation by mercury.
Dr Barton also advises that we should purge with turpentine & vinegar
& purge with calomel. The mercurial fumigations have also
been employed. In croup Dr Rush has employed calomel
very extensively. Dr Hamilton has succeeded him, who has given

to a child of 2 yrs of age 100 grs in 24 hrs to operate as a purge. Dr
Kuhn also gives it in large & repeated doses, although he not equal to the
theory of its operation is very simple that by a powerful action on the glands
of the intestines, a new action is produced which is incompatible with the
disease. He uses in conjunction with it the usual remedies, blisters, ~~and~~
leeches & emetics. I have calomel. Purging with this should be continued so
long as any of the effects of the virus remain as hoarseness cough &c. You should
remember that this disease is subject to remissions, so that we must not antici-
pate too soon that our remedies are successful. I have not only had been per-
formed in some instances of this disease - I once tried it without success.
In another case in which the patient was apparently dying with a loud
countenance loss of sense &c, I was requested to make an opening into the
trachea I made an incision through the skin, a small vessel was divid-
ed - in an instant the patient began to breathe & in 5 minutes she
enjoyed this faculty with perfect freedom. Now this operation is not every
clear whether by fright, by the pain, by the bleeding or all jointly is doubt-
ful.

Lecture 40th Jan 14th

The calomel should be continued in all cases of protracted catarrh from
croup or breath of Maryland has recommended the corrosive sublimate
in such cases - In Rheumatism it is often employed with advantage
after other evacuations have been promised - In chronic rheumatism it
has often succeeded where every thing else has failed, but it is frequently
unsuccessful: in what has been called syphilitic rheumatism, it has
been forbidden by some authors who imagined this disease to be produced
by mercury previously taken - this is not the fact - The best proof of
it is, that mercury will cure it - I have always succeeded in rheuma-
tism following protracted syphilis by salivation - it is therefore not

the ~~collar~~ but will will even ~~the~~ cure disease - In gout it has not
been much employed - In Hepatitis it is deservedly considered as very valu-
able, first in large doses as an evacuant - & afterwards in small doses
to sedate. In India where this disease is very common, it is used in
all the stages, & is found useful where the organization of the liver is not de-
stroyed - Faillon, who practised considerably in that country, considers
it as indispensable in the last stage of the disorder. Dr Barlet & Morlet
anatomy proves, that many diseases ^{after a certain period} become in-
curable by ~~the application of calomel~~ ~~to the liver~~

~~This is very true of hepatitis.~~ There are several states in
which it is found by dissections enlarged simply; enlarged & scirrhous;
- containing tubercles - destroyed by suppuration, containing hyda-
tids & now in the 3 first of these calomel should be used & there is
some prospect of success, but in the last it cannot possibly cure & must add
to the weakness of the patient. In practice we cannot thus determine
the state of the liver & therefore we employ it, whenever the strength of the
patient will ^{be} sufficient by ~~strong~~ great. In the West Indies they do
not promise ^{the use of mercury} bleeding & are not so successful as in the East Indies
where they employ V. S. in conjunction with calomel & where they are
very successful in its treatment. In Scorbut it is a useful remedy
especially when of long standing - Indeed in all affections of the liver
calomel is a very popular & useful remedy - & is not forbidden by pe-
culiar circumstances is to be prescribed. - In the several profluvia
it has been found ^{in practice in Scarcia} useful - This I consider as a case of bilious fever
with the inflammations of the intestines - Norice, Lind & Calpurn have
found calomel very useful in dysentery - In the chronic stage they have
confided much in a salivation & in the East Indies they also employed
it under similar circumstances. Dr Burton after having used it for

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a few days omitted it, if it did not prove beneficial in that time, from
a fear that a dangerous relaxation might ensue. This however is a very
rare occurrence & the remedy certainly ought to be persevered in till some
effect is manifest. In Rhombic Haemorrhage, & in the opposite affection
constipation they ^{mercury} have been useful. Some have also noticed it officia-
ly in colica pictorum. In the claps & Neuroses mercury is a very valua-
ble remedy - in Epilepsy it has been used but with not much advantage, in some
cases it is apparently of service. Sometimes in this disease there is an effusion
of water. I have depicted a case where a large cystic d. was situated on
the basis of the brain & another in which there was an exostosis. In all these
mercury promises more than any other remedy from its power of promoting
absorption. In Tetanus it has been employed - but in this disease I
do not place much confidence in anything but brandy & opium. In Hydro-
phobia it is entirely useless - either as a remedy for the disease or as a prophyl-
actic. Dr. Barton recommended that a salivation should be induced just before
the attack was expected. But the only prophylactic in which I have any
confidence what ever is the excision of the part, which when properly per-
formed & sufficiently early is always successful. I have performed this ope-
ration several times & always with success. In Hypochondriac's accom-
panied with dyspepsia. Dr. Barton has recommended & I think that
it is very likely to prove serviceable & I should undoubtedly try it. In
long continued cases of Dyspepsia it has no doubt been of service.

Try the mercury in all nervous cases where other medicines have failed
I where you wish to produce a change in the system -
In the lues venerea it has been much celebrated - especially in dropsy
In all cases of dropsy it has been employed as an expectorant & when
never there is any visceral disease it is given as diuretic. In Hydro-

phalax it has been advised - This disease I believe to arise from a kind of
inflammation of the brain, differing from common inflammation but still of the same
nature - I therefore think that this disease is in the first instance a species of Pleu-
ritis or inflammation of the brain - & that like other inflammations it terminates sometimes
in resolution & effusion - Hence then, it appears that the patient may die
from the inflam^{tion} or from the secondary effect, the effusion which produces
compression of the brain - & from the inefficacy of our remedies to pro-
mote absorption in the brain, we should endeavour to avoid this ter-
mination of the disease by the most powerful evacuations as N. S. leech-
drawing, blisters &c. &c. - now in the early stages we administer the mer-
cury as an evacuant - & in the latter stages we resort to it as a sicilogogue
In cutaneous diseases mercury was first employed, generally externally,
as an ointment, as the external ointment for the cure of tetter - In Leprosy
it has been employed - I have seen but two cases of this disease, in both of
which it was ineffectual; Leprosy has been regarded as a modification of the
Venereal & mercury has accordingly been ~~found~~ thought to be serviceable - but there
is no ground for these suppositions - In dyspepsia it has ^{been} said to be use-
ful & perhaps it may have been in some cases, but this ^{is} ^{probably} ^{arises} from ^{some} ^{peculiar}
^{many} ^{causes} to us unknown, that no hope can be entertained of relieving
it by our remedies - In some affections of the eyes, viz. in inflammation of the
lids, it has been employed, as in recent opacities of the cornea in which I have seen
it of great service in some cases - in some few instances also in opacity of the
crystalline lens - It has also been employed in Guttula Serena but with
no success. - I come now to the treatment of that disease
in which mercury has been so justly & so greatly by the world celebrated.
I allude to Syphilis - This disease, I believe from an examina-
tion of the various authorities did not exist in Europe prior to the
discovery of America - whether it was brought to Europe from America

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is a matter of very little importance - At this time however it appeared & surprised the practitioners of that period - who could not cur it. They were not succeed in finding the disease so loathsome & appearing especially in such a variety of disgusting forms - It spread through Europe, baffled the skill of the ablest physicians & proved more destructive & terrible than the small-pox, itself - The primary forms of this disease are two, Chancere & Gonorrhoea - to which some have added, Blasph - but this always appears as a consequence, & our superior affection. As to the nature of Gonorrhoea & Chancere, I will not say anything at present - contenting myself with observing, that, ^{as far as} is our medical part what ever better established, than the identity of the two diseases - I shall now confine myself to Chancere & its consequences.

Lecture 41st Jan'y 20th

Chancere is an ulcer originating from the application of unresol matter. It is usually to be found on the organs of generation in both sexes, as these are the parts most exposed to infection. Some persons are more liable to be contaminated, than others. Persons whose prepuce is short & less liable than those who have a long prepuce - as in the former there are fewer lodging places for the matter, & perhaps also, the parts are more hardened from their exposure - on this Jews & Mahometans escape the disease more frequently than Europeans. Chancere, does not occur so often, as gonorrhoea. 4 or 5 cases of the latter appearing to one of the former - In hospitals the reverse of this might appear to be the case, as persons affected with gonorrhoea seldom are so unwell as to desert their usual occupations & apply for advice. Chancere in men occur most commonly on the prepuce, glans, & skin of the penis - In women it is usually on the labia & parts exterior to the vagina - but by no means all doubt, sometimes in the vagina itself. The time of their appearance after infection varies in different subjects, & in the same person at different times, & also accord-

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to the parts injured. The first appearance of all these is not dissimilar, would
be on the prepuce. Then prepuce, next the glans & finally on the skin which is
the slowest in ~~forming~~ ^{forming on the prepuce & then} on 24 hrs. chancere has sometimes appeared
& sometimes it is after the lapse of 3, 4, or even 7 weeks. It is preceded by an
itching of the part; & on the glans a small pimple is observed, accompanied
with slight pain, but ~~very~~ little induration. On the prepuce & prepuce, there is
more pain & redness, attending its formation. The appearance of a chancre
is sometimes so well marked, that it can immediately be told, but this is not
invariably the case, you cannot always decide by inspection. The pimple
soon disappears, ulceration taking place, the itching is changed to pain &
there is a thickened, solid, hard base with thick, prominent edges. Whenever
the prepuce ulceration often makes a hole through it, when on the skin of
the penis, it forms first a pimple which is soon covered with a thick scab,
presenting none of the characteristics of a chancre. When on the prepuce
the swelling & induration often cause phymosis & paraphimosis.
The matter, from a chancre varies very much, in colour, quantity & consis-
tence. It is sometimes thin, viscid, greenish, & sometimes its characteristics
are very different, so that you should never hastily decide, that it is venereal.
Sores sometimes appear & enlarge the size of the chancre & sometimes
it increases by ulceration, as in common Phagedenic ulcers. From this they
have been divided into sloughing & ulcerating chancres. They sometimes
rapidly spread over the penis, I have known the whole penis to be affec-
ted in a very short period. This has been attributed to some peculiar
circumstances of the matter, but it is more reasonable to suppose, that it de-
pends on the constitution of the patient. To prevent the contamination
of the system, mercury is the only remedy, which should be relied on. The
destruction of the part has been trusted to, ~~the~~ ^{the} cauteries & the probe have
been used to remove the diseased part. & they have succeeded & that also
very quickly. They can also be cured by the specific ^{more} remedies, which however
is very tedious, in this manner chancres prove the most ^{more} tedious in the
cure - than any of the other forms of syphilis. The best practice is

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to combine the two methods & resort to mercury & caustic applications.
Fever, occasionally attends, which is to be treated on general principles, as
also upon debility, tonics &c are to be had recourse to. I give the prefer-
-ence to caustics in removing the diseased surface, as the knife removes a very
large surface & often produces great hemorrhage. Of the caustic & escharo-
-tic applications the lunar caustic & red precipitate are most used. From
some experiments I am inclined to prefer the latter as I found that more
but ~~so~~ resulted when the lunar caustic was employed than when the red-
-precipitate. When the cure is treated to local remedies, the mercurial prepa-
-rations have been preferred, as they were considered to be capable of changing
the action of the part. This may, in part, be the case - but I think it de-
-pends much more generally on their escharotic power. In their use Mr Hunter
involved them in a mucilage, as more likely to be effectual than when any
dry substance was applied. The red precipitate ointment is most used
in chancres; ^{as also} the common mercurial ointment - calomel - solutions of
the blue or white vitriol. of the corrosive sublimate. Precipitin
ointment & various others. To prevent the occurrence of phymosis, or to
cure it when present, put. & a proper position should be attended, the pe-
-nis should be supported against the pubis, as as to facilitate the return
of blood. When chancres are underneath, the prepulse they are to be washed
by injections of mild fluids & sometimes by solutions of corros. sub. or other
articles. gr. i of the corros. sub. & ℥i of water is very useful - calomel
suspended in a mucilage of G. Arab is often useful, sometimes a little
laudan^m may be added. When dangerous, these injections are too irritating
then cleanliness only is to be attended to by injections of mild fluids.
The inflamⁿ of the prepulse is to be counter acted by lead water or the
cold poultice & by leeches. The only permanent & certain mode is the cutting
up of the prepulse which is best done by the guarded bistoury, when the
tension is very great an incision is to be made from without, as the

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object is to expose the chancre you should always examine, whether this is at
Gaimard - When this operation is omitted nature attempts it by producing ul-
ceration ^{or sloughing} of the foreskin. The operation ^{of the surgeon} however is imperfect, as it leaves
the large triangular flaps which prove troublesome & the cure in such
cases, circumcision is to be performed. Sometimes the foreskin has firmly uni-
ted to the penis forming one solid mass. In Paraphimosis the Glans is
denuded & a stricture is formed behind ~~it~~ ^{it}. This is to be divided as
the former but it is often necessary to cut from ~~it~~ ^{it} without, when this is not
done gangrene of the foreskin ensues & sometimes of the Glans. But the ul-
cerity of this last being greater than the other it generally remains.

In every case whatever of chancre mercury is to be given - grs or grsij
of calomel are to be administered twice a day, the first doses well after
purge - but this effect soon ceases - if it does not - a little opium is to
be added. The blue pill is also very excellent & of late the Phosphate of
Mercury has been recommended. This last I have not much employed in
one case however in which I found great difficulty in salivating. I
gave the Phosphate which was quickly efficacious. The mercury is
always to be continued during the whole of the cure unless the chancre be
very large, when it may be desisted from when the process of skinning com-
mences; when very small it should be continued a few days after the chan-
cre has healed. As to the ptyaliva - this is a great inconvenience & has
been on this account much objected to by Patients, if the system can be et-
fectually without it, let it be done, it is sufficient to keep the gums a little
tender till the chancre appears a healthy granulating surface - when its
venereal disposition is destroyed. Among Patients & also their Physicians
great fear is entertained of exposure to cold or wet. I have employed over
every under all the vicissitudes of our climate - & I have never seen
these effects - Wet no doubt will produce ^{the injuries} effects sooner on a patient under
the influence of mercury than on a healthy ^{person} patient, but there is nothing

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peculiar in these effects. Cold is one of the best specifics we have for the cure
the property of mercury. When the chancre occurs on the lips, caustic may
be speedily applied & cured. In women the chancre is easily cured, but as dressing
cannot easily be applied washes are more used than in men; an inflamⁿ of the
breast very analogous to that producing phlegmon in ~~men~~ women sometimes occurs this
will soon be dissipated by the usual measures for relieving inflⁿ in other
parts. When chancres occur in the vagina, care should be taken that adhe-
sions of its sides do not take place. Whether from absorption of the vi-
rus or from a sympathetic action, buboes result frequently from chancres,
& of course are generally found in the groin. The system is not necessari-
ly affected in this ^{the disease} ~~case~~ & can be cured as well ~~as~~ ^{as with the} ~~as~~ ^{as with the}
when the bubo is present & when it is absent. W. Bell considers bubo
in some instances as a primary form of the disease; in this he is op-
posed by many writers - W. Adams considers such swellings in the groin
as are not preceded by the other forms already noticed as not venereal
& maintains that no constitutional symptoms were result from them
& that no mercury is required for their cure - I have had several cases
of a similar nature - In one lately I gave no mercury whatever, my
Patient recovered completely. - The lymphatics going from the
chancre to the gland are not always inflamed, a hard cord can some-
times be felt. At sometimes a red line can be seen marking the course
of the inflamed vessel - but this is seldom the case - In some cases
these vessels inflame & ulcerate. Sometimes a bubo will be formed
after the chancre has completely healed.

Lecture 42nd Jan 21st

A bubo is the inflamⁿ of a lymphatic gland, accompanied with
considerable pain & tumour - it quickly ends in suppuration, &
ulceration takes place ^{or} rapidly, that it quickly points, sometimes

proves it is slow in its progress - The skin is of a florid red colour - & the quantity of matter discharged is very large. The dissection of pabs is always to be attempted. At first, the disease is local; but the constitution will become contaminated, & mercury should therefore always be given. All the remedies for inflammation to be had recourse to. Frictions are to be employed on the inside of the thigh, that the mercury may pass through the gland; if this proves too tedious, it is to be administered internally. Bleeds are to be employed, & above all blister, as often as is necessary, even after suppuration has taken place, & in this manner the whole is generally diseased. Sometimes however we cannot prevent the suppuration. In such cases it must be opened, but we should not cut through any depth of parts. The question has been agitated whether caustic or the lancet should be employed. I think that when small, the lancet is to be used as there is no soft kind of skin which will form a tedious sinus, but when the abscess is large & there is a considerable portion of skin, which must be removed at one time or other, the caustic is preferable - A poultice should afterwards be employed - When the system sinks we must look to the bark & stimulents. The sea bath is also very important; when this cannot be commanded - I have resorted to a salt bath with great benefit - Half a peck of salt being thrown into a common bath; in all scrofulous dispositions especially, this is serviceable - & when this taint is suspected I use cicuta very much, & I think, with advantage - I combine it with the corros. sublim. Of extract. Ciut. gr. ℥iv. corros. sub. gr. viij. in it diss. in pul. No ℥iv. — Off not interrupted in their course venere & pabs will inevitably produce most in symptoms, which are called constitutional symptoms, or phthis. lues venerea corrosiformis Boerh. - These secondary symptoms appear on the skin or in the nose mouth, fauces, on the tonsils & sometimes on the tongue - The parts first affected are generally ~~the~~ the throat & mouth. These are very easily

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would by mercury although, this medicine will not prevent its occurrence
of the throat have acquired a predisposition to disease - Mr Hunter relates
several cases sufficiently illustrating this doctrine. (See Hunter) These ulcers appear
usually six weeks after contamination, with blotches on the skin, or with
ulcers on the tonsils, sometimes one & sometimes the other has the prece-
dence. The ulceration of the tonsils is far different from that of common
inflammation; it is preceded usually by languor, loss of appetite, some fever
& redness, when the skin is affected similar symptoms precede & are
succeeded by a coppered coloured spot having a whitish appearance
(presumably in its centre, owing to the desquamation of the cuticle. The
size of the spot does not increase but the number of them does; when
they are exposed to friction ulceration sometimes takes place & in other
parts also there is often a slight collection of matter under the cuticle.
The cure of these symptoms depends on mercury, & is generally speedily
effected. Litonic acid has been recommended by experience in
affections of the throat but I suspect more from its local applica-
tion than from any ^{power of destroying the} general poison; as I have sometimes found it
seemingly like a simple demulcent when taken into the stomach the
following is the formula. ℞. Nit. acid ℥ij. S. Carb. ℥ij. ℞j. ʒvi. m
ʒj is the dose two or 3 times a day. As to the quantity of mercury ne-
cessary, Mr Hunter formerly directed it to be continued a fortnight after
the cure. The practitioners in London advise 2 months which is proba-
bly necessary. As a local application the catartics are useful - the most
suitable is the best as it can immediately be neutralized with vinegar
& thus prevented injuring the contiguous parts. The diet & regimen of
the patient should also be attended to. The second stage of syphi-
lis consists in swellings of the joints, tendons, fascia & liga-
ments. These are slower in their progress & requiring a longer time for
their development, so that it is always doubtful whether the
patient will prove them or not. The cure is to be accomplished

in the same manner as the former, only that the treatment is to be conti-
nued for a long time. Excisions here are preferable, as the long use of mer-
cury interminably would injure the tone of the stomach. In general no local
treatment is necessary, when very obstinate the nodes may be opened by an
incision or be cauterized. When a node suppurates, the bone or a
lamina of the bone ~~is~~ exfoliates, after which, it readily granulates &
heals. Often indurations remain, these are more by the effects of the di-
sease, the disease itself having ceased. This finishes what I have
to say of Syphilis & of mercury as employed in its cure - I have
still to recite some of the morbid effects of mercury - Any substance,
which, when applied to any part of the body, produces contraction, differ-
ing from healthy action, may be considered as the cause of disease in
this way, emetics, cathartics & all medicines produce a temporary disease,
in this way, mercury, also, may be considered as effecting a morbid condi-
tion of the body, producing an inflamⁿ of the mouth & fauces
& also some fever. It also in some cases, produces injuries of parts -
This inflⁿ of state of the mouth is aggravated, the cheeks swell - the tongue
enlarges, so as to prevent deglutition or even breathing, ~~which may~~ ^{can be} per-
formed through a tube, ~~it~~ luxation of the lower jaw has also been pro-
duced by the swelling of the tongue - the cheeks become gangrenous & they
off. This is a most dreadful condition, the teeth all gone, the whole
mouth exposed - deglutition almost impossible - the chin nearly bare,
the ^{breast} ~~the~~ bones are affected with deep & lasting caries - the health of the
patient gives away, he sinks & dies. From these circumstances, ^{case} vis-
lent prejudices prevail against the remedy & there is only one ~~case~~ ^{case} in which
it should be exhibited so as to endanger these symptoms & that is when
death is otherwise inevitable. In such cases, you must employ it - you
are bound to use it - these direful effects do occur - but they are rare.
I have never had a case in my own practice, but I have seen them several times

X an objection to the use of mercury is that it acts not under your control - when you induce a sore mouth, it is at a venture not knowing how far it will go -

stagnant & cold air is prejudicial -

⊕ - The use of mercury in some cases injures very much the digestive organs - producing various dyspeptic symptoms -

Yellow Fever is one of those cases in which mercury is sometimes indispens-
able to stop the progress of the mercurial effects in the system
many remedies have been tried on chemical principles & some on medi-
cinals of these last even more than have been profly employed, but all with-
out effect. To diminish irritation opium may be used & a decoction
of poppy seeds may be employed as a gargle; the hair of the pa-
tient the clothes & every thing likely to be soiled with the mercury should
be removed & the patient be washed clean - He should be placed in a
cool, dry air & if able to walk about he should exercise himself, ^{the air}
This manner all the unpleasant symptoms will gradually disappear -
These are nearly the extent of the mercurial effects of mercury in this country -
but in Europe various ^{till lately} ~~sorts~~ of diseases ^{have been recorded} Mr Hunter long ago noticed
its effects, as of two kinds on the constitution, in the first, there was
considerable increase of irritation, the pulse became accelerated,
sometimes small & quick with restlessness, anxiety, loss of appetite -
& sometimes ^{the mercury} acting as a poison producing great debility & exhaustion -
Mr Pearson has lately described a disease originating from mercury
there is great depression, anxiety & sighing, ^{from a slight exertion}
the patient has fallen down dead. ^{to exertion} This he has considered as arising
from Mercury & has called the ~~disease~~ ^{to exertion} mercurialis. This disease
thus dignified by a long name, has all the symptoms of putrid fever
& is thereby an aggravated state of those symptoms mentioned by Mr
Hunter, when mercury acts as a poison; I have never seen this disease
of Mr Pearson's - He states that it is to be cured by a generous diet
& exercise in the cool air - By the 10th or 14th day the mercury may
be resumed without any ill effects. Mr Pearson has also noticed a
rash appearing on the body sometimes from a single dose of the calo-
mel. or a stream of the ointment, generally recurring however in
8 or 10 days, & sometimes not till the course is finished.

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+ by Mr Allen - & *Eczema mercurialis* by Mr Pearson

Lecture 43rd July 23rd

& itching

This eruption has been termed by Hydargyria. It commences with pain on the acetum, thigh & groin, when in a short time there appears a number of eruptions, which are red & painful, appearing chiefly on the exterior part of the body & in the lower extremities & finally extending. It is always a vesicular disease, the vesicle however is very small & always to be seen only by the aid of the microscope. It is surrounded by a small red circle, sometimes the vesicle is as large as a pin's head; the fluid is often thick. ~~It~~ It is always acid, so that when the vesicle is broken, it exoriates the ~~skin~~ contiguous parts, & in this manner the whole body becomes one continued sore. There is considerable variety in this disease & it has been divided into 3 ^{by Will Allen} stages according to its violence. In treating this mercurial cause is to be removed, all mercury is to be entirely omitted. Mr Pearson advises ^{opium} the saline draught, the Sp. Mandragorae, opium to relieve irritation, & sometimes opium & camphor. For a more particular account I refer you to Mr Pearson & to Mr Allen. I have seen only 2 cases of Hydargyria & as I have seen many cases, in which mercury has been employed. I may say that, it is very rare. But an opinion has of late years been advanced, that this & many other mercurial diseases are very frequent. Mr Matthias is the chief author on this subject, who has drawn up a long list of the diurnal effects of mercury on the body; some altogether peculiar to itself & others resembling the venereal. Mercury will produce some injurious effects, as I have already informed you, but there are no injuries done by it when it is used in the proper manner. It is not the cause of the venereal disease. It is not the cause of the throat syphilis. It is not the cause of the itching eruption. It is not the cause of the venereal disease. It is not the cause of the throat syphilis. It is not the cause of the itching eruption. It is not the cause of the venereal disease. It is not the cause of the throat syphilis. It is not the cause of the itching eruption. It is not the cause of the venereal disease. It is not the cause of the throat syphilis. It is not the cause of the itching eruption. It is not the cause of the venereal disease. It is not the cause of the throat syphilis. It is not the cause of the itching eruption. It is not the cause of the venereal disease. It is not the cause of the throat syphilis. It is not the cause of the itching eruption. It is not the cause of the venereal disease. It is not the cause of the throat syphilis. It is not the cause of the itching eruption. It is not the cause of the venereal disease. It is not the cause of the throat syphilis. It is not the cause of the itching eruption. It is not the cause of the venereal disease. It is not the cause of the throat syphilis. It is not the cause of the itching eruption. 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These supposed venereal diseases by mercury itself. They are in reality nothing but venereal. The Venereal disease is not to be considered as a venereal disease, & that most of the ulcers on the penis are not of this nature. This in my opinion is wrong. Syphilis is a very frequent disease, & I doubt there are many cases of ulcers on the genitals, called venereal, syphilitic, & these can often be readily ~~found~~ known, but in every case of doubt I think mercury ought to be given, for the only inconvenience, ^{to the patient,} will be, a slight salivation for a short time & he will escape all anxiety on the subject. I have seen several cases of this kind, where no doubt might be made, but I have not got well by them, but I have found ^{that} the cure greatly expedited by mercury. But, at any rate, always be very careful that you do not omit the proper remedy in genital disease. There is often on the penis especially around the corona of the penis a collection of little vesicles, which contain rather matter, & are very different from chancres: There is a small vesicle, raising the delicate epithelium only, containing a straw colour thin pus; these are to be washed with the acid waters, when large, they are to be punctured, & when almost healed it should be washed with brandy. But, for one case of these, that you meet you will have 20 cases of the opposite kind.

As to the proper administration of mercury I must say a few words. The saline preparations are not now ready to produce mercurial effects, than the arts of Copernicus. This is the result of the depuration in Europe & in this country. I prefer salomels ~~to~~ the blue pills, the corrosive sublimate I have used in delicate cases, in such cases I combine with it nitric acid or or Loges of Vinous has lately published, that corrosive can cure a chancre without inducing a salivation & it is also proper to state here, that Mr. Abington proposes its use in Gonorrhoea being dissolved in $\frac{zj}{ij}$ of alcohol one half of which is to be taken at a dose at bedtime; a profuse salivation is induced - the next day some salts are to be given, after the operation of which the remainder of the medicine is to be exhibited; & in this manner gonorrhoea is often cured in ~~the~~ 48 Days. This requires further confirmation - 2nd Mercurial ointment, is the most approved method of exhibiting mercury. It should be rubbed in, if possible, by the patient himself - & not merely laid on the thigh; in other cases it may be applied to other parts of the body ~~than~~ on the inside of the thigh. 3rd The patient

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bb

+ cold bath - mineral water - stimulating enemata, dry
cupping &c -

menstrual discharge. & Menorrhæa arises from the conditions of
the system. When the discharge does not commence at the usual period &
there are present various constitutional symptoms, it is termed retention,
when, after it has once commenced, & at any ^{time} ceases, from any cause, except
pregnancy, it is called suppression. As to the time at which the ^{menstruation} ~~menstruation~~
should appear it varies greatly in different climates & individuals, but it is
not considered as a disease ^{unless} marked by art in morbid symptoms, con-
stituting the disease called chlorosis. A correct Pathology of this disease
is much to be desired. Dr Cullen has entered very fully into this subject &
considers it as depending on a diseased state of the Ovaria but can go
no further. Dr Hamilton refers it to a depraved condition of the alimentary
canal. I cannot agree fully with either - The opinion of Dr Cullen
is confirmed by dissections as the ovaria are usually found in a depressed
depressed state - The theory of Dr Hamilton is founded on erroneous
premises - he concludes that the disease depends on the condition of the
alimentary canal, ^{because} there is a torpor in their action & is to be
~~is~~ relieved by purgatives. Now there are many diseases, by no means
depending on this canal, which are accompanied by these symptoms
& are cured by other remedies. Purgings is used in a variety of complaints
having nothing to do with the intestines. His practice is better than his
theory. Purgatives are useful & necessary to relieve constipation & to
prepare the way for tonics & other remedies. In the treatment of ob-
-menorrhæa or retention of the menses, various general remedies are resorted
to - Blood is frequently let off his patients. but the pulse will seldom bear
this - emetics are also used - electricity - fomentations warm bath - spirits
on the lower extremities, pediluvium &c - but the most useful reme-
dy is matrimony. Particular symptoms are to be counteracted by
the usual remedies - change of climate is often very useful - & some-
times ^{also} the action of emmenagogue medicines to be pursued by noticed.
Suppression of the menstrual crisis from various causes, as fever,
cold especially to the feet, anxiety a sedentary life &c. When any

68.

+ These are Cooper's pills.

other disease is present in the system, this function is more or less interrupted. Suppression is too often considered as a cause of disease, when in reality it is only a symptom or an effect of the prevailing general affection of the system. I have often seen the health running very good at the age of puberty, although the menses did not flow & I can not therefore believe that every suppression must be the cause of disease.

Uterine Emmenagogue. There are very numerous & properly a very diversified action on the body. In using them we should always attend to their properties & adapt them to the existing state of the system. All classes of medicine in one view may be considered as proposing an emmenagogue power, even ~~the~~ bleeding as they all in some cases may be useful in promoting the discharge. But there are certain remedies which appear to have a more particular effect in this way. The first I shall mention is Aloes. This we have already noticed as a powerful cathartic. As acting chiefly on the rectum, it is considered as superior to other cathartics as an emmenagogue. It is administered by itself in pills or tincture, also frequently in combination with other remedies. Dr Gallagher of this city, long before the appearance of Hamilton's work employed it in combination with rubigo ferri & with very good effect. In combination with the sel martis it is much employed. Ry Sulph. Ferri ℥ss. jalap ℥i. Hyera pira ℥ss. Gum. Myrrha. ℥ss. m - make it in pills of a convenient size & take 3, 4 or 5 a day. Calomel is also occasionally combined with the aloes. Helleborus nigricans is also used chiefly in the form of tincture Ry Hellebor. ℥iv. Colchicinal ℥ss. Alcohol ℞ijss. m - dose is ʒtt̄ xxx̄ to a tea spoonful. Dr Suller has no great confidence in the Hellebore & his opinion considerably lessens its popularity, but it has again revived in some measure. Dr Barton recommended it as also Dr Chapman. I am very willing to agree with them - Dr Physick uses it very much he gives ʒtt̄ every day for several days before the menses ought to appear. he increases the dose if the stomach will bear it. In conjunction with

70.

This he employs semicupium or pedilucium, fusticoms &c. - but ^{nowhere} it is often ineffectual, sometimes excites the discharge. Purgings is not necessary for its action. Stimulants are often demanded in it. China & Duices deparstified with the usual remedies, employed the vol. tr. quina & in many cases with excellent effect. he gave a dram every 2, 3, or 4 hrs. He was very much pleased with its employment. I am sorry to add that in my hands it has produced no effect whatever. The Polysyllaba Senega has been introduced as an Emmenagogue by Dr Martine but his judgment is too sound to easily be deceived in any practical point. Dr Chapman has employed it in the Menstrua & speaks favourably of it. It is employed in powder or decoction usually in the latter form. This is prepared by boiling on ʒi in a pint of water to ʒij - the dose is ʒi every hour or ʒij. Dr Chapman gives ʒij & Dr Martine as much as the stomach will bear - I have been successful with it in one instance, but in several others have failed. The Uterus has been introduced lately & some experiments have been made on this subject, but there have not been sufficiently numerous. Dr Crokin in his thesis has shown that it has a strong action on the uterine fibres, inducing abortion in pregnant animals, he tried in 4 cases of emmenorrhoea with evident advantage. I have tried it in 3 cases - one of which it cured. The dose is ʒi every night for several successive nights. - Sabina or Savin, this is an evergreen plant having long narrow leaves the powder of which is used. Some have supposed it a specific - Dr Barton related a case of a man who applied to him in a consumption, which he attributed to a haemorrhage which he had induced by the Savin. Some recommends its use as an emmenagogue - in doses of ʒij twice a day. Dr Chapman has tried in chronic rheumatism also with advantage where a stimulant medicine is required it is useful. The Oil of Sabine is said to possess the virtues of the plant in doses of ʒij with ʒi. (Pressing the crab artery has also been employed, but at present is omitted. There are a variety of other vegetable medicines employed beside those I have mentioned.

This State is termed Dysmenorrhoea —

As ~~the~~ I have always found symptoms of fever - Purg-
ing low diet &c. to be employed in conjunction
with the warm bath andyne injections &c.

This is the opinion of the French writers particularly of
Lisius who visited most of the messueries in France &
found that the females with cancerous affections a great
majority were first attacked at the cessat- of the men-
-strs. — Ulcers at this time ^{accidently} occur in the legs &
when they heal it is usual to substitute an issue or seton
These however are very unpleasant I prefer a less offen-
sive discharge, as by purgatives - 2 or 3 times a week
to be gradually diminished —

but they can only have little or no power. Of the mineral emmenagogues, iron
has been tried as inducing a powerful change in the system & has been
often useful. The various preparations of iron have been celebrated, but they
are seldom given by themselves, but usually in combination. Peruvian's spirit
in doses of gr. v. to ℥. with a lax. They are all only useful, as tonics, but
have no specific action. Chalybeate waters have often been thought very
useful. I no doubt sometimes do good, but much more is to be attributed
to the numerous circumstances attending an excursion to the spring.
Sometimes, not with standing, all our care this disease is very hard to
difficult to cure. There is always more or less derangement of the health
with fewer & considerable irritability of the system. The warm bath
is very useful, diaphoretic, anodyne injections, 60 or 100 grs of Laud:
in a little at a time, often moderate the symptoms. In some cases
there is not actual suppuration, but the discharge is effected with
great difficulty & pain, and there is great oppression of the system. This
is generally tedious; in the cure the above remedies are to be resorted to &
especially the warm bath, & anodyne injection, which greatly relieve
the pain - to which may be added fermentations of hot bread to the
abdomen. To strengthen the system, considerable time is
required by exercise, nourishing diet, freedom from care, moderate
indulgence of amusements & gentle tonics when necessary. Much at-
tention is to be paid to females at the cessation of their menstrual
vacations - at which period their health is generally delicate, some
have supposed that at this period they are more ^{liable} to concussions of
jections, but this I have not perceived. They are usually more plethoric
than natural & the lowest & low diet is demanded -

† 2 heads - 1st The round worms 2nd of the flat
 worms - of the first kind - there are 3 species, the lumbrici-
 roid, the ascaris - & the tricuris - of the second - there
 are 2 species - the tape worm - & the cucurbitana

The *Tricuris* - I have never seen they are said to be about
 2 inches in length - to have a tail twice as long as the body
 & a proboscis, which ~~at that time~~ is occasionally enlarged
 or diminished - It is usually found in the ileum -

The *Tenia* - & *Cucurbitina* differ only as to length
 the latter being merely the joints of the former -

lengthening the appearance of a thread: the common name is the ascaridis.
They are generally found in the Worm Duct & more frequently in children
than in adults. They have been said to have been found in the intestines, pancreas &
bladder. They are generally very numerous, covering the feces when first evacu-
ated, but soon bury themselves in them, when exposed to the light. They remain
exceedingly active, from what circumstance they had been removed. Their struc-
ture is very like the ascaris: they are said not to be parasitic, but that the ascaris
are distinct. There is a pair of these which are generally found in the stomach.
~~They are said to be the kind which is found in the stomach of the ascaris.~~
~~The 2^d kind is the ascaris of ascaris. It is a flat & broad worm~~
becoming sometimes of an enormous length; 5 or 6 ft. & in one case 13 or 14 ft. ^{or more}
discharged at one time. Generally however, they come away in detached pieces;
consisting of 2 or 3 of the joints, which are disposed every half inch or one ^{or joints}
on the body; they come away generally very much convoluted. The pieces have
been considered as alive, when discharged: with how much truth is doubtful.
The tape worm has been found in fetuses, which have been born dead.
As causes of disease worms have received much attention. Some have ~~been~~
considered them as the proprium of the body, while others have looked upon
them as producing every variety of disease. They generally occur in children from
one to 5 yrs of age. The symptoms in detecting their presence are varied & usual-
ly in general, there is a loss of the countenance or maciation, ~~an~~ derange-
ment of sight - itching of the nose, irregularity of appetite, grinding of the teeth,
fetid breath, great variation in the state of the bowels, sometimes diarrhoea is pre-
sent & again the bowels are very costive. There is sometimes an oedema of the ankle
of the nose & of the upper lip; this Mr. Worm considers as a cert. sign of dyspepsia
but I have never seen it in the several cases of worms which have fallen
under my notice. Many cases of disease have been the consequence of
worms; convulsions, epilepsy, mania & other nervous affections. Dr
Worm relates a case of blindness from worms. In October 1775

* I know of no article which is more useful.

Of the Antihelmintics, more properly so called the first is the Chenopodium Antihelminticum. The seeds & seeds are the parts employed - Of these a tea is made, which is often very effectual - the only objection is the odor, which is very unpleasant - To children it may be given in the morning, sweetened with sugar, instead of their ordinary food. The taste is pleasant: let it be given in the morning, in this way for 2 or 3 days when a cathartic should be administered; after 2 or 3 days let it be resumed, & continued for the same time in this way alternately for a few times & it will generally prove successful in driving away the worms. The tea upon the whole is the most valuable lately the seed has been introduced as preserving all its virtues - \mathfrak{ss} & \mathfrak{ss} are to be given to a child from 5 to 10 yrs. & perhaps very little more for an adult, as the seed acts on the worms chiefly very little on the system, \mathfrak{ss} may be given to a child under the year. It corrects the odor some of the essential oils are added, I think the best is the oil of Sassafras. Of the powdered seeds \mathfrak{ss} is given to children - & sometimes the expressed juice is employed.

The Spigelia Marylandica. This is considered as a very powerful vermifuge. The seeds leaves & root are employed: the dose of the powder is \mathfrak{ss} to a child 5 yrs old - to an adult \mathfrak{ss} . The decoction of the plant is mostly employed, \mathfrak{ss} being boiled in a pint of water & \mathfrak{ss} to a child & \mathfrak{ss} to an adult, being given, as the dose. The root is the most active part - Dr. Thomson took ^{separate} decoctions of the root, stems & leaves. Into each of which he placed 4 of the com^{mon} earth worms, in the first, they became motionless in 5 minutes & were completely dead in 25 min. In the decoctⁿ of leaves, they lived 4 hrs in that of the stems 3 hrs. If this be accurate, the root is much the most active part. From the use of the Spigelia, alarming symptoms are said to have resulted, Various nervous Affections - delirium, vertigo - convulsions &c, are sometimes the effects of it. By many there of-

† The Physicians of this city are very much attached to a formula first employed as a secret medicine - It is composed of equal parts of the Siga & Senega with a small quantity of the Savina leaves - which last is supposed to possess anthelmintic powers - the Savina however may be omitted This I believe acts chiefly on the worms - comparatively little on the system.

parts are attributed, not to the Spigelia, but to the roots of another plant frequently growing with it. However suspect that it is owing to the Spigelia alone, as it appears by the experiments of Dr. Thomas, & the possession of narcothism. If when the pulse is at 76 in the men $\frac{2}{3}$, 3i of the root be taken in 3i it will rise to 78, in 5' to 80. & after that it will sink to 75, in this it resembles, not only the narcothis. Dr. Barton gives it, with the serpentaria, which he thinks prevents its bad effects. It is best however to be cautious in its use. In some of Edinburg & Paris its narcothism is given; he says that he has never seen any unpleasant consequences, although I have used it very freely.

On the whole, it should be employed cautiously & be combined with pur-
gatives. Dr. Gaillaghen gives it with Senna or Whitewort, & thinks that it is most effectual in small doses. However proper the Menopodium as being superior in efficacy & less dangerous.

Melicos
azedarach the Spindle of India, the root is the part used - a decoction of the bark of the root is much employed especially in the Native & British. Besides these there are many other antelmintic Medicines, but which have little power - The Pellebaris fatidica & the Saffraan varicosis may perhaps be deserving of notice - but they must be further investigated.

From the mineral Kingdom, we may first notice the Iron. This is very often prescribed with great advantage. The carbonate or Must of Iron is preferred - ~~the root of which is given~~ the following combination of the carb & sulphate of iron is useful - ℞ of the prepared root of iron ʒiij of the sulphate ʒiij mix & divide into 12 powders, one to be given every morning to an adult half the quantity to a child. This is an admirable tonic & often excites a discharge of the venous. It is thought, also, to prevent their growth by imparting tone to the intestines. Dr. Watson speaks very highly of the iron. Common salt is found to be very destructive to the venous out of the body & has therefore been administered internally by the mouth & by injection. To children, a tea spoon full is given every morning some rosin ointment such as Ascarides. The symptoms of these are detailed by Richardson, from a

84.

Physician who was afflicted with them. They prevent sleep, excite a heat over
the body - itching at ^{the} anus, tenesmus, & mucous discharges from the rectum. There is a
grinding pain which ^{is} sometimes followed by a discharge of worms; the gen-
eral health suffers very little, but they are being too troublesome & unpleasant. I
had a patient who was subject ^{at a time} to them from his infancy - but would remain free
from them for several months, the first symptom he would have of their reap-
pearance would be an itching at the anus & soon after he would have a dis-
charge of ascariides. They are often attended with the same symptoms as the
Lumbricoides viz. the several nervous affections as Epilepsy, mania &c. The
Purgatives are in these cases much employed, as calomel & aloes - the best is often given
with the conella alba & dissolved in brandy &c. to the pt. - ʒij being given to a
child 13 or 14 yrs. A variety of glysters have been employed, olive oil & castor oil
are both very useful in this way - ~~they do not kill~~ the ascariides but promote
their evacuation - The tenesmus is best relieved by warm injections of milk &
water - Keberden recommends a tobacco injection; but this is too dangerous.
Camphor has been found very useful. The Camphor tea is fresh and by pour-
-ing a ʒij of the camphor with the assistance of a little alcohol & two
-ounce of boiling water a pint of boiling water - It is to be administered
as an injection. The powder mixed with milk is also in ʒij old. Besides
these there are various other remedies, as the bitters, tereby, aloes, glysters of opopon-
axida - common salt, also the mercurial preparations - the best sulphuris is oc-
-casionally employed; The Ch. Terebinthina is more useful than most of these.
The French is denoted by symptoms which do not much differ from those al-
-ready mentioned, there is no particular diagnostic symptom. In addition
to the remedies mentioned for the other cases, we may add the salt - Carr. sub.
in doses of ʒij of a grain - & the Collops mineral. This is not of much service.
Iron is a very powerful remedy here - the rust should be given in large
doses ʒij or ʒjv a day; the iron filings are also very useful in large quan-
-tities. Iron is also given in a granulated form which is made by drawing
the melted tin into water by which it becomes granulated. The filings are

+ It is said that for the Me. tania is evacuated in large quantities - that frequently by means of a glass - the ~~the~~ Bairy Opium can be seen sticking in the worm.

After the Worms are evacuated - we should then resort to Lomies - as it is true that exactly as the digestive organs are debilitated - will be the liability of the patient to worms.

also given in doses of Zi or Zij to be followed by a drastic purge, Dr Fisher has recommended an emulsion of tur prepared by taking 5 parts of tur - 2 of quinquina &c. The powder is to be given in doses of 15 to 20 grs. turica-
day - If it does not open the bowels a purge should be given - It however gen-
tly evacuates the bowels. Of the vegetables, the male fern is recommended
but it is not to be depended on. The Dalichos & Turians has been much
used both in the East & West Indies, the hairy spines are the parts used & it
is much more employed in Europe - Zi is the usual dose for a child. It is to be
increased for an adult. I have not used it. Dr Fisher employs Fowler's solu-
tion & recommends it very warmly, he has never failed with it. The Plum tree -
juice is one of the best remedies in tinea, the dose is Zi to an adult. It
produces occasionally some disagreeable effects - as headache, pain & fever. The worse
consequences are pain in the back belly & bloody urine, but Ziij have been taken
daily without any incommo-
dity. Large doses purge & are left off to produce
bloody urine & hemorrhoids - though not with some times produce these effects.
I have employed it in a few cases, in one it was of great service, the patient
immediately evacuating a large mass of the worm he says 27 years no doubt
greatly enlargeth but still very long. The turpentine is also serviceable in
the case of the lumbricoides. #

Lecture 47th Jan 30th

Erisipartes. These I shall consider under the 3 heads of rubefacients, vesi-
catories & caustics. As to their proper location there is some difficulty. I have
placed them under the head of evacuants, as forming a part of the anti-phlogistic treat-
ment; but it is of no great import since whether this or another situation is adopted
for them. First of rubefacients. These are articles which excite ~~the~~ redness on
the skin - There are a thousand mechanical & chemical means of exciting irrita-
tion of the skin - frictions with the hand, brush, wallon lotto &c are much em-
ployed. Flagellating is sometimes resorted to. In asphyxia from drowning, fri-
ctions are useful & here the birch is our proper it may be employed. In
Relax in var^{ious} other nervous affections in the low typhoid state of fever, in var

I usually prefer the heated oats to all the liquid fo-
 mentations - as they are light & can easily be borne - they are
 dry - & will retain the heat for a long time - Where we
 suppose any advantage is to be gained by fomentⁿ with
 liquids - we may cover the parts with a pillow filled
 with the heated oats - These are small & apparently
 trifling direct^s but you will find ^{them} of importance in
 practice -

It usually Zij of the Alkali is employed for Zij of
 the oil - but frequently - equal parts of each are neces-
 sary.

late epidemic the Pneumonia typhoides, they are important and remedies. They are also useful in other diseases for which I refer you to another chair. Of the domestic means heat is much employed, ~~being~~ ~~employed~~, as a rubefacient or as an emollient, with the view to the last property & to excite perspiration. Hot bricks - oats - sand - chaff - &c. bathtubs with warm water are very useful - These we have already noticed under a former head - of present use are to notice heat as a rubefacient. Hotton heat has been successful in restoring persons from a state of asphyxia - In one case Dr P. P. applied cloths dipped into boiling water to a child in this state & had the pleasure of seeing it revive - Dr P. P. recovered a person by throwing hot ashes with a few coals on the breast. Boiling water has been recommended in Peronychia - but here a belladonna is preferable - In low fever life has been protracted by external warmth. In the spasms of the stomach, various hot applications have afforded relief - for this purpose I prefer beated oats - other articles have been employed with perhaps equal ~~advantage~~ ^{advantage} - a common mode of applying heat is by cloths wrung out of hot water - this I do not like as the fluid speedily evaporates & leaves the cold dampness on the surface. In Hysteria - there is very often coldness of the feet - or at any rate a sensation of cold - this should always be attended to - & relieved by warm applications, as bladders filled with warm water, - this coldness is not only felt in the feet but in other parts also - often at the stomach, this should be relieved in a similar manner. In local pains external heat is very useful, as in Rheumatism - in all the rhumatic complaints & other cases - this flannel around the neck is beneficial in cyphosis. One of the principal irritants now employed is the Vol. Alkali - usually the Ag. ammoniac is mixed with olive oil forming the Vol. Liniment so much used. The proportion of the oil may be varied so as to have it of various degrees of activity. When long employed it is apt to irritate the skin. In common use it is found very useful, an objection to its use in such cases is that the vapour is likely to irritate the nose & eyes if the vapour disagreeable on this account. The U. Turbithina is perhaps one of the best rubefacients we possess, answering all the usual purposes for which such articles are employed. Cloths dipped in it & applied to parts after u.

† Whitehead's Essence of Mustard has for its basis
 Turbent ~~the~~ the smell of which is tolerably well disguised.
 So also is Tipton's Liniment.

† This I have found very useful in several pulmonary
 Complaints.

limes in plaster - of pain - To increase action on the surface, & therefore parts
beneath it is found serviceable in rheumatism ~~in~~ in sore throat & other local inf-
fections. It is usual to try to dissolve camphor in $\frac{ij}{ij}$ of the turpentine being
dissolved in $\frac{zij}{ij}$ of the turpentine; I do not know that much advantage is
to be gained by this, the camphor does not disguise the odour of the turpentine.
Although when applied to the sound skin, turpentine produces considera-
ble local inflⁿ, yet this is not the case when applied to parts infl^d by heat, sc-
alds, & burns - it greatly relieves these, changes the action of the part & pro-
motes its restoration to health. In cases of extreme debility the turpentine
is much used - I Physick immersed an infant in a state of asphyxia in
a bath of warm oil of turpentine the child recovered a superficial irritation
was induced which in a short time disappeared. The Oil of Sassafras, cures the
small better than any other of the essential oils. Castor Oil is
much employed as an external application. The dry powder confindan a part
is dissolved by the ~~the~~ ^{the} ~~indicated~~ ^{indicated} perspiration & ~~often~~ ^{often} ~~causes~~ ^{causes} an eruption. This is not a genuine inflⁿ or
heat ~~of~~ ^{of} a inflⁿ ~~of~~ ^{of} which form small vesicles & are Scic generis. Besides
these there are a variety of plasters employed under the name of strengthening
plasters these are of some service & may often be tried, but Burgundy pitch
the adhesive plaster the empl^s. roborans &c are used. There are certain
Cataplasm which are much used & which every practitioner should well know
The simplest & perhaps the best irritating is eye meal with a little vinegar
sometimes with the addition of a little salt. This is applied to the feet & legs &
often with great service in the febrile & bowel complaints of children, by pro-
ducing a determination to these parts. A stronger cataplasm is made of
the Chinese stones of a artichoke of powdered mustard &c - sometimes with
rubbish this is one of the least valuable. The cataplasm of mustard is prefe-
rable. It is called a sin apium & is made by mixing the powdered must-
ard flour with vinegar in diff^t proportions as may be necessary. When
the pulse flags in fever, they are useful when applied to the soles of the feet.

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In such cases 1 part of mustard with 2 parts of ~~oil~~ ^{vinegar} made into a paste with vinegar is sufficiently active. I may often ~~use~~ ^{spread} the conspersion on paper, as it is not so apt to ~~run~~ ^{run} as when on ~~the~~ ⁱⁿ ~~the~~ ^{the} ~~skin~~ ^{skin}. In coma, apoplexy & in extreme spasmodic cases, I generally make them with equal parts of mustard & flour sometimes with the mustard & vinegar only. In such cases they should not be continued too long, as the patient cannot notice their action, I have seen you produce they therefore should be examined very frequently & when the skin is red let them be removed. In cases of cold feet either the black or red pepper may be applied. the best method is to dust it on the stockings. These little things you will find very useful in practice.

Vesicatories. These excite a certain degree of inflⁿ & a discharge of serum which raises the cuticle in form of a blister. But the degree of inflⁿ is not the only difference between them & rubefacients. There is something peculiar in the inflⁿ excited by a vesicatory, which ^{produces} the discharge of serum, for although rubefacients often produce blisters it is only where the inflⁿ is very great. Mechanical means - as ~~by~~ hard labour will of ten raise blisters, heat also generally produces them. But the vesicatories properly called are those articles whose uniform effect it is to excite blisters without much inflammation & passing by numerous articles said to produce this effect - I shall notice the Cantharides.

94.

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