

Edward Burton's notes on the lectures on anatomy and surgery given at St. George's Hospital (London) by Everard Home. Vol. 2

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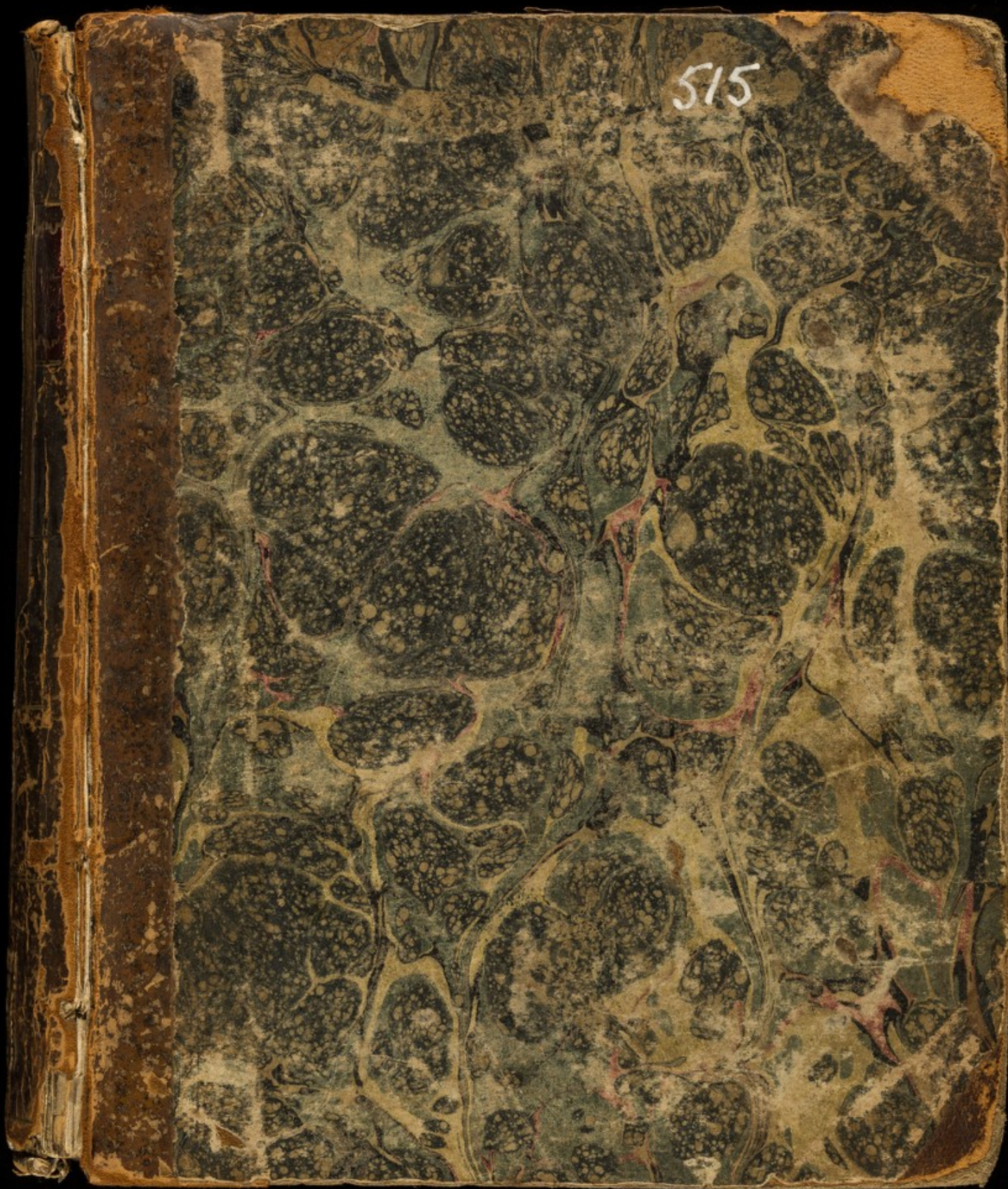
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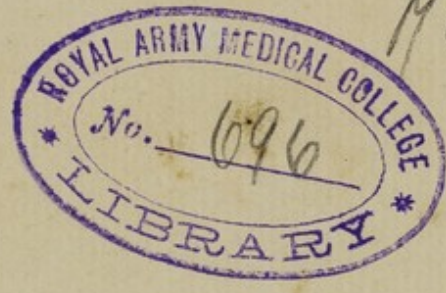
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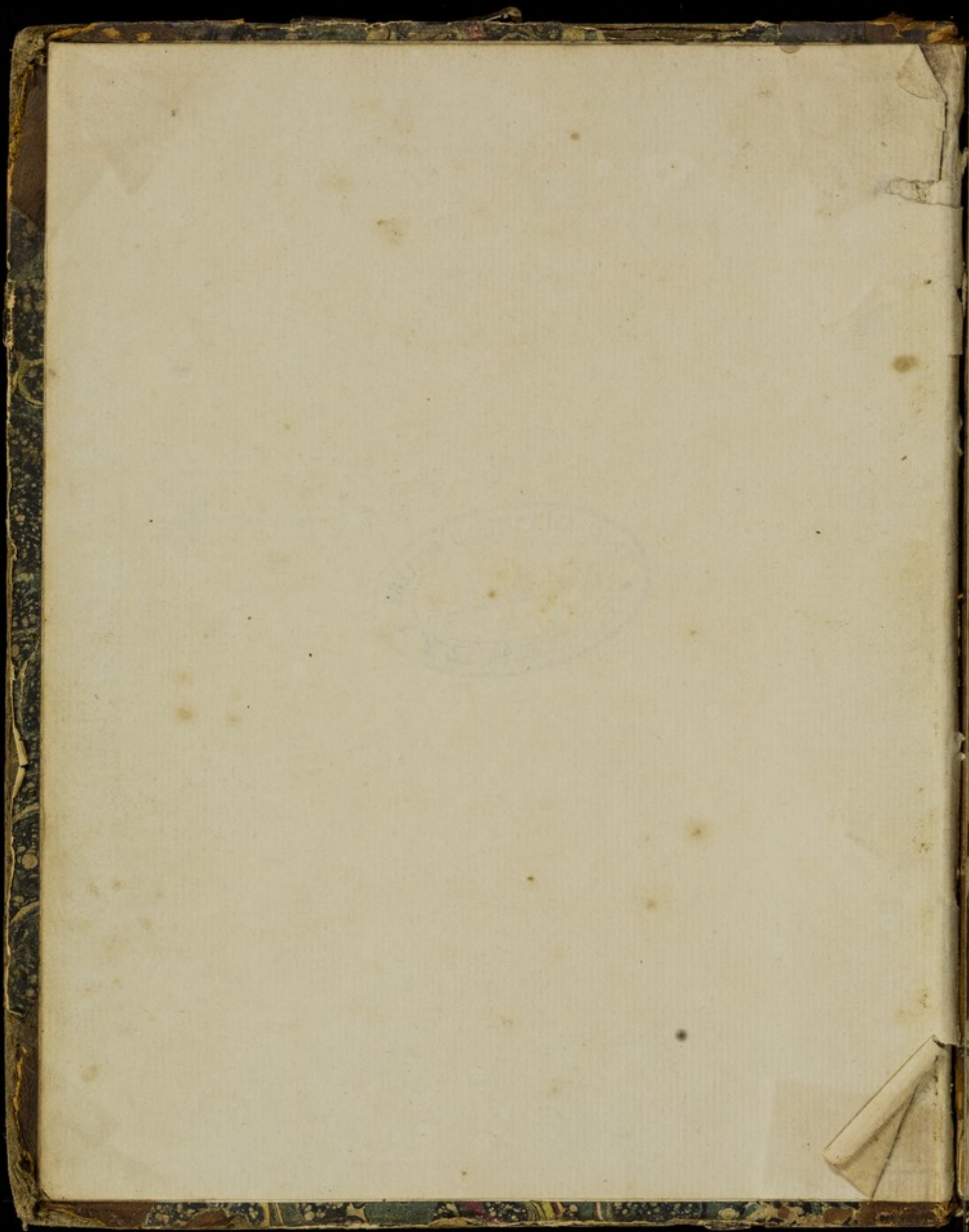
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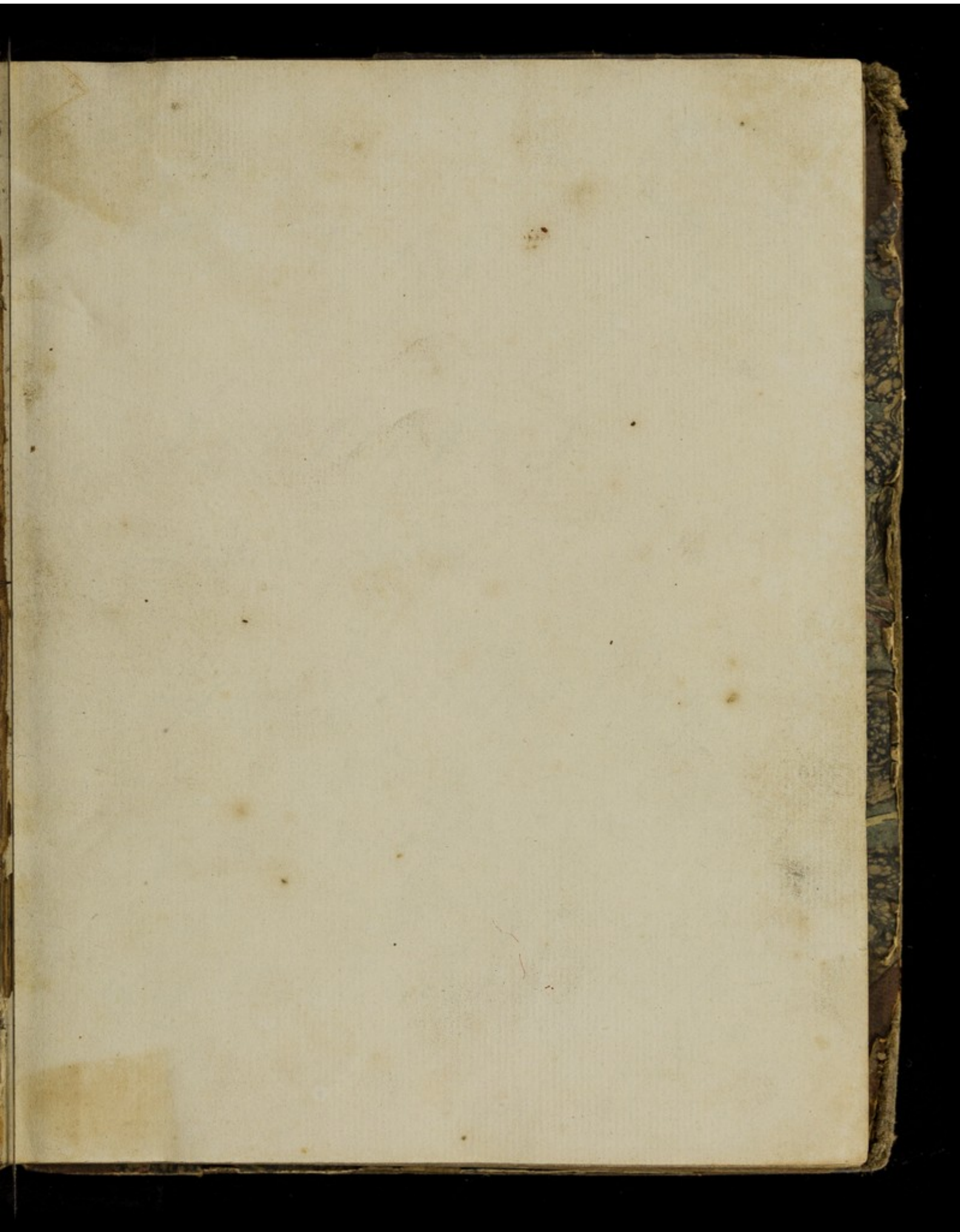
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Med-General









Notes
of the
Lectures

given at St. George's Hospital,

by
Everard Home Esq.

taken in

1807.

by
Edward. Burton.

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Lecture the 8th

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Amputation of the Breast.

The breast is liable to three diseases, which sometimes require an operation. The first, and most simple, of these, is an enlargement of its substance; the Breast very soon and then increasing to such a size, as from its inconvenience to induce the Patient to get rid of it. The second is a Scrophulous affection of it, and the third is Cancer.

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As the breasts in Women are
more liable to Cancerous diseases,
than any other part of the Hu-
man body, and as on account of
this disease, the Operation, which
we are now going to consider, is
very frequently necessary; it will
be right first to look into its
origin, symptoms, and modes of
Contamination.

Various have been the Opinions
entertained as to its origin being
constitutional or local. There are
no grounds for considering it as

as constitutional; though how
far the constitution may be affec-
-ted so as to produce local com-
-plaints, has not been ascertain-
-ed.

On the contrary, that the origin
of Cancer is local, we have facts
almost amounting to proof. We
find that Cancer arises without
any visible cause, so that there
is no proof to be deduced from
that, but in other parts of the
body, a local Disease shall be-
-come Cancerous. I have seen a Tu-

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more on the foot, which had
so as to require removal, (and on be-
ing cut into, had the appear-
ance of an indolent tumour,
connected with one of the bones)
owing to part of it being left, re-
turn and take on a disposition
exactly similar to common Can-
cer. I have seen one of those Cysts,
which are frequently met with
in the scalp, where allowed to burst,
throw out a fungus, and put on a
complete Cancerous appearance.
Of them, any Tumour is capable of

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Becoming Cancerous, we must ad-
-mit, that Cancer is capable of
affecting the Constitution.

It is almost peculiar to a certain
period of Life, and is particular-
-ly prevalent in women of about
30 years of age and upwards, after
they have ceased menstruating.

In warm Countries it is very rare.
An injury will produce Cancer;
and indeed there are few instances
of this complaint, in which the
patient does not refer back to some
accident.

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A tumour shall form in the breast
at five and twenty years of age, re-
-mains indolent till the Can-
-crous age, and then shall become
Cancerous. These Tumours are some-
-times readily distinguishable from
all others; but not infrequently
the Nature of them is very obscure.

A well-marked Cancerous
Tumour is in its origin, small,
round, indolent, and void of pain,
detached from the surrounding
parts, at first stationary, but af-
-terwards increasing; In its texture

It is harder and more compact than
any other Tumour, from whence
the name of *Stony Cancer*; and in
proportion to its bulk, very heavy.

Its increase is uniform and progres-
sive, frequently accompanied by
lancinating pains, which arise from
compression of some nerves.

I should, therefore, suppose, that
any Tumour, which was in its o-
rigin painful, is much less lia-
ble to become *Cancerous*, than one
first perceived by accidentally
feeling it; and here I should be much

more alarmed as to the future
went. This is the character of true
Scurvy.

All Tumours, however, which are
met with in the breast, are not
of this Nature. There is a great
variety, the Nature of which it
is very difficult to understand.

Scrophulous Tumours are softer
in their texture, and free from
those lancinating pains, which
attend an advanced state of Can-
-cer. But I have known a Tumour,
supposed to be a Scrophulous

one, which turned out Cancerous.

There are two ~~other~~ modes, in which
Cancer propagates itself. The first
is, by contaminating the surround-
-ing parts, making them hard,
and part of itself. The other is, that
before any fluid has been formed
in it, it is capable of contami-
-nating the Lymphatic vessels,
which shall absorb the Virus, and
take on the same disease.

There is yet another mode of Con-
-tamination peculiar to the Skin,
which is as yet totally inexplicable.

It begins, when the disease is at some distance from the skin, and the skin itself moveable on it, by a Tumour about the size of a pin's head, which increases to that of a pea. At this time, others of the same kind arise round it at the distance of 2 or $\frac{3}{4}$ of an inch apart, without the least visible connection with the first. These proceed farther and farther from the original Disease, till they cover the whole trunk. There is not the least doubt of their

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being Cancrous; but whether
there is a glandular structure
in the skin, which takes on the
Cancrous action more readily, and
the skin is the medium, through
which it is carried, is unknown,
though this appears most plau-
sible.

The first approaches of a Canc-
rous Tumour to the skin are
marked by its being tucked down
over the Tumour, and hair it
spreads more rapidly than any
where else in the body. When

The Tumor is allowed to go on,
 It generally reaches the skin, (which
 becomes glossy and discolored, and
 the nipple particularly tuckered in)
 before any Secretion takes place
 from it. It then throws out a
 fungus which discharges a lym-
 -phid fluid.

Sometimes Cancerous Hydatids
 are met with; these likewise
 discharge the same lymphid fluid.
 There are some other Tumours,
 which though they do not at first
 put on a Cancerous appearance,

become so afterwards. Many
 indolent Tumours by acciden-
 -tal violence become Cancerous.

When a Cancerous Tumour is di-
 -vided into two parts, it puts on
 the appearance of a hard, lig-
 -amentous, linear substance; the
 interstices of which lines are fill-
 -ed up with a substance softer
 than the lines themselves. Not
 infrequently small Hydatids are
 met with in these interstices; which,
 though they form no part of the dis-
 -ease, and have no direct commu-

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in connection with Cancer, yet they,
as well as other Tumours, may be-
come Cancerous.

After a discharge has once taken
place from a Cancerous Breast,
the Ulcers spread, become attach-
ed to the pectoral Muscle, and
axilla, and the patient, worn
out by pain and continued irri-
tation, sinks.

If all Scrophulous affections
were truly and distinctly marked,
it would become of consequence to
distinguish them from Cancer.

But as they frequently become
 Cancrous, it is not material. If a
 Scrophulous Tumor suppurates,
 it may be treated as one in any o-
 ther part; but if it remains in-
 dolent, it is to be treated as one
 liable to become Cancrous.

The fluid, which is discharged
 from a Cancrous Ulcer, is proba-
 bly nothing more than Lymph,
 belonging to parts in the neigh-
 borhood, which does not return
 into the Constitution.

Under what circumstances, then,

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may Amputation of the Breast
be performed? As to this, there
has always been much dispute,
the younger Surgeons being bold
and the older men diffident con-
-cerning this point. It certainly
succeeds much seldom than
any other Operation.

It was formerly supposed that
where there was no affection of
the Pectoral Muscle, or glands
of the Axilla, the Operation
might be performed in safety,
but Experience has proved it to be

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otherwise. We have no absolute
guide; and if it is performed and
fails, the Life of the Patient is
much shortened

When the Furrow is small, cir-
-cumscissed, and at a distance from
the Skin; where no change has
taken place in the Lympha-
-ties, and the Skin is not tuck-
-ed down, we are warranted in
performing the Operation, and
there is some ground for security;
because in all quality probability
it has not acquired its poisonous

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quality, unless it was Cancerous
from the beginning. But not
further.

When the glands of the Axilla
are enlarged, when the skin is
tucked down, or when the Gummum
adheres to the Pectoral Muscle,
the period is proper by, when an
Operation would have been of
any Service. Are we then to decline
an Operation? I think not. There
is some difference between pro-
-posing, and acceding to the
wishes of a patient for, the Ope-

ration, although in contra-¹⁹
-diction to our better judg-
-ment. This, however, holds good
only within certain limits; if
the Disease has proceeded so
far, that we are sure the Ope-
ration will not succeed, it should
certainly object to it. It is, there-
-fore, necessary to attend to the
circumstances of disease, under
which it may be performed; o-
-therwise it would be nothing
more than the simple removal
of an extensive Pussum.

There are two reasons for removing a Tumour in the Breast. First, the fear of its becoming Cancerous; secondly, the anxiety of the patient as to the Nature of it; so that several sorts of Tumours, appearing likely to become Cancerous, are sometimes removed, from an error in judgment. This however, is productive of no mischief.

When the Tumour to be removed is as small even as a marble, and there is no fear of

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of Contamination, if a small
portion of the Breast is removed,
it leaves a disposition in the
remainder to take on diseases
which it had not before; so that
it is doubtful how far the
Breast may be wounded; and
on this account I think that
the whole breast should in-
variably be removed.

We will suppose a Case, where there
is a considerable Tumour, a puck-
ering in at the nipple, and one

of the Glands in the Axilla altered in Structure; this being the stage in which the Operation is most complex.

When the Operation is performed, should the patient be laid on a table or seated in a chair? The latter I think preferable, as the parts are more readily come at, and I know no one disadvantage attending it.

This point being settled, the next is, in what direction the first Incision should be made. Two

have been recommended. The first, in the direction of the fibres of the great pectoral Muscle; the second, perpendicularly. The determination of this point, tho' in Theory it may appear trivial, yet in The Operation is of the greatest consequence.

The disadvantages attendant on the perpendicular incision are, that it is impossible to come at the Tumour, with the same facility as in the other incision, which circumstance will create embar-

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rapments; and that it is necessary to keep the mind's eye on the glands in the Axilla, in which respect the perpendicular incision is of all others the worst. I should therefore have no hesitation in making my incision in the direction of the Pectoral Muscle, whatever was the size of the Tumor or state of the disease.

When the nipple is tucked in, not only all that portion of skin, which is in contact with it, should

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be removed, but even part of the
sound skin beyond it; so that the
incision should be as free as possible.
Consequently an oval portion of skin
should be removed, and two semi-
-lunar incisions made, in such
a manner as to enclose it. The
patient's arm is to be held exten-
-ded by an assistant.

It is prudent to begin with the
~~upper~~ ^{under} incision, and then make
the corresponding upper one, the
two angles of which are to unite
with those of the under one.

The reason for beginning with the under one is, that while you are making your incision, the parts are not hidden by the blood from the upper one; whereas, if you had made your upper one first, the blood would fall down on the parts below, and entirely obscure them.

Having made your two incisions, which are to go completely thro' the skin and cellular membrane, the gland of the breast, with every thing surrounding it, is

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to be dissected out. I would begin on
the upper and inner part, next
the Sternum, as there is less
reason to expect disease here, than
any where else. The dissection is
then to be continued downwards,
through the cellular membrane
connecting the gland of the breast
to the Pectoral Muscle, which
is very loose; therefore, if any thing
hard is cut through, you are wrong.
An assistant is then to raise the
Tumour, and the under part is
to be dissected off, in the same manner.

When the heart is removed, the parts towards the Axilla are to be carefully examined. If all is sound there, the operation is to be continued; but if there is any thickening of the vessels or Lymphatics, they must be traced, until you get beyond their diseased part, and if, in order to do this effectually, more than three semilunar incisions are requisite, a simple one is to be continued towards the diseased parts. If any of the glands are dis-

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eased, they are to be removed.

Small cysts will be sometimes divided, which are apt to retreat into the Osella, and occasion considerable Hemorrhage.

If the disease extends farther than you are at first aware of, every part at all diseased in structure is to be removed; for it is now too late to consider the propriety or success of the Operation.

Having got beyond all the disease with the knife or finger,

The whole mass is to be drawn downwards; but you are not to venture finishing the operation, by cutting down through the vessels, by which it is remain'd connect'd with the body, since they come from large trunks near the heart. It will be wise to pass a needle, armed with a double ligature, through the middle of them, at some distance from the parts you mean to bring away. An assistant should then fasten the Ligatures tight, &

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The operation may be completed,
by dividing the mass of vessels be-
low the Ligatures.

When the Ligatures are not applied,
before the vessels are cut through, much
trouble frequently arises in getting
at the vessels, and much blood &
time are lost.

In such cases as the one I have
been describing, the chances of
recovery, God knows, are few, but
if every part of the disease is
not removed, they are still less.

The assistant should lay his fin-

- give on any vessels, which he may
observe bleeding, in the time be-
-ing, and remark their situation;
so that after the operation he
may point them out to the Sur-
-geon. Care is to be taken to secure
every vessel that bleeds, with the
Tenuculum, and the skin is then
to be brought into close contact.
Although a great deal of it has
been removed, yet by turning the
head of the patient to the side
opposite on, and the arm down-
-wards, the skin may sometimes

be brought together, when at first
sight, such a thing would ap-
pear impossible. Solhasian
plaisters, compresses, and rollers
are to be used in such a manner,
as effectually to bring every part
in contact with the surround-
ing ones.

It is of great consequence to keep
the patient perfectly quiet. She
must neither eat nor drink
any thing (a little barley wa-
ter & a little chitt excepted)
nor speak, for secondary Hamor-

where is more to be feared in this
 operation, than in any other,
 whatever. It arises, however, com-
 -monly from the patients being
 allowed to talk and see her friends,
 and so on. A strict enjoynment to
 quiet and restraint from food are
 the proper preventatives.

Some patients, particularly young
 women, are unable to bear the
 loss of blood, and are very subject
 to fainting after the operation;
 and then they recover so slowly,
 that at the end of eight or nine

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days, no progress is made in the
healing of the wound. When this
is the case, the patient should
be carried into the open air, and
nourishment used, which will
restore the action in the parts,
and heal the wound.

In what way does the disease re-
turn? It returns in two ways;
either in the skin, or in the Ax-
illa. In the former it is just
within the edges of the Cic-
trix, and here the disease re-
turns very quickly after the

Operation, sometimes even before
the Pity is entirely healed.

A small Pusson appears, and
the number is soon increased to
twenty or thirty; they are then
beyond the reach of an Opera-
-tion. However, in one in-
-stance, where there were only
two of these Pussons, I destroyed
-d them with Caustic, and
there was no recurrence of the
disease.

The second mode of its recurrence
is much slower, the time

varying from a month to two
years. The glands become dis-
-eased, and no advantage can ac-
-cure from removing them; but
if the patient is particularly
anxious about it, they may
be removed. In one case, I re-
-moved them three differ-
-rent times, but the disease
returned after each removal,
and in the end proved fatal.
I once performed this operation
at the request of a Lady, in whose
Axilla one of the Glands was en-

larged and gave her the most
excruciating pain; and when I was
extracting out the gland she
suddenly cried out: "You have done
it! I am easy." Afterwards found
that I had divided a nerve, which
had been rendered tense by the
enlargement of the gland.

L. J. H.

Lithotomy.

The Stone is a disease, for which hitherto no remedy has been found, and this is readily accounted for, since the Calculus has been analysed, there being no medicine able to dissolve the different substances, which it contains.

Its composition was formerly unknown, but it is now found to consist of Uric acid, triple Phosphate of Ammonia & Magnesia, Phosphate of Lime, and

Calculus of Limes, conjoined with more or
 less animal matter and Urea. Ure-
 -fortunately the Stone is now for-
 -med of one of these only, and no me-
 -dicine can dissolve them all, as they
 are acted upon by directly opposite
 means. However, though it cannot
 be diminished, its progress may be
 stopped, and it may be made lighter.

A Calculus is formed in two
 situations: in the Pelvis of the Kid-
 -ney, and in the Bladder. When
 in the former it is slower in its
 formation and increase, and more

compact in its structure, when in
the latter, it is looser in its texture,
and quicker in its progress.

Calculi sometimes descend, into the
bladder, without the patient's be-
ing conscious of their descent, and then
they are supposed to have formed there.

That they generally form in the Kid-
ney, is, however, demonstrated by
the symptoms, which so frequent-
ly occur in their passage to it.

The symptoms attendant on Stone
in the Kidney are, great pain in
the Loins, vomiting, disorder of the

touch, and violent spasms. These arise from the Stone's irritating and obstructing the Ureter, and not from its being in the Kidney.

But when a small Calculus drops out of the Kidney into the Ureter, these symptoms become still more violent. The pain in the Loins increases, running along the Nerves exactly in the direction of the Ureter; sickness of the Stomach occurs, and if much exercise is used, the water will be commonly bloody.

The Calculus is sometimes two or three days in its passage from the Kidney into the Bladder, sometimes as many months.

It will be here necessary to know what will expedite its passage. The free use of Opium gives relief, and takes off the sensibility of the canal; and, especially if assisted by the warm bath, and as much exercise as the patient will admit of, will hasten and favour the passage of the Calculus.

The Surgeon or Physician is at

tendance (for this is a case of Medical Surgery) should be extremely careful to prevent the increase of the Calculus in size; for, if it be irregular, or too large to pass, the remainder of the patients existence will be rendered miserable, and his death inevitable.

The Caustic Alkali is found to dissolve the Uric acid, and this should be given in as large doses as the patient is able to bear.

The patient shall sometimes become suddenly very easy; you may

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Then be certain that the Calculus
has got into the bladder. You are
not however to rest here; for the on-
ly way now to get rid of it, is to void
it continually through the Urthra.
It is a common practice in this
stage of the disease to give Opi-
ates; which is extremely wrong, but
the or no irritation being pro-
duced by a Stone of this size. On
the contrary the object should be, to
excite the Peristaltic motion of
the bladder, and make it pass
its contents rapidly. This is best

affected by the use of the Tepid
bath, and moderate exercise. Strong
and brisk purgatives should be given,
and the patient should take dilu-
-ted drinks in large quantities.

These remedies frequently have the
desired effect, particularly if applic-
-ed, immediately after the Calculus
- has passed into the bladder.

A patient of mine, who had a
Calculus in his kidney, attended
with very distressing symptoms,
during his journey to Town, pass-
-ed it into the bladder. I sup-

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I showed his Case to him, and told
him to continue the use of the
means, which I have before sta-
ted, till he voided it through the
Urthra. When he returned home,
finding no more of it, his Surgeon
supposed him to be quite well,
and desired him to leave off his
medicines. The patient wrote to
me about it. I told him by all
means to continue them, and in
three weeks afterwards he voided
the stone externally. This will
show, you, when a Case of this Na-

true sense, how much pain and
 trouble may be saved to the pa-
 -tient by an intelligent practiti-
 -on. Had this case turned out o-
 -therwise than if ^{ad} there would have
 been no chance of a cure but from
 an operation.

Many people have an idea that
 the stone may be dissolved in the
 bladder; and I allow that there
 are many instances, which appa-
 -rently favour this opinion. One
 case of this kind, with which I
 was particularly acquainted, (it

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being in the person of my own fa-
-ther) appeared to support it. He
had a Stone in his bladder, but
the symptoms, far from increas-
-ing, gradually disappeared, and
he supposed, and many others sup-
-posed so too, that he was per-
-fectly well. I learnt, however, on
examination after death, that
the Stone was found in the blad-
-der; - but that the prostate gland
had increased to such a size, as to
prevent its coming in contact with
the neck of the bladder.

If the remedies, which I have recom-
mended, do not succeed in expell-
ing the Stone, the strongest alka-
line medicines must be had in
course to. The Stone, if not brought
away, will produce symptoms from
three different causes. First, from
pressing on the neck of the Blad-
der; secondly, from its rough sur-
face wounding the internal
membrane of the bladder, and
thirdly, from its increasing to such
a size, that it falls upon, and
by its weight presses on the Ure-

them, and produces all the bad symptoms arising from costiveness, &c. This last was the case with the father of a friend of mine, who had symptoms of Stomach, which disappeared on his taking medicines, using exercise, and so on; till sometime afterwards he was struck with sickness, violent pain in the bowels &c. Here it was evident, that the Stone produced no inconvenience, till it became sufficiently large to press on the Rectum; when it created an

entirely different set of symptoms.
Another case of the kind I met with
in a Gentleman, who in coming
from America, in a violent storm
somehow or other received a vio-
lent blow on his loins. The same
symptoms as in the former case
came on, and as they were sup-
posed to proceed from the In-
jury, occurred at the time of the
storm, every thing that could be
thought of, was tried in vain for
his relief. Sometime after his
arrival in England, the pain in

his bowels, costiveness, and vomiting
had increased to such a degree, as
to occasion his death. Upon ins-
pection of the body, a large
stone was found in the bladder,
pressing on the rectum, which
had in all probability been the
occasion of his decease. It is ve-
ry likely, that at the storm,
the stone had descended from the
Kidney into the bladder; and
was the cause of all the symp-
-toms, which had been supposed
to arise from the blow.

Sometimes a Stone will remain in the bladder, without being productive of any Symptoms at all; neither pressing on the neck of the bladder before, nor the Rectum behind, even when it is grown to a considerable size.

If a patient, exceeding the age of fifty years, has a Stone, with its increase, the posterior Lobe of the Prostate Gland increases also, and defends the neck of the bladder, from its Irritation.

I would never have you hastily con-

- In deduce from observing those symp-
 - toms commonly attendant on the
 Stone in the bladder, that there
 is one. Although the cause of
 the symptoms is in the blad-
 - der, yet the symptoms are not
 all there. That, which, if I
 was asked, I should say was most
 characteristic of Stone in the
 bladder, is an acute pain or
 burning sensation in the Glans
 penis; and I believe there is no
 other symptom attendant on this
 disease, not to be found in others.

No Operation is to be determined
 on in consequence of present symp-
 toms, or from any former evidence.
 The patient should be carefully ex-
 amined, and the Surgeon should
 abide by the result of that a-
 lone. I would be certain likewise
 that it was present immediately
 before the Operation; nor would
 I operate at all, unless another
 Surgeon could distinctly feel the
 Stone, as well as myself.

A Gentleman came to me from
 the County with symptoms of Stone;

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his Surgeon that having previous-
ly examined him, and having as-
sured him there was none. On ex-
-amining him myself, I very re-
-solutely felt one, and told him so.
He again returned into the Coun-
-try, and gave his Surgeon my opi-
-nion, who a second time exami-
-ned him, and still was unable
to find the Stone. This staggered
the patient, and he wrote to me
on the subject, saying that he
was unwilling to submit to any
operation, unless he was perfectly

certain of his having a Stone. Explained to him in answer, that if he came to town, I should not think of performing any operation on him, unless other Surgeons were assured of the existence of a Stone, as well as myself; but that his Surgeon's not feeling it was no reason in the world, why I, or other Surgeons, should not. However, on a subsequent examination, his Surgeon felt the stone, as it had by that time probably enlarged; and the Gentleman afterwards underwent.

the Operation for its extraction.

The first manual part, which the Surgeon has to perform in this disease, is that of sounding the patient. This is done, by passing a metallic instrument into the bladder, and endeavouring to strike the end of it against the Stone, to ascertain if it be there or not. This is apt to alarm the mind of the patient very much, and therefore requires great delicacy in the management of it.

Teachers of Anatomy, (as far as they

an Anesthetics only) are quite in-
capable of laying down rules for
the Introduction of Sounds, ~~for~~
~~the~~ ~~use~~; as the difference between
these parts in the living and in
the dead subject, in health and in
disease, is extremely great.

Examining for a Stone with the
Sword, is, however, by no means
the best method; for in Cases,
where, from long disease, the
neck of the bladder is become
much thickened, the Surgeon
frequently thinks he is searching

the bladder, when he is merely ⁵⁷
twisting the sound about in the
thickened parts.

The external orifice of the Ure-
-thra is always very irritable in
this disease.

In passing the sound into the
bladder, you are very frequently
stopped at about five inches
from the orifice by a spasm
of the internal membrane; &
by this Surgeons are not uncom-
-monly lead to mistake the
nature of the disease. But a

little perseverance will get over
this; and you will then (gene-
-rally speaking) meet with no
obstruction, till you come with-
-in an inch of the entrance of
the bladder; and this second
obstruction is frequently mista-
-ken for a diseas'd prostatic gland.
I had no less than eight Cases
brought to me in one year
brought to me by different
Surgeons, all decidedly sappo-
-sed by them to be Stricture,
which turned out to be Stone

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in the bladder, and they all
had the Operation performed on
them.

When you are unable to succeed
in passing a Sound, you will
frequently be able to succeed
in passing a Bougie, which,
being composed of milder and soft-
ter materials, irritates the U-
rethra less than metal. In
some cases I have been able to
succeed in passing the flexible
gum Catheter without the Sti-
lites. It would be advisable to

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Attempt passing the Sound more
than once, as these parts may
not be so irritable one time as
at another.

When these means fail, I have
found that passing a flexible
gum Catheter only, and drawing
off the water, has enabled me to
discriminate between a Stone
and the thickened coats of the
bladder. Here too, the Stone
will sometimes be brought into
contact with the end of the Ca-
theter, by the contraction of the

Bladder.

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I was lead to this mode of distin-
guishing a Stone by accidental
circumstances. A Gen.leman,
a Banker in this Town, had
been under the care of several
eminent Surgeons, ~~in this Town,~~
who were all positive from the
Symptoms that he had a Stone
in his bladder; but they were
none of them able to find any
on sounding him. When I was
called in, his wife took me
aside, and told me I might do

any thing but sound his his-
 -band; for that his mind was
 so terrified at being so often sound-
 -ed, that he could not bear it, and
 had resolved to suffer the excru-
 -ciating pain no more. From the
 symptoms I also was certain that
 there was a Stone; and I enqui-
 -red if he had ever had his water
 drawn off. The answer was, "No."
 "Well then, Sir (said I) that is the
 only thing left to do, and that
 we will now do." Accordingly
 introduced the flexible gum

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Catheter, and having drawn off
a considerable quantity of water,
I distinctly felt a knock at the
end of it, which was produced by
the bladder contracting and
throwing the Stone forwards on
it. In this way I succeeded, while
much more experienced men
failed. The patient felt imme-
diate relief; but I told him that
I had felt a Stone in his blad-
der, and that as soon as he had
walked across the room, all his
pain would return, and that

nothing would effectually relieve
him but the operation. Upon
the whole I think this the best
method of ascertaining the ex-
istence of a Stone.

Having done this, the first
question, which will probably
be asked, is, what is its size? This
it is altogether out of the power
of the Surgeon to form any i-
dea of. The only means of getting
rid of a Stone is by an operation.

Having said so much upon the

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Symptoms of Stone, and the mode
of ascertaining, whether it does
exist or not, I shall now proceed
to describe the operation for its
removal, and the Instruments
which I conceive most proper
to be used in it.

The first thing to be done, and
the part, which is in general
attended with the greatest
difficulty, is the Introduction
of the Staff.

Almost every Anatomist assumes
to himself the invention and a

improvement of some Instrument
 or other. In this instance par-
 ticularly, some recommend one
 kind and one curve, and some
 another, and in every Surgical
 Instrument-maker's Shop you
 will find varieties of them. But
 none of these are what we want:
 we want an instrument, which
 can with the least difficulty be
 introduced into the bladder;
 and ^{the best} for this purpose, is that
 with only one curve, though of
 the largest kind, with a regu-

gular rounded groove ⁷¹ sweep
for the back of the Gorget.

The end of the Staff should not
be pointed but rounded off.

The introduction of it is some-
times extremely difficult, for
there may be instances in which
it is very easy to pass the flex-
ible gum Catheter and Sound,
and yet much trouble may a-
rise in passing the Staff. The
best Surgeons have been ex-
tremely puzzled in this part of the
Operation. I have seen both

Sir Cassin Hawkins and Mr. Steu-
 -ter upwards of three quarters
 of an hour about ~~the~~
~~the~~ ~~operation~~. This difficulty is
 much increased by the position
 of the patient; indeed it is best,
 if the patient is of a very irri-
 -table habit, to pass the staff
 before he is bound, as that mode
 is not apt to create so much
 dread, and is the more familiar
 way of passing it.

But when introduced afterwards,
 it should be introduced into the

Urethra with the Condy part ^{7th}
towards the body of the Patient,
that the Surgeon may know
when he is got to the Perineum.
He is then to tilt it up towards
the neck of the bladder.
If the Instrument will not pass
farther than the Perineum,
no force is to be used. If it is
grasped the Surgeon should wait,
till the spasm has subsided:
if it is entangled in the in-
ternal membrane of the
Urethra, it should be withdrawn

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a little, and the finger pushed in
to the Rectum will be of ser-
vice in the direction of it.

Having pushed the Staff into the
Bladder, the Stone should
be evidently felt both by your-
self and your assistants. The
Staff from the edges of the groove
in it, generally causes more ir-
ritation than any other In-
strument; and sometimes, when
the Bladder is in a very irri-
table state, it will be im-
possible to feel the Stone at all

with it. But I would on no ac-⁷⁵
-count operate, unless I could
feel it at the time.

In one instance where Mr. Cline
and myself met for performing
the operation, we could neither
of us feel the Stone in the
least with the Staff; but a
Sound happening to lie in the
room, we introduced that, and
easily felt it. When the Ope-
ration was performed, four Stones
were extracted.

Having got the Staff into the

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Bladder, and felt the Stone, an
assistant should hold it in such
a direction, as will make that
part of its groove at the Peri-
neum, prominent. In order
to do this properly, the assistant
should be able to perform the
Operation equally well with
the Operator.

The groove then being felt, an
Incision should be made di-
rectly on the most prominent
part of it, and carried down
between the Sphincter Ani,

and the Tuberosity of the Os Ischia.¹⁷⁷
You should avoid beginning the
Incision too near the Perineum,
as the blood is apt to insinuate
itself into the cellular mem-
brane, and frequently afterwards
alarms the patient with the
idea of fistulous Multiplication,
as well as sometimes being pro-
ductive of fistulous Ulcers.
The groove of the Staff should
then be felt, and felt distinct-
ly. It is to be laid bare, and the
point of the Forceps introduced

upon it, and passed into the bladder.

A great variety of Instruments have been invented for this part of the Operation of Lithotomy; among others, the Bistouri Cachée, which has been much used and recommended by the French Surgeons. In young subjects, and thin people, this will do very well: indeed, in these a Scalpel or Director is all that is necessary for the Operation. But in some cases,

particularly where the bladder⁷⁹
is surrounded by fat, they are all
objectionable. And as the life
of Man is so short, and the ex-
-perience of any individual in
this operation can be but lit-
-tle, I think time should not
be thrown away in trying a
variety of Instruments; but that
we should at all times use such
an instrument as will serve
under any circumstances. On that
ground, therefore, I am use-
-ful of those Instruments; though

I am very ready to admit that they may sometimes be used with advantage.

Thus, likewise, many Teachers of Anatomy is finding fault with the Manuscripts of the Instruments; and almost all of them have one of their own Invention; but this is Anatomy merely. I do not want an Instrument, which will make a clean cutting wound into the bladder. Of what use can it be, when immediately afterwards

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a large pair of iron forceps are
to be rudely thrust into it? On
the contrary there is a disadvan-
-tage attending a clean wound:
it is more likely to bleed than
another.

Now do I like the double-edged
Gorget. I once performed the Ope-
-ration with it at the desire
of a friend, but the Hemorrhage
was more profuse than any I
had ever seen. I would by all
means recommend the single-
-edged one. Upon the whole I

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Think Hawkins's original Gorget
the best: at least I have seen no
improvement on it.

It is to be recollected that the
point of the Staff is now to
be thrown up clearly into the
Bladder; and in order to do
this, the handle must be
taken by the Operator, and drawn
towards him. If you neglect to
do this, and you attempt to
pass the Gorget, you may push
till the day of judgment be-
-fore you can get it into the Blad-

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- der, as you are pressing it on the
groove of the Staff at a right
Angle. Or if it happens to slip,
it will go through the Rectum
or any where else.

In running the Gages, there-
- fore, into the bladder, the
hand must be lowered, to
keep the beak of the Gages
in the sweep of the groove of
the Staff.

Sometimes the parts are
so thickened, that I have found
considerable difficulty in cutting

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though them, and it may be
here requisite to enlarge the
Incision. But we should be
prepared for all accidents; for
I know of no Operation where
self-confidence is more wanted.
You should be likewise well
acquainted with the Instru-
ments you use. In one in-
stance, a Forceps which I
had used several times before,
whether from being put into
water too hot, or some other
circumstance, in passing it

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into the bladder, broke in
the middle, and one half was
left in my hand, while the
other half was left buried in
the Muscles of the Perine-
um. This was a circumstance
for which I was totally unpre-
-pared, and what to do I did
not know. However, by taking
a pair of common dressing
forceps, and pulling and twist-
-ing the end of the piece back-
-wards and forward, I succeeded
in extracting it.

If Urine gushes out, the Gorget is un-
 -derately introduced into the Blad-
 -der. The finger may now be intro-
 -duced on the groove of the Gorget
 into the Bladder, by doing which
 you may now and then learn some-
 -thing as to the size and situ-
 -ation of the Stone.

The proops are to be introduced in
 the same way. These should be of
 that size, which you think most
 advisable, and adapted to the
 particular circumstances. They
 are better too long than otherwise;

and should always be introduced ⁸⁷
on the Syget, before you withdraw
it. When they are in the bladder,
and the Syget is pulled out, they
are to be slowly opened, as far as the
bladder will permit, and then clo-
sed gently, so as to get the Stone
between them.

If the Stone be of a moderate size,
by this means it will be laid hold of,
and if this can be done, there will
be little difficulty in extracting it.

The forceps are to be turned in the
bladder, and the Stone grasped

gently, so as to pull rather than
push it, for fear of breaking it.

But I have a thousand difficulties
and, as the Stone is very liable to
break, or you may be unable to get
hold of it.

I once saw an operation performed,
where the Surgeon was unable by
any means to lay hold of the Stone,
which embarrassed him so much,
and lengthened the operation to
such a degree, that patient af-
terwards died from loss of blood
and debility. Indeed I have gene-

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rally observed, that when the operation lasts only a few minutes, the patient commonly recovers; when longer than half an hour, it is almost always fatal.

When the Stone is flat, the forceps should be opened as wide as possible, so as to get beyond the edges of it, which is the most favorable mode of grasping it. I commonly thrust my forceps round with the Stone in them, that I may the more readily extract it.

The Case of the last patient, on which

I performed this operation at St. Georges Hospital, was such as I had never met with before. The Stone was by far the most flat, and the largest of the kind I had ever seen, and I conceive that had the patient been rusty and fat, I should never have been able to extract it at all. But in this instance my finger was long enough to introduce, and ascertain its shape, which removed the difficulty. Still, however, it was not easy to extract the Stone, as part of it extended beyond the forceps, and it

was liable to be thrown back, by the
ring against the adjoining parts.

When the Stone breaks,
the pieces should be extracted as fast
as possible; in this case the blad-
der is apt to contract round the
pieces, and renders their extraction
very difficult. Warm water should
afterwards be thrown into the blad-
der to wash it out.

If it is inflamed, Coagulable Lymph
will sometimes be thrown out, and
a Stone formed in it, which is by
far the most difficult kind to

extract.

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A considerable Hemorrhage some-
times takes place during and af-
ter this operation; but pressure
will generally be sufficient to stop
it; or if it will not, there is so much
difficulty in taking up the re-
-sult, that styptics are the only things
you can apply. This forms the prin-
-cipal reason, why the Surgeon should
not cut freely.

Long Disease will sometimes
cause the Vessels to lose their
tone, and here the patient must

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immediately die. I have long ago
given up all ideas of securing the
Vessels with a Ligature, and Symp-
tics have been my only resource.

Now that I am upon this
subject, I may mention a circum-
-stance which has lately occurred
in this Country, and the impo-
-sibility of which you ought to be
-aware of. One of the King's
-Houses had a Stone in his Bladder,
and the Operation for extracting
it was performed by a French
-Famier. The Case would in all pro-

lability have done very well, had it not been for the extreme Ignorance of those who attended.

They regularly every day injected warm water into the bladder through the Rectum, in order, as they said, to wash it out, and clean it. By this means they every day removed the Coagulable Lymph, which had been formed within the last four and twenty hours, and the horse, in consequence of this treatment, died.

The bladder on the contrary is

to be left entirely to itself, and a
tranquil state and low regimen
injoined.

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Lecture the 10.

Stricture

Is a disease of no small importance, since there is no one, to which young men of the present age are more liable; none more distressing in the symptoms and consequences, which it produces; none in which a cure is more gratifying both to the Patient and Surgeon, or which sooner tends to an increase of credit and fortune. It interferes so much

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with the natural functions
of the neighbouring parts, that
it produces more local and con-
stitutional symptoms than
almost any other disease.

Stricture consists of a permanent
contraction of any part of the
Urethra canal, which lies be-
tween the external orifice of
the Urethra, and the neck of
the bladder.

It is produced in two ways:

First, it may be the effect of
a diseased action in a portion of

The membrane of the Canal,
which may contract unnaturally,
and lose the power of relaxation.
Thus no alteration of structure is
apparent; it is merely a simple
fold of the internal membrane.
Secondly, Stricture may be the
consequence of an alteration of
structure in the parts surround-
ing the internal membrane of
the Urethra; they become thick-
ened, press upon, and diminish
the natural passage. This is com-
monly the effect of Inflammation.

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mention of one of the Diseases.
Although the symptoms in each
nearly correspond, yet, as they are
diseases of a different nature, and
require different treatment, I
shall consider them separately.

But before the diseased state of
the Urethra can be explained, it
will be necessary to attend to its
natural state.

Like every other excretory duct,
it is capable of being in two
states, a relaxed and a contrac-
-ted one. In this Canal such

variety of state is peculiarly necessary, because two fluids are at different times to pass through it; one in a large, the other in a small quantity. On this account there must be a contraction throughout the whole length of the Canal; but in the act of Copulation, one part is particularly so. The semen as it is formed, is gradually collected in a cavity near the bulb of the Urethra; and as at that time it is all thrown out, the parts beyond

become doubly contracted, to pre-
-vent its being thrown backwards
into the bladder. Now the dis-
-ease, of which we are speaking,
is no other than this spasmodic
contraction rendered permanent.

The different causes producing
it, are so evident, that it is not
worth while to dwell on
them. As irritating substances
are numerous, so will the causes
of Stricture be numerous.

It is sometimes found in children
of five or six years old: here the cause

is generally gravel. There are instances of its having been produced by gonorrhoea, before the parts are able to perform their office. It will be an effect of any Inflammation to the membranous part of the canal, consequently of a Venereal Gonorrhoea when the symptoms run very high. But Stricture is more commonly caused by the means used for the cure of it, particularly irritative injections. Repeated blisters will not so produce it.

When once Stricture has taken

place, that circumstance alone becomes a cause of its increase; that is, if one portion of the Canal becomes narrower than the rest, when the patient makes water, the whole stream cannot pass through this diminished passage, and the bladder cannot empty itself with the same degree of force in the same time, so that part of it strains against the sides of the contracted portion, and the water is passed with much less facility. Thus the action of the bladder becomes in-

ceased; and the whole of the Canal
on the outside of the Sphincter,
not being even fully dilated by
the diminished stream is always
in a state of contraction between
the extremities.

In this contracted state the U-
rethra is more readily acted, so that
the disease is sooner increased than
formed. The bladder, when irritat-
ed, is capable of producing a
spasmodic contraction in the
middle of the Urethra, as I men-
tioned in the last Lecture; this

becomes a cause of a Succession of
Structures.

The most common situation, in
which this disease is met with,
is at seven inches and an half
from the external orifice of the
Urethra. Next to this, the most
frequent is at five and an half,
a third at four and so on; and
from the same cause the exter-
nal orifice itself shall contract
also.

The progress and succession of these
-tures is so regular, that by exami-

-nation with a bougie you may
 almost ascertain the number of
 them, and the duration of the vi-
 -ginal one. This is certainly not with-
 -out exceptions, but still it will
 hold good as a general rule. A Suc-
 -cession of Strictures may be con-
 -sidered as a symptom of the
 viginal one at seven inches and
 an half.

Before the Symptoms are consi-
 -dered, a few words may be said
 on the second kind of Stricture.
 Gonorrhoea itself seldom inflames

the Lacuna, so as to cause them ¹⁰⁴
to form prominent tumours, but
where Injections are used, more vi-
olent than the parts can bear,
(and what is mild to one Uterus
shall be extremely violent to ano-
-ther) this is very common. I have
seen in warm climates the mild-
est injections composed of weak
solutions of Sugar of Lead, cause
this kind of Structure, on which
account I never used any In-
jections at all.

In general it may be distinguished

id by feeling the Copas Stone
-genium externally. It is most com-
-monly about two inches from
the orifice of the Urethra. I never
met with it closer to the exte-
-nal orifice, till within this month;
when a Gentleman came to me,
who had been labouring under
Stricture for fifteen years; and
on my attempting to pass a bou-
-gie, not the smallest one would
pass the least distance into the
Urethra. From what experience
I had had in this disease, I concluded

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There were several others, On enquir-
ing into the history of the case,
I found that he had on some occasion
used a weak solution 14 years ago,
but that it gave him so much
pain that he fainted, and never us-
ed one afterwards. On removing
this Stricture, I found to my sur-
prise that there was no other dis-
ease, and the consequence proved
so, for the patient was always
puffing his breeches, the whole
of the Urethra having become
so enlarged by the constant pres-

sure of the Urine on it, that it had
lost the power of Coaction.

The most common symptom of
Structure is a frequency and diffi-
culty of making water. The
patient shall feel a desire to
make water, but shall wait
half or the whole of a minute,
before the stream shall pass.
He shall then void his urine
pretty well; but when he thinks
he has done, he shall have a
fresh inclination, and only make
a few drops, or a little shall w-

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escape involuntarily. Add to
this an occasional discharge
from the Lacuna of the Ure-
thra.

These Symptoms are increased
by connection with women, drink-
ing, catching cold and so on; and
as the disease increases, they in-
crease likewise. The neck of the
Bladder becomes disturbed, the
internal membrane irritated,
and the whole of the parts thick-
ened. In nineteen cases out of
twenty, this stage of Stricture

is mistaken for diseased prostate gland; and Anatomists, as they are the most exact, are particularly liable to this mistake. The finger is pressed up the urethra, and every thing tumid, which is felt there, is naturally supposed to be the prostate gland; but in this disturbed state of parts, every thing becomes tumid. There is no end to the symptoms of Stricture. The effects, which it produces on the bladder, are very considerable.

As the Muscular coat is obliged
 to exert greater force in order to
 expel its contents, it becomes
 inflamed and thickened, but this
 not regularly, some fascies of fibres
 being naturally stronger, and much
 more or less easily affected, than
 others. This irritation produces a
 secretion from the bladder it-
 self as well as the membrane
 of the Urethra, which is not un-
 frequently mistaken for a Ve-
 nereal Gonorrhoea. At one time
 this whole part or the appearance

ance of common pus; at another
 it is like hair powder falling
 to the bottom of the Vessel; and
 sometimes coagulable Lymph
 alone is secreted.

When there is a lesser state
 of irritation, there is an appear-
 -ance not unlike Vermicelli
 mixed with the Urine; this aris-
 -es from flakes of Coagulable
 Lymph swimming in it. Now and
 then there is aropy kind of fluid,
 about the consistence of bird lime:
 this appears to me to be entirely

and solely the secretion of the
Prostate Gland.

To go on with the increase of the
Disease — There is an occa-
sional retention of Urine; for
as the bladder becomes unable
to evacuate its contents, it fills,
so that it is unable to contain
receive any more. Thus the
Urine is lodged in the Ureters, which
produces a dilatation of their in-
-fices, and whole length; the Urine
can no longer discharge itself
from the kidneys, and the conse-

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quency is a collection in the
Pelvis.

When the bladder is distended,
if the patient endeavours to make
water, it will be forced back a-
gain through the enlarged Ure-
ters into the Kidneys, which is a
very distressing symptom. In one
instance I found this the only
symptom, and considered it as quite
unconnected with the Stricture;
but upon removing the Stricture,
it entirely went off. Sometimes
it only takes place in one Kidney;

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and it is more common, than is
generally imagined.

Besides these, which may be
termed local Symptoms, there
are many others; the sympathy
between the Stomach and Ue-
-thra being as great as between
any two parts of the body. The
Stomach has hardly received any
irritating substance into it,
(particularly acids), before the
effect is felt in the bladder &
Urethra; and this sympathy was
so great in one patient of mine,

that, if at dinner he drank a glass of wine, he was obliged to leave the room immediately.

The Stomach is affected by the Uterus in the same manner.

The Uterus, therefore, independent of disease itself, is capable of being affected by all complaints, arising from irritation of the Stomach.

The most frequent constitutional symptom, is a violent paroxysm, similar to an ague fit: a shivering shall first come on,

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then a hot feet, followed by a profuse perspiration. This shall happen more particularly, when the parts are in an unusual state of irritability from exposure to cold, which is the most common cause. I have known it brought on by the patient's setting his foot on a cold hearth. This Symptom is sometimes the only considerable one, and as it is natural that a patient in an ague feet, should not make water well, the cause is by some Surgeons mistaken for the effect.

Besides this paroxysm, a Stricture
shall keep up a kind of low re-
-mittent fever; occasioned by dis-
-turbed constitution. This shall
produce Eruptions over the whole
body—Irregularity of the bowels,
they being at one time extremely
bound, at another very loose—
Sore Throat—Affections of the
Tongue, and a variety of others.
Sometimes the symptoms pro-
-duced by it are of a very odd na-
-ture. I knew one patient who was
always attacked with a violent

pain in the region of his stomach, after he had been about two hours in bed, which he lost entirely on the removal of the Stethum.

The Symptoms are very much regulated by common circumstances. For instance — A Patient has come to me, and told me that he was unable to make water in a stable yard as he passed through Board Street, but after making him sit down by the fire, and give me a minute

History of his case, he has found
not the least difficulty in doing
it.

Some of the modes in which
Suppression of Urine comes on, are
very curious. A patient goes to the
play, and after sitting for some
hours in a hot crowded house, gets
into a cold damp hackney coach,
which perhaps has been standing
for the last twelve hours in the
rain, and then finds himself
unable to make water.

Stricture is almost constantly

attended by Piles, which are occasioned by the perpetuation of sitting in smoking water. In many Constitutions it is attended by a considerable depression of spirits, and renders the patient miserable, from the idea that he is unfit to marry. Having said so much of the Symptoms of this Disease, we will now consider the mode of its increase, where no means of relief are afforded.

When Stricture has once taken place, it increases uniformly and

progressively in Degree as well as num-
 ber; though from the irregula-
 rity of the Symptoms, there at first
 sight seems little reason to think
 so. Its progress is sometimes delu-
 sive and imperceptible; this kind
 is the most dangerous.

The Ureters, Nidneys, all, become
 more liable to be affected. The
 patient loses his general health;
 the frequency and difficulty of
 making water increases. The pa-
 tient sometimes is able to make
 water only in the sitting posture,

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and then shall strain for half or
three quarters of an hour, before
he is able to make it at all,
and at last with the utmost
difficulty.

Shickens, though at first they
consist of a mass of the in-
ternal membrane of the Uter-
us, thinner at the edge, and
thicker towards the base, yet grow
thicker in substance, and harder
in texture. At this time they
frequently extend in length,
so that instead of having two, or

inch distant from one another,
you shall have one an inch and
a half long.

At last the substance becomes
changed in its nature, and in
some instances almost Cartilagi-
nous, though the structure is
commonly Ligamentous; then the
Structure becomes less liable to
Vacuation or Spasms.

In this stage, the mode of treat-
ment is very difficult. When
relief is not given, if the pass-
age through the original stric-
ture

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Ure becomes a very small one,
the Urine will scarcely be able to
pass through it; and if any mu-
cus from the Bladder approach-
es the Structure, it will entirely
block it up. The Bladder is
by this time so accustomed to
retain the Urine, that it will
remain half full without much
inconvenience to the Patient.

Under these circumstances
the parts become altered in
structure; the Structure in-
flames, and Ulceration com-

mostly takes place. If this be-
 gins behind the Structure and
 involves the Structure in it, the
 Patient has a chance of recovery.
 But it more commonly proceeds
 along the internal membrane
 of the Urethra, and then to
 the surrounding parts, which
 is a great drawback to the cure
 by this means.

When the Ulceration is confined
 behind the Structure, the Urine
 gets into the Ulcerated parts,
 but the Constitution is now so

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was out, that it is seldom able to
stop the parts from running
into Mortification. If this has
taken place, in looking at
the orifice of the Urethra, a
black ring will be observed
round the edge of it, which is the
internal membrane mortified.

But when the symp-
toms are not so violent, and
the Constitution is good, a small
drop of Urine sometimes gets
into the cellular membrane
behind the Sheath, where it pre-

mainis, till it forms an abscess,
which points externally and breaks.

This fresh disease is not to be
considered as a misfortune, but
as salutary; for when a fistula
in perineo takes place, the
Patient is no longer liable
to suppression of Urine, as
long as the fistula is kept
open. If, instead of bursting
externally, this abscess bursts in-
to the surrounding cellular
membrane, the patient will
inevitably fall a sacrifice to it.

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There then a practice is to be
adopted, which does not hold
good in any other part of the
Body. As soon as any tumour
is felt in the Perineum, it must
be immediately punctured with
the point of a Lancet; that what-
ever Urine is contained in it,
(and there is always a small
quantity) may be evacuated,
but it should diffuse itself into
the surrounding parts. A punct-
ure, even if nothing follows
it, will relieve the patient; for

if you only divide the Pleura or Par-
 -eia surrounding the Pulmon
 part of the Pleura (which, when
 affected, produces the most violent
 symptoms) you are doing good
 by giving a free exit to any mat-
 -ter or urine, which may col-
 -lect there hereafter. The pa-
 -tient, when this Tumour is for-
 -ming a Formed, suffers little
 or nothing from the local com-
 -plaint, but is affected by fever
 and other Constitutional Symp-
 -toms.

In one case of this kind to which I was called in, I found the Physician & Surgeon disputing concerning the nature of the Fever under which the patient laboured. I examined the Perinaeum, and found a small indistinct Tumour. They asked me my opinion of the fever. I said: "Diana the fever: I'm not thinking of the fever — I'm thinking of a Tumour which I have found in the Perinaeum, and which, if not opened,

will kill him in four and twenty
hours." "Oh! then open it by all
means," said one of them. I told them
that it was very easy to talk and
tell me to open it, but that I did
not know how to open it. However,
I ventured to puncture one part
of it with the point of a Lancet,
and out came about a teaspoon-
-ful of a fluid, so fetid, that we
were almost obliged to leave the
room. The removal of this entire-
-ly relieved the patient, and the
fever quickly left him.

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This tumour. I knew from experience
-ence would have destroyed him in
a few hours; so that I would advise
you to watch the first moment of
the formation of such a tumour,
where it is suspected to be coming,
and risk every thing to puncture
it.

Sometimes, if the bladder is en-
-flamed, coagulable Lymph is
thrown out in large quantities,
and its cavity is nearly obliterated.
This inevitably terminates in
Death.

There is another denomination of
Thickness in Death, the most me-
lancholy, the most miserable
I have ever witnessed. I mean the
Swelling of the bladder, which
happens, when it is not punctu-
red. When it becomes distended
beyond its natural state, some
portion, less able to sustain the
pressure than the rest, forms a
Sacculus, and at length gives
way. The Urine then escapes into
the Cavity of the Abdomen; the
Patient is then attacked with

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Symptoms of Venereal Inflammation, Fever, Delirium; at other times, with Symptoms very nearly similar to those of Hydrophobia, and dies.

I would, therefore, never hesitate, when other modes of relief have proved ineffectual, to puncture the bladder. This frequently succeeds, whereas the idea of leaving the bladder to burst is horrible.

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Lecture the 11th

The Treatment of Stricture.

Having in the last Lecture en-
deavoured to point out the Na-
-ture of Strictures, the Symptoms
which it produces, and its modes
of termination in Fistula in pe-
-rinas and death; I shall today
proceed to point out what I con-
-sider to be the best method of
treating it.

Now the Urethra a tube com-
-posed of inextensible materials, and

rigid in its form, nothing would
be necessary, farther than a mere
wedge, to bring back the parts to
their natural state, in the cure
of Thicket of it. But unfortu-
nately, the parts in which
this disease takes place, have
in a healthy state the power
of varying their dimensions, which
power becomes increased in dis-
ease; so that an irritation,
which is incapable of causing
the Uterus to contract in a na-
tural State, shall in disease

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produce contraction in it, suffi-
-ciently strong to close up the
whole Canal.

This simple mode of relief, there-
-fore, becomes ineffectual, because
it is not only necessary to restore the
parts to their natural state, but
to take away their increased irri-
-tability, and keep them so. If
the Urethra in a particula-
-spot is contracted to half its re-
-gular dimensions, mechanical
force will restore it to its origi-
-nal state, but mechanical force

will not prevent its contracting^{ing}
again. It is here to be recollected,
that, when the parts are tran-
-quil, the tube is not open, but
collapsed, a circumstance, which
in some measure accounts for
the difficulty of passing instru-
-ments into the bladder.

There are two methods, and only
two, in general use, by which
a Stricture may be relieved:
the one is, by dilating the con-
-tracted part; the other by
destroying it.

The first of these is effected by means of an Instrument, termed a Bougie. It has been compounded of a variety of substances, influenced, like every thing else, by Fashion. At first it was nothing more than a leaden plummet; but this being found too harsh, one of a more quiet Nature was invented, the properties of which are merely mechanical. Durand was the first, who left off the use of leaden Bougies; he succeeded in making

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The Public believe, that the
composition of his Bougies was
Medicinal, and that they would
cure Strictures, Gonorrhoeas, Ulcers,
&c of the Urethra. They are com-
monly made of wax and oil,
with some other ingredient to
give them various degrees of
hardness. The properties requi-
red of them, are, a polished
surface, a certain degree of pli-
ancy, and at the same time of
consistence. For, though to some U-
rethra will bear a Bougie

with a rough surface, yet the
irritability of others is much too
great to allow of one.

The use of this Instrument has
been continued for above a Cen-
tury; so that there has been a
-bundance of time to ascertain
the advantages, and disadvan-
-tages arising from this practice.
Had it been always successful,
or even generally so, no other mode,
(particularly a more violent
one) would have been admitted
into use. But this mode has

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has been attended with great
inconveniences and objections; for
the irritating power of the Pon-
gie is so great, that I have even
sometimes seen fresh Strictures
produced by its use. It is not
an uncommon thing to pass a
Pongie in the latter stages
of Gonorrhoea, and from that
I have known Strictures proceed.

Notwithstanding, however, these
objections, it is necessary for you
to know, when the Pongie may
be used advantageously.

When the Disease is incipient,
when the parts have been only
permanently contracted, and no
alteration has taken place in
their Structure, it will in ma-
ny instances be able to relieve
it, sometimes in two or three
applications; the parts will
fall back into their natural
state do very well. But un-
fortunately, the patient sel-
dom is aware that he has the
disease, till sometime after it
has begun; or, if he is, suffers

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It to make considerable progress,
before he applies to a medical
attendant. It is generally first
observed after connection, when a
discharge comes on, which the
patient mistakes for Gonorrhoea;
or by its producing Strangury.

If the disease has extended be-
yond certain limits, the Bougie
will have little or no power; for
in general the edges of the contract-
ed part are grown so hard, that
they turn off the point of the
probe; so that, though the viscus

is large enough to admit a crow-¹⁷⁵
-quill, it will fall to the under
part.

The Urethra has no irregularity
in its upper surface, but many
in its under one; the bulb and
orifice of the bladder, and the
roughness and irregularity of the
internal surface, all causing
difficulty in the passage of In-
struments. Now, therefore, that
we are better acquainted with
the Nature and dimensions of
the Urinary Canal, we are enabled

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to pass much larger Instruments,
than were before used. Formerly
they were pushed forward, and al-
lowed to find their own way in-
to the bladder; and as they were
small, (and of course pliant) they
were impeded in their progress
by every irregularity in the U-
rethra, which they came to.
Large Bougies, however, are ex-
tremely different: instead of being
pliant, they should be bent some-
what to the form of a Catheter,
especially at the point. In passing

a large Bougie, merely with a view of examining the Stricture. Urethra, attention should be paid to this circumstance, and operation should proceed cautiously.

Metallick Bougies have been used, and they will sometimes pass into the bladder, when Bougies made of softer materials will not; but these are always cases of irritable Urethra, mistaken for Stricture. Metallick Bougies are much the worst that can be used in Stricture, particularly

when attended with much irritation or spasm.

When the Bougie is passed into the bladder, and immediately withdrawn, I have found that I get on faster with the dilatation of a Stricture, than when it is suffered to remain for some time. When passed, it causes a kind of spasm or uneasiness in the parts, which goes off in two or three minutes. But if the Bougie is suffered to remain in the Urethra long, this is

succeeded by a second, at the end
of ten or twelve minutes; and I
therefore never allow the Bougie
to remain in long enough to being
on the second spasm.

If then the softest, and least ir-
ritating, kind of Bougie excites
irritation by being allowed to
remain in the Canal any length
of time, how much greater irri-
tation must be produced by a
Metallic Instrument?

The common Bougie is always
of use to a certain degree, as when

Spasm comes on in a Stricture
not of itself inconvenient.

In very great Strictures, the Cat-
gut Bougies are much the best,
for if they are pushed through the
Stricture, the Urine will swell
them, and thus a much larger
passage is formed.

The following circumstance may
be remarked here as a curious one,
frequently attendant on this dis-
ease, when it is attended with
Strangury. A patient, having one
Stricture at five inches and a half

and another at seven inches and
 a half, if a Bougie is passed six
 inches, and is grasped by the Sheer-
 -tube at five and a half, will un-
 -doubtedly make water. But if
 the Bougie is not acted on by the
 first, there is little chance of his
 doing it. This arises from Sym-
 -pathy; for when that at five
 inches and a half contracts, the
 other dilates.

Upon the whole, then, when the
 disease affecting the Urethra
 can be got over, or acted upon, by

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by the common Practice, I would
advise you never to make use of
more violent means.

That as there are some strictures,
where this Instrument will be
sufficient, other means must be
resorted to, more violent, but
at the same time more effica-
cious, and often much quicker
in their effects. These means are
destroying the diseased parts, in-
stead of relaxing them.

Mr. Hunter first made use
of Lunar Caustic, in the cure of

Structures. Some attempts at Rochar-
notics had indeed been made be-
fore his time; but the know-
ledge of the parts was then so
insufficient, as to give small cause
for satisfaction, and they were
very soon laid aside. When a Pon-
gie would not pass into the blad-
der, Mr Hunter proposed ma-
king a passage by Caustic.
Having seen his practice, and
the effect of Lunar Caustic, as
used by him, I was led to the
idea, that where the orifice of

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The Stricture was only contracted,
The Lunar Caustic might have
the power of destroying that con-
traction. I was the more incli-
ned to this opinion by a case
then under my care.

A gentleman had a Stric-
ture in his Urethra, which
would admit of the introduction
of a Catheter to draw of his wa-
ter, but from the Spasm, would
not allow the water to pass off
by the natural means. After
trying in vain to cure it with a

common Tongue, I tried the Caustic, and removed both the Spasm and Stricture by two applications of it, neither of them having ever before returned.

This was certainly a particularly fortunate case, as I afterwards found; but it was a new fact, and led me to adapt the practice of applying it, in a more free and extensive manner than I had hitherto done.

I have stated to you in a former Lecture, that the original Stric-

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- Time was generally at seven inches
and a half from the external sur-
- face of the Cluthra, and that if
this is allowed to remain for a cer-
- tain time, a succession of them
will be formed inside to the or-
- iginal one. What affects one, shall
affect them all; so that, if you
pass a bougie armed with Caus-
- tic through a Stricture at two
inches and a half without entire-
- ly destroying it, and then carry
it on to one at five inches, the
very circumstance of passing it

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on to that at five inches shall
being on a fresh contraction in that
at two inches and a half, and the
next time you endeavour to pass
Rouge, it shall not pass the first.
I was led to this by observing the
practice of M^r. Hunter. If he
could enlarge the first sufficient-
ly to allow him to go on to the
second, he did go to the second, and
so on, till he came to the original
one; when, in endeavouring to get
through this he not infrequent-
ly made all the others return.

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By being aware of the cause of these failures, I was enabled to get over this difficulty; and knowing more accurately than had been generally ascertained, the size and dimensions of the Uterus, I was enabled to use large Pongies, so as not to leave the Uterus half destroyed.

When we recollect, that the Canal, in that part in which the original Uterus is, forms a curve; it must be evident, that, unless the Pongie be large, it will be pressed

particularly against the lower an-
gle or surface, when it reaches
the curved part of the Canal; and
on this account Mr. Hunter was
hardly ever able to succeed in mak-
ing that kind of incision which he
wished.

Having made these general ob-
servations, it may be requisite
to give some directions concerning
the use of the armed Bougie. In
examining the parts, in order to
ascertain whether there is any
disease at all, or in what stage.

is, the size of the Urethra at its orifice should be remarked, which is often very deceitful. A common Bougie should then be passed, as large as the orifice will permit, to learn what length of the Canal is in its natural state. I have frequently been able to pass a full sized Bougie, when all attempts with a smaller one have proved ineffectual.

A friend of mine, a Surgeon, had a patient whom he supposed to have a stricture, to which he wished

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to apply Caustic; the patient, how-
ever, objecting to it, he brought
him to me for my sanction of the
Application of it. I was going to pass
a full sized Bougie, when the Sur-
geon stopped me, and said: "Good
God! Sir, I can't pass one of the
smallest size". I said, that was no-
thing at all to me; that it was
my business to see whether the
patient had a Stricture or not;
and accordingly I passed this large
one completely into his bladder,
to the great as to wishment of my

found. The fact was, that the irregularities on the under surface of the Vectra had allowed the small one to hitch in them, while my large one passed over them without impediment.

For the purpose of examination, the white Rougee is the best; for after having ascertained how far it will pass, without obstruction, if it is suffered to remain some time opposed to the obstruction, its rounded end will in gene-

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ral being back an impression of
the size of the aperture through
that part.

The next thing to be done is to
remove this structure. This process
consists in passing an unarm'd
Bougie down to the part, in order
to unfold its internal membrane,
so as to allow the armed one to
reach the spot; and then in pas-
sing the latter, with as much
velocity as prudence will admit
of. From its size, the end of it must
be in contact with the whole structure.

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If the aperture of the Structure
will admit a Bougie of two sizes
less than that which has been
passed, an armed one of the same
size should be passed in preference,
which in two or three applications
will entirely remove the Structure.
The Caustic should never be re-
peated oftener than every other
day. Indeed it will frequently be
prudent not to pass it for four
or five days, until the parts are
perfectly tranquil. If it is a week
or ten days before the effect ceases,

it is not to be applied before.

Having got over the first Stri-
-ture, you are to go on to the
second, and the same mode of
treatment is to be observed.

When you get to the curve of the
Urethra, the armed Bougie should
be curved; and as the solution of
the Caustic is apt to fall on the
lower surface, that part will
be perforated first, on which ac-
count you should examine the
unarmed Bougie after passing it, to
see when you have got through.

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When this is the Case, care should
be taken, that only the upper
part of the Carina be touched
by the Cauter, or only the upper
surface of the Bougie armed with
it. This, then, is the manual ope-
ration of removing a Stricture by
Cauter; but in this practice
there are many difficulties to
encounter.

In the first place, the Cauter
will bring on every symptom,
to which the patient was liable
from the disease, before its use.

and sometimes very violently; but seldom or ever any other.

There is commonly a paroxysm of fever, if ever the patient was subject to them before, brought on, as soon as the Bougie has passed the Stricture. If the mind is prepared for this, one half of the difficulty is got over; on which account I generally make a point of telling my patients that this will happen, or, when it does happen, of giving them joy of the removal of the Stricture, and console

them, by pointing out the progress
of their cure. It is astonishing, what
effect in this, as well every other
instance, a confidence in his Surge-
on has on the mind of the pati-
ent.

A gentleman, whom I was atten-
ding for Strictures, had an ague
fit, for which I had forgot to pre-
pare him. The Apothecary of
the family was immediately sent
for, and as I was attending him,
they thought it proper to let me
know of it. When I came, the

patient's wife ran to me, and told
me, her husband was dying. I said,
No, he was not dying, that I was glad
to hear he was so ill, for that it was
a necessary step towards his recovery.
She was glad to hear that, & he said,
but hoped it would never happen
again. "Yes, Ma'am" replied I, "it
will happen twice more." And so
it did; but my having predicted
it, had prepared their minds for
it, and it was considered as a sig-
nificant salubrious, rather than an ill-
-ness; consequently there was no alarm

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about it. This is commonly the case,
there is no alarm or anxiety, where
it is stated before-hand, but if this
is neglected the patient thinks he
is dying. In these cases nothing farther
is requisite, than to put
the patient to bed, keep him perfectly
quiet, encourage perspiration,
and make him drink diluting
liquors.

When the first attack is gone off,
which is attended with reaching,
vomiting, and sometimes delirium,
I commonly give some

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warm opening medicine, such as
a Senna draught, to remove the
effects of the fit.

If the patient has a succession
of these fits, the treatment by
Caustic must be laid down.

Another common symptom is
Thangury at the coming away of
the slough. This may appear para-
doxical, when I have before seen
that an armed Kongie relieved the pain;
but at the time the slough comes
off, or if there is much Inflam-
-mation in the parts, it very fre-

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quently takes place. It is to be
treated in the same manner, then,
as when it came before; for it sel-
dom makes its appearance then
for the first time. All that
is necessary, is to pass a small *Pom-
-pili* into the bladder, and let
it remain, till an inclination
to urinate comes on. There
are, however, cases, in which a *Pom-
-pili* cannot be passed, or if it can,
it does no good; here fifty drops
of *Laudanum* will be given every
hour or two, till the spasm goes off.

Another much more alarm-
 -ing effect to the patient, and
 frequently to the Surgeon, is Ha-
 -morrhage, which is sometimes
 very considerable. When I first
 met with this symptom I was
 myself much alarmed at it; and
 many Surgeons have been deterred
 from using Caustic on that acc-
 -count. But there are two circum-
 -stances, which have removed all
 anxiety concerning it from my mind.
 The first is, that in no instance
 which has been under my care,

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have I found it fatal; and I have
found, that in every instance in
which it has taken place, the
patient has become completely
free from every kind of obstruc-
tion, and the disease has never
afterwards ^{re-appeared}. This is a sufficient
compensation for any tempora-
ry distress.

I saw a Gentleman this morning,
(and told him that I should tell
the Story) who was under my care
two years ago for a stricture, and
he has had no return of it since.

One day after the application of
 the Caustic, a Haemorrhage came
 on. As he lived in the city, and it
 was some time before I could be
 found, I suppose he must have
 been bleeding for full four hours
 before I reached him, and could not
 have lost less than two quarts
 of blood. I found him running
 about the room; in one place
 a bason half full of blood; then
 a washing tub, then a chamber
 -pot, and soon, and the surgeon
 making some kind of Bandage

or other to stop it. I told him to get into bed; to take a basin, & let it bleed into it; and when it was quite full, to empty it, and then let it bleed full again. I advised him to go to sleep as soon as he could, "and," I added, "in three days I will call again and see you." "Three days! Sir," says he, "I shall be dead in three hours. I told him, I know better, and left him. After considering how confident I was about it, his mind became quite easy, in a few mi-

minutes he fell asleep, and the bleeding stopped. I called at the end of the three days, and found him quite well, except a languor about him from the loss of blood.

I was called in to one case, where I found the patient laid on a couch, and two or three Surgeons had been sitting up with him all night, pressing his puerium with their hands.

Another patient of mine, a sailor, who was a good hand at making knots, thought that by

stopping up the end of his penis
 with one, he could stop the blood,
 and come to me, to show me how
 cleverly he had done it. "No" says I,
 "you haven't done it; but you've
 got yourself into a pretty scrape,
 for you've filled your bladder half
 full of blood; but that's your affair,
 not mine, I had no hand in it.
 And now you must drink, till
 you have set this congealed a-
 float, or you will not be able to
 make water at all."

The fact is, that the vessels sup-

-plying the Venæ, are not large
enough to suffer the patient to
bleed to Death.

In one case, where I had applied
Caustic, an Apothecary came to
me, and told me my patient was
dead. When I asked if he had seen
him since his death, he said, no,
but that he was bleeding so fast,
and had lost so large a quantity
of blood when he left him, that
he must be dead by this time. I
swore he was not dead, and that from
what he had seen, he had no busi-

ness to say he was. However, he
stood me out, and I went to see my
patient. I found him laid on a
table, and covered all over with
ice. On putting him to bed, the
bleeding stopped, and he got per-
fectly well, having had no re-
turn whatever of the disease.

Another patient of mine, a
Lieutenant of the Navy, got drunk,
(which he had no business to do)
after the application of the Caus-
tic, and a Hemorrhage ensued.

He came to me in a great fright,

and said, he was bleeding as if he
was *p-p-g*, and that he would show
it me. I begged he would do no such
thing; I said, I did not want to see it,
nor did I want my carpet and floor
stained and soiled with blood. I
advised him to go home, and get
to bed, and the bleeding would stop
of itself. He did so. The consequence
was as I had predicted, and he got
perfectly well of his Complaint.
I do not relate these cases by way
of a joke, but to impress you with
a proper confidence in your practice.

This symptoms, therefore, (the most
 tremendous in the eyes of many Sur-
 geons) I should prefer having to any
 other, were I to be afflicted with
 the disease. Such violent Hamor-
 rhage seems to alter entirely the
 disposition and nature of the parts.
 These are the principal symp-
 toms, which you are liable to meet
 with; but as they are all connected
 with the cure, they may be considered
 as fortunate events, rather than
 evils.

The most common mistake in

The treatment of this Disease is
passing a too small Bougie.

A Gentleman came from Ame-
rica to put himself under my
care; but as his friends resided
in the city, they persuaded him
to stay there; and, as I would not
attend him in the city, he put
himself under the care of one
of the most eminent Surgeons
in that part of the Town, who
wented to pass a large Bougie,
but the Gentleman would not
allow him. At the end of three

months, he came to me, and said
 that his Stricture resisted all
 the efforts of his Surgeon to cure
 it. I was going to pass a large
 Bougie, but he told me that
 that was out of the question,
 for they could not pass the small
 one. I, however, persisted in pass-
 -ing it, telling him that if he
 refused doing what his Surgeon
 thought proper, he would never
 get better. I found a Stricture at
 five inches and a half: but his
 health was so bad, that I was

afraid to touch it, and sent him
down to Weymouth to recover it.

There he got worse, and consulted
an Apothecary, who sent him up
to town again to me, and by him
sent me a written account of
his case on a loose piece of paper,
advising the end, that it was a
lost one. The Gentleman, anxious
to know his opinion of him,
read it, and was of course much
obliged to this wise Apotheca-
-ry for his information. After
getting through the first three.

ture, I found that a false pas-
 sage had been made by the small
 Bougie into the perineum; so
 that the two passages resembled
 the branching off of two roads.
 Finding this, it was of no use to
 apply the Caustic, because ap-
 plying it to the angle between
 the two passages, was doing no-
 thing, or worse than nothing.
 In such cases as these it is in-
 requisite to have a solid instru-
 ment, so curved as to pass into
 the bladder the right way, and

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then the false passage will heal
up.

In the other kind of Stricture, which
arises from Inflammation and thick-
ening of the Lacuna or internal
surface of the Urethra, the same
practice may be observed, but
quietly, and not to the same ex-
tent as in common Stricture.

As soon as the Bougie will pass,
it may be healed, like other
hardened parts.

I forget whether I stated in my
last Lecture that I never knew this.

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times from after 50 or 60 years of
age; but there are some instances,
when the patient does not suffer
severely from them, till after that
time. Thus I would never apply Cas-
tic; for the Urthra being less ir-
ritable, and liable to impurities,
the passing a Bougie every two or
three days, will be sufficient to keep
the Canal in a state to allow the
water ready passages.

th
Lecture th. 12.

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Diseased Prostate Gland.

The prostate gland is a part of the human body possessed of itself of no considerable degree of sensibility, nor do its functions appear connected with, or essential to the animal Economy.

But it is so much connected with the neck of the bladder, and, when enlarged, so much affects that organ, that I know no disease, which comes under the care of the Surgeon, more serious in its consequences,

and no one, in which we are now ca-
pable of affording relief.

The general form and situation of
the gland, I shall presume you have
already acquired; but there is a small
lobe, (if that term may be used) the
situation of which it will be ne-
cessary to explain, particularly
as an enlargement of this part
is connected with the disease of
which we are speaking.

It had been supposed that the
Prostate Gland in shape resem-
bled a Heart; but it has been

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lately found, by carefully dissecting,
the Vesiculae seminales, and Vasa
deferentia, that there is a small
lobe filling up the space between
them and the bladder. It was be-
fore known, that in diseased Pro-
state, a lobe projected forwards, and
caused the disease; but it was not
ascertained that this lobe existed,
when those parts were in a natu-
ral state.

On a former occasion I mentioned
to you, that Stricture was either
by a Disease of youth, or the

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other hand, diseased Prostate gland
belongs entirely to the later pe-
riods of Life. No disease is then
so common, and in the earlier part
of Life none so rare. This is so true,
that after sixty years of age, when
a patient complains of difficulty
in making water, my first idea
is that there is an affection of
the prostate; and there are very few
persons at the age eighty, who are
not more or less affected by this
disease.

The Prostate Gland consists of

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Three parts, which have been term-
ed Lobes, two lateral, and a poste-
rior one. These certainly enlarge
very unequally. Sometimes the two
lateral ones become considerably
increased in size, without any per-
ceptible enlargement of the pos-
terior one; but it is generally the
posterior one, which takes on the
enlargement first. It has in ge-
neral been supposed that the
enlargement of the two lateral
lobes creates a difficulty in making
water. They not only do not do this;

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but they do exactly the reverse; for,
as they surround the Urethra, they
make it larger than it was be-
fore, turning it from a circle in-
to a perpendicular oval. It is
not, therefore, this enlargement of
the body of the gland, which cau-
ses the difficulty in making
water; it is the lateral enlarge-
ment together with the enlarge-
ment of the posterior lobe, which
projects forwards through the coats
of the Urethra, and forms a kind
of valve, so as to impede the

passage of the Urine.

This lobe shall swell in consequence of cold, and shall subside, when the effects of that cold are removed.

But if the disease has gone so far, as to shut up the bladder, or create a difficulty in making water, that very circumstance shall become a cause for its farther increase; for in the attempting to make water, the pressure of the Urine against the projecting lobe, thrusts it, and makes it project still more.

In structure, the more the bladder is distended with urine, the worse is the situation of the patient, and the less liable is he to obtain relief. On the contrary, from the state of the Urethra and gland already mentioned, you will see that it is very different in Disease and Prostate. I have stated, that when the gland enlarges, the form of the Urethra is changed from a circle to an oval; and that the prostatic lobe of the Prostate fills up the lower part of this

oval, and prevents to a certain de-
 gree the passage of the Urine.
 If, however, the bladder is disten-
 ded beyond a certain limit, the
 Urine shall pass through that
 space, which is above the pro-
 jection in the oval, and the
 patient make a tolerable quan-
 tity. This, you observe, does not
 take place, till the Urine has
 risen above the level of the
 positive projection. After this
 it keeps running out through
 the upper part, which gives time

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to the bladder for accommodating
itself to the quantity of Urine,
and the patient makes water
every five or ten minutes, to the
great satisfaction of the medical
attendant, who, generally suppo-
ses, that he is not to draw off
the water, as long as it will come
away of itself; and that he has
done every thing, which is right
and proper. Thus he allows the
disease to go on increasing, till
the constitution sympathizes with
the bladder, and symptoms come

is similar to those of a low fever, which end only in dissolution.

Under these circumstances, is nothing to be done? Under what-
 edly you are to take off the pressure of the Urine from the neck of the bladder, which can only be effected by drawing off the water. And as a patient is commonly unwilling to have this operation performed on him, as long as he can pass his water without it, the great necessity for so doing should be explained

to him.

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This Disease is so common, that it is very often disregarded at first, but if it comes under the care of the Surgeon at an early period, by this means the attacks will generally go off in a short time. If, for instance a patient has caught cold, and a Shagueny comes on, it will be advantageous to draw off his water, whenever it is required. But if the disease has come on gradually, by drawing off the water frequently and regularly,

the enlarged portion of the gland
will subside.

It is impossible to do two things
at once; so a Surgeon, when he
suspects this disease, generally
examines the patient per anum,
to feel whether the gland is en-
larged, without paying the least
attention to the bladder; con-
ceiving that he is to judge of
the disease from the size of
the gland. You must, however,
perceive, from what I have said
concerning the posterior lobe of the

Prostate, that it is entirely out
of the reach of the finger, and
consequently that such examina-
tion is of no use whatever. You
are to judge solely from the symp-
toms. I am so strongly of this
opinion, that I have never for ma-
ny years past (before this pos-
itive fact was known) made a
ny examination at all by the
anus. The Surgeon, finding by his
finger, that it is enlarged, not
unfrequently gives it up for a
lost case.

I am ready to allow, that there
is no medicine in the Pharmacopoeia
capable of relieving an en-
largement of the prostate gland.
I have attended these cases with
every Physician of eminence in
this Town, and seen them attempt
all kinds of Medicine in vain.
There is none, which will take
off the pressure of the Urethra
from the enlarged gland, and
the only method of getting rid
of this enlargement is, by removing
this pressure, and leaving the parts

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tranquil. They will then subside;
at least the cases, where they will
not, are very rare.

The mistake in the treatment
of diseas'd Prostate is in resting
at all on medicine, and not at-
tending to the bladder. For-
mally I did not invariably object
to the giving of Medicines, that
their inefficiency might thus be
made evident to those who pro-
posed them; but in attending
on one or two persons of high
rank and consequence in the State,

I thought it my duty to object
to time being lost in giving them.

The Physicians said, I might do as
I pleased; that it would come to that
by and by; but to their surprise
and my satisfaction, my pati-
ents made water perfectly well
without their aid.

I wish here strongly to impress on
your mind two things: the first
is, not to put the least confi-
dence in Medicines; the second
to turn your attention entirely
to the bladder, and not suffer

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your patient to strain to make
water, so as to let the Urine
pass against the diseased pro-
jection.

Considerable dexterity is required
in passing the Instrument into
the bladder for the relief of this
disease. The Surgeon should make
himself familiar with the
difficulties attending its intro-
duction, and with the oblique
route from the natural passage.
I believe there are few Surgeons,
who understand the management

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of the Catheter in this disease
than in any other. I have come
in contact with so many of
all sorts, and seen them so defi-
cient in elasticity here, that
I feel myself justified in making
this remark; not by way of cen-
suring others, but to impress on
your minds the utility and dif-
ficulty of this operation.

In all Cases of stoppage of Urine
from enlargement of the Pro-
state, one circumstance must
be particularly attended to. When

is a wound to pass over at the neck of the bladder, which is not to be found in the natural state of the urethra, & behind this process a kind of cul de sac, or recess. These belong to all stages of the disease.

There is also a hardness and irregularity in the natural parts about the orifice of the bladder.

If, therefore, any attempt is made to pass the instrument as in a healthy subject, such

attempt will inevitably fail.

The point of the Instrument gets entangled in the cul-de-sac, and all efforts to push it forward do mischief.

These are not the only difficulties liable to be encountered; for there is commonly a spasmodic affection of the Uterus about five inches from its external orifice, which symptom I think is more frequent to be met with in this disease than in any other to which

these parts are subject. Indeed I have seen this to such a degree, that, although I could pass a flexible gum Catheter to the neck of the bladder, yet when the stilette was introduced within it, it was utterly impossible to pass it at all.

You may pass an instrument with any curve as far as the neck of the bladder; but if you have no Catheter, which will keep its proper curve, you are unable to relieve your

patient; and unfortunately
flexible gum Catheters are
always kept straight, that
they may be more convenient-
ly carried. If this is done, they
will never preserve their proper
curve when the stilette is out
of them; whereas, if they are
kept for years (months will
not do) on a stilette with
a certain curve, they will
retain that curve in such a
manner as to pass into the
bladder without losing it,

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said this is the only instrument
which can be used in this dis-
-ease.

I was sent for forty miles out of
Town to draw off a Gentleman's
water, and tried for a quarter
of an hour, changing from the
Catheter without the stylet
to one with it. I could pass
the Catheter without the
stylet to the neck of the
bladder, but not over it, and
when I tried it with the stylet,
it was impossible to pass

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at all. At last, however, taking one without a skittle, which retained its curve, I drew off his water.

Sometimes there is no spasm in the middle of the urethra, but such an enlargement at the neck of the bladder, as no common curve can get over.

In such a case as this, the curve of the instrument should be increased almost to a semicircle, if required.

I was sent for a few miles out

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of Iowa to draw off a gentle
man's water. He was about
two years of age, so I concluded
that there was disease of the
Prostate. Two other Surgeons were
present, and several syphon Ca-
theters were lying in the ba-
th. Not wishing to commit
myself, I begged them to tell
me the whole history of the
Case; which whilst they were
doing, I took one of the Cathe-
ters, in my hand, and was
sending it, when it broke.

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I then took another, and having made the curve as great as I wished, I passed it into the patient's bladder, and drew off his water with perfect ease.

They were much surprised at this, and one of them said: "Good God!

Mr. Home, do you always use such a curve?" I said no; but that in these cases such an one was frequently required to get the instrument into the bladder.

It sometimes happens, that the Catheter requires such a

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curve to get it into the bladder,
which is impossible to give it. Then
a flexible gum catheter will
enable you to succeed with a
little address. Suppose you are
enabled to pass the flexible ca-
theter with a certain curve,
and not the greater, to the neck
of the bladder, but you are un-
able to raise it over the pro-
jection there. If the end is
not entangled, by a pull of the
stylet, the end will frequent-
ly fly forward, and go into the

bladder.

I'd all say some of you have remarked before this time, how dirty I keep my instrument, and are surprised that it is not bright and polished. This is a remark very natural to an ignorant person. But if, instead of this rough rusty surface to my stilette, I were to have a smooth polished one, I should have no command at all over my instrument; it would slip and slide about, and be of no manner

of use.

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When you meet with a case
where there is a difficulty in
passing the Catheter, it will be
a wise measure to let it remain
in the bladder. For if you are
only able to draw it off once, you
might as well not have done it
at all; it being probable, that
when the water in the blad-
-der is drawn off, that with which
the Pelvis of the Kidney is dis-
-tended, falls down into the
bladder, and the secreting part

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being stimulated by pressure,
pours down a fresh quantity;
so that in a few hours the blad-
-der will be as full as it was
before. Besides, if the parts have
been much irritated or infla-
-mmed, disturbed, when you go to
pass the Catheter again, so much
Inflammation may have come
on, as to render it totally im-
-possible. It may with safety
be left in the bladder for two
or three days.

When there is difficulty in

passing the Instrument, advantage
 may sometimes be derived from
 passing the instrument up the
 Fundament, and telling the
 end of the Catheter forwards:
 this is now and then the only
 successful mode.

In some instances I have kept
 the Instrument in the bladder
 for 9 or 10 days together, and
 no inconvenience has been felt:
 in others, I have been unable
 to keep it in, longer than an
 hour and a half; for if the pa-

ment falls asleep, the irrita-
tion and erections are so violent,
as to render it insupportable.

There is one kind of enlarge-
ment of the Prostate Glands,
which makes the passing of the
Catheter more difficult, than
any I have yet stated. In the
first place the posterior lobe
is enlarged; secondly, there is a
greater and quicker enlarge-
ment of one of the ^{lateral} ~~posterior~~
lobes, than of the other; so that
one side of the Canal at this part

shall be convey, the other concave.
I met with a case of this kind
very early in life, when I knew
nothing of Surgery, but a good deal
of Anatomy. I was asked as a friend
to see a man at the Charter
House, whom the Surgeon &
Physician had given over. I
begged him to suffer me to
introduce the Catheter, but he
said that he had suffered so
much from repeated attempts,
that he would have it done no
more. It seemed, however, to me

so hurried to let a man die, without
making any attempts to relieve
him, that I persuaded him to
allow me to introduce it, upon
condition that I should desert,
when I gave him pain. When
the instrument had got a cer-
tain distance into the U-
rethra, it fairly turned round,
so that the part, which ought
to stand upright, laid hori-
zontally. I was unconscious of
doing this with my hand, and
tried again, with the same effect.

was produced. Trying the other side, it would not pass at all. As I did not give him much pain, I went on, but could by no means understand this. I took out the stilette; still nothing farther could be done; however, after twisting, and working, & trying for some time, I got the Catheter into the bladder, and drew off his water. The patient after this fell asleep, and expired. On examination of the parts after death, I ascertained the cause

of this turning round.

When the Urine has been retained a certain time, the bladder loses all power of action and sensation; there seems no sensibility with respect to those parts, and one would be led to believe, that there was no urine in it at all.

I was sent for to a case of this sort near Windsor. When I came, I was told that there was no occasion for drawing off the water, as the patient was become quite easy, and did not want it. I said,

that the specific purpose of my
going there was to draw off, and
accordingly I drew off about three
pints. I told them that in a few
hours he would want it drawn
off again, and as I was there,
that I would stay and do it. This
I did, and left him, and four
hours afterwards he died.

I have mentioned two cases, where
I was too late; I will now men-
tion one, where this operation
was performed in time.

I was sent for to see a patient,

The nature of whose case I was acquainted with. When I got to him, he was beginning to ram-ble, and loon himself. My first question was, whether his water had been drawn off; and I was answered in the negative. I immediately drew it off; the patient was much relieved, and got quite well: but I believe that had I been ten minutes later, I should have lost him.

In other cases, when the blad-der is over distended, delirium

comes on, and symptoms resembling
Typhus fever; it is not, however
Fever; it is merely the sympathetic
affection of the Constitution
with the Bladder.

I have met with two cases, in
which no attempt whatever would
succeed in getting over the pro-
jection formed by the Pro-
state at the neck of the Blad-
der. In one the agony was so
great, that the patient would
suffer no more attempts to be
made. When the parts were

examined after death, the prosi-
-tion was found to be full as large
as a common pear.

In the other, which was in a
Nobleman, after several attempts
to force the instrument on, it went
right through the U. into the
Bladder. - This relieved him
from the immediate symp-
-toms; but as the instrument
was not left in, it was neces-
-sary to introduce it again in
a few hours, when luckily it
found its way again through

the same hole. He lived in this manner for five years, and was obliged to have a drawing made of the curve, that it might be ascertained again. When he died, the enlarged gland was found perforated.

In two other Cases I have known the Catheter pass through the gland, without being productive of any bad symptoms. Sometimes when the Catheter is passed, as the last drops are coming away, excruciating pain

is felt. This arises from the irritation of that part of the internal membrane of the canal, which is placed on the sketch by the enlargement of the gland; for then its sensibility is exceedingly increased.

When this disease has once taken place, it is very liable to return. Any irritation at the neck of the bladder will produce its return; or that therefore mentioned as a cause.

Another cause, which was not

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now asked before that he was
known, is the attempts at Con-
-nection which, I am sorry to say,
many old men are guilty of. This
throws the seminal vessels, and
all those parts into a state of
Irritation.

The life of old men is, perhaps,
worth little; and you may car-
-ry it farther and say, that life
at any time is not worth much;
but certainly it is a great object
to render them comfortable &
free from pain, while they do.

live. Independent of this, there are
so many reasons why an old man's
life is valuable, the income &
welfare of the whole family
perhaps depending upon their
existence, that the cure of this
disease becomes of the utmost
consequence.


I have now, Gentlemen, finished
this Course of Lectures; a task
which I had imposed upon my-
self from a conviction of its
utility; and I have the greatest

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satisfaction in seeing from the
regularity of your attendance; &
from the constant attention
which you have paid to what
I have offered you, that my ideas
of them are not in your opin-
ions, unfounded.

I can take my leave of you, on-
ly by wishing you success in
whatever branches of the Pro-
fession you may engage; and
in whatever situation you may be
placed.

Finis.



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