A description of the human urinary bladder, and parts belonging to it, with anatomical figures shewing its make, situation, etc. : to which are added, animadversions on lithontripic medicines, particularly those of Mrs. Stephens, and an account of the dissections of some bodies of persons who died after the use of them / by James Parsons.

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Pusulis by T. Howe by Inepretor gent of Hospilet DESCRIPTION OF THE HUMAN Urinary BLADDER, And PARTS belonging to it WITH Anatomical Figures

> SHEWING Its MAKE, SITUATION, &c.

To which are added, ANIMADVERSIONS

ON Lithontriptic Medicines,

Particularly those of Mrs. STEPHENS;

AND

An ACCOUNT of the Diffections of fome Bodies of Perfons who died after the Use of them.

By JAMES PARSONS, M. D. Fellow of the ROYAL SOCIETY.

Tempus edax Rerum. \_\_\_\_\_ Ovid. Met. lib. 18. lin. 234.

LONDON: Printed for J. BRINDLEY, at the King's Arms in New Bond-street, 1742.





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# Dr. RICHARD MEAD,

TO

PHYSICIAN to the KING,

Fellow of the College of Physicians, and of the ROYAL SOCIETY of LONDON.

# SIR,



F the Defire of arriving at the Truth, in our Studies and Refearches, can' have any Weight, in qualifying a 2 one

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one to claim the Protection of fuch as are truly Great, I may hope for Permiffion to addrefs this little Book to you.

As one whole Number of Improvements the Medicinal Art is adorned with in every Branch, and of which the World every Day feels the good Effects, you command my Offer of the first Part; and of the reft, as one whofe every Action terminates in fome Benefit to your Fellow-Creatures, to whom the Welfare of Mankind is no indifferent Thing, and whole Dillike to whatever might prove detrimental to any, is not to be doubted.

Iown

I own it is an ambitious Claim, I take the Liberty of laying to your Approbation; but, I hope, I am no lefs excufable than the Numbers that have, heretofore, been as covetous of that Honour as I am at prefent : And tho' the Performance may not have a Right to fue for it, yet the Intention of producing fomething useful, cannot want that Sanction from you, which must render it the more acceptable to every one elfe. I am, SIR,

[v]

Your most Obedient, and most Oblig'd Humble Servant, James Parsons,





# THE PREFACE.



HEN I had inform'd the late learned Doctor Douglas that I intended publishing the following Description of the Bladder (which

was what I deliver'd concerning that Organ, in my Lecture upon the feminine Parts of Generation) together with the Animadversions on Mrs. Stephens's Medicines; he was so kind as to promise me an additional Observation of his own, and his curious Preparation of the Bladder to draw the Detrusor Muscle from it,

it, which he then shewed me (as I have faid in the Description) and accordingly appointed my going to him on the Saturday following for that Purpose ; but when I waited on him, he was so very ill that he could not stay with me, and dyed the Thursday following, whereby I lost the Observation he promised, and was disappointed of his Preparation; and was therefore oblig'd to prepare one for that Purpose for myself; the other Figures being drawn from my own Preparations, by which I always demonstrated in my Course of Lectures.

I am the more particular in this Narration, because I find it is industriously reported that what I publish concerning the Bladder is not my own. This was a Bolt foon shot, and at Random too; for my Manuscript was never seen by any one, till I had laid it before the great Man, who does me the Honour to patronize it. And therefore an Attempt to take away my Right to this Treatife (however

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ever imperfect it may be) is very ungenerous.

I am far from omitting to make Honourable Mention of every Author's Name from whom I take a Quotation or Opinion that serves to illustrate any Essay of mine; and it appears in this, I have not. And as Doctor Douglas was the first that made a Preparation to demon-Strate the Shape of the Detrufor Urinæ, (which was all be assumed to himself; the Existence, Use, Synomina, &c. of that Mufcle, being known to most Authors before) I have not fail'd to quote him for his Opinion of it, (tho' he had wrote nothing concerning it that I know of ) join'd to that of Mr. Winflow, with the utmost Respect: And as the Addition he intended, would have augmented the Usefulness of this Treatife, the Lofs is much to be regretted; yet I hope what I have faid of the Bladder, Sc. will appear of fome use, as it is the Effect of my own repeated Examinations of the Parts I treat of, and not

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not the Property of any other Perfon what soever. I must further add, that the only Conversation we ever had together concerning the Bladder (besides what I have mentioned) was upon that of Mr. Gardiner, which was prepared by the ingenious Mr. Nourfe, and by him sent to Dr. Douglas for that Purpose, with his Request that I should make a Drawing from it.

As to Mrs. Stephens's Medicines, what is faid of them is not from the least per-Jonal Prejudice to ber, nor any other; but as Dr. Hartley once thought he had fufficient Reason to recommend them to the World, and as all that has been wrote hitherto concerning them, was on their Behalf; it is now high Time to fay fomething on Behalf of the Publick, who are so deeply concerned in the Affair, fince many strong Evidences now appear against any Power in them of disolving Stones in the Kidneys, or Bladder.

To

To give the Cases alone, as they occurred all along in the View of the Present Evidence, and refer them to the Publick, would be extreamly fair; but to excuse their want of Efficacy, and argue for them in several other Respects, was to anticipate the Opinion and Judgment of the World concerning them, and Seems to savour a little of Prejudice. And therefore, as the Author of bat Book has given his Sense of the Cases in so free a Manner, I think every one has the same Right to confider them, especially as they were published by way of Evidence both for and against the Medicines. It is therefore that I have laid down both the Cases and his Sense of them in his own Words, but particularly of those in whose Bladders Stones have been found after Death, and confider'd them in a Light that I hope will appear Rational to all who have a Regard to the general Good of Mankind.

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All

All Men are sometimes liable to adhere to a favourable Opinion of Persons or Things; but it is very commendable to yield to plain Conviction, when what is contrary to our former Sentiments appears; because both may be done with a View of serving the World. And if it had been my Fate to have set out with a firm Belief of the certain Efficacy of these Medicines; such Proofs as now turn up would surely induce me to own my Mistake, rather than persist in defending them, notwithstanding what has happened, to confront the good Opinion of them I might have formed before.

The Reader, it is hoped, will excufe the Repetition of fome Things, both in our Animadverfions and Remarks of the Cafes; which are fo very often, and upon fo many different Occasions, mentioned in the View of the Prefent Evidence, that we could not avoid obviating them as often as we met them.

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A

## DESCRIPTION

OFTHE HUMAN Urinary BLADDER,

WITH-

Anatomical Figures,

SHEWING Its MAKE, SITUATION, Sec.

Of the Bladder.



INCE it was necessary for Proemium. the Welfare of the Body, that an Excrementitious Fluid should be fecreted by the Kidneys from the Mafs of Blood, and thence difcharged by the Ureters, it was highly neceffary there should be a B Refervoir,

Refervoir, or Ciftern, to receive it, and thereby gain, for the Animal, confiderable Intervals for the Performance of other neceffary Functions. For if there was no fuch Refervoir, but that, inftead thereof, the Ureters were inferted into the Urethra, there would be a perpetual Dripping of the Urine, as the Secretion is perpetually made, to the great Inconvenience of the Animal.

Convenience of the Bladder.

2

Provident Nature, therefore, having furnished Animal Bodies with this Organ, has not fail'd of forming it in the most commodious and useful Manner; altho', if we take Notice of its Description from many Authors, we might have some Right to doubt of its being so very useful, as we shall prove it is.

Definition.

This Receptacle, then, is a membranous Sack of a flexile Nature, being capable of Dilatation and Contraction, according to the Neceffity of retaining and expelling its Contents.

Its

Its Membranes, or Coats, are three ; Inner Mem. the Internal, which is very nervous and fenfible, in order to be capable of Irritation, is the most delicate and thin, and furnish'd with innumerable Glands, for the Secretion of the Juice which lines the Bladder, or guards it from the too great Acrimony of the Urine; for if Difeafes of the this Membrane by any Accident, as Mucus. the taking of acrimonious, abrading Medicines, or by a thin, fharp, hectical Blood, which wears away the Mucus, should be laid bare, we should be liable to fuffer an exquisite Pain; and tho' it is thus guarded by the Mucus, yet its Senfation is not quite blunted, that Matter ferving alfo as a Medium thro' which it is capable of being fufficiently irritated without Pain, as the Cuticula is the Medium, thro' which we feel (without Pain) any Object we touch. But if this Mucus should, on the other Hand, become too much condenfed (which is the Cafe in those that have a Lymph loaded with coagulating Salts) it would become hard, B 2 and

3

and as it were encrusted, and would obstruct the Glands.

Caule of a der.

4

From fuch an Obstruction there Schirrous Blad- might proceed an Induration of fome of the Glands, which when once begun, the gradual Encrease of a schirrous Bladder is inevitable, from the constant Pressure, and Induration of other Glands, by those first obstructed. Over rgreat and long Exercifes will cause this Siccity of the Mucus of the Bladder; for thereby Perspiration is fo increased, that the more fluid Particles, which should dilute that Matter in the fecretory Glands of the Bladder, are thrown off thro' the Pores of the Cutis, and the Mucus left in a very viscid State, whereby it is as capable of further Coagulation and Induration, as the White of an Egg.

Use of the Villi This Coat is faced all over its Surface with a villous Appearance as the Gut Ileon is; the use of which I take to be, that they may ferve as fo many foft Ramuli to entangle the Mucus, that

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that it may not be too fuddenly washed away by the Urine. These Villi appear very plain after a due Maceration in warm Water, and are no more than Productions of that nervous one, altho' it is counted a diftinct Coat by two modern Authors\*, who reckon the detrusor Muscle one, the next a nervous, and the third the villous Coat.

The Mucus may be also over fluid, Fluidity of the or the Tone of the Glands be much relaxed, whereby great Quantities of that Matter will appear in the Urine of Persons who imagine themselves free of any Diforder; and it may be, and no doubt is often mistaken for the puru-B 3 lent

Aprez les fibres Charnües vient la tunique qu'on nomme Nerveuse, & elle est tapissée par une troifieme, qui est une tunique du genre de celles qu'on appelle Veloutées.

L'Anatomie d'Heister, avec des Esfais de Physic, p. 203;

La Veffie paroit étre composée de trois tuniques; la premiere est Musculeuse ; la seconde tunique est appellée Nerveuse ; la troisieme est une Veloutée.

Estais Anatom. par Lietaud, p. 233.

lent Matter of an Ulcer in fome of the Urinary Organs; or for fome Weaknefs in the proftrate Gland, Veficulæ Seminales, or the like, whereby we might be deceived, and prefcribe what might encrease the Evil. + Riverius calls it a depraved Difpolition of the Bladder, and teaches us how to diffinguish it fo as to be certain whence it comes : he fays, . That the Matter coming from the · Bladder is different from that of any · other Place, in this, that it is more ' Tenacious and Glutinous, and will · flick to the Sides of the Urinal after-' the Urine is pour'd off, and after, ' wards can fcarce be feparated from the Veffel. Whereas the Mucus ' from any other Parts does not adhere · to the Veffel, but comes off with the Urine'. This, he boafts of as his Difcovery, and is indeed a Diagnoftick that may be often ufeful.

Plice of the inner Coat.

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the This inner or nervous Coat is much larger and more extensive than any of its

+ Praxeos Medic. Lib. XIV. c. 2. de Calc. vef.

its Coverings; and therefore, when they are contracted, this appears in the Plicæ, having no Elasticity whereby to contract; and even after the outer Integuments are much dilated, there will Rugæ still appear in this.

This is of wonderful Ufe: For fuppofing that by any Accident the Urine was detained in the Bladder longer than ordinary, fo that the external Integuments were upon the Stretch, it was highly neceffary that the nervous Coat, being fo fenfible of Pain, fhould ftill have fome Plicæ to fpare, that there might be more time to promote the Difcharge of Urine, by proper Applications; becaufe if this Coat fhould be ftretch'd as foon as the others, Convulfions would follow; for when foever it happens, that is the Confequence.

The Cafe of a young Woman of Hymen im-+Seventeen demonstrates this Effect; B 4 fhe

†This Cafe was read before the Royal Society, as it was communicated by me who attended the young Woman,

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fhe had the Hymen imperforatum, and feveral periodical Menstrual Discharges were lodged in the Vagina, till at length the Bulk was fo great as to prefs the Urethra against the Os Pubis; and thereby caufe a total Suppression of Urine. Her Belly fwelled by the Increase of Urine from the Kidneys, and yet the fuffered no more Uneafinefs than an Irritation to make Water; tho' from the Bulk of her Belly, those ignorant Perfons who attended her, thought her with Child; till the 5th, or 6th Day from the total Suppreffion, when the was thrown into the most violent Convulfions I ever faw, which ceafed as foon as her Water was drawn off by the Catheter: and after the Hymen was open'd, and the great Quantity of Blood discharged that filled the Vagina, she urin'd freely, and had no return of any Symptoms whatfoever; this feems to be the use of these Plice.

Woman, and shall be published among some Miscellanies, when a sufficient Quantity of Cafes happen.

From these Rugæ we may also ac-Plice the case count for the Receptacles that Stones for Stones. find sometimes in the Bladder. Where a tenacious Mucus abounds, and a Stone, or more, happens to be stuck in between two Plicæ, they are glued to the Stone, and a slight Instammation happens, which causes the Villi of that Coat to shoot out and extend themselves over the Stone, while the Mucus itself grows still more tenacious, and has often the Appearance of a Membrane. This made Tulpius fay, that two Stones void-

Thus may Stones acquire membranous Productions round them in the Bladder, and thereby become infeparable from it; and when thefe Villi do not fhoot out to cover them, yet they may have Mucous Coverings which dry into a kind of Membrane, either adhering

ed by a Woman, had Membranes a-

round them, which was nothing but

Mucus condenfed and dry'd about them,

for which I have quoted him in ano-

ther Place.

IOI

hering to, or feparate from the Bladder. When the Bladder is taken out of the Body and inflated, then the Rugæ of the internal Coat difappear; becaufe when the mufcular Coat is then diftended fo much as to obliterate the Plicæ in the nervous Coat, it has no more Power to contract itfelf as before. and confequently when the Air is again prefs'd out, all the Coats and Muscles collapse together. The fame will be the Cafe in those, who being fubject to the Stone, with very frequent Stoppages of Urine, have the Bladder often diftended by Repletion, and its Tone weaken'd by the long Ufe of irritating acrimonious Medicines; and there can be no greater Sign of Injuries. having been done to the Bladder, than (upon taking it out of the Body without inflating) finding it's whole Compages relax'd, and cutting into it, finding the Rugæ obliterated.

MuscularCoat. The next is the Muscular Coat, which, according to the received Opinion, confifts of longitudinal Fibres, which

which are called the Detrufor Urinæ; and others of different Directions on the Sides, together with the Sphincter.

Mr. Winflow fays, \* 'The Mufcular ' Coat of the Bladder is composed of · feveral Layers or Strata of flefhy Fi-' bres, the external of which are for the ' most part Longitudinal, the next are ' more inclined to the Sides, and the ' internal ones are more and more ' Oblique, till at length they become al-' most Transversal.' This Description, join'd to the Opinion of that accurate Anatomist Dr. Douglas, with whom I had the Pleafure of examining a Preparation of his, not long before his Death, would induce one to believe, that the Detrufor Urinæ, which is what Mr. Winflow calls the external longitudinal Fibres, lay upon the other muscular Fibres ;

\* La Tunique Musculeuse est composée de plusieurs couches de Fibres charnuës, dont les externes sont pour la plupart longitudinales, les suivantes plus inclinées de coté et d'autre, les *internes* de plus en plus obliques, et enfin presque transversales.

Expos. Anatom. p. 556. Nº. 451.

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bres; and confequently, that what it covers may probably be the mufeular Coat, exclusive of that or the Sphincter of the Bladder; for in that Preparation, and in feveral Bladders I have fince prepared, according to the niceft Obfervations I could make, the oblique and transferfe Fibres that cover the Sides within the Arch of the Detrusor, feem'd to run from under that Muscle; which is very plain in good muscular Bodies, whose Bladders are well macerated at different Times in warm Water.

One might also imagine the fame, from an Examination of the Offices of the Muscles of the Bladder, and of what such a muscular Coat ought to perform, if this is the Structure of that Organ; for the two Muscles, the *Detrusor* and *Sphincter*, have separate Offices to perform, the one to retain, and the other to extrude the Urine, and those Actions are perform'd alternately; whereas the Office that might be expected from such a muscular Membrane, should be only, (1.) Upon the Expulsion of the Urine

Urine by the Detrusor, to follow it, by contracting itfelf equally, and preffing upon the nervous Coat all round, that there might not be a Collaphion of the .Bladder, but that it may lie tight and compact, and preferve this Equality, till it is again gradually dilated by the Ingress of the Urine from the Kidneys. And, (2.) To caufe the Diftention to be equally carried on as it fills. We shall not, however, pretend to be pofitive in this, but refer it to the more accurate Infpection of others; yet we shall offer the Reader one Observation more, which feems to fhew that there was a Neceffity for Muscles exclusive of a proper muscular Coat in the Bladder; which is, The Inteffines have pretty much the fame Structure with this Organ as to its Coats, viz. a Nervous, a Muscular, and a Covering from the Peritonæum: Now, tho' there is no Neceffity in these for a Muscle Analogous to a Detrufor, becaufe they are cylindrical, and grow wider as they defcend, and the Excrements by their own Gravity, affisted by a gentle perifaltic

ftaltic Motion, will be fufficiently protruded : Yet we fee, where it is requifite the Excrements fhould be retain'd, there is a Sphincter befides the proper mufcular Coat to perform that Office. And befides, as the Urethra is fo narrow a Paffage in either Sex, in Comparifon to the reft of the Bladder, an additional Force, for the Expulsion of the Urine in a full Stream, was highly neceffary; otherwife the Urine would be difcharged by Drops, to the great Inconvenience of the Animal.

The two Muscles of the Bladder shall be describ'd hereafter.

Peritonæum.

The External Integument of the Bladder is a Part of the Peritonæum, which covers its posteriour Convexity, Top and Sides, having no fatty Particles under it; but on the fore Part it is covered with a cellular Portion, in some very full of Fat, the under Lamina of which lies close upon the Muscle Detrasfor and muscular Coat. The Duplicature of this Covering, when held up,

up, may be accounted a flat Ligament, by which the Bladder feems to be greatly fuftained in both Sexes, as having an Edge all round the Top and Sides, which makes its Support bearan Equality every where, to keep it in its Place ; otherwife it would be pull'd but in the one Point at Top by the Urachus, and by the Arterial Ligaments, which all terminate in the Cicatrix of the Navel.

From this Confideration we may Pain in the find the Caufe of what fome call a Navel. Cramp in their Navels. This Pain proceeds from a Vellication of those Ligaments, by any thing capable of preffing the Top of the Bladder downwards, or by a strong Contraction of the Musculi Recti of the Belly, to which that Part of the Peritonæum, wherein these Ligaments are carried to the Navel, adheres. And in Women it is often a Complaint, as they grow big with Child, becaufe the Ligaments pull the Navel by the Diftension of the Peritonæum and Muscles of the Belly downwards, from the Increase of the 2 Uterus.
Uterus. These painful Senfations of the Navel are easily taken off by one or two emollient Anodyne Fomentations.

This Obfervation I have no where met among Authors, nor the following, which relates only to Women; and which is the only true Way of accounting for the Time and Manner of thefe two Inconveniences in pregnant Women, the inordinate Retention and Incontinence of Urine.

But it will be neceffary to premife the proper Situation of the Bladder, that this Obfervation may be the better underftood.

Situation.

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The Bladder is placed against the Offa Pubis, its middle Part being right upon the Symphysis of these Bones; and the Uretbra falling into the Arch under them; fo that when it is empty, its upper Part hardly reaches up higher than the upper Edge of these Bones; and when full and inflated, it rifes

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rifes over it. In Men it refts upon the Rectum at its Curvature +, and leans back upon that Gut as it grows perpendicular; fo that this Bend necessarily humouring the concave Side of the Os facrum, feems very conveniently calculated as a Bed or Neft for the Bladder to rest in. In Women, about three Inches of its Fundus lies upon the Vagina, the longitudinal Fibres of this Part lying under and parallel to the Detrufor Urinæ. It quits the Vagina about the Beginning of the Cervix Uteri, a little over the Os Tincæ, and is then covered in common with the Uterus by the Peritonæum, on its back Part, both being void of any Fat, or cellular Membrane. Here we fee there was no Neceffity for any ; becaufe the Uterus, when full, or preg-C nant,

+ Perfons administring Clysters being ignorant of this Direction of the Rectum, are apt to thrust the Canula against its inner Coat, just above the Sphincter, and wound the Intestine, which is sometimes attended with bad Effects. I have seen several Fistulas cut in the Hotel de Dieu at Paris, proceeding from that Error.

nant, is not hard enough to injure it; and when empty and low in the Pelvis, it is fafe alfo by the Softness of the Inteftines : Whereas before, it was neceffary that there should be a Portion of the cellular Membrane, well impregnated with Fat to fuftain the Preffure against the Bone, and accordingly we fee it is the Order of Nature that it fhould be fo.

This being the Situation of the Bladder, and it being covered with the fame Membrane with the Uterus, the manner of the Suppreffion of Urine, which is the first that happens in Pregnancy, of these two Diforders of the Bladder, may be thus accounted for.

of this Fart dving mider

Caule of Supcontinence of Urine.

As the Uterus in its empty contractpression and In- ed State lies deep in the Pelvis, and as the Bladder lies over it, efpecially in the Time of its Repletion with Urine, the first Preffure made by the Uterus, when it begins to fwell and grow round, is on the lower Part of the Bladder, and Urethra: This Preffure is made diametrically

metrically against the Offa Pubis, whereby the Passage being stopp'd up, the Urine cannot be discharged but with great Difficulty; and sometimes, the Bladder being much distended, the Urine is to be drawn off by the Catheter : hence with me this is one Sign of either Pregnancy, or a schirrous Uterus.

But as the Uterus grows upwards, and Begins to rife above the \* Cingulum of the Pelvis, the Bladder gradually decreafes in its Bulk, and confequently then rifes not fo high, nor cannot be filled fo full of Urine as before ; becaufe the fwelling Uterus by degrees stretches the Peritonæum, as it were, dragging it away from the Bladder ; infomuch, that as the Uterus increases in Bulk, the Bladder decreafes, and never recovers its former Capacity till after the Delivery of the Woman. Wherefore towards the latter Months the Pref-C 2 fure

\* The Cingulum of the Pelvis, is that Ridge on the upper Edge of the Offa Pubis, which running round the Offa Ilia, forms one intire Ridge with the upper Part of the Qs Sacrum,

fure is taken off from the Sphinster and Urethra, and is wholly against the upper Region of the Bladder, whereby the Urine is daily prefs'd out as fast as it comes in. I have opened feveral Women who have dyed in different Months of Pregnancy, and many whofe Uteri were empty, in order to be fure of this Obfervation, and always found that by how much the Uterus was enlarged, the Bladder was leffen'd in proportion ; which I demonstrated in my Lectures by inflating the Bladders in both States. From these Observations we may fee the true Caufe and Time of thefe Diforders, and may therefore be the better able to alleviate the Pain poor Women fuffer at these Times.

Another Obfervation worthy of Note Of danger, in Partu, of burft- here is, that at the Time of Labour, when the Child's Head preffes forward, if there happens to be any confiderable Quantity of Urine in the Bladder, it is capable of retarding the advance of the Child, and increases the Woman's Pain greatly, by preffing the Bladder fo forci-

ALL C. C. SHELLIN.

20

ING

forcibly as to caufe Inflammation, and a tedious Difficulty of making Water afterwards. I was requested to open one who died an Hour after Delivery, and found the Bladder burft near the Urethra on the right Side. The Aperture was above an Inch long, and a great Quantity of Urine was extravafated into the Pelvis. From whence we fee of what Confequence it is to know whether the Bladder be empty or full. If the Women prefent be ask'd when the Patient has made Water, they often fay fhe has, miftaking the Water of the Amnios for Urine, which often runs off by Gluts or Intervals, and deceives them, when at the fame Time the Bladder is ready to burft. The fureft Way in this Cafe, is to draw off by the Catheter, which is eafily perform'd, and . then the Deftruction of the Bladder is prevented, and the Labour facilitated.

We come next to the Muscles of the Bladder, which are two. The Detrufor Urinæ and the Sphineter.

C 3

The

History of the Detrujor:

The former was fo called by Spigelius, who acknowledges he had his first Knowledge of this Muscle from his Master Hieronymus ab Aquapendente, who with Bartholinus called it Musculus involvens, but \* Spigelius first gave it the Name Detrujor. Upon feparating the Peritonæum and cellular Membrane, it appears very plain to lye upon the mufcular Coat, and by Maceration becomes still more apparent. It arifes narrow from the inner and lower Part of the Offa Pubis, immediately under the Symphyfis, and paffing over the proftrate Gland on the anterior Side, runs up longitudinally, fpreading as it approaches near the Top, round the Urachus, and grafping all that Part of the Bladder, grows narrow by Degrees as it paffes on the pofterior and inferior Part, and at length is inferted into the fame Gland underneath.

† Primus autem Excellentissimus Hieronymus ab Aquapendente præceptor noster hunc usum tribuit, cujus authoritatem nos sequentes, Urinæ Detrusorem appellabimus. De humani Cort. Fabrica, cap. 12.

If this Muscle was extended longitudinally, as in Plate 4. Fig. 1. it would appear like two Fans spread out, with their broader Parts laid together, which makes me call the narrow Parts the Handles of the *Detrusor*. Now fince this is the Form of this Muscle, that is, narrow on the fore and back Parts, or Origination and Infertion, and spread over the upper Part, it must form an Arch over the Sides of the Bladder, and so leave that Part under the Arch weaker than in any other Place.

This weaker Part is more extensive in fome Subjects than in others; or, in other Words, the Muscle is more expanded in fome than in others, and confequently the Arch which it forms is lefs.

In Women this Muscle has the fame Origin and Origination; but its Fibres are loft in  $\frac{Infertion in}{Women}$ , the Sphincter on the under-fide running along the Vagina. This is contrary to the Opinion of the learned Dr.  $C_4$  Rutty,

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Rutty \*, who, in his Gulftonian Lecture on the Urinary Paffages, fays, the Fibres of this Muscle are inferted into the Vagina; but this would be an inconvenient Infertion, and would occafion a troublefome and painful Vellication in the Vagina, whenever a Woman made Water. He fays, in the Beginning of the fame Paragraph, ' It is not eafy to ' apprehend, how the Contraction of this Muscle should produce such an ' Effect as it is commonly defcribed ; ' fince its longitudinal Fibres, having no ' fixed Point whence they fpring, but ' terminating at each End in the lower · Orifice of the Bladder, they would ra-<sup>6</sup> ther pull up the Neck of it when they · contract themfelves, than bring the " Fundus downwards.' To this it may be replied, That fince the Urethra is fixed by its proper Attachments in both Sexes below, there cannot be wanting a fix'd Point, towards which the Fibres of the Detrufor should contract themfelves; and indeed they must inevitably do

\* Page 12.

do fo, having no other Let or Hindrance to refift it in the leaft, than what might be expected from the Urachus, and arterial Ligaments fastened to the Navel ; and left this should be thought a material Hindrance to their doing their proper Office, I must here observe, that Nature has provided against that, by placing the \* Pyramidal Mufcles over the Bladder, which, arifing from the Offa Pubis flefhy, and terminating by a narrow Tendon into the Linea Alba below the Navel, and fometimes reaching to it, draw down the Navel, and by that Means caufe a Relaxation of the Urachus and Arterial Ligaments, when we are going to make Water ; which then fuffers the Detrufor Urinæ to contract with Freedom to expell the Urine.

Hence we may observe, that the Use of the Pyra-Pyramidal Muscles, or in their Stead midal Muscles.

the

\* Where these are wanting, the lower Parts of the Musculi Recti are much thicker, and are closer together, and can therefore, when they contract, pull down the Navel, and perform the fame Office that the Pyramidals do.

the lower fleshy Bodies of the Musculi ReEti, fometimes act as Antagonists to those Parts which fustain the Navel in its Place, which is only in making Water; but in going to Stool the upper Parts of the Musculi Reeti pull up the Navel, and confequently hinder the Detrufor from acting, which is the Reafon that many People cannot make Water till after the Faces Alvi are all discharged, for it is very rare that both are discharged together. That ingenious Anatomist Dr. Nichols has demonftrated this in a most elegant Manner; for the Explanation of which he has a Figure in his third Plate, and explains it, as it is fet down underneath. +

The

† Vefica urinaria quæ, mediantibus ligamentis tribus rotundis, umbilico adnectitur, ut in fæcibus expellendis (elevato fimul & umbilico & vefica) liberior fit fæcibus tranfitus per rectum. Vis interia omnis, qua umbilicus in fuo fitu retinetur, longitudinalium veficæ fibrarum contractionem prohibet, ideoque mufculi pyramidalis actio requiritur, quæ in urinis expellendis umbilicum deorfum trahat : ut relaxatis inde ligamentis rotundis longitudinales veficæ mufculi fe contrahant, & vefica undequaque coarctata, urinas per urethram effundat. *Comp. Anat.* 

The Vicinity of the Detrufor Muscle In the Coitus to the Vagina, as lying upon it for the an Irritation. Space of about three Inches, and the Direction of its Fibres being parallel to it, caufes an Effect which is worth remarking; which is, that at the Time of Coition, if there be any confiderable Quantity of Urine in the Woman's Bladder, the Penis preffing up the Vagina, and confequently the under part of the Detrufor, caufes fo great an Irritation to make Water, that it is often a great Impediment to a due Confummation of the Purpofes for which the Coitus was ordained, in that Sex, and confequently fome Impediment to Generation.

The other Muscle of the Bladder is the SphinEter, which confifts of a Parcel of muscular Fibres encompassing the anterior Orifice of the Bladder at the going off of the Urethra. In Men they are almost hid by the Prostate Gland being behind it. In Women they are more confpicuous, lying over the

the Orifice of the Vagina, as in Plate

Use of the Muscles.

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3. Fig. 1.

The Use of this, is to keep that Orifice of the Bladder conftantly clofe, to prevent a continual dribling of the Urine while it is falling from the Kidneys. And the Ufe of the Detrufor is, (when the Quantity of Urine is increafed, fo as to prefs pretty much upon the Orifice of the Urethra, the Sphincter being irritated thereby) that that Mufcle' should grasp the Bladder, and squeeze out the Urine in a full Stream, after the Pyramidals have pulled down the Navel, as was before obferved, to give it Liberty. This leads me to fhew how the weaker Parts of the Bladder may be diftended on either Side, and how Sacculi may be thrust out in particular Parts of it, as in Fig. 2. Plate 4.

Manner of the Formation of the Sacks.

When any Matter whatfoever ftops up the Orifice of the Urethra in the Bladder, and it is filled with a fufficient Quantity of Urine to irritate the Muscle

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to

to act for the Discharge of the Urine. the Contraction of the Muscle drives the Fluid towards the Orifice with great Force, which being refifted by whatever stops the Paffage, its chief Propulfion will be against the weak Sides of the Bladder under the Arches form'd by the Muscle, whereby that Part will be thrust out, on both Sides, round and equal; and as often as this happens it will still enlarge these Parts more and more, till they fuffer an irrecoverable Relaxation. At length if there be any one Spot, on either Side in the Places fo weakened, whofe Refiftance may be lefs than that of any other, it will yield ftill more than the reft, and a Sacculus will be thrust out in that Place, and more efpecially if there be Stones in the Bladder, which may help forward the Protrusion by their Gravity, whenever they fall on the Part by any particular Situation of the Patient.

This, with what is faid in the Cafe of Mr. Gardiner hereafter, will, I hope, be found a rational Account of the Protrufion

fion of those Sacculi; of which Effect that Gentleman was an unhappy Instance, as well as the famous Case of Casaubon, in whose Bladder the Sacculus was thrust out on one Side.

Figure of the Bladder.

As to the Figure of the Bladder, it is most frequently compar'd to a Pear by Authors, or a Bottle with the Neck turn'd downwards; from whence they divided it into a Neck and Bottom, or Fundus; accordingly *De Graaf* has drawn it like a *Florence* Flask.

If this was the true Shape of the Bladder, there might be fome Reafon for this Divifion; but there is fo little Appearance of a Neck, that, I must own I cannot fubfcribe to it.

The Bladders of fome Brute Animals have a Narrownefs, which made Galen and others after him fince, fay the fame of human Bladders; but tho' fuch a Structure is not inconvenient in Quadrupeds, yet it would be exceedingly fo in human Bodies; for in the latter,

ter, as they move in an erect Polition, if there was a narrow Neck, one Thimble full of Water would irritate by its Gravity, as much as the Bladder full does in its prefent Form; and the Evil would be as great, as if there was no Bladder at all, but the Ureters terminating in the Urethra, the Defire of making Water would be fo frequent. But the most capacious Part of the Bladder is downward, forming a large Sinus on each Side of the posterior Handle of the Detrufor Muscle, whereby the entire Preffure of the Urine is thrown both Ways, and bears very little on the Orifice, till the Bladder becomes pretty full, and the middle Column becomes more weighty: whereas in Brutes the Polition of the Bladder is horizontal, and the Preffure of the Urine only against the lower Side of it.

I shall therefore divide the Bladder into the Top or upper Part, Sides, and *Fundus* or Bottom; for if there be any Apex to the Bladder, it appears most in Men, and is that Part from which the

the Urachus fprings. In Women the Bladder is more Spherical when inflated, its broadeft Part, however, lying upon the Vagina; and therefore the Bottom of the Bladder is downward, tho' the Urethra paffes out of it : It being no more improper to fay the Urine flows from the Bottom of the Bladder, than that Water runs from the Bottom of a Ciftern by the Cock. Thus it appears not only from the Office of this Organ, but also from its true Shape, that it was erroneoully faid to have a Neck, or that its Fundus was upwards; which is much to be admir'd at, fince it is a part fo eafily taken out of the Body, and confider'd minutely.

Mr. Winflow is the only Author that had confidered this Organ rightly, except the late learned Dr. Rutty mentioned above, who, tho' he gives no particular Account of its Form, yet exprefies it in his Figures\*. The former fays, 'Its Figure is near an Oval fhortened

\* Gulftonian Lecture, Tab. III.

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<sup>e</sup> ened, more large on the fore and hind-<sup>e</sup> er Part, than on the Sides, rounder <sup>e</sup> above than below when empty, <sup>e</sup> and larger below than above when <sup>e</sup> full.' This is certainly true, and the Reafon of its being rounder at Top than at Bottom when empty, is, that the Sphincter drawing its Orifice clofe, together with the oblique Fibres of the mufcular Coat, a good Way up, makes it narrow there; whereas the *Detrufor*, being contracted only according to the longitudinal Direction of its Fibres, draws down the Top without purfing it up, but leaving it round and blunt<sup>+</sup>.

The Size of the Bladder is various, being fometimes larger, fometimes fmaller; and there are many very large Perfons, who have Bladders of the fmalleft Size and Capacity, and fome Children who have them as large, and often larger than Adults. This intimates to us, that they are calculated, in their Capacity, in proportion to the Quantity and Neceffity of the Secretion D

+ Exposition Anatomique, p. 556. Num. 448. 4to.

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Size.

of that excrementitious Fluid the Urine : However, this one Obfervation may lead us to know those whose Bladders can contain most, by their Infrequency in making Water ; for they whose Bladders are small, must be subject to go oftener than on the contrary ; because the Secretion being continually made in the Kidneys, they must be sooner fill'd, and consequently sooner irritated to a Discharge ; unless fome morbid Cause should render the some morbid Cause should render the soner stated.

Holes.

The Bladder has three Orifices, two which lead into it, and one which is its Outlet. The two former open into the pofterior part of the Fundus of the Bladder, their Openings facing each other, and being of an oval Form while they are kept open by the Ingrefs of the Urine. They flant between the mufcular and nervous Coats about half an Inch before they open into the Bladder, this *intermembranous* Paffage being narrower much than the Ureters are before their

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their Infertion. The Edges of thefe Holes are extremely thin, and feem to be a Duplicature of the inner Membrane of the Bladder and Ureters meeting. They ferve as Valves to prevent the Egrefs or Reflux of the Urine by the Ureters; for as foon as the Urine is fo far increafed as to cover thefe Holes, it begins to prefs upon the Valves or Edges, which, being thin and flexile, are eafily push'd against the other Side; and the greater the Quantity of Urine, the greater is the Preffure; fo that towards the End of the Repletion of the Bladder, whatever Urine preffes in, is, as it were, forced in, the Refiftance being in Proportion to the Quantity of Urine contained, and to its Weight against the Edges of the Holes.

The other or third Orifice is that of the Urethra, and, in both Sexes, is fituated on the Fore-part of the Fundus Veficæ. In Men this Orifice is but narrow; in Women it opens much wider, and grows narrower, as does the whole Urethra, to its external Orifice, or Meatus Urinarius. The

Ligaments.

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The Ligaments of the Bladder are four; one general, and three particular: The general one is the Peritonæum at its Duplicature all round, which, as we have faid before, is defigned for a Support, as well as a Cloathing to this Or-The three particular are the Uragan. chus, and the two arterial Ligaments. The Urachus is an Elongation or Production of the inner Coats of the Bladder, becoming by Degrees hard and ligamentary after the Birth of the Child. The Arteries arife from the internal Iliacs or Hypogastrics, and, in the Fætus, ferve to convey the redundant Blood after its due Nutrition, conftantly to the Placenta; but after the Birth, that Courfe being ftopped, they begin to grow ligamentary from above downwards by Degrees, till they defcend to the Sides of the Bladder, where they are tied by the Peritonæum, under which they remain still tubular, and bring a small Quantity of Blood to the Bladder, which is dispersed thro' little Ramifications on its Sides.

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It

It is worth remarking, that the Iliacs, both internal and external, are not always in the fame State, with regard to each other; for, in a Fætus, the internal Iliacs are much larger than the external, having now a large Stream of Blood to fend from the Fætus by the umbilical Arteries, befides what was neceffary to go to other Parts of the lower Extremities. Whereas, when a Child is grown up, there being no more Use of the umbilical Artery, and the Parts to which the External Iliacs lead, being more confiderable than those to which the Internals are detached, they now become larger, and the Internals much lefs, even to appear as only fmall Ramifications to the others. I had my first Notion of this, from that excellent Anatomist Mr. Winflow +, in D 3 fome

† l'Interne est aussi appellée Hypogastrique, laquelle fouvent ne paroit qu'une Branche de l'autre dans des Adultes, & apres la Jeunesse; car dans les petits Enfans, et sur tous dans le Fœtus, l'Hypogastrique paroit le Tronc, et l'autre comme fi c'en étoit une Branche. Expos. Anatomique, des Arteres, N°. 231.

fome Difcourfe we had on that Subject; he has also hinted it in his Book, and I have often remark'd it fince, in  $F\alpha$ tus's and Adults.

Conclusion.

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I have confined myfelf to the Defcription of the Bladder alone, the other Organs of Urine being already juftly confidered by feveral Authors; whereas this, in fome Particulars, does not appear to have been rightly underftood, efpecially among the Ancients: And among later Anatomifts, very few have given any other than a general Account of it.

If I have fo far fucceeded, as to have given any Hints towards an additional Improvement to what was already known of the Bladder, it will give me great Pleafure. We here pretend to no Infallibility, and beg the Reader will be fo favourable, to accept of this, as an Attempt only towards what will, no doubt, be hereafter more judicioufly perform'd by abler Pens than mine.

Our

Our next Bufiness is, to proceed to the Animadversions on Mrs. Stephens's Medicines, as Lithontriptics, after explaining the Figures that relate to this Description.



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# T A B. I.

[ 40 ]

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#### Fig. I.

Shews a Fore-View of the Bladder of a Man inflated, the Fat and Membranes being diffected off.

A. The Urachus,

B. The Detrufor Urinæ running down the Proftate Gland.

C. The Ureters.

D. The weaker Parts of the Bladder on the Sides, into the Back of which the Ureters are inferted.

TAB.







# TAB. I.

[ A B. II.

[ 41 ]

Fig. II.

Is a Back View of the fame Bladder.

- E. The Vesiculæ Seminales, and Part of the Vasa Deferentia turn'd down upon the Prostate Gland, that the Infertion of the posterior Handle of the Detrusor may be seen.
- I. The membranous Ligament between the Vasa Deferentia.

# TAB.

## TAB. II.

[ 42 ]

#### Fig. I.

Reprefents a transverse Section of the Bladder, that the three Orifices may come in View.

- A. The internal or nervous Surface of the Bladder, which appears in Ruge, and Inequalities.
- B. A Stylus thrust thro' the Ureter, and entering the Bladder under the Valve of the internal Orifice.
- C. The inner Orifice of the Urethra.

TAB.

D. The Out-fide of the Bladder.







# [ 43 ]

TAD IA

# TAB. II.

#### Fig. II.

Demonstrates a View of the Side of the Bladder, to shew the Arch of the Detrusor Urinæ.

- A. The Urachus at the upper and broader part of that Muscle.
- B. The Infertion of the Urethra into the weak part or fide of the Bladder.
- C. One of the Vesiculæ Seminales, part of the Vas Deferens, and the fide of the proftate Gland.

TAB.

TAB.

## [ 44 ]

#### TAB. III.

#### Fig. I.

- Is a Fore-View of a Feminine Bladder divefted of Fat and Membranes, to fhew how it naturally lies upon the Vagina, with their Orifices and Sphincters.
- A. The Urachus on the upper Part of the Detrufor Urinæ.
- B. The weak Sides of the Bladder.
- C. The Orifice of the Bladder, as it appears close to the Sphincter or circular Fibres, from which Part of the Detrusor fprings.
- D. The circular Fibres, or Sphincter of the Vagina which is a little forefhorten'd; and in which the Rugæ of the internal Surface of the Vagina appear.

TAB.

TAB.






# [ 45 ]

#### T A B. III.

#### Fig. II.

A Back-View of the Uterus and Vagina, to fhew that the greater Part of the latter is intimately cover'd by the Bottom of the Bladder.

- A. The Fundus Uteri in a contracted State.
- B. The Fallopian Tube, as it opens towards the Ovarium.
- C. Part of the Peritonæum, commonly call'd the Alæ Vespertiliones, with the Ligamentum Rotundum in situ.
- D. The Beginning of the Cervix Uteri, and Ending of the Vagina.
- E. The Under-part of the Sphincter Vaginæ cut off from the Perinæum.
- F. The true Fundus of the Bladder as it lies upon the Vagina.

TAB.

# [ 46 ]

## TAB. IV.

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#### Fig. I.

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TAB.

Shews the true Shape of the Detrusor Urinæ cut off and extended.

- A. The Urachus in fitu upon the Center of the Muscle, where the Fibres being longer than on the Sides, cannot be extended to a perfect Plane, but must remain purfed up in the Middle.
- B. The Angle, over the weak Part of the Bladder, which we call the Arch of the Muscle.
- C. The Handle of the Detrufor Urina.

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# [ 47 ]

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comption little surrent the s'ertimet.

#### TAB. IV.

#### Fig. II. Loo at the

Reprefents the Bladder full of Urine obstructed, and the *Detrusor* propelling the Urine, which is driven against the weak Sides by the Action and Force of that Muscle, whereby they are greatly distended.

A. The upper Part of the Detrufor.B. The Side thrust out.C. The Prostate Gland.

D. The Fallopian Tobes and Ovarium

TAB

TAB.

# [ 48 ]

## T A B. V.

#### Fig. I.

A View of the posterior smooth Part of the Bladder, with the Fundus Uteri, as they are united by the one common Integument the Peritonæum, in order to shew,

A. The Duplicature of the *Peritonæum* all round the Bladder, from the Fallopian Tubes, fuftaining the *Arterial Ligaments* and *Urachus* up to the Navel, to each of which it gives a Covering.

- B. The Back of the Bladder as it lies over the Uterus when empty.
- C. The Uterus turn'd down, to fhew the Duplicature of the Peritonæum between them.
- D. The Fallopian Tubes and Ovarium drawn from behind to come in View.

#### TAB.

E. The Ligamentum Rotundum in fitu.







# [ 49 ]

## TAB. V.

#### Fig. II.

Shews the Origination of the Umbilical Arteries, as they arife from the Iliacs, and pass on each Side of the Bladder of a Fœtus.

A. Part of the Trunk of the Vena Cava.

B. The defcending Trunk of the Aorta.

- C. The internal *Iliacs*, or Hypogastric Arteries, which in Fœtus's are principal Trunks; but after Birth, when the Umbilicals which spring from them are stopp'd up, they grow less, and the external Iliacs + grow larger.
- D. The Umbilical Artery creeping upon the Bladder.
- E. The two Umbilical Arteries, as they passup to the Navel with the Urachus.
  - E ANI-





# ANIMADVERSIONS

ON

# Lithontriptic Medicines,

Particularly those of

Mrs. STEPHENS.







# Animadversions, &c.



HE Goodness of the Legiflature, in inclining to encourage the Difcovery of any Thing for the Welfare of the Public, ought to be for ever gratefully acknowledged. Nor is the good Intention of fuch as were ready to offer their best Endeavours to the Promotion of Mrs. Stephens's Medicines to the Knowledge of the World, to be lefs commended, in as much as nothing but the Benefit of their Fellow Creatures could be their Motive for it.

E3

Every

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Every Man fhould think it his Duty to lay his helping Hand to the Cultivation of whatever might relieve another from Mifery; but in this, as well as any other Acquifition, we ought to be well affured of the certain Utility of what we feek, by all poffible Means.

These Medicines carried a specious Show of Efficacy for a confiderable Time, and were generally believed both Stone-Diffolvers and inoffensive; but now, probably, it may be proved, they are not entitled to either Character; which could not before fo well appear, because, from the Nature of the Difease for which they are used, it was only Length of Time that could produce fufficient and certain *Evidences* for or against them.

This we hope to make evident in the following Animadverfions and Cafes, by enquiring what is to be expected from Medicines published to the World, as efficacious in diffolying the Stone, fince they

## Lithontriptic Medicines, &c.

they have been fo much cry'd up, and fo great a Præmium given for their Difcovery; and whether they be endowed with those Properties that are absolutely neceffary to render them of the general Use that is promis'd for them; which we shall endeavour to do under the following Queries, viz.

I. Can they be taken by all People?

- II. Are they equally beneficial to all Ages, and do they actually diffolve the Stone in the Kidneys or Bladder?
- III. Are they Medicines that cannot produce any ill Effects in the Body, fince they are taken in fuch large Quantities, and no Limits fet to the Length of Time in which they may diffolve the Stone?
- IV. Were they never used before for any of the same Intentions?

QUE-E 4

# [ 56 ]

ELECTRON CONSTRUCTION

# QUESTION I.

Can Mrs. STEPHENS's Medicines be taken by all People?

HAT they cannot is most certain; I. because (as it is plain) they are given in the fame Forms and Quantity to every Perfon indifcriminately. 2. Because it appears in Dr. Hartley's View of the prefent Evidence, that they are fo naufeous that many were forced to lay them afide, being utterly incapable to continue the Regimen ; fometimes not in the full Quantity, fometimes not fo often as is required, and fometimes not at all. See the Cafes of Lady Blomberg, Mr. Pym, Several at- Mr. \* Lediard's Son, Captain Hardtempt in vain wick, Mr. Levi, Mr. Hill, Mr. Baron, to take them : Mrs.

\* This Lad was cut, and a ragged Stone extracted weighing about an Ounce and half.

Lithontriptic Medicines, &c. Mrs. Bilby, Mr. Pilkinton, &c. Some of whom, tho' they had taken the Medicines feveral Months before leaving them off, yet no Strefs was laid on any of them as to an Expectation of a Cure, nor was any Alteration attempted in the Form of them, for any one of these Patients. Hence it is fomething natural to conclude, that if the Conducters of the Medicines thought it practicable to alter them in their Tafte, they would furely have attempted it, rather than lofe fo many Cuftomers: But perhaps this would not be fuitable to the alkaline Quality of them; being fo naufeand as to the Quantity, it might not our be fo proper to make any change in that for other particular Reafons. Yet one might imagine it would be as eafy, if not more fo, for a Patient to take a smaller Quantity of a nauseous Medicine, than a prodigioufly large Quantity of one lefs naufeous, every Day.

It is no wonder, fo great a Heap of fuch difagreeable Stuff, to be taken eevery

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From their

every Day, and continued Month after Month, no-body can fay how long, fhould make the ftouteft Heart fhudder at the very Thought. If the Medicines Naufeoufnefs were agreeable enough to be taken in an Excuse for thefe two Circumstances, Quantity and their Inefficacy. Tafte, there could be no Excuse for their want of Efficacy; but now there arifes a very useful Apology for their Inefficacy, from their Unfavourinefs and Bulk.

> If a Man fhould fay, I am not cured tho' I have taken them a Year ; would it not be anfwer'd, he had not taken enough at a time, often enough in a Day, or continued them long enough? For, one capital Defence made by the Favourers of these Medicines is, that nothing can be proved against their Efficacy, without shewing that the Urine has inceffantly been kept up in an alkaline State. I afk what hinders that ? Why 'tis anfwer'd, the fufficient Quantity has not been duely taken. Every Man rack'd with the Stone would certainly be very willing EVELY.

#### Lithontriptic Medicines.

ling to conform to any Rules prefcrib'd him, if in his Power; but you'll fay all Stomachs cannot bear the Remedies, which you must indeed allow. They are deplorable indeed, whose Constitutions cannot bear these *efficacious* Medicines; because if the Quantity is leffen'd or any Change made in them to render them more agreeable to the Patient, that would be a fufficient Excuse; it being easy to fay, their alkaline Quality is alter'd or not kept up.

I believe there are no Phyficians who would not prefcribe thefe Medicines as well as any other *Formula* in the *Materia Medica*, upon proper Indications, but in the Courfe of their Practice many find them (and I have heard fome declare they were Witneffes of their being) fo naufeous, that it is in general impracticable. What avail the Virtues of Medicines that cannot be ufed ? Are they not like Meat fet before *Tantalus*? which he cannot touch ? or Pelf in a Mifer's Cheft, while he perifhes for Want ? Where lies the general Good

Another from the alkaline Quality.

Reflection.

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of any Medicine, in a Shape that cannot be fuited to every Conflictation? fince it is obvious to every Judge, that all Conflictations are not, nor cannot be fuited to these according to their prefent Standard.

In his Book de Lithontrip. the Author compares these Medicines to the Comparison Peruvian Bark, touching their certain of the Peruvian Bark, with Efficacy in diffolving the Stone. Whethese Medicines. ther there is a Right for this Affertion,

will appear in the Sequel; here I shall only obviate an Argument made use of to me by a Favourer of the Medicines, in behalf of the great Length of Time required for taking them, and for their Nauseous fields. 'He fays, the Bark is also nauseous, and that many 'are obliged to take it a long Time, 'and in great Quantities.' To this it may be answer'd, that there is no Analogy between them, as to either Particular; for we are fure these Medicines are given in the same Form and Quantity to all, as directed by the \* Gazzette,

\* From Saturday June 16, to June 19, 1739.

## Lithontriptic Medicines. &c.

zette, &c. and as fure they are taken by fuch as are able, for a whole Year, nay longer, and that in vain, as shall appear by and by. The Dofe of the Powders of thefe Medicines is one Dracm Averdupois, to be taken three times a Day, and each time half a Pint of the Decoction ; and, if violent Symptoms come on, five of the Pills to be taken every Hour. This is a Regimen rather to be call'd a Diet than a medicinal Courfe, if three large Meals a Day may be thought fo, or the devouring of one Hundred and Twenty large Soap Pills are entitled to it. Whereas a Drachm of the Peruvian Bark three or four times a Day in any agreable Vehicle, is fufficient; and there are very few Inftances of its failing to do Service, if genuine, in a few Days; the whole Quantity neceffary for a Day, being not more than equal to as many Dofes of Mrs. Stephens's Powders alone, exclusive of the Decoction and Pills.

Befides, the Bark if it should be difagreeable in Powder, may be, and is every 61

every Day, reduc'd to different Forms, moft agreeable to the Patient; as Infufions, Tinctures, Extracts, &c. and yet does not fail of its Efficacy. Thus it is cafy to fee how little Reafon there is for the Comparifon made between thefe Medicines and the Bark, and how much more might be faid to prove they cannot be taken by all People; but we fhall be content with what has been offer'd, only adding a fhort Obfervation upon the following Paragraph of Monf. Morand.

Monf. Morand's Obferwation. + I believe, it cannot be determin'd
how long thefe two Medicines fhould
be ufed; but this is no Difcredit to
them, fince Perfons for the Relief of
more inconfiderable Difeafes than the
Stone, fubmit to long and repeated
Courfes of Mineral Waters, and other
Remedies. And many Patients have
found Succefs in taking thefe Medicines' in Half the Quantity ordered by
Mrs. Stephens.

Dr. Hartley

+ See Gem's Extract of the Exam. &c. p. 34.

#### Lithontriptic Medicines, &c.

Dr. Hartley is of the fame Opinion, as to the former Part of the Paragraph, when he fays, 'After a Perfon has ta-' ken them above a Year, one cannot ' be certain as to the Time, &c.' as appears in fome of the Cafes that follow : And indeed fo am I ; becaufe we know of no Stone that has been diffolved, whereby to fix a Period long or fhort, for the diffolving Power, as yet ; and I cannot but think it therefore a great Difcredit to the Medicines, fince they do not inform us, after fo much Buftle and Noife made about them.

But that this ingenious Surgeon fhould compare a Courfe of mineral Waters, or any other Remedies to thefe, is very particular: Mineral Waters are difagreeable but to very few, all may take them: Thefe are, as all allow, nau-*Confuted*. feous to every one. Mineral Waters may be left off and reaffumed; fo may other Remedies: Thefe muft be conftantly continued, or not worth a Rufh. Other Remedies may be vary'd according to whatever Indications arife in the Patient; 2 thefe

63.

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these must be the same in every Patient, even tho' a Contraindication is in the Way.

He fays, 'Many Patients have found " Succefs, by taking these Medicines in ' Half the Quantity ordered by Mrs. · Stephens.' There may indeed be Success in the Administration of less than Half the Dofe in washing any Gravel, glareous Matter, and the like; but it is not pretended, even by Dr. Hartley, that any lefs will do, than the full Dofes, to diffolve a Stone in the Bladder or Kidneys. But Monf. Morand fpeaks here in more general Terms than he does in another Place, which we shall observe in its Turn; nor does he know, that the Doctor has fince defended Gardiner's Cafe, by endeavouring to prove, that this Patient, after he was faid to be cured, either took no Medicines, or, if he did, that he did not take the full Quantity. Of which fee more in Gardiner's Cafe hereafter.

To conclude this Enquiry, I must observe, that it further appears, by an Animad-

## Lithontriptic Medicines, &c.

Animadverfion of the learned Dr. Hales, + that these Medicines are not to be The Difficulty rendered agreeable to any one, and at them agreeable, the fame Time, to have the diffolving Confirmed by Dr. Hales. Power, they're faid to have, preferv'd, viz. ' Monf. Geoffroy fays, That he can make ' a liquid Soap with three Drachms of Salt of Kali, and one Ounce, four Drachms, and forty-five and one half ' Grains of Oil of Olives, which is not fo naufeous as Alicant Soap; but as ' this Salt would want the Energy ' which Lime gives to the Salt of Kali <sup>s</sup> or Pot-Afh in Soap-Lees, fo it is to ' be feared it would be ineffectual. But ' if, inftead of Salt of Kali, the dry ' Salt of Soap-Lees, when first evapo-' rated, were mixed with this Quanti-' ty of Oil, it might probably have a ' diffolving Power, and would then, if ' it should prove less nauseous than Ali-" cant-Soap, be preferable to it; but I ' fear it would retain its Naufeoufe nefs. F

of rendering

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From

+ Account of some Experim. and Observ. on Mrs. Stephens's Med. p. 32.

66

From what has been faid, I hope it fufficiently appears that thefe Medicines cannot be taken by every Body; we fhall next proceed to the fecond Queftion, as follows.



## QUESTION

Lithontriptic Medicines, &c.

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NACE COLECTION IN THE

# QUESTION II.

Are they are equally beneficial to all Ages, and do they actually diffolve the Stone in the Kidneys or Bladder?

Onfieur Morand's Observations Mr. Morand's upon forty Persons put under a Account. Courfe of these Medicines, will sufficiently answer the first part of this Enquiry; I shall therefore transcribe it as I find it, in Mr. Gem's Account, &c. as follows : ' + I divide the Patients who have ta-' ken these Medicines into four Claffes, ' and keep feparate Lifts of them, fpe-' cifying (1) their Ages ; (2) their Di-' ftempers; (3) the Time they were ' under Cure; and (4) what was ob-' fervable in the Progress. But I shall ' here give only fuch a fummary Ac-F 2 ' count

+ Sect. I.

count of them as may ferve for understanding the following Examination.

Class 1.

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'The first Class confists of five Perfons, who took the Medicines for Difeases of the Kidneys and Bladder different from the Stone. Such of those as complained of Diforders of the Kidneys, and of Nephritick Pains, appeared to receive Benefit: But the Medicines increased the Diforders of those who made purulent Urine, and confequently had some Ulcer in the Urinary Passages,

The fecond Clafs confifts of eight
Perfons, fome of either Sex, who
took the Medicines for the Gravel;
two whereof reckon'd themfelves perfectly cured; four more were relieved, and two received no Benefit:
But feveral of them brought away
Stones, even of a confiderable Size.

Class 3.

Class 2.

In the third Clafs are fix Patients, who had Symptoms of the Stone, but Lithontriptic Medicines, &c. were not fearch'd by the Catheter. One of them, who was near fixty Years old, took the Powders and the Decoction for almost three Months, and then perceived nothing of the Diforder; four others were relieved; two of them bringing away entire Stones, and the other two discharging Pieces of Stone in the Form of Scales.

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The fourth Clafs confifts of twen- Clafs 4.
ty-two Patients of various Ages, from
three Years old to feventy-nine; who
were all examin'd by the Catheter,
and found to have the Stone : Twelve
of them were fearched by myfelf, and
the reft by Surgeons of Character.

Two of these Patients having but
lately begun to take the Medicines,
we may reduce the Number to twenty, who have finished the Course.

• Of this Number, concerning whom • a more fettled Judgment may be • form'd, there are four who took the F 3 • Medicines

#### . Animadverstons on

Medicines but a very little while;
one found himfelf confiderably relieved; two received neither Benefit nor
Hurt; and the fourth, upon fuffering great Pain from the Stone, was
cut, and a foft Stone extracted from
him.

' Of the fixteen who took the Me' dicines for a confiderable Time, there
' were eleven grown Perfons, and five
' Children; three of the grown Per' fons received no Benefit; four were
' greatly relieved; and four judged
' themfelves perfectly cured.

Only one of the five Children faid
he was relieved; the four others were
not relieved at all, and had the Operation perform'd upon them, the
Stones extracted fhewing no Signs of
Diffolution.

It would be needlefs to make any further Remarks upon the above Obfervations of that ingenious Surgeon, than to take Notice, (1.) That of those forty

Summary of the Classes.

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#### Lithontriptic Medicines, &c.

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forty Perfons who underwent the Courfe of Mrs. Stephens's Remedies, it appears by this Account, which we may be confident is impartial, that there is not a politive Instance of a perfect Cure. (2.) That the Children could receive no Relief at all. (3.) That the Medicines increafed the Diforders of fuch as had Ulcers in the Kidneys or Bladder; (4.) That even of those faid to have only gravelly Complaints, but two thought themfelves cured; (5.) That only one. who had Symptoms of the Stone, but unfearch'd, thought he was cured; and, (6.) That of twenty-two who were fearched, and Stones found, only four judged themfelves perfectly cured.

Mr. Gardiner, and feveral others I could fum up, if it were neceffary, thought themfelves cured alfo; but Time, and an Infpection of the Bladder after Death, can alone difcover the Truth of fuch a Cure. The abovementioned + four Perfons of those F 4 fearched,

+ Gem's Extract, Sect. III. p. 27.

fearched, who thought themselves cured, were People of the most advanced Ages, as of fixty-five, feventy, feventy one, and feventy-nine Years old; which gave Occasion to Monf. Morand to fay, that it fhould feem, the good Effect of the Medicines conftantly decreafes in Proportion as the Subjects are younger. And to add, that among the grown Subjects who might advantageoufly take the Medicines, there will be found fome, whofe violent Pains from the Stone may determine them to undergo the Operation, upon account of the flow Progress of the Cure.

That Children fit from them, proved

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Now, fince the Progrefs of the Cure have no Bene- is fo very flow, as to be protracted to fixteen Months Continuance, in vain; and that in Perfons of advanced Ages; how long must we suppose in Proportion, ought those of a middle Age, and fo on to Youth, continue the Regimen? Surely Numbers of Years, if the Proportion be gradual; becaufe Children cannot receive Benefit from the Medicines.

That
That they cannot, is farther evident from another Part of Mr. Morand's Obfervation ‡, where he fays, 'It ap-From Mr. Mo-'pears by the Experiments made both rand. 'in England and France, that Children 'are not capable of receiving Benefit from those Medicines; the Reason 'whereof is not hitherto discovered; 'at least, no fatisfactory one as yet has 'been affigned. But here it happens 'fortunately, that Children are better fitted for the Operation of cutting; 'which is commonly perform'd more fuccessfully upon them than upon 'grown Perfons.'

There is indeed a great deal of Comfort in this: That fince the Medicines cannot cure Children, there remains Cutting for them; and fo it may be faid of those more advanced in Years, as is plain by the above Calculation, and the several Cases hereafter-mentioned.

Mr. Mo-

1 Sect. III.

#### Animadversions on

Observation.

Mr. Morand further obferves, 'That ' the Operation whereby the Stone is ' taken away from Children, proves no ' Prefervative againft another, fome ' having been cut feven Times over : ' But, (fays he) if thefe Medicines can ' prevent the Parts of the Urine from ' concreting together, fo as to form a ' Stone, (as it is probable from fome ' Obfervations that they may) we might ' give them fuccefsfully to fuch Chil. ' dren, who, after being once cut, ma-' nifeft a Difpofition to breed the Stone ' anew.

I am pretty much inclined to believe, if the Medicines are of no Service to Children in diffolving the Stone, they will be but of very little in preventing their Accretion; but fuppofing they did, a Child muft be doomed to take them all his Life, or take them in vain.

Confuted.

It would be thought a very hard Sentence, if a vile Criminal was condemned for an Offence, to take three 2 Meal Lithontriptic Medicines, &c. Meals a-Day of Soap, &c. for feven Years, and I queftion whether he would not think Death more eligible. That Author however confeffes a great Uncertainty in taking them, even as a Prefervative, in the Conclusion of this Paragraph. 'But be this as it will, (fays 'he) there will not, perhaps, be want-'ing Subjects of all Ages for Lithoto-'my.'

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Monfieur Geoffroy gives another In- Monf. Geofftance of Childrens having taken the froy's Account. Medicines in vain, and fays, 'There 'were many other Children in the fame 'Circumftances, but they intended to 'cut them directly. Now I fhould 'think, that this Inftance, added to 'the Obfervations made in England' fince the Publication of the Receipt, 'may juftly raife a Sufpicion that the 'Remedy is only beneficial to grown 'Perfons.

From these Things it appears, and 'tis almost confessed, that they cannot at all be of Service to Children, to whom, if they

# Animadver hons on

they could be efficacious, it would indeed be of fingular Service to the World, as the ufeful Part of their Lives is advancing. Whereas those faid to be cured by the Medicines, are only fuch as are ftooping into the Grave; and therefore, if they were even infallible in old Subjects, it would not be fufficient to balance their Inefficacy in the younger Part of Mankind, which (befides) are more than five Parts in fix of the human Race.

Enquiry whether they do

Our next Bufinefs is to enquire whediffolve Stones. ther these Medicines do actually diffolve the Stone in the Kidneys, or Bladders of Perfons even advanc'd in Years, which we shall attempt by confidering the feveral Things urged in Favour of the Medicines, as Proofs of their diffolving Power.

From Ease obsained.

And first, of a Person's growing easier upon taking them. Intervals of Eafe are very common in those troubled with the Stone, which I many times have been Witnefs to my felf, tho' no Medicine

Lithontriptic Medicines, &c. cine at all had been exhibited. There is no great Need of endeavouring to prove it, as it is fo notorious to every Phyfician and Surgeon, and therefore we must in brief conclude with Monf. Morand, whose Province it is to be well acquainted with the Accidents of this Difeafe : ' That the ceafing of the Pains ' is no Proof the Stone is deftroy'd; for ' it may be objected, that in the com-' mon Course of the Disease, there are ' fometimes Intervals of Eafe for ma-' ny Months, or even Years ; of which ' there are numerous Instances.' It would be well if the Eafe confeguent to the taking of the Medicines, proves a happy Confequence of their Ufe, in those who continue long to take them; but this we shall confider more particularly hereafter.

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There might be fome Pretence for faying a Man was cured because he was easy, if every Person who took the Medicines was observed to be eas'd by them; but it is well known in many of the Cases laid down by Dr. Hartley, that the

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the Pains of feveral were increafed by them. But there is no Queffion, if Pain had been formerly felt, (tho' an Interval of Eafe was never fo long) it would fooner or later return, upon Change of the Pofition of the Stone. Whereas if any Receptacle fhould confine a fmooth Stone from its first Formation, whereby its Motion, or Rowling might be hindred, one might never be fenfible of it.

Gardiner, Pain, Carteret, and others had Eafe ; but did their Pain never return, and were not Stones found in their Bladders when they died ? One thing is worthy of obferving, that most of those few that are faid in the View of the present Evidence, to have found Ease and be cured, have obtained it in a very little while; as in the Cafes of Mr. North, Mr. Brown, Mr. Stoughton, Mrs. Pool, &c. whereas those who have taken the Medicines longest are found by Experience not to be cured, having died a fmall Space of Time after leaving them off, and fuppofing them-

Lithontriptic Medicines, &c. themfelves cured, for which fee the following Cafes. This fhews ftrongly, that if a long Time cannot effect any thing (a fhorter cannot) in diffolving Stones, and confequently that the Benefit received in a fhort time, is by People having only Gravel or Mucus to come away, and not Stones too large to pass. And in general, the Success of An Enumethe whole Set of Classes in the View of Success of the the present Evid. runs thus : Some af- Medicines. ter taking the Medicines a confiderable Time, have receiv'd neither Good nor Harm; others feel the fame Complaints as before; fome do not think they have quite fo much Pain or Uncafinefs as when they begun the Medicines; and in fhort, fome are going on in Hopes of being cured; and at laft a few are faid to be well, and that in a little time, as is just now observ'd.

There are but a few of those Cafes in that Book, that fhew the Perfons were fearch'd, whereby any Certainty might be had of their having the Stone; and it appears that the greatest Number of

ration of the

# Animadversions on

of them were drawn up by the Perfons themfelves; and yet they are all published as Cases of the Stone, one or two I think, excepted. But all Stoppages of Urine, all Stranguries or Dysuries are not caused by Stones; and of this Train of People who relate their own Cases, it is but reasonable to believe, that a very few were capable of giving a proper Account of their own, or that of any other.

No Inflance of a Cure.

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Now if these were the efficacious Medicines pretended, if they were of the general Service expected, if they were worth the generous Præmium granted for them; ought not the Majority of the Patients under that Regimen, at least, be absolutely and without Equivocation cured? Inftead of which, here is not an Instance thro' the Whole of a certain Cure, according to the Standard laid down by that judicious Surgeon, Mr. Morand, and to which I am perfwaded every impartial Person must affent.

He fays, after making all poffible Enquiry into the Nature of these Medicines, and indeed favouring them as much as poffible : \* ' All we have faid ' hitherto of the Virtue of thefe Medi-' cines, is not fufficient to determine ' pofitively that they cure the Stone ; ' whilst it may be asked, whether any ' Patients have been fearch'd, not only ' before, but after taking them ; fo as ' to give a Proof of their Cure by the " Catheter.' And in two or three Paragraphs after, he gives this as his decifive Opinion, and lays it down as politively as the Nature of the Thing requires, as follows:

There can be but one positive Proof, Mr. Morand's Proof of the Which way foever we confider these Certainty of Medicines, and that is, the Stone be- a Cure.
Medicines, and that is, the Stone be- a Cure.
ing found by the Catheter, and the Medicines taken with apparent Success; then Opening the Body after
Death, and finding no Stone in the Bladder. But it is Time only, and
Opportunity that can fully inform us.'
G That

\* Gem's Account, p. 30.

#### Animadverfions on

That Time is not as yet come, no fuch Proof is yet produced ; tho' now, Time is a Nuncio Veri in this Matter, as well as in all others of Ambiguity, having amply shewed us beyond Contradiction, that these Medicines are not efficacious in diffolving the Stone, with other Things too, much to their Difadvantage, as we shall prove more fully in its Place. In the mean Time, I would ask one Question here, viz. Query, of Nor- Has Henry Norris had no Return of his Complaints fince he was produced before the Truftees, as cured ? and has he not afked any one's Advice when in great Pain? If he has, 'tis Time alone that now informs us of what did not appear before, concerning this, as well. as many other Subjects. And, as a further Confirmation of the Inefficacy of the Medicines, I must here mention in brief, the Cafe of Mr. Simfon, a Gentleman of Note in Chapel-street near Red-Lion-street, who had taken the Medicines about nine Weeks, and took. them in their full Dofes, during which Time

Hiftory.

Time he fuffered great Pain, fo as to be obliged to leave them off; and after feveral Months he endeavour'd to reaffume them, but could not continue them, becaufe of their Naufeoufnefs, and the Pain they gave him; he therefore fubmitted to be cut; which was accordingly done, and a Stone of feveral Ounces Weight extracted by Mr. Chefelden, the Gentleman being, as I am told, in a fair Way of Recovery.

The above ingenious Lithotomift, Mr. Morand himfelf, lays no great Strefs upon fearching for the Stone; and it is plain from him, as well as from other Authors, that great Uncertainty attends it. He fays; 'According to the Difpo-' fition wherewith this Affair has been ' examined, after the Ufe of the Medi-' cines, it is eafy to fhew that all Trial ' by the Catheter is either infufficient, or ' fuperfluous.

Searching a Patient a long Time af-Searching unflicted with the Stone, not having taken certain. any Method to get rid of the Complaint, G 2 may

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## Animadversions on

may admit of fome Certainty, otherwife Lithotomifts could not refolve to perform the Operation. But fearching in a long Interval of Eafe, either by the Use of Medicines, or without them, may be allowed uncertain, becaufe, the Lusu's of Nature are many, and Stones that have once fluctuated freely in the Bladder, and been felt before, may not be felt afterwards: For, (1.) They may have acquir'd Integuments of membranous Productions to cover them, fo as not to be fenfible to the Touch of the Catheter. (2.) They may have protruded the inner Membrane of the Bladder into Sacculi, and have lodged in them. (3.) They may be circumvolv'd by a tenacious Mucus, fo as to make a Refiftance, fo like that of the Bladder itself to the Instrument, that might deceive the most experienc'd Artist.

1. Encyfied Stones.

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The former of thefe, the Encyfted Stones, we find mentioned by a Number of Authors; we fhall enumerate a few by way of Vouchers: *Holler*. + tells

+ De Morb. intern. Scholiograph. c. 49. l. 1.

Lithontriptic Medicines, &c. tells us of a Merchant who had all the Signs of the Stone, yet none could be found by the Catheter; but after his Death two large ones were found, each inclosed in a Membrane in the Bladder.

\* Ambrose Parée tells us, 'tis Death to a Person if a Stone is included in a Membrane; he fays, These Stones are not to be felt by the Catheter.

+ Martin Holtzapel gives a Hiftory of a Nobleman who was fearched, and no Stone found, yet he was cut, and ftill the Surgeon could feel no Stone. He died the eighth Day, and the whole Bladder was taken out of his Body, and thirty-two Stones, (the fmalleft as large as a Bean, the largeft half an Ounce Weight, all alike in Colour, every one wrapp'd round by a Membrane of its own) were found, which filled the whole Capacity of the Bladder, except a fmall Paffage for the Exit of the Urine.  $G_3$   $\ddagger Tulpius$ 

\* Lib. 16. Cap. 39.

+ Skenk. de Vef. Urinaria, Obf. 269. parag. 6.

#### Animadverfions on

‡ Tulpius has a Cafe of a Senator of Amfterdam, who had twenty-nine Stones in his Bladder, differing in Figure and Size, but alike, Forma, & Glabritie ac Levitate, all of the Bezoar Kind : Each of these had a Coat about it, infomuch as the Surgeon was deceived, believing no Stone was there, till the Body was opened. This Author mentions also the Cafe of Cafaubon, whole Bladder he calls Vefica Rugofa, in which was a vaft Number of Stones, which being fo inclosed, might have evaded the Perception of a skilful Surgeon.

I might here add a great Number of the fame Nature, but believe thefe are 2. Of Sacculi. fufficient to prove the first. And as to. the fecond Manner of being deceived in fearching, Mr. Gardiner's Bladder is a fufficient Evidence for the Sacculi. As 3. Mucaus to the third, that is, the mucous Matter invelloping the Stone, \* Skenkius has

> t Lib. III. c. IV. \* Lib. III. Obf. 269. parag. 7.

Lawerings.

has a Hiftory of a confiderable Perfon who had a large Stone fo covered with a thick mucous Humour, that it could not be felt by the Surgeon, who, tho' the Patient had other Symptons of the Stone, introduced the Catheter in vain, to his great Surprife. ‡ Jacob. Holler. Marcell. Donatus has likewife a Cafe of the fame Nature. And the learn'd \* Tulpius fays, he faw Stones with fuch Coverings like Membranes, which fluctuated in the Bladder, and were voided by two Women. And in another + Place gives an Account of two large Stones found in the Bladder of a young Man, fo furrounded with a thick Mucus and Pus, that the Surgeon could not feel them in the leaft. Many other Authors bear the fame Teftimony; but thefe are enough to fhew, how many Caufes there may be of Uncertainty in fearching for the Stone; and therefore I am induced to conclude G4 with

*Hift. mirab. Med.* 1. 4. c. 30.
\* Ch. V. p. 188. *Ibid.* Ch. II. p. 184.

# Animadversions on

with Mr. Morand, that Examination by the Catheter cannot determine 'whe-' ther the Stone be abolished by the Ef-' fect of the Medicines.'

Different Kinds of Calculi.

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The Calculi of Bladders differ greatly from one another, tho' let the Number be never fo great in the fame Bladder, they are all alike. Some are hard and brownifh, with fimooth Surfaces, as those of Gardiner; fome fmooth and whitifh, or greyifh, as those which fill a Bladder, which was shewed me by our much-to-be-lamented Friend, Dr. Douglas; fome are granulated and hard, like that of Mr. Smith of St. Albans; and fome unequal and ragged on the Surfaces, as if prick'd with an Inftrument.

Pretence of Erofion by the Medicines. These are all Stones, *fui generis*, form'd differently, according to the different manner of their Concretion, and the various Combination of the strony Particles, with the different Strength of their Attraction, and other Accidents which are abstructe to us; and

yet

yet this one Kind with the ragged Surfaces, when found in the Bladders of two or three who had taken Mrs. Stephens's Medicines, were pretended to have been rendered fo by the Action of thefe Medicines. This would be a tolerable good Plea in their Favour, if there never were Stones with the fame Appearances in those who never took them ; but here we can produce feveral Examples of Stones with Surfaces feemingly eroded, fome of different Animals, which are in the Museum of the Royal Society, others of the human Calculi, two Cafes of which will be fufficient to fhew, that Arguments or Expectations founded upon fuch Appearances, are but weak Evidences of the Efficacy of the Medicines.

The first I shall mention, is a Stone found in the Bladder of a worthy Ma-faces without gistrate's Son in the City, which had all Medicines. the Appearances of Erosion that could be in a Stone of that Nature; who was fo far from taking any Medicine for it, that, during the Time of his being in

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declining Way, it is a Doubt whether there was even a Sufpicion of a Stone in this Cafe; of which you have two Views, Tab. 6. Fig. 1. and which is at prefent in the Museum of the learned Doctor Mead.

The other is the Cafe of one Rachel Eaves, who had been a confiderable Time in the Work-houfe of St. Giles, who had all the Symptons of the Stone, and the Urethra fo plugg'd up, that for a long Time fhe could make no Water : The following Mixture was ordered to be taken four or five Times a-Day, and a ftrong Decoction of Emollient Plants for her ordinary Drink, and in lefs than twenty-four Hours fhe was relieved, by the Difcharge of the fix Stones demonftrated in Plate 6. Fig 2.

R. Aq. Raphan. comp. Zii. Petrofel. Zvi. Syr. de Alth. Zii. fs. Sal. Prunell. Mart. Abfynth. ā. Gran. xii. M.

The Stones were all much eroded according to their Sizes, but it cannot

be







be pretended the Medicines had that Effect on them in twenty-four Hours; but as the Mixture is very Diuretic, and the Decoction a very lubricating Emollient, all that was expected from them, was the Expulsion of whatever was finall enough to pass by the Urethra, which accordingly happened, the larger Stones giving much Pain as they passed. As often as her Complaints returned, so ften as her Complaints returned, the was always relieved in the fame Manner, by discharging Gravel and stones, less than the stallest of the Figures.

# TAB. VI.

#### Fig. I.

Shews two Views of a Stone taken out of the Bladder of the forefaid Magistrate's Son of the City, having the Appearance of *Erofion* all over its Surface, without the Help of any Medicine whatever.

Fig. IL.

## Fig. II.

Reprefents fix Stones voided by an ancient Woman in the Work-houfe of St. Giles, which are alfo eroded. The two large Figures are different Views of the fame Stone.

#### Fig. III.

Demonstrates the Stone taken out of the Bladder of Mr. Smith of St. Albans, after the Use of Mrs. Stephens's Medicines for 16 Months, weighing fix Ounces wanting one Scruple.

There is alfo an old Gentlewoman in the fame Place, fubject to thefe Complaints, who is relieved by voiding fmall Stones like Peafe as often as fhe has a Difficulty of making Water, and takes thefe Remedies, of which fhe has a Box-full; and tho' I never knew thefe Prefcriptions fail of promoting the Difcharge of Urine in Stranguries, yet I cannot fay they diffolve Stones in the Kidneys or Bladder,

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As to the harder Kinds of Stones, I Harder Stones believe, impartial Judges will think it the Bladder.

vain to expect they can be diffolved in the Bladder ; because if a Menstruum, thought ftrong enough to act upon them, be taken into the Body, what must be the Fate of those Parts thro' which it paffes, or the Bladder in which it refts fome Time; whofe Parts are flexile, membranous, and confequently more liable to fuffer by the corrofive Action of fuch Medicines than the Stones they contain? + Tulpius was of this Opinion, who fays, 'Nothing is ' more frequently talk'd of amongst ' Phyficians than Medicines for break-' ing the Stone; but we ought to con-' fider fuch, as the most foft ones; for · those

+ Nihil Medicis frequentius in ore, quam medicamentum calculum frangens. At vide fis arenofos ac molles duntaxat intelligas : filices quippe ut vix comminuunt Mallei, fic profecto multo minus acris aliquis Humor, qui fortaffis aptior foret exedendis tenuibus veficæ tunicis, quam præduris lapidibus. At excogitabit fortè aliquis Remedium, quod fine aliarum partium jactura, ingenita proprietate, folos calculos diffolutum ibit.

## Animadver fions on

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those that are flinty, as they can hardly be broken with a Hammer, fo indeed much lefs by any acrid Liquor,
which, perhaps would be more apt
to eat away the tender Coats of the
Bladder than fuch hard Stones. But,
perhaps, fome may find out a Remedy that shall only diffolve the Stones,
by an innate Property, without damaging any other Part.

Here *Tulpius* merely banters the Pretenders to infallible Stone-diffolving Medicines; the laft Paragraph fhews how he contemned fuch Notions.

To imagine an innate Virtue in Medicines, that can only act mechanically upon Bodies, would be granting a Kind of judicious Choice to the Medicines, or making them capable of obeying Commands not to touch the Bladder, but the Stones. What ridiculous Lengths are Men, apt to run when once they fet out wrong ! Surely the greateft Favourer of these Medicines of Mrs. Stephens must be

be of the fame Opinion, if courteous enough to himfelf to think ferioufly of them. Even Monf. Geoffroy, as well as Monf. Morand, fpeak of them with Diftruft all along, and are pretty pofitive in their Opinions of their not being capable of diffolving hard Stones. The latter fays, 'He does not think, they can ' have any Effect upon what he calls " the Mulberry Stones ; and the former, after he has allowed them all the Favour he can, fays, 'This Remedy ' promifes Succefs with Stones not hard enough to refift the Action of a Liquor ' that contains nothing ftronger than an \* Alkaline Salt; but we may be too fan-' guine to expect it should act upon ' fuch hard Stones, as perhaps nothing <sup>6</sup> but Acids will diffolve.

I am afraid Promifes are no where more frail than in this very Affair; the Promife of Succefs has not yet appeared to be fulfilled; the Conditions are, where Stones are not hard enough to refift a Liquor no ftronger than Alkaline Salt can make it; there are but few

## Animadversions on &c.

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few of those in human Bodies; for as friable Stones are very feldom found, fo we can expect to find but few Examples of Stones broken in the Kidneys or Bladder by Medicines. This leads me to confider the Nature of those white Particles fo often mentioned to have been voided by the Patients, in the View of the present Evidence.

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I am strad Pressizes are no whata more fall than in this sary Affair; the Promite of Succels has not yet superied to be fulfilled; the Conditions are, where Stopes are not hard onough to **10** a Liquei no fronger than Alkaine Sait can make it; there are but DETERS DE CIRERED CZ.

[ 97 ] ]

# Of the Calcarious Matter.

HEY are fo often met with in the Forms of Flakes, Sediment, Bits, chalky Matter, and fuch like, thro' the Cafes of that Book, that one would almost believe there were no other Kinds of Stones but rotten white ones in all Mrs. Stephens's Patients : This white Matter, fo difcharged, amounts to fo great a Quantity, that, as Mr. Freke once observed, if they were Mr. Freke's Parts of Stones once diffolved, that of Opinion. every Patient might be eafily fuppofed as big as one's Head. Upon this Objection Dr. Hartley feem'd not to dwell Plea. upon the white Matter as Stone, but ratherdepended upon real Pieces, which he faid he had collected from Mr. Gardiner, amounting to fome Ounces Weight. Whether this was fo, or no, I shall not here endeavour to determine, but shall leave the Reader to judge of

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the

the whole Matter, when he comes to confider Mr. Gardiner's Cafe.

Tho' the Doctor does not, upon that Difpute, infift upon the white Matter's being Stone, yet in fome Places of his Book before-mentioned, the white Sediment has been dryed, and faid to concrete into a ftony Mass, which I take to be a Kind of Infinuation of its being Stone diffolved; otherwife, of what Ufe was it to mention fuch Concretion in the Cafes? Is it not evident every Day, that flack'd Lime, or any other calcarious Matter may be concreted into a hard Substance when the Moisture is exhaled : However, in order to carry this Enquiry a little further, let us confider the Matter voided by the Reverend Dr. Kirkpatrick, as delivered by himfelf, and fee whether he could have a Stone, or Stones, that could amount to that Quantity.

Dr. Kirkpatrick's Cafe. This Gentleman voided one thoufand and thirty-fix *Flakes*, which he calls *Flakes of Stone*, befides the great Quantities

tities of white Sediment and angular Bits all along, exclusive of fome finall Stones, one of which, by the by, was red; this plainly proves this Bulk of white Matter is purely calcarious, all the Stones of the fame Bladder being of the fame Kind, as fhall be prov'd more at large, when we come to *Gardiner*'s Cafe.

He was fond of believing all thefe were Stone, having, as appears by his Letters to Dr. *Hartley*, made the Experiment of forming the white Sediment into little Balls, and drying it, and calls it a calculous Mafs, having no Appearance of any Thing faponaceous.

What Credulity ! what Fondnefs of believing what we with for is come to pafs! By telling us it is a calculous Concretion, having nothing faponaceous, in his fifth Letter; he fignifies, that therefore it was not any Part of the Medicines that appeared like Flakes or Sediment, but real Stone. But he forgot that in his † third Letter he fays, H 2. I

+ View of the pref. Evid.

' I always fcum off the Film of my ' Urine before I filtrate it; if you ne-' glect it, your Sediment will be more ' faponaceous; mine was fo once, but ' after taking off the Film, the white Sediment always concretes into a cal-' culous Mass.' He fays further, that he broke this Mafs, and viewed the Pieces in his Microfcope, and it had the fame Appearance, in all Refpects, with the Flakes of Stone he paffed, and that the one could not be diffinguished from the other. Now, becaufe Dr. Hartley was willing fomething fhould be faid of this learn'd Gentleman's Cafe, upon which he lays great Strefs, take this fummary Extract of what is material.

His Regimen before that of Mrs. Stephens. He tells us, that for more than feventeen Years he was troubled with Nephritic Paroxifms; that he feldom had above one in a Year; that they lafted him about twelve Hours the fhorteft, and the longest about thirty; that he passed feveral Stones, and sometimes *Mucus*; that the Regimen he pursued was, warm Baths, emollient Clysters, faponaceous

faponaceous Balfamic Medicines for relaxing and opening the Veffels, and Diureticks for carrying off what was paffable; and this from time to time. There is no Doubt to be made, but that if he had been as conftant in the Purfuit and affiduous Continuance of this Regimen, as he was afterwards in that of Mrs. Stephens, he would have done better, without that Torture he fuffered all along, and without the Difcharge of the white Flakes, &c. which he calls Stone. Here we fee he ufed faponaceous Medicines, which with the other Things, were better, and more fafely calculated, than when the Powders were brought in Play, and the naufeous Decoction.

He confults fome of the Faculty, who were of Opinion he had a Stone; tho' it does not appear that he was fearch'd: However, he fometime after hears of Mrs. Stephens's Medicines, which he takes, in the manner laid down in his Diary, and voids the Flakes, &c. befides three fmall Stones during his taking H 3 them, IOL

#### Of the Calcarious Matter. them, which was from October 17. 1738. to April 23. following.

He voided Stones during his former Regimen, but no white Flakes, becaufe the Medicines then taken had not a Fund of calcarious Matter to fupply them; but as foon as Mrs. Stephens's Medicines came in Play, he foon had Flakes, Sediment, &c. As had alfo the other Patients.

What elfe remains, is, that he produces a Certificate of feveral Gentlemen, to prove that the Diary was a Relation of Facts; that they had feen and handled a large Number of the Flakes, (which they alfo called Stone) and a confiderable Number of calculous Concretions form'd out of the white Sediment, feparated from his Urine by Filtration ; and three large Stones paffed by him during the Ufe of the Medicines : And then he fums up the Whole in these Words; ' To set all my Obser-\* vations in one Point of View, the Sum of the Whole is this: Five 'Stones

Stones have been diffolved in my Bladder, and difcharged in Flakes, Bits,
Scales, Particles, an impalpable Powder, and the Nuclæi, agreeable to all
the Phænomena that can rationally
be expected in the Diffolution of a
Stone in the Bladder. This Diffolution has been effected (under GoD)
by the Ufe of Mrs. Stephens's Medicines: And the whole Procefs has
been fafe; in nothing detrimental to
the general State of my Health.

Now, befides Mrs. Stephens's Medi-Medicines ufed cines, this Gentleman ufed alfo a good befides Mrs. Aperitive Syrup of Opening and Diuretic Plants, &c. of which, he fays, he took above two Gallons, befides a Quart of the Syrup of Elder-berries, as alfo, for conftant Drink, a medicated Ale, with Quicken-grafs, Saxifrage, Gravel-grafs, Eringo-roots, Pelitory of the Wall, Daucus-feeds, Root of Mæum, Camomile Flowers, Juniper Berries, and Raifins.

H4 Here

Here is a very good Regimen, and, no doubt, efficacious in cleanfing the Urinary Paffages, and bringing away fmall Stones, Gravel, or the like, which are fmall enough to pafs. Now, the Question here is, Whether Stones were diffolved in his Bladder? there is nothing to favour that but the Flakes, Sediment, &c. If these are real Stone, then he had a Diffolution of a Stone in his Bladder ; but if they are the Calx of the Medicines, then his Pain proceeded, as before, from Gravel and the Stones which were fmall enough to pafs. If they are not the Calx of the Medicines, where did it all go to, for we find no Account of it elfe? But I believe we shall make it very clear, that this Matter is the very Calx, and nothing elfe, before we end this Enquiry.

The fame Kind ticles in other Patients.

The fame Similarity of this white of white Par- Matter is also observed by Mr. Bolton, who compared, with Mr. Binford, Mr. Holland, and Mr. Armstrong, what was voided in the Urine of each, and they were fo much alike, that, Mr. Bolton

Bolton fays, 'One would think this all ' came from the fame Person.' And it is pretty plain Dr. Hartley then thought them Parts of Stone in this very Cafe; because upon an Objection then raised, that the Medicines produced them, he tells us he wrote to Mr. Bolton, defiring to know whether he had had any Return of his Complaints, and mentioned the foregoing Objections. But now very likely his Opinion may be altered; nor does it appear he had much to boaft of in the Cafe of Thomas Robinson, Efq; notwithstanding the strong Smell of his Urine, and the copious Sediment he depolited; for after taking the Medicines three Months, he received neither Good nor Harm from their Ufe. What then must the Sediment be here ?

I must not forget the ingenious Ar- Mr. Machin's gument of Mr. Machin upon the Af- Argument. fair; he ask'd Dr. Hartley, what Proportion of calcarious Matter was in the Medicines? and, being told, he further ask'd, which Way it passed? It was anfwered, By Urine : From whence he concluded,
concluded, that fince no calcarious Matter could be changed into animal Subftance, it muft be the fame that is fo often called diffolved Stone. This indeed is no great Wonder, when the Powders alone amount to fo much as three Drachms in a Day, befides the Calx of the Soap in the Decoction, and the calcarious Matter of the Pills, which, taken in fuch large Quantities, may eafily fupply what appears to have been difcharged every Day by those who take them.

I believe, No body will venture to affirm, that any Particles of thefe Medicines are nutritive of, or in any wife fimilar to any Particles of the human Body. If not, then befides the Alkaline Salt and Oil, there is an Abundance of what may be called an unalterable Solid in them, which is the Calx, tho' they be reduced to an impalpable Powder before they are taken. This Matter muft either be difcharged, or retained in the Body, when fuch Quantities are taken of it; and it appears from Dr.

Dr. Hartley's Anfwer to Mr. Machin. they are discharged by Urine. By Mr. Proved by Morand's + Experiment, in his Anfwer Mr. Morand. to the first Question, viz. What Proof is there that the Medicines enter the Urine? And by fome Obfervations of Dr. Hales, where he fays, 'We fee in From Dr. ' these Experiments what a Quantity of Hales. · Lime there is incorporated into Soap-' lees, which yet are as clear as fair "Water, and this with the Lime of the · Egg-shells taken in Substance, is a ' Fund fufficient to fupply that Quan-' tity of calcarious Matter which is ' voided by Mrs. Stephens's Patients, ' together with Sand, Gravel, Scales, ' and diffolving Parts of Stones.'

In another Place this learned Author fays, 'Now, fince there is fo much Lime ' in Soap-lees and Mrs. Stephens's Pow-' ders, it may well be afk'd, whence is ' it that Mrs. Stephens's Patients do not ' always void fuch calcarious Matter, ' while

+ Gem's Extr. p. 21.

while they are taking the Medicines?
Perhaps it may be, that while the
Stones in the Bladder are in a diffolving State, the diffolving Matter of
them combining with the Calx of the
Soap-lees and Egg-fhells, may make
too plentiful and grofs a Combination
of Matter to be fuffained in the Urine
confiftent with its Transparency.

A Combination of the calcarious Part of the Medicines probable.

If from this laft Obfervation, it is probable there may be a Combination of the Particles of the Calx in the Bladder, (than which nothing is more likely) fuch an Affemblance forming Flakes, Bits,  $\mathcal{E}c$ . can be no great Credit to the Medicines, nor can they be faid to act as a Diffolvent, that are fubject to Concretion themfelves.

But it is concluded by fome, who made Experiments on Stones out of the Body, that they may be diffolved in the Body by thefe Medicines. Why fhould we not with more Right, think that, becaufe calcarious Matter concretes out of the Body, it may combine in the Bladder?

Bladder ? Thefe Particles are ftony Particles *fui generis*, and are fubject to the fame Powers of Cohefion with thofe of any other calculous Matter; and if they can combine grofly in the Bladder, and become too heavy to be fuftained by the Urine, they may acquire frefh Particles every Hour, and become at laft too bulky to be difcharged, by the fame Laws that *Calculi* do; and there ore I think it is a happy Thing to to find them come away.

There is another plain Proof that Another Proof. this is nothing but the Calx of the Medicines that comes away in the Urine, in the Cafe of Mr. Armstrong; who declares, That in twenty-four Hours after taking them, they chang'd his Water from a Redish high Colour, to a White Wheyish Hue, and deposited a white Sediment, and continued to do fo most of the Time he took the Medicines regularly. That about the third Day thin White Flakes in a foft State began to come away, and continued more or lefs every Day for ten or twelve Days; 2

Days; and then after two or three Days Interval came away larger Flakes, and harder than before.

Can it be imagin'd, that in twentyfour Hours this Change was occafioned by any Thing elfe than the Calx of the Medicines? We are fure he took them, and therefore certain there was Matter to produce that Sediment; but, can it be afferted with Decency or Difcretion that a Stone was diffolved in twentyfour Hours? or that he had a White Stone in his Bladder, rather than one of any other Colour?

This Account fhews too, that there was a Combination of the calcarious Matter, for about the third Day thin white Scales were difcharged; this was, becaufe the Supply was increafed. Thefe continued ten or twelve Days, and then upon an Interval of a few Days, the Flakes were larger and harder than before; this might happen for Want of proper Exercife for fo long Time; and the calcarious Matter not being

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being light enough to be fuftained by the Fluid, fell together, and upon the firft occafional Action of the Patient, came off with the firft Stream of Urine in larger Pieces. Befides, we find by the fame Cafe, that the Calx may concrete into different Forms; for the Patient fays, that fometimes there were chalky Pieces amongft thefe Flakes, fome irregular, and fome round, which would crumble eafily between the Fingers.

Mr. Naish had this White Sediment on the first Day of his taking the Medicines, which continued all along. See his Case in the View of the present Evidence.

But, to conclude, the Experiment An undeniable made in one of our Hofpitals proves it Preef. undeniably: The Medicines were given to a Man who never had the Stone, nor any Symptoms like it, who, during the Time of his taking them, voided Flakes, Scales, Bits, Sediment, and all the Train of Forms the Calx of the Medicines

III

Medicines could produce. Sure the greateft Infidel must now be convinced, that the calcarious Matter of the Medicines alone produced these, and not any calculous Matter whatsoever.



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# [ 113 ]

#### REPRESENTED REPRESENTE

#### Of Experiments made on Human Calculi.

A Ltho' Experiments are of great Use in all Parts of natural Knowledge, and ought to be vigorously attempted, in order to come at what may conduce to the Benefit of Mankind, and to arrive at the Truth; and altho' it is a laudable Thing to be inclin'd to make Experiments, yet we ought not to be so found of those we make, as to imagine they have proved all we wish for; or to draw such Conclusions from them, as may favour (or skreen any Defect in) what we cry up.

All the Experiments that have been made upon *Calculi* from time to time, with regard to Mrs. *Stephens*'s Medicines, can amount to no more, than to fhew that Soap is an Aperitive, and

T

#### Experiments made

Experiments ferwed only to promote the Sale of the Medicines.

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a \* Scourer of the Parts thro' which it paffes ; but before we were better informed by the only Experiment, opening Bodies after Death, they indeed tended greatly to encourage Mankind to an implicite Belief of their being able to diffolve the Stone in the Kidneys and Bladder ; and ferv'd to keep up and cherifh thefe Hopes in fuch as were afflicted with that Difeafe, by being continually made and publifhed, and confequently promoted the conftant Sale of the Medicines.

Of no Ufe out When we can draw an abfolute Paof the Body to rallel between Stones in a Bladder or prove the diffolwing Power Kidneys, and Stones in a Glafs or of Medicines in earthen Veffel.

> When Soap, Soap-lees, medicated Urine, or any other *Menstruum* can remain and act upon a Stone in the Bladder or Kidneys, with the fame Constancy and Force, and in every other Cir-

> \* Galen, and many others fince him, have told us the fame Thing.

#### on Human Calculi.

Circumstance, as in a Veffel of Earth, Glass, &c.

When the Sides of the Bladder can refift the Action of the Medicines, like those of a Phial.

When we can find faw'd Stones in the Bladder, and be able to brush them every Day at Pleasure.

When we can always command the *cauftic* Salts of the Medicines imbib'd, and diffolv'd in the Juices of the Body, to be determined only to the urinary Paffages, and not to circulate to any other Parts.

When we can boil Stones in the Bladder, and increase or diminish the Heat about them at Pleasure, *cum multis aliis*, &c. then Experiments may shew fomething; but as there are many Experiments made by several Authors, to shew a Lithontriptic Virtue in Acid Salts out of the Body, these made upon this Occasion, can only shew, at most, I 2 that IIS

#### Experiments made

that there may be fuch a Virtue in Alkalines alfo; but cannot at all prove they diffolve Stones in Kidneys or Bladder.

As for Diffolvents for the Stone out of the Body, it appears from the Experiments of feveral Authors, that Acids are most powerful, which is, too, the Opinion of Monf. *Geoffroy*, whom we have cited above, concerning the harder Stones, and which is further confirmed by the Experiments of the ingenious Dr. *Rutty*, \* whose Book is just come to my Hands, and from whom I shall transcribe the following Summary of those made by him :

Of the feveral Articles examined,
the only abfolute Diffolvent of the
Stone is Spirit of Nitre; the reft are
rather Lithontriptics, of which the
ftrongeft in Efficacy is Spirit of Salt;
the next Soap-lees; the next Limewater,

\* Account of some new Experiments on Joanna Stephens's Medicines, p. 38.

Opinions of other Lithsontriptics.

## on Human Calculi.

water, and probably the Juices of Onions, Leeks, and Cellary, may de-

' ferve a Place among the milder Li-

· thontriptics.

Thus we find our Soap-Colation is Fallibility of by Experiment even out of the Body, thefe Mediines. no more than of the third Clafs of Medicines thought capable of acting upon Stones.

We find alfo thefe Medicines, like all other pretended infallible Things, falling far fhort of their boafted Efficacy, and are dwindled into mere Fallibility; and we muft (I believe) confefs, that our foapy cauftic Medicines require as rational and cautious an Application, as any other *corrofive* Drug that is in practice. Which leads me to my next Queftion, which is:

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QUE-

# KACKEESELLAN,

[ 811 ]

# QUESTION III.

Are they Medicines that cannot produce any ill Effects in the Body, fince they are taken in fuch large Quantities, and no Limits fet to the Length of Time in which they may diffolve the Stone?

Many and dangerous are the Evils, that may proceed from an empirical Exhibition of these Medicines. The first Disadvantage (I shall take Notice of, that may arise from taking them) is, that when the calcarious Matter does not come away, there is Danger of its concreting in the Bladder. This is proved in the foregoing Question; but, because I find Doctor Rutty denying that the calcarious Matter, voided by the Patients during the Use

of

Dr. Rutty's Opiation obviated.

I

Lithontriptic Medicines, &c. of Mrs. Stephens's Medicines, is the Calx of them, I must take the Liberty of viewing his Reasoning upon it.

He fays,  $+ \cdot$  The calcarious Matter, thus voided, differs from the Calx of the Medicines in two important Refpects; (1.) That it is in a great meafure volatile in the Fire, as are the different Stones of Animals, and those of a human Body; but the Calx of those Medicines is fixed in the Fire.'

Now, fuppofing this laft to be the Cafe, then it is proved to be the very Calx of the Medicines, from Dr. Hales's Experiment; for he and Dr. Hartley put twelve Grains of the Sediment from the Urine of a Perfon taking them, into a new Tobacco Pipe, and kept it red hot for half an Hour, which (Dr. Hales fays) was reduced to feven Grains. Here feven in twelve Grains are allowed to be Calx; for, he fays, they may reafonably be thought the Calx of the Medicines.

#### I 4 What

+ Account of Some new Exp. and Introd. p. 4.

# Animadversions on

What became of the other five, or what they confifted of, we are not informed, except it is infinuated, that what was deficient, was the calculous Matter evaporated. But may we not fuppofe, that this Matter, which had circulated with the Fluids of the Body, might have retained fome uncluous Moisture that cemented those Particles together. when it grew hard, tho' it had even loft its aqueous Vehicle, and was feemingly dry; and which half an Hour's fresh Calcination would caufe to evaporate? and alfo, fhould we not allow for fomething walled, by flicking to the Sides of the Pipe in fo fmall a Quantity? Confidering thefe Things, I believe we may as well impute the Lofs of the five Grains to fuch Wafte, and Evaporation of unctuous Matter, as to that of any Part of a true Calculus; and, I think, it would amount to an Abfurdity in Judgment to imagine, that the Lime which has paffed thro' the Body, should be exactly the fame in all Respects with that which never was in it.

His

His \* fecond Argument is, that he has found fuch calcarious Matter (voided during the Operation of thefe Medicines) to agree likewife with the Stone of the Bladder, as well as to differ from the Calx of thefe Medicines, in that it made an Ebullition peculiarly or chiefly with Aq. Fortis, and not with Vinegar, Spirit, nor Oil of Vitriol; whereas the Calx of the Medicines makes a ftrong Ebullition with Spirit and Oil of Vitriol, and even with Vinegar.

I would make Use of no other Argument to prove the calcarious Matter, voided by Mrs. Stephens's Patients, is the Calx of the Medicines, fince it causes any Ebullition at all with Aq. Fortis; for tho' it makes no such Ebullition with weaker Acids, we see it does with a stronger. The Reason is very clear: Because the calcarious Matter of the Medicines has undergone Digestion, Ablution, and other Changes in the Body, whereby the Alkaline Quality (which should result the Action of Acids)

\* Account, &cc. p. 5.

I2I

#### Animadverfions on

Acids out of the Body, is much leffened, and confequently can make no Ferment with the weaker Acids ; whereas being put to Aq. Fortis, which is an exceeding ftrong Acid, whatever Alkaline Salts remain, will be acted upon by its exceeding Acid Quality, tho' not by weaker. Whereas there is no great Wonder, if the Calx of the Medicines (having undergone no Change, and abounding with fiery Particles) are capable of raifing an Ebullition with the weakest of Acids. And tho' I never made the Experiment, I doubt much whether Lime, paffing thro' feveral Ablutions of common Water, renewed at different Times, and fuffered to dry, will ferment with weaker Acids, tho' it may with Aq. Fortis.

Principles of Stones in the Bladder.

From what has been faid above, it fairly appears, that this is the Calx of the Medicines, and confequently if it is not difcharged, it may concrete in the Bladder, each Particle being a Principle fufficient to receive the Addition of fresh ones, or of being glued to others by

Lithontriptic Medicines, &c. by the Help of Mucous, or fuch like, Matter. As a Needle, \* Straw, or any other extraneous Body may be a Nuclæus to stony Matter in the Bladder, and even in the Stomachs, and other Parts of Animal Bodies.

We have the Opinion of an excellent Venette's Opi-Author to ftrengthen this, who, after nion. mentioning feveral Medicines capable of doing Mifchief in the Body by Concretion, has thefe Words: + The ' fame may be faid of Egg-fhells, which ' are truly Stones, and are form'd of ' like Principles, and which carry with ' them the Characters of Petrifica-' tion. What Good then can be ex-' pected

\* Dr. Mead has a Calculus concreted about a Needle. † J'en dis de mefme des Coquilles d'Oeufs, qui font des veritables Pierres faites par des principes femblables, et qui portent avec elles les carracteres de petrification. Ainfi que peut on efperer de favorable des toutes les Pierres pour detruire celles qui s'engenderent dans notre Corps ? En verité on n'a pas affez examinè toutes ces matieres, et l'on donne fouvent à yeux clos fur des remedes, qui au lieu d'avoir quelques vertues bienfaifantes, en ont non feulment d'inutiles, mais des malfaifantes & de fafcheufes.

Venette Traité de Pierres, p. 267.

## Animadverfions on

pected of any Stones for deftroying
those that are bred in our Bodies?
Certainly these Matters have not been
well examined, and often Remedies
are blindly confided in, which, instead of having any efficacious Virtues, are not only useles, but of very
dangerous Confequence.

May not the calcarious Matter, as it is unalterable as to its Solidity, in circulating with the Fluids, obftruct fome of the minute *Capillaries*, and caufe Inflammation, in either the Mininges of the Brain, Pleura, or any other delicate Membranes. Mr. *Wood* died of a Pleurify whilft taking the Medicines; and tho' he might have had one without, yet becaufe the calcarious Matter may obftruct the Veffels of the Pleura, or becaufe the cauftic Salts might have caufed the Inflammation, it is probable, they occafioned it.

Vesscations caused. May not the cauftic Salts, which are abundant in the Course of the Medicines, veficate and ulcerate the Parts thro

Pleurifies caused.

Lithontriptic Medicines, &c. thro' which they pass? Mr. Holland is faid in the View, &c. to have died of an Eryfipelatous Fever; but it is reported his Blood was rendered fo cauflic, as to have veficated him all over. Quere, Whether Mrs. Stephens had no other Patients in the fame Condition in Bow-Lane? If this be true, and nothing is more probable, fince the cauftic Salts are fo abundant in the Medicines, this direful Effect must happen to fome of those who take them, when they are determined to the Pores of the Cutis, as well as to the other Emunctories.

Where a Perfon has the Stone, and Putridity. is of a putrid Habit of Body, will not these alkaline Medicines increase the Putrifaction, and cause a miserable Catastrophe?

Are not Ulcers daily increased in Ulcers increas-Kidneys, Bladder, Lungs, Liver, or <sup>ed.</sup> any other internal Part by the Use of those Medicines?

I

Should

#### Animadversions on

Profluv. Jan- Should these Medicines be given to gninis. Women fubject to a Profluvium fanguinis, would not the Mifchief be increafed ?

Schirrus, Cancer Uteri.

In Palfies.

and Body.

Flood

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In a Schirrus, or Cancer Uteri which have Symptons that emulate those of the Stone, will the Medicines not haften a miferable Death?

Is it rational Practice to give cauflic Medicines to a Man in a Palfy, as in the Cafe of Symonds? or to an afthmatical Patient, as to Wood?

Savell'd Legs Mr. Kettle had his Body and Legs fwell'd by the Medicines, which ceafed upon his leaving them off. 'He took ' the Medicines about a Year, but not ' conftantly, nor always in full Quanti-' ty; and fays, Mrs. Stephens's Medi-' cines have done me no Harm, only ' occafioned a Swelling in my Body and ' Legs; and fince I left off taking them, ' the Swelling is gone off, and I am in ' the fame State I was in before.'

Mr.

Mr. Stanton died fuddenly during the Sudden Death. use of the Medicines; and Mr. Carteret of an Apoplexy, fometime after he thought himfelf cured.

The Pains they fuffer, who take the Pains caufed Medicines are exceeding great, as ap- by the Medipears by Mr. Bolton's Cafe, and many others; and the Quantity of mucous Matter torn away by their Acrimony, cannot but be of the utmost Danger. Dr. Kirkpatrick in his Letters fays, ' That he voided much Mucus; that ' the pellucid Mucus gives the greatest · Pain : that he imagines this to be no ' more than the Mucus fecreted from ' the Glands of the Bladder and Ure-' thra contrived by provident Nature to ' fheath the acrimonious Salts of the · Urine, that they might not offend ' the tender Parts, thro' which they ' pafs; and that the alkaline medica-· ted Urine is fo very deterfive, as to ' wear off and fcour away this Mucus, · leaving the Bladder and Urethra ex-· ceeding bare.

#### Animadver hons on

the Tone of the Bladder.

Destruction of If Nature's Intent (in placing Glands in the Bladder, or any other Membranes of the Body) was to fecrete a Juice for guarding their Coats from any thing Acrimonious; whatever is capable of abrading that Guard, and leaving the Glands and Mouths of the Veffels bare, must be destructive to the Constitution of the Part ; and a Continuation of this Abrafion for a long time, must be still worfe and worfe, and at last render the Part infenfible, by deftroying its Tone : Mr. Gardiner's Bladder appeared entirely relaxed.

> Now when a Perfon dies of a Difeafe not immediately affecting the Bladder, it is naturally in a contracted State, and fo are those of the Beafts commonly killed by Butchers. This I have often observed both in human Bodies, and Brutes; the Reafon may not be difagreeable here.

How accounted The natural State of mulcular Fifor. bres is to be in ftrong Tenfion, infomuch

much that if there happens a Solution of their Continuity, the divided Fibres are ftrongly retracted from each other. Now as the Fibres of the Detrufor Muscle arise on the fore Part from the prostate Gland, and spreading over the Bottom of the Bladder, terminate in the fame under the Vesiculæ Seminales; it has no Attachment as other Mufcles have to keep them tenfe, and therefore they are contracted in their natural State; having no other Caufe for their Extension, but the gradual Repletion of the Bladder by the Increase of Urine from the Ureters; their Contraction in order to expell the Urine being voluntary, and fpontaneous in their State of Reft.

For this Reafon, I have had a good deal of Trouble to inflate a human Bladder, which could not be done but by flow Degrees; and thus have I feen Boys rowling and preffing the Bladders of Sheep and Oxen, and inflating them by turns, in order to increafe their Diftenfion: Hence we fee, in a natural emp-K ty

#### Animadverfions on

ty State the Bladder is contracted and fhrunk up, and in a preternatural or morbid State it may become more rigid, or more relax'd, according to the Differences of its being affected by different Caufes.

Pains increased.

Mrs. Matthews took the Medicines ten Weeks, and had her Pains increas'd, was forced to leave them off, having the fame Complaints remain, as before the took them.

Colick.

fwelled.

The Medicines brought on the Colick on Mr. Daubuz.

Mr. Windfor's Body and Legs fwel-Body and Legs led very much, and he was exceeding Lethargic and otherwife indifpofed after taking the Medicines for fome time, which made him lay them afide.

In a Word, I believe it must be al-Different other low'd, thefe Medicines fhould not be Diseales, in which the Meexhibited to Perfons fubject to vomitdicines ought ing or spitting of Blood, Fluor albus, not to be adminiflered. Prolapsus Uteri, Ani, or Ruptures of any 2

Lithontriptic Medicines, &c. any Kind, Confumption, Afthma, Dyfentery, Hæmorrhoids, Colics of anyKind, or any Inflammatory Difeafes, or to those subject to Lethargy or comatous Diforders.

Hence it appears that thefe, like all A rational Ufe other Medicines, ought to be fub- of them best. ject to a rational and judicious Administration ; and it is not deny'd but they may do fervice in fome gravelly Complaints; nor is it to be doubted, but their Abuse may be of the most dangerous Confequence, as well as that of any other acrimonious Drug whatfoever: And becaufe I am willing to fhew, that Dr. Hartley was once of this Opinion, I have here fet down his Obfervation upon the Cafe of Mr. Lamplugh, who had his Stomach offended very much, and his Pain encreafed by the Medicines; his Cafe was uncertain, not being opened when he died.

That the Medicines were hurtful Dr. Hartley's
in this Cafe I think very probable, this former Opinion
being his own Judgment, and that
of those about him. But as it is not
K 2 'certain

#### Animadversions on

' certain what his Cafe was, one can ' draw no certain Conclusion from it, " to prove the general Hurtfulnefs of " Mrs. Stephens's Medicines in the Stone ' and Gravel. And if we fhould fup-' pose that Mr. Lamplugh had a Stone ' in the Kidneys, yet he might have ' also some Particularity in his Cafe or · Conftitution, which made the Medicines in the Manner and Dofe di-' rected, hurtful to him. Just as there ' are particular Perfons, who either ' cannot take Bark, Mercury, and O-' pium at all, or only in certain Dofes \* and Preparations. And indeed it is · much to be lamented, that Mrs. Ste-' phens's Medicines are not known to · Phyficians, that fo they might be ad-' justed by them to the Circumstan-" ces of each Patient.

Now they are known, fuch Strefs is laid upon taking the full Dofe regularly and inceffantly, in the Form which is daily exhibited to every one that can purchafe them, that there feems but little Encouragement to make any Altera-

teration in them with an Intent to diffolve the Stone. And accordingly there are but few Examples of Phyficians attempting to adjust them to the different Circumstances of any Patient; for that was done long enough ago, as may be feen in the different Forms through which the Egg-shells, and other Ingredients in Mrs. Stephens's Medicines have pass'd: but I cannot find that any Phyfician ever pronounced them Lithontripticum ad Calculos tam in Renibus, quam in Vesica folvendos efficax, 'tis added, bic in Anglia nuper inventum, but Dr. Hartley.

The Medicines indeed were not lately, but long ago found out, and every Effect they could produce, which we shall now proceed to prove : It must be only their *fafe* and *effectual diffolving* Power that is discover'd; which turns out as capricious and slippery as *Crude Mercury* between one's Fingers; no fooner found than lost again.

K3 QUE-

#### Animadver fions on

월동생동 등은 응한 응한 영웅 영웅

# QUESTION IV.

Were these Medicines never used before for any of the Same Intentions?

Mrs. Stephens faid to be the Inventre/s of

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"H O' Mrs. Stephens is called \* Inventrix borum Remediorum, the these Medicines Inventress of these Medicines ; and tho' I think there is a ftrong Infinuation; of her having by degrees found out the Calcination of the Egg-fhells, and the Addition of Soap to the Powders, in the following Words ; yet it shall prefently appear, that every Ingredient made ufe of in the Composition of them, has been used by very early Physicians; and has been commonly practifed and recommended by fo many fince Avicenna's Time, that to recite a Hiftory of them

> \* Differtatio de Lithon. p. 5, 6. per Dr. Hartley. + Vide Supplement to the View of Pref. Evid.

them would take up more Room than the Defign of this short Treatife can admit of. It is faid, ' About twenty · Years ago, the accidentally met with ' a Receipt for the Stone, confifting ' of Egg-shells dried in an Oven and ' powder'd ; which fhe administered to ' feveral Perfons. After fome Trials ' made with this, fhe began to burn ' the Egg-shells, and burnt them some-' times to Blackness only; fometimes ' till this Blackness was chang'd into a ' grey Colour, which approached fo ' much the nearer to a perfect White-' nefs, as they were continued longer ' in the Fire, or its Heat more intenfe. ' Her Method at this Time was, to ' give of the Powder of Egg fhells thus · burnt, black or grey, as much as ' would lie upon a Shilling, three times ' a Day; and it appeared to her that ' this Powder was more efficacious in ' proportion as the Egg-fhells were more ' burnt : but finding that it caufed often ' a great Coftiveness, she added a small · Quantity of Soap occasionally to each · Dofe, with a View both to prevent this Incon-K 4

# Animadversions on

Inconvenience, and alfo to forward the
Diffolution of the Stone; and thus fhe
continued giving the burnt Egg-fhells
with a fmall Quantity of Soap for
feveral Years, curing gravelly Complaints thereby, and fometimes diffolving Stones in the Bladder, & Upon this fhe gave the Powder and Soap
in ftill greater Quantities, and found
them attended with proportionably
greater Succefs.

All People are not vers'd in the Hiftory of the *Materia Medica*; fuch as are not, may be eafily perfuaded to believe her the Inventrefs of thefe Medicines from the above Account; for fhe is here introduced as one rationally improving them and increasing their Virtues by the Calcination of the Shells, and the Addition of Soap; as if neither were ever thought of before. It is really furprifing that fuch a Notion could be introduced and credited.

At the fame Rate one might (in turning over Authors) find many Histories

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of

of Stones diffolved in the Bladder, by other Medicines, as much commended as thefe, and no Doubt altogether as efficacious; fome of which #Lazar. Riverius has collected, and a vaft Number collected by Burnet \*; any of which, as they are fcarce to be met with nowa-days in common Practice, might be made Secrets of, and their Virtues cry'd up in the fame Manner. However, that these should have gained fo much upon the Faith of the World is the more ftrange, as they have not ceafed to be prefcribed by moft Authors all along, and even are to be found in our latest Pharmacopæia's.

In order to make this plain, I will first fet down what Mrs. Stephens's Medicines confist of, and then shew several Formulæ from Authors of the same Ingredients used always for the same Intentions.

Her Medicines are a Powder, a Decoction, and Pills.

The

- ‡ Praxeos, l. 4. c. 1.
- \* Thefaur. Medicinz.

#### Animadverfions on

The Ingredients of Mrs. Stephens's Medicines. The Powder confifts of Egg-fhells and Snails, both calcin'd, fix Parts of the former to one of the latter.

The Decoction is made, by boiling a Ball made of Soap, Swines Creffes burnt to a Blacknefs, and Honey, with green Camomile, Camomile-flowers, fweet Fennel, Parfley and Burdock-leaves, of each one Ounce, in Water.

The Pills are made of equal Quantities of Snails calcin'd, wild Carrotfeeds, Burdock-feeds, Afhen-keys, Hips and Haws, all burnt to a Blacknefs; a large Spoonful of this to four Ounces of *Alicant* Soap, beaten with Honey to bring it to a Confiftence, is the Mafs for the Pills.

Avicenna's Electuary of Afbes, or calcin'd Simples.

As to the Powder, many of the Ancients prefcribed calcin'd Powders for the Stone, by which Operation they thought their diuretic Quality was increafed; \* Avicenna has an Electuary of cal-

\* Et de lis quæ funt fortia, eft Cinis Ovorum Gallinæ, poftquam evacuata funt à Pullis. R.

calcin'd Ingredients, amongst which are Egg-fhells fo prepared, and of which he makes this particular Remark. 'The ' Afhes of Egg-shells after the Chickens ' are hatch'd are the strongest.'

The following is the Electuary :

Take of calcin'd (or Afhes of)
Glafs, of Scorpions Afhes, of the Roots
of Nabathean Coleworts, of a Hare,
of Sponge-ftone, of Goats Blood dry'd
and powder'd, the Afhes of Eggfhells which have been forfaken by
the Chickens, and of the Stone called
Lapis Judaicus, &c. of each equal
Parts; and of Parfley, wild Carrots,
Gum-Arabic, and Marfh-mallow-Seeds;

B. Cineris Vitri, & cineris Scorpionum, & cineris radicum caulium Nabati, & cineris leporis, & lapidis fpongiæ, & fanguinis Hirci, exficcati & contriti, & cineris corticum Ovi, de quo Pullus egreffus eft, & Lapidis Judaici, &c. partes equales ; & Petrofelini, Dauci, Pulegii, Gummi Arabici, & feminis Altheæ; conficiatur cum Melle, &c. et hoc eft conveniens ei q. in Vefica eft. Avic. lib. iii. Fen. xviii. Trac. i. c. xix.

# Animadverfions on

feeds: Make it up with Honey, and this is convenient for whatever is in the Bladder.

Calcin'd Egg-shells have been handed down for Ages as Specifics for the Stone, which is to be seen in many Authors; a few will sufficiently shew it, wherefore take the following Recipe's.

*‡Fernelius* fays: Some Medicines rub off and leffen the Surfaces of *Calculi*, fuch as, burnt Glafs, *Egg-fhells*, *&c*.

# \* Riverius has the following Recipe.

Take the Ashes of burnt Egg-shells from half a Drachm to one Drachm; give in white Wine, it powerfully expels the Stone sticking in the urinary Passes. ‡ Fuller

‡ Nonnulla etiam, afperitate fua, calculi fummam Faciem abstergunt & attritu comminuunt, ut, Vitrum nstum, Ovorum testæ, &c.

Math. Med. L. v. c. xxv. \* B. Cineris cort. ovor. adultor. an. 3fs. ad 3i. exhibitus cum vino albo potenter expellit calculum, in urinæ meatibus hærentem.

Prax. lib. xiv. c. 1. de Calcul. Renum.

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<sup>‡</sup> Fuller has a number of Receipts for the fame Intentions, composed both of Egg-fhells and Soap in different Forms for both external as well as internal Application.

In his Emulfio Diuretica, the Testæ Ovorum supra Porphyritim alchoalisator. are an Ingredient amongst other Diureticks.

His Pillul. Diureticæ, Diuretic Pills, have for their Bafis, calcin'd Egg-shells half a Dram, added to a Scruple of Camphire, and half a Scruple of Cantharides.

His Pilul. Teftaceæ, Teftaceous Pills, are thus: 'Take fresh calcin'd Egg-'*fhells* one Dram, Cream of Tartar ' and Sal Prunellæ, of each eighteen 'Grains, Salt of Tartar and Salt of Am-' ber, of each twelve Grains, Oil of ' Anise-feed, three Drops. They power-' fully promote Urine. His

1 Pharmac. Extemp. edit. 5. Lond. MDCCXIV. 1200:
#### Animadverfions on

#### His Pulvis Diureticus, Diuretic Powder.

<sup>c</sup> Take of the Lapis Prunell. one <sup>c</sup> Dram; Egg-fhells calcin'd, two Scru-<sup>c</sup> ples; Oil of Amber, one Scruple; <sup>c</sup> white Sugar, two Drams; mix them.

He refers the Reader to the Virtues of his Diuretic Julep, where he fays of them both : It diffolves and expells tartarious *Salts*, and collected *Mucus* or Slime; it cools, opens, and cleanfes the Reins and Ureters.

The Egg-shells are also the Basis of his Compound Powder of Filipendula.

• Take of *Filipendula* and *Anife-*• *feeds*, each one Dram; *Egg-fhells*, two • Drams; make a Powder of the whole.

All these plainly shew the Egg-shells to have been constantly in extemporaneous Prescription both calcin'd, and only levigated to a fine Powder: We shall now shew that Soap was as frequently Lithontriptic Medicines, &c. quently used extemporaneously for the fame Intentions, from this last Author.

#### The Nephritic Plaster.

'Take Opium in Powder two Drams;
'foft Soap, an Ounce; Oil of Juniper,
'half a Dram; make a Plafter and
'lay it to the Loins.

Castile Soap is a principal Ingredient in his Enema faponacea, and also the wild Carrot Seeds.

#### The Soap Clyfter.

Take Mallow-Leaves, golden Rod;
of each one Handful; Juniper Berries, Bay Berries, wild *Carrot Seeds*,
and Parfly Seeds, of each two Drams;
boil them in a fufficient Quantity of
Water to ftrain off twelve Ounces;
diffolve in it half an Ounce of *Caftile*Soap, an Ounce of Oil of Camomile,
half an Ounce of Oil of Anife-feeds,
and two Ounces of Syrup of Violets.

He fays, it lubricates the Urinary Paffages, expells Gravel, and therefore it it is contrived for fuch as have calculous Complaints, being found of great ufe.

Animadverhons on .

His Pilulæ Ictericæ, tho' affign'd only to the use of People in the Jaundice, yet as it is given by way of Deobstruent, we shall therefore insert it; to shew a Difference in its Medication.

Take Cream of Tartar and Cochineal, of each forty-five Grains;
Venice Soap, two Drams; make them
up into fifty-four Pills.

But this Author has the Soap with other Ingredients as a Nephritic, which he calls his *Pilulæ Nephriticæ*, Nephritic Pills.

Take Powder of prepared Millipedes, crude Sal Armoniac, and Venice
Soap, of each two Drams; Gum
Hed. one Dram and a half; SaffronOil of Juniper, fixteen Drops; and
as much as is fufficient of Venice Turpentine to make up the Mafs. He
fays, thefe were much ufed by a certain

## Lithontriptic Medicines.

tain Practitioner, and greatly efteemed for promoting Urine, and the Dif-' charge of Slime and Gravel.

#### Another Form of Pills, is his Pilulæ smegmaticæ.

' Take Venice Soap, two Drams; · Oil of Anife-feed, eight Drops ; make ' them up into twenty-four Pills.

They purge the Urinary Paffages, and are good against the Dysury and Jaundice.

This Recipe was approved of, and brought in amongst the Formulæ of the Pharmacopæia Pauperum for the use of Hofpitals, with fome Amendment, by the learned Compilers of that Book, thus :

' Take Venice Soap, one Ounce; · Oil of Anife-feeds, thirty two Drops ; ' beat them in a Mass, and make ten · Pills out of every Dram, to be roll'd ' up in the Powder of Crabs-Eyes. L

Thefe

#### Animadversions on

Thefe are very Efficacious in all Obftructions of the Urinary Paffages; and alfo fo very Detergent, as to be of great Service in any Foulnefs of the Vifcera, fo that they are not only of good Service in the Stone and Gravel, but in the Jaundice and Afthma's, in the moft obftinate Cafes of which they are ordered with the greateft Certainty of Succefs: They are to be taken from three to five, two or three times a Day; the Patient ufing proper Diluters at the fame Time.

We might add many more, but thefe may fuffice for our Purpofe here. Now fince we prove Mrs. Stephens is not the Inventrix horum Remediorum, it may be, perhaps, pretended that fhe fhew'd the World how to ufe Soap in larger Quantities than was attempted before. To this we fhall anfwer, that even that is not new; for Soap was given in Scotland to People afflicted with Complaints of the Kidneys and Bladder, in as large Quantities as fhe has given it, long

#### Lithontriptic Medicines, &c.

long before hers were made publick. I have been inform'd of this by one Mr. Hunter a Surgeon who was taking the learn'd Professor Monro's Course of Operations, and that when he was treating of Lithotomy, he made a long Harangue in praise of Soap; upon which he was then making Experiments at Edinburgh. This young Gentleman, upon his Return to Glascow, gave the Soap to one troubled with the Stone; made up into Pills with Syr. de Althea, to the Quantity of above an Ounce in a Day; which he purfued for a long Time; and that after the Publication of those Medicines called Mrs. Stephens's, this Patient as well as feveral others had attempted taking them; but not being able to endure the Pain they fuffer'd from them, were obliged to return to the Soap made up as before.

As to the other Ingredients, as the Hips, Haws, wild Carrot-feeds, Burdock-feeds, and Afken Keys, almost all Botanic Writers speak of them as L 2 Diu-

## Animadversions on

Diuretics; however, the Opinions of two or three Compilers will prove it.

Of the Haws, Mr. Ray in his \*Catalogus Plantarum Angliæ, &c. fays, 'The diftilled Water, and the dryed 'Powder, are generally faid to be of Service in calculous Diforders.

Mr. Dale + in his Pharmacologia refers, for thefe, to the Virtues of the Seeds of the Medlar-Tree : where he fays, 'They are greatly commended for ' breaking and expelling the Stone. And Quincy, in his Difpenfatory, fays, ' Tho' there is but little Ufe made of ' them in Medicine, yet they have ob-' tained a Name for being very Diu-' retic, and powerful Expellers of the ' Stone and Gravel.' And their Flowers are an Ingredient in Dr. Radcliff's Nephritick Water.

As

\*Verum tum aqua diftillata, tum ficcati pulvis calculofis prodeffe traditur magno confenfu.

† Semina commendantur fummopere ad calculum atterendum, & expellendum. Lithontriptic Medicines, &c.

As to the *Hips*, they are mentioned alfo by  $\ddagger Dale$  (who copied the Words of *Ray*) as having a Lithontriptic Virtue.

The wild Carrot Seeds are praifed for the fame Ufe by Ray +, given in a medicated Drink, for which he quotes Charlton in lib. de Lithiafi.

These Seeds have been of this Class in the most early Writers. Avicenna, as we have faid before, has them in his Asses Electuary; and they were so esteem'd, as to have a particular Recipe form'd of them, and bearing their Name, in Fuller's Pharmacopæia Extemporanea, called,

Cerevifia de Dauco, \*. Take wild Carrot Seeds fix Ounces; L 3 Raifins

‡ Fructus vi Lithontriptica maximoperè commendantur, in qua tamen excellunt exempti arilli.

+ Semen Dauci in Cerevifia leptomera infuíum, & bibitum, ad stranguriam, calculum renum, & vesicæ, miris laudibus efferent e modernis.

\* B. Sem. Dauci Sylv. Zvi. Pafful. Zxii. f. facc. pro cong. iv.

Renes & ureteres emungit; arenulas pellit; & calculi generationem præcavet,

Animadversions on

Raifins twelve Ounces; put them into a Bagg for four Gallons of Ale.

They cleanfe the Ureters, and expel Gravel, preventing the Generation of fresh Calculi.

The Afhen Keys, or Seeds, are commended by Schroder, and feveral other Authors, as having the fame Virtues. And as to the Burdock-feeds, Dale has thefe \* Words concerning them, ' This ' Seed is counted a remarkable Lithon-' triptic.

And, *lastly*, the Snails-shells are an Ingredient in the Pulvis contra Calculum of Quincy, which besides confists of Crabs-Eyes and Pearls prepared, Millipedes, and Salt of Amber.

Thus I have given fufficient Teftimony, that not one Ingredient of these Medicines is of Mrs. Stephens's Invention,

\* Infigne cenfetur femen, Lithontripticum.

## Lithontriptic Medicines, &c.

tion, but that they have been handed down, and ordered for gravelly Complaints of bothKidneysand BladderTime out of Mind : We may therefore conclude, that they have, in fome of the particular Prefcriptions of Phyficians, been collected into the Receipt-books of Families, and fo dropt into this Gentlewoman's Hands. However, to fhew that this is not altogether a Surmife, I prefent the Reader with a few Receipts for the Stone, of very near Relation to those of Mrs. Stephens, from two Receipt Books; the first is called Natura Exenterata; or, Näture unbowelled: Printed in London 1655. to which is prefixed a Print with this Infcription under it.

> The most Illustrious and most Excellent Lady Alathea Talbot, &c. Countess of Arundel and Surrey, and the first Countess of England,

And the other is called, A Choice Manual, or Rare and Select Secrets in Phyfick and Surgery, collected and L 4. practifed

# Animadverfions on

practifed by the Right Honourable the Countefs of Kent, late deceafed. The 9th Edition, printed at London, 1657.

In the former of these we have the following Receipts.

#### Pag. 127. For the Stone in the Reins or Bladder.

1. Take the Shell of an Egg where a Chicken hath been hatched, beaten to Powder; this drunk with White Wine, breaketh the Stone in both Places +.

## Pag. 281. For the Stone.

2. Take of Penny-Royal and Mallows, of each a Handful, Anife-feeds a Penyworth, boil them in a Quart of white Wine, till it come to a Pint, and put to it Half an Egg *fhell* powdered, a little *Caftile* Soap, with three or four Corns of Pepper in grofs, of Nutmeg and Sugar two Spoonfuls, and put it into your Mouth, and drink the Wine in the Morning, The Party that made this

† This is from Avicenn.

Lithontriptic Medicines, &c. this Note did avoid above four hundred Stones in one Fortnight.

Probatum eft.

Pag. 324. For the Stone. 3. Take Snails, and lay the Mouths downward upon a Tile-Sheard, which lyeth upon Coals, take out the Snails when they are well dryed, and beat the Shells to Powder, drink it in white Wine, and, about two Hours after, fhave fome white Castile Soap into warm white Wine, whereof will arife a Froth, which will fall again to the Bottom of the Cup, then shake it together, and it will rife again, and drink it prefently. The Powder maketh it to break, and the Drink with Soap maketh it to steps.

#### 4. Dr. Smith's Medicine for stopping of the Urine, and to assure the extreme Heat thereof.

Take a Pint of Rhenish Wine, and with the Yolks of two new-laid Eggs make a Caudle, relish it with Sugar and Nutmeg to your best Content, then diffolve therein Half an Ounce of white *Castile*,

#### Animadversions on

Caftile Soap, and drink that Caudle at three Draughts warm, in the Morning one, when you go to Bed the fecond, the next Morning the third; by this you shall find great Ease, both of the Stopping and Pain, and great Comfort, without any Loathfomness at all.

#### 5. For the stopping of the Urine, either by the Stone or Strangury.

Make clear Poffet-Ale with White Wine or Ale, feethe in the Poffet-Ale a great Handful of Parfley fhread, and as much Pellitory of the Wall Ihread, and when it is fodden, fcrape in a Quantity of Castile Soap, but let it not come on the Fire after the Soap is in; flir it together, and give it the Patient to drink when he is ftopped, a Pint at a Time as warm as he can drink it, and anoint the Place grieved before a Fire with the Oil of Rofes, or Oil of Lilies; and for Want of thefe, take Sallad Oil, dip a Cloth in the fame Oil, and lay it warm to the Place grieved, and walk after it in your Chamber, if you can, and

Lithontriptic Medicines, &c. and it will help in fhort Space, GOD willing.

Put in an Herb called Grommel, if you can get it.

You may use the aforefaid Herbs in a thin Ale-bery, and put in a Piece of Butter after it is fodden, and let not the Drink come on the Fire after the Butter or Soap is in it, for then it is binding; if you drink a *fmall* Draught, it will not do fo much good as a great Draught.

#### Pag. 341. A Receipt for the stopping of the Urine.

Take three Pints of Hawfes, and pick the Stalks and the Tops, take Half a Pint of red Dog-berries, and Half a Pint of Cherry-ftones, take a Dozen of Medlars, bruife all these together, and being bruifed, put them into eight Pints of white Wine, then stop up all these together in an earthen Pot, and let them stand a Day and a Night, and every eight Hours stir them, and then stop them

# Animadverfions on, &c.

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them up again, and put it into an ordinary Still, and ftill that; this must be done about *Michaelmas* Time, and when the Party hath Need, let her take four Spoonfuls at a Time.

From the latter, viz. The Choice Manual, Pag. 134.

## A Powder for the Stone.

Take Haws and Hips, of each a good Handful, Afhen Keys Half a Handful, three or four Acorns, the Shells of three new-laid Eggs, Gromwel Seeds, Parfley Seeds, of each half an Ounce, make all these into a fine Powder, and put thereto two Ounces of Sugar-candy beaten something small; take a Six-peny Weight of this Powder at a time in the Morning fasting, and drink not after it one Hour.

AN



# A C O U N T

# OF THE DISSECTIONS

#### OF

Some Bodies of Perfons who died after the Use of Mrs. STEPHENS's Medicines.

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# [ 159 ]

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## CASE I.

The Cafe of Mr. Payne\*, Butler to Mr. Baynes in Southampton-Row, near Bloomsburyfquare.

• HE was fubject to Pains in his Back, with Vomitings, for feveral Years; and had alfo great Pain in making Water, with a fudden Stoppage, and violent Forcings to go to Stool; made Bloody Water upon riding or walking much, for four Years. Took Mrs. Stephens's Medicines for fifteen Months, upon the ufe of which his Water became foul at the Time of making, and let fall a heavy Sediment, which dry'd into a hard Substance, and had a flimy fetid

\* A View of the prefent Evidence, &c. p. 9.

fetid Matter in it. He voided feveral fmall Pieces of Stone in a foft
State, and once a Stone as big as the
End of his little Finger, (after having had violent Pains in his Back the
preceding Night) which was fo foft
as to receive an Imprefilion from the
Fingers, in being taken up. He has
now been perfectly well for near
three Years, and is in the fixty-fixth
Year of his Age. The large Stone
became hard, and much lefs when it
was dry'd.

<sup>•</sup> Here again the Medicines have been <sup>•</sup> of eminent Service, and in a Way <sup>•</sup> which does not at all favour a Stone-<sup>•</sup> generating Quality in the Urine, but <sup>•</sup> the Contrary. A Stone-generating <sup>•</sup> Urine is not likely to bring a Stone <sup>•</sup> from the Kidneys, or Bladder, but <sup>•</sup> rather to detain it; nor is it pro-<sup>•</sup> bable that Mr. *Payne* after having <sup>•</sup> had the Symptoms of the Stone for <sup>•</sup> four Years, fhould be firft freed from <sup>•</sup> thefe, and then continue fo for near <sup>•</sup> three Years, upon this Suppofition. <sup>•</sup> And

#### · of Mr. PAYNE.

<sup>4</sup> And the long time for which he <sup>4</sup> took the Medicines, fhews that they <sup>4</sup> who have taken them for a lefs, can-<sup>4</sup> not certainly conclude against the Ef-<sup>4</sup> ficacy of the Medicines,' notwith-<sup>4</sup> flanding that they be not cured.

#### REMARKS.

Before we take any Notice of the Commentator's Senfe of this Cafe, we must observe that it is of the higheft Confequence in cases of this Nature, to have Accounts as well faithfully as minutely related : especially as all these Cases seem to be kinds of Invitations to the Publick, to come and feast plentifully upon these Soap Entertainments ; and are the Facts upon which the Faith of the People is to be grounded.

There is, indeed, no Doubt to be made, but he took the Medicines fifteen Months; that a Sediment fell to the Bottom, which dry'd into a Mafs; and that a flimy fetid Matter came away. As M to 16r

to the first, it would make more in favour of the Medicines if he had not taken them fo long, fince here are Stones, found in his Bladder when he died. The fecond is no great Wonder, there being Matter enough in the Medicines for a Sediment that would grow hard; and as to the laft, he might have had an Ulcer in his Kidneys; but what is all this to the Matter in Hand, or how do these Things prove a Diffolution of the Stones? It may be anfwer'd : here were pieces of Stones in a foft State, and an entire folid Stone as big as the End of his little Finger voided. I confess this does not appear fo clear to me as could be wish'd; for with regard to the Pieces, if they were foft, I cannot conceive how they could be voided in the Form of Pieces; for the Preffure of the Urethra ought to affect them, fo as to fpoil any particular Shape in them, that might entitle them to be thought pieces in that State. And as to the Stone, fince there is but one mentioned in this Hiftory, I am inclined to believe, from what a Perfon of Credit has declared

#### · of Mr. PAYNE.

declared in a very public Manner, that the Doctor was not rightly inform'd concerning the Stone : for one Day when Mrs. Stephens vifited Mr. Payne, who was in Bed, this Perfon fays, he came into the Room, and had not been long there, before Mr. Payne reach'd out a Bason from under the Bed-clothes, in which he had made Water: The Perfon took the Bason from him, and found a common moderate Quantity of Urine, clean and clear, with one Stone in the Bottom of the Veffel. Before he declared any thing concerning the Stone, he ask'd Mr. Payne these Queflions. ' Had you Pain in making this ' Water ? Did it stop fuddenly in your · full Stream ? What Senfation did you · feel when you made it ?' He was anfwered by Mr. Payne, that he felt nothing, and, had not made Water more eafily and freely in his Life. Upon which he then told him, and Mrs. Stephens, there was a Stone, which he was amazed the Man should not have felt; shewed his Surprise, and went away. He fays the Stone was hard, and of a lightifh M 2

lightifh Brown Colour. Now if this Stone differed in Colour and Confiftence from what have been found in his Bladder when he dy'd, and as these so found differ'd not fpecifically from each other. who can help thinking the Doctor was not rightly inform'd of the Cafe; who has no doubt been candid in his Account of every thing within his own Knowledge. This feemed to be far from a Stone in a foft State, yielding to the preffure of the Fingers when taken up; and indeed one fo hard and large muft have been felt in an Urethra of the greatest Diameter, except it was miraculoufly discharged.

It is faid, he remained perfectly well for near three Years. This makes nothing in Favour of the Medicines, becaufe, as we have already obferved, there are many Inflances of Intervals of Eafe for feveral Years, between the Fits of the Stone, without the ufe of any Medicines; becaufe they find unaccountable Receptacles to lie in, and give no more pain till they fall again upon the

#### of Mr. PAYNE.

the Orifice. If Mr. *Payne*'s Bladder appeared much relaxed upon opening his Body, it is no wonder, becaufe the Medicines, taken conftantly fifteen Months, were very capable of producing that Effect; and confequently no great Wonder he had Eafe for fome time at laft.

We cannot pass over the last Affertion of the Commentator, in his Remarks upon this Cafe; that ' the long ' Time for which he took the Medi-' cines, fhews, that they who have taken ' them for a lefs, cannot certainly con-· clude against the Effiicacy of the Me-· dicines, notwithstanding they be not ' cured.' When this Cafe was publifhed, the Man was alive; then indeed there was fome Pretence for faying to any other Perfon taking the Medicines, You cannot expect to be cured fooner than Mr. Payne; being (as a Country Gentleman, a Favourer of the Medicines called him) a living Witnefs of their Virtues. Indeed fo were feveral others, as Carteret, Bolton, Gardiner, M 3 Stc.

&c. altogether as refponfible; but however effectual the Teftimony of living Perfons may be in the Eye of the Law, yet in our Debate, none of these were qualified to bear Witness till they were dead. This is a kind of *Paradox*, but a great Truth, and an Exception to that old Proverb; *Dead Men tell no Tales*: For here they are the greatest Tell-tales.



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## of R. SKRINE, E/q;

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CHIER DECEMBER OF DECK

## CASE II.

## R. SKRINE, Efq;†

(I had the following Account from his own Mouth, June 7, 1737. which I wrote down immediately after I left him.)

<sup>4</sup> H AD been afflicted with the Stone for nine Years. Such a Stoppage of Urine for a Year, that he was obliged to pafs a leaden Probe every Day. Thought that he felt with this two fmall Stones that ftopped the Urine at the Neck of the Bladder, and alfo a large one which he could not move. Had ulcerous ftinking Matter in his Urine very often ; great Irritation, Pain and Difficulty in making Water ; bloody Water often, and violent

- + See view of the present Evidence.

' violent Forcings to go to Stool. Had ' then taken Mrs. Stephens's Medicines ' constantly for five Months, and voided " a very large Quantity of thick Sedi-' ment, with fome little Stones, which ' he called alfo Grit and Gravel, and " faid that two or three of them were ' as big as Peafe ; and that they were ' all voided in a foft State. He had ' fome Pains in his Sides, which he fup-· pofed owing to the moving of a Stone, but faid he was vaftly better ' than when he began the Medicines, could move about, and had hardly any · Complaints.

<sup>6</sup> I waited upon Mr. Skrine again, <sup>6</sup> September 21, 1737; and then was <sup>6</sup> inform'd by him, that he had a vio-<sup>6</sup> lent Return of his Pain, and Diffi-<sup>6</sup> culty in makingWater about a Month <sup>6</sup> before, with the Difcharge of much <sup>6</sup> Matter; alfo another Return of the <sup>6</sup> fame Kind about a Week before; but <sup>6</sup> was better then. Had likewife had <sup>6</sup> a Rafh, to which he was always fub-<sup>6</sup> ject at that Time of the Year.

· After

## of R. SKRINE, Esq;

After this he continued the Medicines till the beginning of the December following, then left them off, and
died about a Month from that time;
growing, I believe, perpetually worfe;
both whilft he took them, and after
he had left them off.

'His Body was open'd, and four Stones,
each about the Size of a Cheftnut found
in the Bladder; a fmall one in the right
Kidney, and an Ulcer in the left. The
Stone of the Kidney feem'd of a porous fpongy Nature, those of the
Bladder were very compact, and
had a few white Eminencies on
their Surfaces; which were fmooth
and brown every where elfe. One of
them was faw'd through, by which
the external Parts appeared to be of
a lighter Colour than the internal

That Mr.Skrine had an Ulcer in the
left Kidney before he began the Medicines, is probable from the ulcerous
ftink.

· ftinking Matter which he voided. "And whoever confiders all his Com-' plaints, with the Caufes of them, · will think it doubtful whether or no " the Medicines can with Juffice be ' faid to have done him any Harm.' " At first they appeared to be of great · Service, and what happened after-' wards might be owing to the natural ' Progrefs of his Cafe ; and particularly of the Ulcer in his Kidney, or perhaps to fome accidental Cold, Fever, · &c. at leaft in fome Meafure. Whether the Medicines had augmented or diminished the Stones in the Bladder and Kidney, cannot be known ' by their Size when taken out, because ' one cannot tell how big they were ' when he began the Medicines. Neither will the other Circumstances determine this. The white Eminencies ' might either be fresh Incrustations ' from the Stone-generating Urine, or ' Parts of the original Stones much " changed, but not yet brought off by · the Stone-diffolving one, according as " other Evidences shall prove this or that · Quality

## of R. SKRINE, Elg;

· Quality to be in it. And for the fame Reafons that Stones are fome-' times fmooth during their Increase in ' natural Urine, they may be fmooth ' during their Increase or Decrease in ' medicated Urine, which last we may ' conceive to be perform'd by reverf-' ing the Steps of the natural Increase. \* In like manner the brown Colour of · the Surfaces will not conclude against either Opinion; fuppofing either to ' be made probable by the other Cafes; · becaufe brown Stones and Pieces have ' been voided fometimes, tho' rarely, ' in other Cafes. Befides which, it may · be that Mr. Skrine's Difcontinuance · of the Medicines for a Month before ' he died, might fuffer the Stones to ' grow fmooth and brown, by fuffering ' the Urine to return to its natural State. And upon the whole one can-' not do better than to refer this doubt-\* ful Cafe to the clearer Evidence of the others, especially as he voided ' much thick Sediment, with Grit and Gravel in a foft State, as in the others: or if we do suppose that these Stones

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Stones were not either augmented or
diminished, still there can be no certain Conclusion drawn from thence,
with relation to other Stones of a
different Nature.

## REMARKS.

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ERE is the Cafe of a Gentleman who had fuffered a great deal of Torture both from the Stone, and from an Ulcer in the Kidney, which probably he might have had before he took the Remedies. Supposing then that the Ulcer might have been first begun by the Attrition of a Stone, which the ulcerous stinking Matter feem'd to point out; certainly, in that Cafe, the Medicines in puris naturalibus were not calculated for him, being acrimonious enough from their cauftic Quality to increase fuch an Ulceration. But if it should be argued, that it might prove a Cleanfer of the Ulcer; it may be answered, That a perpetual Deterfive would be an odd Application; and would act upon the Ulcer, as a per-2007 2 petual

## of R. SKRINE, E/q;

petual Blifter would upon an Ulcer on the Surface of the Body. Hence it is plain, there was a Contra-indication to the Ufe of it in this Patient.

It appears from the above Account, that he had taken the Medicines five Months, ending June 7. 1737, and continued them till the December following, which is about 12 Months; and it is not denied but that he took them constantly, and therefore the Urine must have constantly been kept in an alkaline State : If it were not fo, the Favourers of these Medicines would fcarce have omitted to use their capital Argument here, of the Neceffity of keeping it inceffantly in that State; and if Ninety-odd Pounds-worth of the Medicines were fufficient to keep it fo, (it appears he made Use of so much) why then were the Stones not diffolved ? for it cannot here be faid, I hope, that the Stones found in him at his Death could have been form'd between the Time of his having left off the Medicines, which was in the Beginning diminified

ginning of *December*, and the Time of his Death, which was on the 29th of the fame Month.

Here is a Rock of Difficulties fo high, as not to be eafily furmounted. In order, however, to footh them a little, the Commentator upon the Cafe concludes, that 'fince at firft the Medicines ' appeared to be of fuch Service to him, ' fure they could not with Juffice be faid ' to have done him any Harm.' Our Argument here is, whether they have done him any Good. I am not fond of adding any more to the above practical Obfervation touching that Point, and fhall therefore proceed.

The Stone and Ulcer were certainly concomitant Caufes of his Death; a Fever might be fymptomatic of either, and therefore it matters not much whether he had Fever or Cold, to the Queftion in Hand, nor whether the Medicines had augmented or diminished the Stones, fince they were found as big as Cheftnuts at his Death : But if they were diminished

#### of R. SKRINE, Efq;

diminished gradually by the Medicines during the Year's taking them, they must have been of an incredible Size at first, to be found fo large after the Action of the Medicines upon them for a Year: And it is no unufual Thing to find compact Stones fmooth, when there are feveral together in the Bladder, being polifhed by rubbing against each other; but when acted upon by the Medicines, it is (I think) not often prefumed throughout the Number of ‡ Cafes, that the Surfaces are fmooth in their Decreafe, but that they are rather eroded or eaten into, as appears by the Cafes of Underwood and Symonds. It is lucky enough, when a Stone found after the Death of the Perfon who has taken Mrs. Stephens's Medicines happens to be ragged, unequal or friable; then the Medicines have indeed acted upon the Stone, and it is produced as an Evidence ; but here is an unlucky Set of Stones found fmooth, and another Manner of Diffolution doubtfully introduced; viz. 'That as Stones are \* fometimes fmooth during their In-· crease

1 In the Pref. Evid.

crease in natural Urine, they may be fmooth during their Increase or Decrease in medicated Urine, which last we may conceive, by reversing the Steps of the natural Increase.

To be fure, it is much better to have form'd some Hypothesis, tho' never so obscure a one, to defend this unkind Cafe, than to fit down tacitely, and let it efcape undreffed, ftaring the World in the Face. The fame Manner of Decreafing might have been attributed to Mr. Gardiner's Stones, which were all fmooth and compact : But whether an eroding Medicine should chuse to act by Way of Colliguation upon the Surfaces of four Stones in one Bladder, and nine or ten in another, fo exactly nice, as not to leave the least Inequality, is a Question that does not feem difficult to decide. Or fuppofing them to have been eroded into Inequalities by the Medicines, is it plaufible that those eroded Parts should be fo neatly filled up, as to hide any Signs of being acted upon, in the Time from leaving off the Medicines, 522342

### of R. SKRINE, E/9;

Medicines, to his Death? I am afraid this is fomething too precife to happen, as well as the fmooth *Decreafe*; for if the Stone-generating Urine had begun to depofite fresh Particles upon such eroded Stones, I believe, as such Particles could not have a Power of placing themselves, they might have as well adhered to the Eminencies, as such into the Hollows to fill them up particularly, and no where elfe; and the Stones must have remained unequal in some Places, notwithstanding the Addition of Particles.

As to the white Eminencies or brown Surfaces, they fignify not much to the Purpofe. It is not deny'd but the Medicines abound with calcarious Matter, and might have deposited those white Particles or Eminences upon their brown Surfaces; nor is the brown Colour any thing rare; for we see those of Mr. *Gardiner* fo too, and all alike.

At laft it is concluded, That 'if we do fuppofe thefe Stones were neither N 'augmented
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' augmented nor diminished, still there ' can be no certain Conclusion drawn from thence, with Relation to other ' Stones of a different Nature.' If the Stones were not increafed, which is the most favourable Conjecture that can be made in this Cafe, then all that can be prefumed is, that the Urine medicated by the Medicines, has not a Stonegenerating Quality, or that they have prevented that Quality in the Urine, and at leaft kept them in the fame State : But, is this all that is promifed for the Medicines? But, on the other Hand, if the Stones were not diminished, may we not certainly conclude, that the Medicines have not perform'd what was expected from them ? And indeed here feems to be a Conceffion of this Conclufion, but with fome Referve, that is, . That there can be no certain Conclu-<sup>e</sup> fion with relation to other Stones of a " different Nature.' As if he had faid. Tho' these Stones could not be diffoly'd by the Medicines, yet others may; but, as this is no more than a conjectural, and a very flender Defence, nothing more

# of R. SKRINE, Esq;

more need be faid to it. As for the Grit, or fmall Stones, Sediment, &c. voided by Mr. Skrine, or any other, it is before granted in general, that any thing of a Diameter finall enough to pass the Ureters, or Urethra, may by a proper Use of Diureticks be evacuated. Examples of this are frequent: I have known an intimate Friend, who, by getting drunk with Sherry, found in his Chamber-pot in the Morning much Gravel and Slime, with feveral Stones as large as Peafe, which gave him great Pain in coming away. The Cafe of the old Woman shews the fame; but this is fo common, as not to be worth taking Notice of here, as making nothing for a diffolving Power in the Me\_ dicines.

Here is a Cafe full of Certainty. It is certain Mr. Skrine took Mrs. Stephens's Medicines for about a Year, and confequently his Urine was kept in an alkaline State. It is certain at his Death Stones were found in his Bladder, &c. and as certain they were in N 2 him

him all along. How then shall any one call it a doubtful Cafe? No, it cannot be doubtful; let us rather with greater Reason reverse the Sentence of the Commentator upon it, where he fays, 'One cannot do better, than to ' refer this doubtful Case to the clearer ' Evidence of others, &c. and fay: One cannot do better than refer other doubtful Cases, to the clearer Evidence of this.



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CASE

# of Mr. THOMAS.

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# CASE III.

# + Of Mr. THOMAS.

• HE had the usual Symptoms of a • Stone in the Bladder, and be-• gan Mrs. Stephens's Medicines in • September last, being about 75 Years • old.

October the 8th, Mr. Hawkins examin'd him, and found a Stone in
the Bladder, which he told Mr. Thomas he believed to be a large one.
Upon first taking the Medicines, Mr.
Thomas's Water deposited much heavy Sediment, which dry'd into a stony
Substance : Sometime after he voided
foft white Scales in great Quantities, with Grit and Slime, which
I faw. His Pains were great at
this Time : They continued; he N 3 'lost

+ View of the prel. Evid.

loft his Appetite, grew feverifh, and
died Jan. 20. His Body was open'd,
and a Stone taken out of the Bladder.
This Stone Dr. Shaw and Mr. Hawkins faw, Jan. 30. I faw Dr. Shaw
that Evening, and took down from
his Mouth the following Words relating to the Appearance of the Stone,

'The Stone was light, white on the ' Outfide, a great Part of it covered ' with a cretaceous Coat, which broke ' off in Flakes with great Eafe, perfect-' ly like to those before voided, as ap-' peared by comparing them. The Stone would, to any indifferent Per-' fon, plainly appear as if acted upon · by a Solvent, fo as to have greatly di-· minished its Bulk ; the inner Part of · · the Stone was redifh, and harder than ' the external, when tried by a Knife, . There were two Bulgings, which rofe ' pretty high above the Stone, and ' which appeared to be lefs acted upon ' by the Solvent than the other Parts. · The Stone was not covered equally with the fame Coat, but what cover'd f one

# of Mr. THOMAS.

• one Part, appeared to have been taken • off in others.

'The next Day I faw Mr. Hawkins,
'and took down from his Mouth the
'following Words relating to the Ap'pearance of the Stone.

'He faw a Stone weighing nearly ' two Ounces, as Mrs. Thomas faid ; " the Surface was of a whitifh Colour, and in Part covered with a Matter ' that had all the Appearance of the foft Shells that had before come away in " Mr. Thomas's Water. This Matter was very foft, and ready to fall off ' and crumble upon the leaft Touch. ' By these Appearances, he fays, that he ' should imagine that the Stone had ' been larger, and that this foft Matter ' feem'd to be ready to fall off in a ' little Time. The Part of the Stone ' not covered with this fcaly Matter, ' appeared, when fcrap'd with a Knife, ' of a rufty Iron Colour, and confiderab-· ly hard.

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'I believe no Body could have feen ' the prodigious Quantities of white 'Scales voided by Mr. Thomas foon ' after he began the Medicines, without ' being immediately reduced to this ' Dilemma, that the Medicines muft ' either diffolve, or generate the Stone, ' Now, furely the last Supposition is as ' difficult to the Imagination, (if that ' be allowed to have any Weight here) s as the first, and in this Cafe, as well ' as others of the like Kind, there feem ' to be fome Circumftances very unfa-' vourable to it ; as that the fame Urine ' must first incrust the Stone, and then ' bring off its own Incrustations in pro-· digious Quantities.'

#### REMARKS.

IN this Cafe a few fhort Obfervations will be fufficient: As first, Because this Man took the Medicines near five Months, and yet when he is dead a Stone is found, it was very reasonable to expect fome Defence of the Efficacy of the

#### of Mr. THOMAS.

the Medicines, rather than it fhould be thought point blank the Man died with a Stone undiffolved in his Bladder. One Argument here of its having acted upon the Stone is, that the heavy Sediment dry'd into a Substance. This is explained elfewhere ; but we shall here fay again, it is no great Wonder this Sediment of his Urine should grow hard, when its Moifture is exhal'd; I believe, all calcarious Matter would do the fame. But whatfoever the Sediment be, we may afk, Whence come the Incruitations of Chamberpots, which are common, if conftantly used, without being kept clean? This cannot certainly demonstrate the Diffolution of a Stone. Urine will, of itself, deposite in Chamber-pots such concreting Matter, which cannot be afcribed to the Efficacy of a Medicine, none being administer'd. No Body therefore will deny that all calcarious Matter will do the fame.

The Commentator fays, he faw them himfelf: No doubt but he did, and 2 firmly

firmly thought them Stone, and would have the World think fo too. The Stone is faid to have been partly covered with a cretaceous Coat which broke off in Flakes, perfectly like those he voided before. This is not at all to be wonder'd at, and is the most convincing Reason to prove, that the Calx of the Medicines produced them all; becaufe the next Coat under that Incrustation was red and hard. And alfo, as to the Bulgings, there appears nothing extraordinary in them; for a Stone perfectly globular is feldom found in the Kidneys or Bladder ; they being of different Forms, according to the fortuitous Combination of the petrific Particles, and the different Preffure or Refiftance of the Bladder.

Is it not natural to believe, that a Stone in the Bladder may be *plastered* over by the calcarious Matter of the Medicines, fince it is allowed fuch vaft Quantities must pass by Urine, and prov'd before that they make a gross Combination in the Bladder? 'T is thus they

# of Mr. THOMAS.

they form Flakes, Bits, &c. which have amufed the World, and encouraged the Sale of fuch vaft Quantities of these excruciating Remedies; and thus every indifferent rational Person must think, whilst others may lay hold of any Thing to favour a Notion of the folvent Power of the Medicines; even Bulgings, Inequalities, and many other Things, which are not only apparent upon every Stone cut out of the Bladder, but also upon every Pebble we meet in the Way.

Every Taker of them has these white Sediments, &c. brown Pieces being acknowledged very rare by Dr. Hartley (See the Case of Mr. Skrine) to have been voided; and if the Quantities were (as the Doctor expresses it) vast Quantities, it is no Wonder if many Coats were wasted by the Medicines; But it is faid before, That only ' what ' covered one Part, appeared to have ' been taken off in others.' I believe it is here rather meant, that only Part of the fame Coat was eroded off, than that

that the Matter was translated from one Part to another. To conclude this Cafe, and to extricate the Doctor out of the Dilemma he thinks the white Flakes produce in this Cafe, whether he thinks the Medicines Stone-generators or no, we must here declare, that our Faith is, They are Sediment-generators, Flake-generators, &c.



f or banarous the I where had ??

71.53

CASE

## of Mr. SMITH.

# CASE IV.

+The Case of Mr. SMITH, near St. Albans.

#### The following Account is taken from a Letter dated Feb. 4, 1738-9.

S the Multitude of unhappy Sufferers, who have been relieved by Mrs. Stephens's Medicines, first induced me to become her Patient, fo the fame prevailed with me to continue fuch for fixteen Months. But it is my Misfortune, that notwithstanding I have punctually perfued the Rules and Medicines which she enjoined me, the fame Symptoms which preceded my Compliance with her Orders, continued during the Use of her Medicines; nor have I found any Benefit from that Length of time, I fo carefuly followed her Prefcriptions.

' I am still attended with great Pains in the Loins, a Weight and Preffure in

+ Vide View of Pref. Ewid.

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in the Bottom of the Belly, Heat of
Urine, frequent Motions to make
Water, and as frequently interrupted;
oftentimes a too frequent Propenfity
to Stool, and upon the leaft unufual
Exercife either of walking or riding,
I am fubject to bloody Water. When
I firft took the Medicines I voided
feveral feeming partial Surfaces of a
Stone.

<sup>6</sup> It appears also by this Gentleman's <sup>6</sup> Letter to Mrs. *Stephens*, that his Wa-<sup>6</sup> ter had often a thick white Sediment, <sup>6</sup> and it is probable that fome part of <sup>6</sup> this might be Stone under an impal-<sup>6</sup> pable Form, provided the diffolving <sup>6</sup> Power of the medicated Urine shall <sup>6</sup> appear from other Evidences. A real <sup>6</sup> Diffolvent must require a different <sup>6</sup> Time in different Cafes, and one can-<sup>6</sup> not tell where to fix the precife Li-<sup>6</sup> mits; fo as to fay, that because a <sup>6</sup> Medicine has not diffolved the Stone <sup>6</sup> entirely within a certain Time, it has <sup>6</sup> therefore had no Effect at all.

. REMARKS.

## of Mr. SMITH.

#### REMARKS.

ERE is a Gentleman who with the greatest Diligence and Exactness took Mrs. Stephens's Medicines for fixteen Months, and found himfelf in as bad a Condition on the laft Day, as he was at first; from whence one would imagine no Man could fay any more of the Medicines by way of Obfervation, than that they did not answer the End in him, for which they were given, and confequently were not to be vindicated here : and yet here is a Vindication attempted, becaufe he feems to have had often a thick white Sediment in his Urine; fome part of which it is prefumed, might be Stone in an impalpable Form. Thefe white Particles are indeed often the beft Handle of the Argument in Favour of the Medicines; 'tis very lucky, the Composition has always fomething to produce; But was the Patient the better for that? His Letter flews he was not; and becaufe here are fixteen Months ufe of them

them in vain, why 'tis faid, one cannot tell where to fix the precife Limits as to the Time in which the Medicines may perform their Work in diffolving a Stone. The fame Excufe would be as availing, if he had taken them feven Years, and was not cured. Sixteen Months are an Apprenticeship to be confin'd to, in taking fuch a Heap of naufeous Stuff, upon an Uncertainty; and tho' all his Griefs and Complaints still remained, yet 'tis prefum'd ' one ' cannot fay, that becaufe a Medicine has " not diffolved the Stone entirely within ' a certain Time, it has therefore had no ' Effect at all.' Indeed the Gentleman was still alive, and therefore one could not peep into his Bladder when thefe Excuses were made; but one would think from feeing him in his difmal Cafe, and hearing his own Declaration of himfelf after he had taken them fo long a Time, that the Effect could not be much in Favour of these Medicines : or if the Effect was more than afterwards appeared, what did it fignify to the poor Gentleman, whofe Diftrefs was ftill

## of Mr. SMITH.

ftill the fame ? and what Right is there for making an Excufe for the Medicines ? But when we find them fo excufed in Mr. Skrine's Cafe, I wonder the lefs at it in Mr. Smith's.

However, the Infignificancy of fuch fuppofed Effect of the Medicines upon the Stone in this Gentleman's Bladder will appear by reading the following Letter from Dr. Cotton of Saint Albans, to Dr. Mead, who was a Witnefs to the opening of Mr. Smith's Body, and who has given a most accurate Account of the State of the Organs of Urine, and of a Stone (weighing only one Scruple less than fix Ounces) found in his Bladder.

#### To Dr. MEAD.

SIR,

Was favoured with yours, and as it is uncertain when I can come to Town, I have fent you the Stone; but the Relations expressing a great Value for it, I must beg the Favour, when you have sufficiently inspected it,

' it, that you'd be fo good to return ' it, directed for me at Mr. Shewel's a

' Diftiller on Snow-Hill.

<sup>6</sup> I have fent you an Abstract of Mr. <sup>6</sup> Smith's Cafe; having only mention-<sup>6</sup> ed what related to his taking Mrs. <sup>6</sup> Stephens's Medicines, and a few ge-<sup>6</sup> neral Circumstances befides, which I <sup>6</sup> imagine to contain all that is necessar-<sup>6</sup> ry for your Purpose; but if a more <sup>6</sup> particular Account is required, I am <sup>6</sup> capable of furnishing you with feve-<sup>6</sup> ral other Occurrences, having taken <sup>6</sup> down Notes of his Case for two or <sup>6</sup> three Years past.

' I am inform'd, that great Pains are taken by the Favourers of Mrs. Stephens's Medicines to fliffe all Circumfances that feem to make againft the Efficacy of her Compositions, particularly I am told, that Mrs. Stephens's Friends deny that the late Mr. *Arthur Gardiner* purfued his Courfe till a little before his Death. I am furprifed that this Report is handed about

## of Mr. SMITH.

\* about with fuch Industry, because I ' cannot imagine that there has been ' the leaft Grounds for obtruding fuch ' Mistakes on the Publick. I was very ' well acquainted with this Patient, and ' upon the frequent Interviewswhich we ' have had together, I always under-' ftood by his Discourses, that Mr. · Gardiner had all along, or with very ' fmall Intermiffion, perfifted in Mrs. ' Stephens's Medicines from the time ' of his first Application to her, to the ' last Conversation which we had upon ' this Subject; and last Summer in ' particular, I have been repeated times ' an Eye-Witnefs of his taking Mrs. ' Stephens's Pills. When I have in-' terrogated him why he purfued fo ' naufeous a Medicine, at a Time that ' he was fatisfied he was perfectly cured; ' his Reply was to this Purpofe, that " Mrs. Stephens had advifed him to con-\* tinue the ufe of her Medicines to pre-· vent further Complaints. Perhaps it ' may not be amifs to mention, that ' fome Days ago a Clergyman of my' " Acquaintance follicited of me this, and Mr. 0 2

Mr. Smith's Cafe, which I believe he
defign'd for Mr. Nourfe the Surgeon,
who it feems opened Mr. Gardiner
and found feveral Stones in his Bladder, &c. I am

Your very obedient Humble Servant, H. Cotton.

N. B. The Clergyman mentioned above, is Dr. Rumney, Vicar of St. Stephens, St. Alban's, to whom when in Town were fent, by Dr. Cotton, the Cafe of Mr. Smith, (with the feveral Papers relating to Mr. Gardiner) which were read before the Royal Society. Those of the latter you have in his Cafe; and as that of Mr. Smith was fent by the Doctor to Dr. Mead, and differs not from that fent to Dr. Rumney, inferting it once will be fufficient, which is as follows.

Mr.

## of Mr. SMITH.

#### Mr. Smith's Cafe, by Dr. Cotton.

M. Smith, a Gentleman aged 52, for feveral Years paft hath been fubject to calculous Complaints, and formerly voided many Stones, which were fuppofed to be Renal.

About three Years ago he had the common Symptoms that intimate a Stone in the Bladder. Hearing of Mrs Stephens, he apply'd to her, and ftrictly perfued her Medicines a Year and four Months, with only the Intermiffion of one Fortnight, as the Patient hath of\_ ten affured me.

At the Expiration of the fixteen Months his Urine grew very Bloody, and his Pains were increafed. Whereupon he defifted from the further Profecution of this Courfe; and by indulging plentifully inOleaginous Medicines, his Symptoms abated of their Severity, and the Urine was no longer ftain'd O 3 with

with Blood, he continuing tolerable eafy for fix Months.

But about Midsummer 1740, several of his Symptoms recurred with their ufual Violence, viz. frequent Propenfity to Urine, rendering but a very fmall Quantity at a Time, with great Heat and Pain. To which were joined a Tenefmus and Senfe of weight in the Bladder, upon turning in his Bed, or coming down Stairs. The Urine was of a pale Colour, with a tough Gelatinous Matter at the Bottom of the Chamber-Pot, and little Fragments of Stony Concretions. He every now and then complain'd of Sicknefs, attended with Vomitings of a Bilious Matter, ill Tafte in his Mouth, and his Bowels greatly diftended with Wind. He alfo complained fometimes of a Stupor about the Loins, and a Pain darting into his right Kidney. His Urine appeared deficient in Quantity, and during Sleep it flowed from him involuntarily.

July

## of Mr. SMITH.

July following he was fearch'd by a Surgeon of Note, who with great Difficulty introduced the Catheter into the Bladder, and declared he could find no Stone.

September enfuing he was again attempted to be fearch'd, but the Pain and Effusion of Blood that accompanyed the Attempt, obliged the Surgeons to defift.

Feb. 1740-41, he had Recourfe to the Noftrums of a Female Phyfician (Mrs. Gaylard) who pretended the was poffefs'd of the late Dr. Robinfon's Medicine for diffolving the Stone, and that Mrs. Stephens's was all an Impofture.

He was eafier fome time. Aug .3. he was a third Time effay'd to be fearch'd, but the fame Difficulties occurred as before, and the Catheter could not be introduced.

04

October

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October laft, his Symptoms returned with greater Severity than ever, and the Woman's Medicines were-laid afide.

Towards the Conclusion of the Year the Symptoms were more exafperated, his Flefh wafted, his Vomitings became more frequent, and his Appetite quite decay'd, &c. January 19. he expired.

The next Day the Body was open'd. All the Viscera appeared found, except the Organs of Urine which were affected as follows :

The right Kidney was greatly diftended beyond its usual Capacity. Its Cavity contain'd a large Quantity of Blood, Urine, and Grit; the Papillæ alfo were full of a gritty Substance.

The left Kindney was diftended in a different Manner; on the external Membrane were fcatter'd up and down feveral Hydatides of various Magnitudes,

the

2.3

#### of Mr. SMITH.

the Substance of the Kidney itself was much thinner than the former: Upon opening it, we observed it whitish and polish'd; the *Papillæ* and *Infundibula* were larger than those of the right.

Its Cavity was clear of Blood and Grit.

The Ureters were much enlarg'd, and their Paffage free. On the left Side of the Bladder, immediately under the Os *Pubis*, there was lodged a large Stone, which was fhap'd fomewhat like a Pear, with its Apex lying at the Bulb of the *Urethra*, and its Bafis to the Infertion of the *Ureter* of the fame Side.

The Stone immediately upon its Extraction weighed *fix Ounces* wanting one Scruple.

CASE

DETERSION BERERED COL

# CASE V. Of Mr. BOLTON ‡.

#### SIR,

Owards the latter Part of my Life, when in my Fiftieth ' Year, about 1720, I was fore pain'd " with the Stone, until I voided a large "Stone; at feveral Times fince about a ' Dozen ; Part came away after a little "Riding, and then I made Water like ' Coffee : But I imagine one of the <sup>2</sup> largest might stay behind; for in 1735 " I began to be greatly afflicted, could ' not endure to ride, or bear a Coach : . When I have been a making Water, it often stopped on a sudden, causing ' much Pain; and no Perfon in the ' Country could give Relief, tho' I took many odd Things. Reading the Papers, I observ'd fome Specifics for the Stone were advertis'd, one a Powder, ' the

\$ See View of the present Evidence.

#### of Mr. BOLTON.

" the other a Liquid. I got them, and ' try'd each; but was not able to go ' thro' with either of them ; being of a · forcing Nature, increased my Pain: . Then was advised to fmooth palliating ' Medicines, yet Pain still continued, ' and exceffive, made me begin to think ' of coming up to London to be cut, if ' it might be fafely done at my Age. ' At that Time the News inform'd us, " that the Bishop of Bath and Wells, and others, were cured by taking Mrs. . Stephens's Medicines; I was then more " inclinable to come. When I fet out, 'my Thoughts were, to undergo the ' manual Operation, and had wrote to . Mr. Chefelden about it. When I ar-' rived in London, and confulted with ' fome Friends, it was thought, as I ' was in my 68th Year, the fafeft was \* to take Mrs. Stephens's Medicines: " And accordingly, on the 18th of July ' 1737, I began with them, taking ' three Powders, and three half Pints of ' Liquid every Day. What Effect, and ' how they did operate, you will fee by the following Diary, which I kept ' as 2

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as exactly as I could, confidering the
Pain I had by Times; which yet
prompted me to keep ftrictly to the
Medicines; believing, that by doing
fo, I fhould the fooner be made eafy,
and took the Liquid four times a-Day
for fome Weeks.

As it would be needlefs to transcribe every Word of the Diary precifely, and indeed a very dry Entertainment to the Reader, being chiefly an Information of the continual *Pain* he had during the whole Process of the Medicines; I shall only make an Abstract of the Diary, whereby the Reader will see in a little Compass how he suffered by them, and be able to judge of their Value.

He began to take the Medicines on July 18. 1737. which confifted of Three Powders, and three half Pints of a Liquid three times a-Day; and was in fuch great Pain, all along to to the 31. that it made him fend to Mrs. Stephens, who answered, he must have Patience, and begin to try four

#### of Mr. BOLTON.

<sup>6</sup> four half Pints a-Day; which he did <sup>6</sup> accordingly, together with the three <sup>6</sup> Powders from *August* 1. the Urine <sup>6</sup> being fometimes foul with *Slime* or <sup>6</sup> *Mucus*, and fometimes clear, with <sup>6</sup> *Great* or *Grievous* Pain all along to <sup>6</sup> the 14.<sup>7</sup> And then he has thefe Words:

A STOLLEY

Above are twenty-eight Days, in
which Time the Medicines took *little* Effect, and *much* Pain almoft every Day.

He went on with grievous and cruel Pain till the 21. when it was very grievous, fo intolerable, he fent for Mrs. Stephens to acquaint her, he was not able to endure: She faid, he muft have Patience, he should in a little Time be easier; and might take an Opiate to make him rest in the Night, and forbear to take the fourth half Pint, supposing it might be too hard upon him.

He

He went on however, calling his Pain fometimes great and grievous, fometimes violent, fometimes very great, fometimes much, and continued to have Pain more or lefs; and about the 23d of September he has thefe Words.

Having for above a Week paft made
clear Water, and with much
Pain, and nothing coming away,
made me begin to think of leaving off the Medicines; yet I was
fure the Cure was not finished:
and having a Doctor who happen'd to be here, then advised
me to take them a Fortnight
longer; fo I continued to go on.'

In fhort, he ftill goes on to take the Medicines, voiding fometimes *Bits*, fometimes no Bits with *Pain* at Times, all along to the 26th of *November*; began to forbear the Medicines on the 27th, and fays he only took two Bottles after this Day; and concludes this Dir ary in these Words: '28th I walk'd a-'broad as far as the Custom-house, 'having

#### of Mr. BOLTON.

having confin'd myfelf for twenty
Weeks, taking the Medicines regularly, without ftirring out of Doors.

#### POSTSCRIPT.

#### SIR,

<sup>6</sup> You may pleafe to obferve, I have <sup>6</sup> had great Pain from the Stone, and <sup>6</sup> the Medicines Operation, but now <sup>6</sup> being entirely free from any, may be <sup>6</sup> compared to a Woman in Travail, is <sup>6</sup> forgotten, and do believe myfelf now <sup>6</sup> to be cured of the Stone, having no <sup>6</sup> Symptoms of that Kind. Thanks to <sup>6</sup> Friends for Advice, and Laus Deo.

' I am, &c.

' FRAN. BOLTON.

## REMARKS.

I Cannot but think the Observation very just, whosoever has made it, from this Gentleman's Account of himself, that 'tis much better to submit to the Operation, than to bear so much Pain, even an Hundreth Part of his cruel Pain.

Pain. The Operation is perform'd in a few Minutes, whereby the Patient is rid of the Stone, or Stones of the Bladder : If the Conftitution is good, and the Operation well perform'd, the Patient is in no very great Danger; and a Life may be prolonged of a Perfon ferviceable in his Country, and that in a fmall Time: Whereas here is a Gentleman who lies under one continued Scene of Torment and Milery, from July 18, to November 28, before his Eafe is compleat ; and no fooner fancies himfelf cur'd, but he is, in a triffing Time after, dead, and Stones found in his Bladder.

Pernicious Eafe! whofe Conditions are fo hard, whofe Reward is of fo fhort a Date. It is like a Tyrant's granting to let a poor Slave live a Year or two, after he has fuffered to be broil'd four Months. Is fo fhort a Life worth purchafing at fo dear a Rate ? and would not a fix Minutes Operation be more eligible? If you were to die, 'tis better before, than fo foon after, a four Months

# of Mr. BOLTON.

Months Rack; if you recover, you are freed from your Grief and Complaints, and enjoy Life like other Men.

What Effects would any rational and impartial Man attribute to this constant Irritation of the Bladder for fo long a Time? would he not grant, that fuch cauftic Salts, as are capable of tearing the Mucous Matter that he voided fo much of, from the Parts Nature defigned it to guard, were at length capable of deftroying the Tone of that Part, and of wearing it out by fuch a conftant and tedious Ufe of them ? And would he not allow, that the Eafe that at laft was obtained, must be from a Loss of Senfation in the Coats of the Bladder; fince the fame Medicines, still continued, no longer caufed these painful Sensations, tho' as capable of producing the fame Effects as before, and Stones still remaining in the Bladder?

Dr. Hartley writes to Mr. Bolton, upon fome Objections made to him concerning the Bits of Stone voided by him, P and

and others, to have a particular Account fent him, whether he had any Return of his Complaints, and received an Anfwer, dated *February* 9. 1738-9, wherein, after he has expatiated on the great Service the Publication of the Medicines would be to the World, goes on to fhew more particularly how he had been cur'd from what he fuffered, and fuch like : After which he has this particular Paffage.

Formerly, about a Dozen Years ' fince, I was much troubled with the Stone Pain, and took Medicines which helped me to void feveral I have now ' in a little Box, but never perceived ' any Thing come away like these Bits, ' but were entire Stones, like a Pea or ' Bean, or fuch Things. Mr. Binford s of Exeter, and Mr. Holland at the "Tower, both took the Medicines at ' the fame Time I did ; they each came ' to fhew me what came from them, ' and to compare with me. I observed ' that the Operation was the very fame " with them, having just fuch Bits as I 257.5 · had, 1

## of Mr. BOLTON.

\* had, and at laft a larger hard Stone, \* which was called the Kernel. They \* were fo much alike, that one would \* think they all came from the fame \* Perfon. The Bits are perfect Stone, \* only foft at coming away; but laid on \* a Paper they foon dry to be perceived \* what they are, Sc. Sc.

My Reafon for transcribing this Part of Mr. Bolton's Letter is, to fnew, that I think it very odd, there fhould appear no Difference at all in the Effects of the Medicines upon these three Persons, but that the Bits were fo much alike, one would think they all came from the fame Perfon. This Exactness and Uniformity of Shape, Colour and Confistency in these Bits, as well in other Patients as in thefe three People, would make one fuspect that a Combination of the calcarious Parts of the Medicines, with part of the mucous Matter of the Bladder, or their own Oil, might form thefe Bits of Paste, called Stones, in a foft State, being as capable of drying P2 into

2II

into a hard Mass when carefully laid upon a Paper for that Purpofe, as Bits of Stone, if not more fo. And as to what is called a Kernel here, it is no lefs particular that each flould have a Kernel of the fame Sort. Now, fup-- pofing each had voided a hard Stone, what Rarity is in that ? Mr. Bolton tells you, he voided feveral by the Help of other Medicines, before he took those of Mrs. Stephens. But why are they called Kernels, why not Little Stones? We may as well count every little Stone voided by any one a Kernel, becaufe that Term feems to give the greater Force to the Notion of the Bits of fupposed Stone. Mr. Gardiner's, Mr. Stanton's, &c. Stones, were all Kernels at this Rate too. This is indeed a Doctrine the most comforting and amufing that could be fuggested for encouraging the Continuance of the Medicines with greater Chearfulnefs and Refolution. I dare believe, whoever takes them, as preferib'd, will not often want foft Bits, or Sediment that drys into a Mafs, which being thought Part of

#### of Mr. BOLTON.

of a diffolved Stone, to be fure a fmall Stone coming away at any Time during the Use of the Medicines, must be the *Kernel*.

In a Word, and to fum up the Whole of the Cafe, this Gentleman took the Medicines with great Exactnefs, for the Time mentioned before, attended with inexpreffible Agonies all the Time, fancied himfelf cured, and is fince dead, having two Stones found in his Bladder; fo that whatever the favourable Effects be (that are thought by fome to make for the Medicines) produced by the Use of them, Time and the Inspection of the Patient's Bladder only can certify the Truth of their Efficacy or Inefficacy.

P3 CASE

Man than (30) BUA Lington Con
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## CASE VI.

Of Mr. UNDERWROOD, at the White-Lion Tavern in White-Chappel \*.

• I E was afflicted with the Stone • I I in the Bladder feveral Years, • had much Pain in making Water, • and a fudden Stoppage. Took Mrs. • Stephens's Medicines fix Months, and • brought away feveral Scales. He • has left them off three Months, is in • a very weak low State, and has the • fame Complaints.

Feb. 15. 1738-9.

Addition to Mr. Underwood's Cafe, Page 204 ‡.

'Mr. Underwood died March 1st, 1738-9. Mr. Sharp open'd him, March

· View of the Pref. Ewid.

\$ Supplement to a View of the Prefent Ewid. p. 63.

#### of Mr. UNDERWOOD.

March 2. took out a Stone that had
the Appearance of being very much
wafted, moft of the Shell being deftroyed, and very much of the internal Substance eaten into, fo as in fome
Meafure to refemble a carious Bone.
There were no Pieces of Stone in the
Bladder, which was in a very healthy
State.

It is to be obferved, that Mr. Underwood did not fall into those violent
Pains which were probably the Occafion of his Death, till fome Time after
he had left off the Medicines, that is,
not till the Stone thus corroded, and
in fome Measure fosten'd by the medicated Urine, had become hard again.
There is a Hole quite thro' the Stone
on the Right-Hand, and the strated
Appearances in these Figures are the
feveral Coats of it.

## P4 REMARKS.

## REMARKS.

TN Mr. Underwood's Cafe what ap-I pears, is, that after taking the Medicines fix Months in vain, he was oblig'd to leave them off; for it is al'low'd, he was very Weak and Low, having the fame Complaints still. The Reafon of his having left them off is not faid ; therefore it may be probable that finding no Relief after fix Months conflantly taking them, he defpair'd of Success, and fo left them off; or perhaps his Stomach growing every Day weaker he could bear them no longer. In either Light the Inefficacy or Difadvantage of the Medicines is apparent in this Patient; for no Doubt can be made but he would have purfued the use of them, if his Hopes were in any Shape fulfill'd, and he was able.

Here it cannot be in the leaft pretended that the Stone found in him when he was open'd, had grown fince his Difuse of the Medicines, because

it

## of Mr. UNDERWOOD.

it is not faid he was cured before he left them off, and because the fame Complaints continued. But to make fome Amends, it is prefumed the Stone was foftened (in the Explanation of the Figure of it) by the use of the Medicines, and that when they were left off, it grew hard again ; which caufed violent ' Pains, ' which were probably the Oc-' cafion of his Death.' Every one converfant in the Knowledge of the human Body, and its Difeafes, knows that Paroxifms of the Stone are fometimes more Violent than at others: and therefore the violent Pains were but Symptoms of the Stone, which was the real Caufe of his Death. We can in no wife be certain, that the Stone had been foften'd and had grown hard again from the Pain. One troubled with the Stone, is often eafy from its different Changes of Situation, without any Remedy whatever, and without being made foft. And as to its Signs of being corroded, that may be refer'd to the Cafe of Mr. Symonds, where all that can be allowed to fuch an Appearance feems to be rationally accounted for.

CERTS CORRECTION

## CASE VII. The Hon. Edw. CARTERET, Esq; Post Master General +.

Aving been very much afflicted with the Stone and Gravel, and ' having by the best Means I could, 6 endeavoured to get Relief : At length ' in the utmost of my Extremity, I was recommended to Mrs. Stephens ; and foon after taking her Medicines, ' I began to bring away in my Urine a whitish Powder, which when dry ap-· peared to be what came from a Stone. ' This continued for fome time, and in ' about two or three Months I found ' myfelf freed from a Pain I had felt at ' Times for feveral Years, on the right ' Side of the Bladder. And I am well ' affured it was a Stone or calculous Matter

View of the Prefent Ewidence.

## of EDW. CARTERET, Esq;

. Matter which fluck to the Bladder. · Befides this I had a loofe Stone in the Bladder, which for feveral Months ' after, gave me extream Pain by its · Forcing when I made Water ; which ' at length came away in Pieces, al-' most every time I made Water, for ' about nine Weeks following, until at ' last it came all away, as appear'd from ' my being freed from all manner of The Kernel of the Stone itfelf ' Pain. ' having come away, I thought my-' felf then entirely well, tho' afterwards ' upon a Journey to London, some ' Stones fell from my Kidneys, which ' came away to the Number of feven \* at one Time, which made me pre-' fume too far in difcontinuing the Medicines in great Part, having little ' or no Pain; when a Stone, which · had fluck in the Ureters, came down ' and ftopped the Paffage of the Urine, " which occafioned a Supprefiion of it, ' and out of Fear of its not paffing ' I had the Affistance of Mr. Chefelden; ' and, I thank God, I am free of any Pain, and have been to ever fince. Mr.

<sup>•</sup> Mr. Chefelden made an Incifion in-<sup>•</sup> to the Urethra, and freed him from <sup>•</sup> the Stone.

Dr. Hartley in his Supplement, &c. has this following Account of Stones taken out of the Bladder of the above Edward Carteret Efq; but the Time of his Death is not mention'd; viz.

· Fig. 7. reprefents a Stone taken ' from the Bladder of the Hon. Ed-' ward Carteret Efq; Post Master Ge-' ral, by Mr. Sharp; 8, 9, the fame ' faw'd into two; 10, the Kernel of a-' nother taken also from his Bladder; ' 11, part of its Shell. It may be fup-' posed that these two Kernels were left · in his Bladder when he difcontinued ' the Medicines, about two Years before ' he died, and that the hard pale brown ' Shells were generated in that Inter-' val by the incrusting Power of his · Urine returned to its natural State. ' The half Kernel of Fig. 8, 9, are of a ' whitish grey Colour, as if acted upon · by aller in

of EDW. CARTERET, E/9; <sup>6</sup> by the medicated Urine, and lie loofe <sup>6</sup> in the Shells. The Stone 10, 11, <sup>6</sup> when whole, rattled upon being fha-<sup>6</sup> ken, and was broken by an acciden-<sup>6</sup> tal Fall upon a Stone Pavement. <sup>6</sup> Mr. Carteret died of an Apoplectical <sup>6</sup> Diforder.

## REMARKS.

R. Carteret has indeed drawn up his Cafe as well as could be expected, and the first Scene that prefented after he began to take the Medicines, was that whitish Powder that came away in his Urine, (which appeared when dry to be what came from a Stone.) This whitish Powder we have shew'd already to be no more than the Calx of the Medicines for it is fo often repeated under the Names of white Bits, Sediment, Powder, Flakes, that one would fwear, no Man had ever any other than white Stones in the Kidneys or Bladder; and as for any fmall Stones that came away from time to time, there is nothing to be boafted of on that Account; becaufe I

because if small enough to pass, every Day's Experience fhews they do, without any Remedy at all. It appears, that after the Difcharge of white Powder he had Fieces coming almost every time he made Water for about nine Weeks following. Now fuppofing he made Water five Times in twenty-four Hours, (and I believe a Man in his Cafe, may be faid to go much oftener) and at each Time he might have voided four of those Pieces one Time with another; at this moderate Computation he muft in nine Week have voided 1260 Pieces: In this Cafe the Stone to which they belong'd, must have been very confiderable, or the Pieces lefs than the Bits fo often mentioned elfewhere, and only imaginary. Such a Quantity of Pieces must have amounted to more Stones than he had from first to last, even together with those found in his Bladder after his Death.

Again fays he, 'the Kernel camé a-'way, and I thought myfelf entirely well. But afterwards upon a Journey 'feven

## of EDW. CARTERET, Esq;

<sup>e</sup> feven at one Time came away.' And again, another Mr. *Chefelden* cut out from his Urethra; thefe were alfo Kernels, or might as well be fo accounted as the one that came by itfelf; but it is likely none of them would have had the Name of Kernels, if Pieces, Pits, Powder, &c. did not precede them. Indeed if they had been all Kernels, there were Pieces enough to cloth them, tho' there were as many more, and make lufty Stones of them too.

Mr. Carteret, it is faid, died of an Apoplectical Diforder; however, two Stones were found in his Bladder; they were faw'd, and their Nuclesi are reprefented as being very rough, and indeed very large, one being three quarters of an Inch long, and the other an Inch, where longeft, as appears by the Figures explain'd above. Now this Gentleman thought himfelf entirely cured, after being reliev'd by Mr. Chefelden, which he declares in these Words, 'I ' had the Afliftance of Mr. Chefelden, ' and

' and, I thank God, I am now free of ' any Pain, and have been fo ever fince.' And Dr. Hartley fays, 'it may be fup-· posed that these two Kernels were left ' in his Bladder when he difcontinued ' the Medicines.' It would not be altogether fo well to fay in every Cafe, what was afferted in Mr. Gardiner's, that the Stones found at his Death grew after his Difuse of the Medicines; for we have shew'd, every Person in his Cafe, that is even cut, has not a Stone afterwards; and it is most certain Mr. Carteret's were in his Bladder when he thought himfelf cured. From this a difficult Queftion arifes; Why was he eafy till he dyed, having rough Nuclæi and fo large in his Bladder? Or let us (for the prefent) fuppofe he had none when he left the Medicine off; but that these were newly grown in the absence of an Alkaline Urine : Why did he not feel fresh Pain upon the Accretion of these large Stones, fince he had fo much frequent Pain before he took the Medicines ? There feems to be

## of EDW. CARTERET, Elq;

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be no efcaping the natural Refult that must occur to every rational Perfon; that he could not feel them, the *Tone* of the Bladder, and confequently *Senfation* being quite lost.



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# Q CASE

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## CASE VIII.

## The Case of Mr. GARDINER in Fetter-Lane.+

M.R. Gardiner is fixty Years of Age, and has had the Symptoms of the Stone in the Bladder about fix Years. For many Months
pafs'd has had fuch frequent Provocations to make Water, that he could
not lye in Bed five Minutes together.
He had alfo great Forcings to Stool,
and made bloody Water upon riding
or walking much. He was examined on the thirtieth of December laft,
by Mr. Nourfe, who found a Stone in
the Bladder ; and on the fecond of
January he began Mrs. Stephens's
Medicines. At firft they encreafed

+ View of the pref. Ewid.

his Pain, but before he had taken
them a Month, he became very eafy,
and has fince walk'd as far as the
Royal Exchange, without making
bloody Water, or finding Inconvenience, and can pafs a whole Night
without an Occafion of making Water at all. He continues the Medicines and brings away (befides a cloudy Sediment in his Urine) a confiderable Quantity of Grit, both in Size
and Colour very much like common
Houfe Sand.

This Cafe is one of those produced, as having been cured by the Medicines, as it was declared before the Trustees appointed by Act of Parliament to examine them; the Account laid before them is as follows:

\* + Mr. Gardiner of Fetter-Lane,
\* aged 61, who had the ufual Symp\* toms of a Stone in the Bladder, with
Q 2
\* violent

+ Supplement to the View of the Pref. Ewid. p. 48.

violent Pains for feveral Years. He
was fearch'd by Mr. Nourfe Surgeon,
December 30, 1738, when both he and
Mr. Wall Apothecary felt a Stone in
the Bladder. Mr. Gardiner took the
Medicines about eight Months, voided many Pieces of Stone in that time,
was freed from all his Symptoms, and
being fearch'd again, firft by Mr. Sharp
September 14, 1739, and then on the
13th of November following by Mr.
Nourfe, Mr. Chefelden, Mr. Sainthill,
and Mr. Belcher, Surgeons, at Child's
Coffee-houfe in St. Paul's Church-yard,
no Stone could be found.

An Account to the fame Purpofe is published in his Latin Pamphlet printed at Leyden, we shall therefore only infert here what feems an additional Animadversion to the rest, which is: 'It ' is remarkable, that this Person be-' came free from his Pains within a ' Month after he began the Medicines, ' tho' it is very certain, from the Quan-' tity of soft and ragged Fragments ' voided by him afterwards, that a large ' and

and ragged, but a foften'd Stone mufthave remained in his Bladder.'

Note, This laft Animadverfion was made by the Doctor, after the Death (and finding the Stones in the Bladder of) Mr. Gardiner: and, at the fame Time, the following Account was produced, to prove this Patient had taken no more Medicines from the Time he thought himfelf cured, to his Death, at leaft but very few. Whether he did or no, will appear in the Sequel: But before we fet down the Account, take the Doctor's following Particulars, which, he fays, are to be added to those contained in the foregoing Extracts.

' 1. That Mr. Gardiner had no Re' turn of his violent Symptoms, but on' ly fome fimall Complaints, which he
' thought to proceed from Gravel.

2. That Mr. Gardiner took no Me-' dicines for the Stone from the Begin-' ning of September 1739, till Decem-' ber 1740, when he took a fmall Q3 ' Quantity

<sup>6</sup> Quantity of Soap-lees, fufficient per-<sup>6</sup> haps for three or four Days in the re-<sup>6</sup> gular Way. And again, that he took <sup>6</sup> nothing from this Time till July <sup>6</sup> 1741, when he began to take fome <sup>6</sup> Pills which he had from Mrs. Stephens, <sup>6</sup> and took in all about 55 Ounces of <sup>6</sup> them. These 55 Ounces are a Quan-<sup>6</sup> tity sufficient for about three Weeks <sup>6</sup> in the regular Way of taking.

'3. That after Mr. Gardiner's Death,
fix Cavities were found near the Neck
of his Bladder containing nine Stones,
'two or three of which are about the
Size of fmall Nutmegs, and the reft lefs.

<sup>6</sup>4. That when Mr. Nourfe examin'd <sup>6</sup>Mr. Gardiner, December 30, 1738, <sup>6</sup> he felt a Stone immediately upon In-<sup>6</sup> troduction of the Catheter into the <sup>6</sup> Bladder, and continued to feel it which <sup>6</sup> Way foever he turn'd the Catheter.

From all these Circumstances compared together, I conclude, that Mr.
Gardiner's Urine had a diffolving
Power

· Power during the Time that he took the Medicines regularly. But I will ' not trouble the Society with a Repeti-' tion of the Observations which I have formerly made upon fuch like Cafes. " I rather chufe humbly to beg of the . Society, that, as this Matter is of very ' great Confequence to Mankind, they ' would pleafe to appoint fome of their ' Members to enquire into the Facts re-' lating to the Operation of the Medi-' cines, and to lay the Refult of their · Enquiries before the Society from time ' to time. I would also humbly beg, ' that Mr. Nourse may be one of the ' Perfons appointed for this Purpofe.

Jan. 27. 1741-2.

#### D. HARTLEY.

ter

The Method here proposed to the Royal Society by the Doctor, would be the most effectual Means of concealing from the Publick the Inefficacy and Danger attending the Use of these Medicines; for it would take up Years, in teazing that most learned Body to little Purpose from time to time. What bet-

Q4

ter Intelligence could be had, than thofe Cafes communicated from other Parts of the Kingdom already fet down in a Train, in the View of the Pref. Ev. &c. Befides, fince there are now fufficient Evidences of their (Defect in their Duty and) mifchievous Qualities, the Reference fhould be made to the Publick at once, as they are in general concern'd, and that Honourable Society, as a Part of the Publick, will alfo receive it : Whereas there are not many that have any Knowledge of what is tranfacted peculiarly in the Society.

But before we take any Notice of the Nature of this Cafe, I shall fet down the above-mentioned Bill, as also the Account of the Cafe, as it was given to the *Royal Society* by that ingenious Surgeon Mr. *Nourfe*, who open'd Mr. *Gardiner*'s Body.

#### To Dr. HARTLEY.

#### SIR,

INfpecting the Books of Mr. Arthur Gardiner late of Fetter-Lane, Lond. deceased,

deceafed, I found an Account of Mrs. Stephens's Medicines, written with his own Hand, a Copy of which I herewith fend you, and prefume, by the Number of Balls, and Money paid for each Parcel, you will be able to judge how much of the Powder he had. I am,

#### SIR, Your most humble Servant, RICH. HATTON.

#### An Account of Mrs. STEPHENS's Medicine.

1739. Jan. 1.	For ten Balls and Powder	2	0 0	,
Towards the End ?				
of the Month,	For ten Balls and Powder	2	00	
but no Date,	and the second at the		1	
Feb. 21.	For ten Balls and Powder	2	0 6	
Mar. 26.	For ten Balls and Powder .	2	00	>
	For five Balls	0	10 0	5
Apr. 17.	For ten Balls and Powder	2	00	
. 28.	For ten bans and roman	~	10 9	
May 21.	For five Balls	0		
June 5.	For five Balls and Powder	I	00	
18.	For three Balls	0	6 0	D
30.	For five Balls and Powder	I	0 0	0
July 12.	For five Balls	0	7 (	6
Aug. 2.	For five Balls and a Bottle		1-01	
21ug. 2.	of Powder	0	II	6
11.	For five Balls			
24.	For five Balls	0	7	6
1740. Dec. 12.	A Pint Bottle of Soap-lees	0	I	Q
Tal Tal IA	Two Quarts of Pills -	0	16	0
1741. July 14.	THO COULD OF THIS		and the	1

From

1. s. d.

From the Transactions of the ROYAL SOCIETY, Nº. 462.

A Letter from Edward Nourfe, F. R S. Surgeon to St. Bartholomew's Hofpital, to the Prefident and Fellows of the ROYAL SOCIETY, giving an Account of feveral Stones found in Bags, formed by a Protrusion of the Coats of the Bladder, as appeared upon opening the Body of one Mr. Gardiner. Read Jan. 7. 1741-2:

PErmit me to lay before you the Bladder of Mr. Gardiner, who was, the 5th of March 1739, before the Truftees appointed by the Parliament to enquire into the Efficacy of Mrs. Stephens's Medicines, produced as an Inftance, where they had been effectual in diffolving the Stone in the Bladder.

Mr. Gardiner was fearch'd by me on Satarday the 30th of December 1738. I felt a Stone the Moment my Inftrument was introduced; which was

was likewife felt by Mr. Wall his Aposhecary, then prefent.

The Tuesday following, he began to take Mrs. Stephen's Medicines, and continued them eight Months.

On the 30th of November 1739, I faw him at Child's Coffee-Houfe, when he told me he was quite free from his ufual Diforders: I there fearch'd him again in the Prefence of feveral Phyficians and Surgeons, who likewife felt for the Stone, but none could be found.

Mr. Gardiner dying on Saturday the 2d of January 1741-2, the next Morning, in the Prefence of Mr. Saintbill and Mr. Wall, I opened his Bladder, and therein obferved fix preternatural Apertures of different Sizes, the biggeft capable of admitting the Top of my Finger. Each of these Openings led to a separate Bag, form'd by an Enlargment of the internal Membrane of the Bladder, protruded between the Fibres of its muscular Coat.

Thefe

These Bags are to be seen on the back Part of the Bladder, a little above the Vesiculæ Seminales; and when viewed on the outfide, seem to be but two; tho' they are in Number equal to the Openings within, already mentioned; and divided from one another by the Duplicature of the internal Membrane, which forms a Septum between each of them.

In these Sacculi or Bags are contained nine Stones; the largest about the Size of a small Nutmeg; and with what Facility fome of them moved out of, and return'd into the Sacculi, the following Circumstance will clearly evince.

When I had opened the *Abdomen*, Mr. Sainthill handling the Bladder, brought two of these Stones up to its Fundus, where they were felt by Mr. Wall and myself. We then examin'd the Kidneys; the right contained a little Matter, otherwise it was as it should be; but of the left, twoThirds were wasted; its

its Pelvis was contracted in Proportion, and the Ureter almost impervious. Upon rehandling the Bladder, neither of us could find any Stone: I therefore laid it open, and we found them all in the Sacculi. The Stones that are in one of these Sacculi have been fo much inlarged fince their Lodgment, that without Force and Laceration they cannot be got out. I am

GENTLEMEN,

Your most Obedient, and most Humble Servant

EDW. NOURSE,

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## TAB. VII.

#### Fig. I.

Reprefents the back View of Mr. Gardiner's Bladder, with the two Sacculi hanging to it, as big as the Life.

A. The Proftate Gland, which in this Subject is grown Schirrous, and loft its Shape: As did alfo,

B. The Vafa deferentia & Vesiculæ feminales, which are turn'd upon the Prostate Gland to bring the Sacculi more in View.

C. The fmall Sacculus that contain'd the biggeft Stone thruft out on the Rightfide of the Detrufor, between that and the Infertion of the Urethra.

D. The large Sacculus thrust out on the other Side the Handle of the Detrufor, and fasten'd in one Point + to the Ligament of the Vesculæ seminales.

E. The Musculus Detrusor Urinæ.

TAB.







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### TAB. VII.

#### Fig. II.

Reprefents a fore View of the Bladder laid open, to fhew the feveral Orifices of these Sacculi.

A. The upper Part of the Bladder, the Detrusor being cut longitudinally.

B. The inner Membrane of the Bladder, which has loft all its natural Rugæ.

C. The three Orifices that lead to the large Sacculus, in which are feveral particular Cells that do not communicate with each other.

d. The Orifices of the Ureters.

E. The Orifice of the Urethra, and the *schirrous* Gland.

F. The Ureters.

G. The two Holes leading into the fmaller Sacculus.

b. The Orifice of an imperfect Sacculus.

1. 2. Several Stones that came out of the Sacculi.

REMARKS.

#### REMARKS.

THE Cafe of Mr. Gardiner is very particular, and the more fo, as he was faid to have been abfolutely cured. But alas ! he was far from a Cure; for Mr. Nour fe at his Death opened his Body, and found a Number of Stones inclosed in Cells, which were thrust out by degrees into two Sacculi, that appeared on the Outfide of the Bladder.

Upon Mr. Nourfe's fearching him a fecond Time, no Stone was found; this was a ftrong Prefumption, no doubt, of his having been cured; but it is no great Wonder that there was not a Stone found, becaufe by this Time they were all bury'd in the Cells the Medicines were fo kind as to help them to; and tho' no fuch Cells had been form'd, yet there want not many Examples of Perfons being fearch'd a fecond, third, nay a fourth Time before the Stone could be found; and on the other Hand, fe-2 veral

veral Inftances have happened where a Stone was faid to be felt, a Perfon tyed up for the Operation, and even cut, and no Stone to be had at laft : Hence it appears how we may be deceived in that Cafe, and that the only Evidence, as we have before obferv'd, of Certainty and Truth, must be the Opening of the Body after Death.

But fay fome, Mr. Gardiner ceafed taking the Medicines after he was cured, and therefore these Stones found in his Bladder were generated afterwards. In Answer to this it is afferted by Perfons of undoubted Honour and Veracity, that he continued them more or lefs to the End of his Life, whofe Certificates and fome Affidavits against them are at the End of this Cafe. If he did take them, the Medicines have not the Efficacy pretended; for if a Stone had been diffolved in this Gentleman's Bladder, by a Continuation of the Medicines, in the usual Dofe and Manner prefcrib'd, fure it must be allow'd that a much lefs Quantity, even an eighth part of the R fame,

fame, would be a fufficient Prefervative everafter, to impregnate the Urine with a Quality of hindering further Concretions. And it appears in Mrs. Stephens's Publication of the Medicines in the Gazette of June 16, 1739. that no more is required to prevent the Formation of Gravel and Gravel Stones, in Conftitutions fubject to breed them, than ten or fifteen of the Pills taken every Day. Which is no more than about an eighth Part of the full Dofe mentioned in the fame Paragraph.

However, it is deny'd that he took a fufficient Quantity to anfwer that End, for two Reafons; firft, becaufe it does not appear upon his Books, or thofe of Mrs. *Stephens*; and fecondly, becaufe when Gravelly Complaints return'd fometime after he was thought cured, he confulted with Doctor *Hartley* what to do, who then advifed him to Soap-lees, as he declared in defending the Efficacy of the Medicines in this Cafe, from whence the Doctor concludes he had not taken any. But as all

all Opinions are not alike, I confess mine is, That he had taken the Medicines from that very Reafon; for, is it not natural to think that a Man fo fenfibly relieved, as was reported, from the racking Pains he fuffer'd before, fhould fly to the fame Remedy, when he knew without Hefitation, he could have had enough of feveral others befides Mrs. Stephens, (for it was made by many after its Publication) and that finding it inefficacious, he had Recourfe to the Doctor for his Advice ? In this Light I am inclined to think the Conclusion falls more rationally. But one would wonder, if the Medicines had cured him before, why the Doctor did not advife him to the fame, rather than to Soaplees. Can any one imagine otherwife, than that the Doctor himfelf diftrusted them, when he preferr'd any thing elfe to them ?

Those who have been cut for the Stone, and are troubled in some time by new Ones generated, are but a few among the Train of such as suffer in R 2 this

this Difeafe, which is a great Happinefs to the World. I will not take upon me to judge of the Proportion, but leave it to Surgeons who have it more in their Way to obferve; but I remember Mr Freke, who is a noted Lithotomift, in his Difpute with Dr. Hartley declared the fame, which we may prefume he knew from Experience.

Now when the Fluids of the Body have been impregnated, for fuch a Series of Time, and by fuch large Quantities of the Medicines, it is very improbable that the Stone-generating Quality should fo foon return, and produce fresh Stones, fince it so feldom happens where nothing is administered but manual Operation, and no Change brought about in the Conftitution; and much the more improbable fince Mr. Gardiner has taken the Medicines, more or lefs, all along; as appears by the following Certificates of fo many Perfons of Credit, as Doctor Rumney Vicar of Saint Stephens, Dr. Cotton, Mr. Strong, and Mrs. Eliz. Partridge, all of St. Albans. I Here

Here is another Reafon to believe thefe were the fame Stones found by Mr. Nourfe, that caufed the Patient's Uneafinefs all along: for in the Cafe as it is firft laid down by Dr. Hartley, it appears that what was voided upon taking the Medicines, was only Grit, in Size and Colour like Houfe-Sand. Now each Grain of Grit or Gravel is actually a Pebble, tho' never fo fmall, and differs fo widely from an Appearance of Dilamination or Diffolution, that it cannot be faid with the leaft fhew of Probability, that they were parts of a diffolved Stone.

Yet I find by the Account given in, to the Truftees appointed to examine Mrs. Stephens's Medicines, it is faid, that what Mr. Gardiner voided were Pieces of Stone: whereas in the View of Pref. Evid. it is only faid a cloudy Sediment, and a confiderable Quantity of Grit, in Size and Colour like common Houfe-Sand. It feems odd, fince the Defeription of this Grit is fo parti-R 3 ticular

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cular in the latter, that the Pieces of Stone should be forgot there; or that the Grit and cloudy Sediment should be forgot in the former. Indeed it argues more Efficacy in the Medicines, before the Trustees, to fay they brought away *Pieces* of Stone, than Grit or Sediment.

As these Stones found in Mr. Gardiner's Bladder, are all alike in Colour and Confiftence, and very clofe and compact in their Surfaces, having no Signs of Diffolution upon them; it is very reafonable to think them capable of refifting the Power of the medicated Urine, and that therefore no Stone was diffolv'd in his Bladder. For can any one fuppofe he had a Stone of another Contexture, or fofter than those now found ? When they differ not in any wife, except their Size, from one another; the Cohefion of their Particles being very hard, and alike firm in all. Or in other Words, can a Pumice-Stone and a hard Pebble be proper to the fame Bladder ? Surely no; for it is probable the Urine will always produce 2
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duce the fame Particles for the Generation or Production of Stones in the fame Perfon ; and I am inclined to believe, whatever Number of Stones is in the fame Bladder, (tho' they differ in Size and Figure) yet their Cohefion of Parts, Substance, or Solidity, will be always the fame. I can affirm that all I have feen have been fo; as those of Mr. Payne, those of the ancient Woman, those of Mr. Skrine, those of the present Case, a Bladder-full shewed me by Dr. Douglas, and a Clufter which Sir Hans Sloan has from the Bladder of a Man, as well as many Cafes I have read of in feveral Authors: So that from fo many Facts one would be apt to think, it was the common Standard of a Plurality of Stones in the fame Bladder.

As to the Formation of the Cells or Loculi, in which the Stones were found in this Gentleman's Bladder, take the following Effay towards explaining it. The Figure of the natural Bladder in the Beginning, fhews the true State of R 4 that

that Organ; now any Form digreffing from that natural State, is morbid; and is caufed by fomething acting preternaturally upon it; and, as we have before fhewed the Parts which are fubject to Dilatation, it remains to fhew the true Caufe of the Sacculi in this Cafe.

When a Perfon is in the racking Torture of the Stone grinding on the inner Orifice of the Bladder, he naturally throws himfelf into that Situation which most favours his Ease, and that is, to lye on his Back ; in this Polition he no doubt will continue as long (and refume it as often) as he can. Thus being for the most part on his Back, the Stones contained in his Bladder, must neceffarily fall into the Sinuffes on each Side the posteriour Neck or Handle of the Detrusor Muscle, for they cannot teft upon it, being more eminent, and the weaker Parts on each Side being naturally form'd to receive them.

This being the Cafe, nothing is wanting but what may qualify the Bladder

der for their better Reception. Why, Mrs. Stephens's Medicines have done this compleatly; for fince they could not diffolve the Stones, it was the leaft they could do to help them to, and confine them in, their prefent Cells; by deftroying the Tone of that Part, and confequently rendering its weaker Sides more fusceptible of Dilatation by the Preffure of the Stones.

A very convincing Proof of the Formation of the Cells after the Stones, is, that there are feveral, becaufe there are feveral Stones; not that each Stone is in its particular Cell, for that would be too precife and methodical to expect; but that as there were feveral Stones, which falling irregularly in different Clufters on each Side of the forefaid Neck of the Muscle, must be allowed to have thruft out more Cells than one: Whereas, if there was but one Stone, there could be but one Protrusion, at leaft but one Cell. Wherefore we muft conclude upon this Queftion, that either the Cells were made for the Stones, or the

the Stones for the Cells. Now, to fuppofe the latter, would be a grofs Abfurdity; but there is a natural Reafon for the former. Therefore the Medicines may be the *antecedent*, and the Stones the *efficient* or *immediate* Caufe of the faid *Sacculi*, or Cells.

Now, as the only Plea Dr. Hartley feems to have for the Defence of the Efficacy of the Medicines in this Cafe of Mr. Gardiner is, that the Patient was once cured, and that he had not taken a fufficient Quantity of them after the Diffolution of the first Stone, to prevent the Growth of others; notwithstanding it is proved there was no Stone diffolved in his Bladder, whether he took them fince or no: Yet the Impartial Reader will find he had taken them, by the following Certificates, in Oppofition to which the Doctor produced the Affidavits that come after them. Let every one judge of the Validity of either, and confider the Nature of the latter, and, I believe it will be eafily feen the Certificates are positive Proofs on one Side, which

which the Affidavits are not on the ' other.

### The Certificate of Mrs. Partridge.

' I Elizabeth Partridge, of the Pa-' rifh of St. Peter's in St. Albans, do de-' clare, that last Summer I came with' ' Mr. Gardiner from Mr. Keen's in ' Fetter-Lane (London) to St. Albans,' ' and that, that Morning before we came 'out of his Lodgings, I faw him take fe-' veral Pills in Mr. Keen's Room behind ' the Shop, and that he told me the Me-'dicine he was then taking was Mrs. ' Stephens's for the Stone ; that he took ' those Pills out of a Pint Bottle, and faid he would take the Remainder with him to St. Albans; which he ' accordingly did. I do also further de-' clare, that for part of three Summers ' last past, when the faid Mr. Gardi-" ner was at St. Albans, he constantly ' took Medicines, either in Pills, or in ' fome other Shape, which he affirmed In witnefs were Mrs. Stephens's. 'whereof,

• whereof, I fet my Hand this 11th Day • of Feb. 1741.

ELIZABETH PARTRIDGE.

#### The Certificate of the Reverend Dr. RUMNEY.

' Whereas it hath been reported, that " Mr. Arthur Gardiner, late of Fetter-' Lane, London, who was supposed ' fome time ago to be cured of the . Stone by taking Mrs. Stephens's Medi-' cines, did not of late Years perfift in ' taking the faid Medicines : This is to ' inform those Afferters, or any other " whom it may concern, that last Sum-" mer, about July or August (to the ' beft of my Remembrance) the faid . Mr. Gardiner came down to St. Al-' bans, in the County of Hertford, and ' that within a few Days after he came, ' I faw him take feveral Pills of a blew-' ifh Colour, like hard Soap difcolour'd, ' and about the Size of a fmall Piftol Bullet, which he affured me were ' Mrs. Stephens's Medicines, and that 'he took fifty or fixty of them in a Day ' by Mrs. Stephens's Order and Direc-' tion,

tion, because he had now and then the
fame Sort of Symptoms, as he used to
have, of the Stone before he was
cured (as he called it.) Some time
afterwards he told me, he had sent for
another Bottle of those Pills, (a Bottle
being, as I apprehended, the Vehicle
used to convey them in) and that his
Landlord, or Landlady (in FetterLane) was to procure it from Mrs.
Stephens, and fend it to St. Albans.
In witnes whereof, I fet my Hand this
I th Day of February, 1741.

JOHN RUMNEY,

Vicar of St. Stephen's.

The Certificate of Dr. COTTON of St. Albans, in a Letter to Dr. RUM-NEY.

### Reverend Sir,

In Purfuance of your Defire, I shall
here fend you the best Account I can
of the Conferences that pass'd at Times
between the late Mr. Gardiner and
myself

Remarks on the Cafe ' myfelf on the Subject of his Illnefs.

1 am, Sir,

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Your most obedient Servant,

St. Albans, Feb. 11. H. COTTON. 1741-2.

<sup>6</sup> Mr. Gardiner, a Gentleman aged <sup>6</sup> 60, fome Years ago was relating to <sup>6</sup> me his Complaints, which fo refem-<sup>6</sup> bled the general Symptoms of a Stone <sup>6</sup> in the Bladder, that I advifed him <sup>6</sup> upon his Return to Town to be <sup>6</sup> fearched. He afterwards inform'd <sup>6</sup> me, that he was fearch'd by one or <sup>6</sup> more eminent Surgeons in London, <sup>6</sup> who pronounced that he had a Stone <sup>6</sup> in the Bladder.

<sup>•</sup> Upon this Difcovery Mr. Gardiner <sup>•</sup> had Recourfe to Mrs. Stephens's Me-<sup>•</sup> dicines, which he told me had cured <sup>•</sup> him. But as the various Circum-<sup>•</sup> ftances of this Cafe are known to you <sup>•</sup> already, I fhall not expatiate upon the <sup>•</sup> Subject. I would only obferve, that <sup>•</sup> upon

' upon the frequent Interviews which ' we have had together in this Town, I ' underftood by his Difcourfes, that he ' had all along, or with very fhort In-' termiffions, purfued the Medicines, · from his first Application to Mrs. Ste-' phens, to the last Conversation which ' we held upon this Topic ; and laft ' Summer in particular, I have been re-' peated Times an Eye-witnefs of his ' taking Mrs. Stephens's Pills. That ' when I have interrogated him, why ' he perfifted in fuch a naufeous Medicine, at a Time when he was fatisfied ' that he was perfectly cured? His Re-' ply was to this Purpofe, That Mrs. · Stephens had advised him to continue ' the Use of her Medicines, to prevent ' future Returns of his Complaints.

#### The Certificate of Mr. STRONG of St. Albans.

Mr. Arthur Gardiner, late of Fetter-Lane, London, has for feveral
Years past spent two or three Months
with me at my House at St. Albans,
and ever fince he has been under Mrs.
Stephens's

" Stephens's Medicines for the Stone, I do aver, that he conftantly took the ' faid Medicines publickly in my Houfe, ' almost every Day during his Abode ' with me; but more particularly, last 'Year he took the faid Medicine in ' Pills of a blewish Colour, about the "Bigness of a Hazle Nut, which he " conftantly carried about him in a Box, ' and told me that he took about fixty ' in a Day of them: And I do declare, ' and fo can my Servants too, that one ' or other of us fee him take the Pills "every Day in the Month of July and " August last past. Witness my Hand, J. STRONG.

St. Albans, Feb. 11. 1741-2.

#### AFFIDAVIT I.

I certify by thefe, that having liv'd
with William Keen, Tallow-Chandler,
as a Servant, from the 10th of May,
1740, unto this Day, the 1fl of March,
I have always attended Mr. Arthur
Gardiner whilft in Town, unto the
Time of his Death, which was in January

<sup>6</sup> nuary laft, and do affirm, to the beft <sup>6</sup> of my Knowledge, that he never took <sup>6</sup> any Pills, or other Medicines, of Mrs. <sup>6</sup> Stephens, till the latter End of July <sup>6</sup> laft, which then he took by way of <sup>6</sup> Prevention. I farther remember, that <sup>6</sup> Mr. Gardiner declared, about the <sup>6</sup> Month of May 1740, he never took <sup>6</sup> any Medicines fince he had been cur'd. <sup>6</sup> And having been to vifit Mrs. Stephens, <sup>6</sup> fhe was very angry with him, becaufe <sup>6</sup> he would take none to prevent breed-<sup>6</sup> ing of the Stone afrefh.

#### RACHAEL COMPTON.

Middlesex, to wit : Sworn voluntarily before me this 1st Day of March, 1741.

THOMAS DE VEIL.

### AFFIDAVIT II. Westminster. • Elizabeth Golder, of Whitehall, vo-

Iuntarily maketh Oath before me, one
of his Majefty's Juffices of the Peace
for the City and Liberty of Westminfter, that she this Deponent, on the S
20th

<sup>6</sup> 20th Day of *July* laft, went to Mrs. Ste. <sup>6</sup> phens to confult with her about taking <sup>6</sup> her Medicine for the Stone, and found <sup>6</sup> Mr. Gardiner with Mrs. Stephens, <sup>6</sup> who hearing this Deponent talk to <sup>6</sup> her on that Subject, he told this <sup>6</sup> Deponent, that he had been cured of <sup>6</sup> the Stone by Mrs. Stephens's Medi-<sup>6</sup> cines, and had quite difcontinued tak-<sup>6</sup> ing the fame for two or three Years, <sup>6</sup> to the beft of this Deponent's Remem-<sup>6</sup> brance ; and that he then was appre-<sup>6</sup> henfive there was another Stone ga-<sup>6</sup> thering, and ordered Mrs. Stephens to <sup>6</sup> fend him a Pound of Pills that Day.

ELIZ. GOLDER.

Sworn voluntarily before me the 2d Day of March, 1741-2.

#### JA. FRASER.

# AFFIDAVIT III.

Westminster.

Joannah Stephens voluntarily maketh Oath before me, one of his Majefty's Juffices of the Peace for the
City and Liberty of Westminster, that
Arthur

Arthur Gardiner of Fetter-Lane, ' Gent. left off this Deponent's Medi-' cines about the Beginning of Septem-' ber 1739; and was, to the best of this \* Deponent's Judgment, cured of the \* Stone at that Time; and this Depo-'nent then endeavoured to perfuade ' him to take one Dofe a Week, to keep "the Veffels clear from Gravel, which the faid Mr. Gardiner entirely neg-· lected. And this Deponent declares, ' that he never had any Medicine of her ' in what Shape foever from that Time to the Month of July, in the Year \* 1741, when he came to confult this ' Deponent, he being apprehenfive of \* fome fmall Stone or Gravel being fell \* from the Kidneys into the Bladder.

JOANNAH STEPHENS.

AFFI-

Sworn voluntarily before me the 4th Day of March, 1741-2.

JA. FRASER.

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#### AFFIDAVIT IV. Westminster.

' David d'Escherny voluntarily mak-' eth Oath before me, one of his Ma-' jefty's Juffices of the Peace for the ' City and Liberty of Westminster, that ' Mr. Arthur Gardiner came in July ' last to Mrs. Stephens's House, who 'happened not to be at Home then; ' and he told this Deponent, that he ' wanted to advife with her about fome ' Complaint he had in his Bladder, hav-'ing been her Patient, and thoroughly ' cured by her Medicines. And this ' Deponent afk'd him, whether he ne-' ver had taken fome fince, to prevent ' the breeding of Gravel? who answer'd ' this Deponent, that he had always ' been from that Time free from Pain ' till lately, and had took none, nor ' would not, till he could fee her the ' faid Mrs. Stephens.

D. D'ESCHERNY.

Sworn before me the 4th Day of March, 1741-2. JA. FRASER.

The

The Sum of these Evidences runs thus:

By the Certificates of those credible Perfons who faw him every Day while he spent his Summers at St. Albans, it is plain, Mr. Gardiner took Medicines for his Complaints commonly every Day; his own Difcourfes with them upon it confirm it; and Mr. Strong's Narration is not to be doubted, whole Family were Witneffes to his fwallowing fixty Pills every Day, especially for two Months last Summer : And it is certain from Dr. Hartley's own Confeffion, that he had in December 1740, fome Complaints, which he advifed with him about, upon which the Soap-lees were ordered.

And yet Rachael Compton fwears, that to the best of her Knowledge, the Patient never took any Pills, or other Medicines of Mrs. Stephens, from the 10th of January 1740, to the latter End of July last. This Evidence cannot prove any thing, for he might have S 2 had

had and taken them, unknown to any Servant, if there were fifty in the Houfe,

Mr. Strong proves he took them all the Months of July and August, and yet this Woman fwears he came to Mrs. Stephens in the latter End of July to get fome, and that then it was only by way of Prevention ; as if he had had no Complaints fince he was faid to have been cured. However, it is faid by this Evidence that he had vifited Mrs. Stephens in May 1740; and if Mr. Gardiner had at any time declar'd he never took the Medicines, nor had any Complaints till the latter End of July last, he must have belyed himfelf; becaufe Dr. Hartley proves he had, for which he took the Soaplees.

Eliz. Golder fwears, that on the 20th of July laft fhe met Mr. Gardiner at Mrs. Stephens's, and talking on the Subject, he declared he had been quite cured by the Medicines, and had difcontinued them for two or three Years, to the beft of

of her Remembrance; and that he was then apprehenfive he had another Stone, and ordered fome Pills. It looks, in this Evidence, as if Mr. *Gardiner* fpoke to pleafe Mrs. *Stephens*, and promote the Sale of her Medicines, if he was there at that Time. To hear him fay a Thing, and to know whether he did or did not fuch a Thing, are very different; therefore this Evidence fignifies nothing.

Mrs. Stephens fwears, fhe thought Mr. Gardiner cured in September 1739, and that he never had any Medicines from her, in what Shape foever, from that Time to the Month of July 1741, and that he entirely neglected taking a Dofe a Week by way of Prevention. How could the fwear he had entirely neglected it? Did she perpetually watch him wherever he went? And might not he have had Medicines elsewhere ? for they were published in the Gazette of June 16, 1739, which was about three Months before he left them off, and prepared by many, as I have before observed.

S 4

Dr.

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Dr. D'Escherny swears, he met Mr. Gardiner at Mrs. Stephens's House in July last, and assk'd him whether he had never taken any Medicines to prevent the Breeding of Gravel; and that Mr. Gardiner answer'd, that he had always been free from Pain till lately (from the Time of his being cured) and had took none, nor would, till he faw Mrs. Stephens.

It is strange he should fay he was always free from Pain till lately, when he apply'd to Dr. *Hartley* in *December* 1740, for a Remedy in his Pain.

In the whole Matter, there is nothing in thefe Evidences that can prove he took no Medicines : for hearing a Man fay this or that, and affirming a Thing to the beft of one's Remembrance or Knowledge, I believe will not be allow'd fufficient to prove any thing before impartial Judges.

CASE

of THEOD. BRINKMAN, E/q;

Defendent Capacity Coto

# CASE IX.

+The Case of THEODORE BRINK-MAN, Esq; Valet de Chambre to his Majesty.

TE has been much troubled with Pains in his Back, frequent ' Irritations to make Water, and a ' Scalding; has at times voided Gra-' vel and Slime ; had fudden Stoppages ' of Urine in a full Stream, and felt a ' Provocation to go to Stool when he ' made Water. He was however able ' to ride in a Coach, till at last he ' made bloody Water, and could not ' bear it any more; and as his Paroxifms ' had come upon him for fome time ' fo much worfe, that he had no Reft " Night nor Day, he refolved to make ' use of Mrs. Stephens's Medicines, and . has now taken them for about five ' Months.

t See View of the prefent Ewidence.

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. Months. The three or four first · Days, he fuffer'd a great deal with \* the Sharpness of Urine, but ever fince ' has had much lefs Pain, and makes ' Water more freely, nor has he the ' fudden Stoppages before mentioned; \* the Provocations to go to Stool at the ' time of making Water, are likewife ' in a lefs Degree. He voids much . Mucus every Night with his Urine, ' and the Glaffes in which it is kept, · have a fandy Concretion flicking to ' their Sides. He has alfo feveral times ' parted with little whitish, folid, rough · Particles of hard Matter; he feels of-' ten a Heavinefs, with a Sinking and " Burning at his Stomach, efpecially in " an Evening; which yet he had in a " greater Degree before he begun the . Medicines. Upon the whole, he is · confiderably relieved as to his Symp-' toms, has a good Appetite, and is free ' from Sicknefs; but he ftill feels that \* his Kidneys are far from being clear, \* having from time to time Pains in his · Back, with an Irritation to make . Water, and a Scalding.

RE-

# of THEOD. BRINKMAN, Efq;

REMARKS.

URING the use of these Medicines, we find (1.) this Gentleman voided much Mucus every Night; this the Medicines were very capable of fcraping off, as in the Cafe of Dr. Kirk-Patrick. And (2) the Glaffes in which the Urine was kept, had a Sandy Concretion flicking to their Sides. It is a wonder this should happen during the use of the Medicines, in this Patient, becaufe it is elfewhere boafted, that the medicated Urine diffolves fuch Concretion. And indeed one would imagine, in the Defcription of his Cafe, that he received confiderable Benefit ; but whatever Services the Medicines may be faid to have done this Gentleman, it is very plain he had not a Diffolution of the Stones in his Bladder, tho' he took them five Months; for he continued to " have from time to time Pains ' in his Back, with an Irritation to make "Water, and a Scalding ;' and befides, when he died in his Return from Hanover with his Majesty, at Harwich, foon after his Landing, feveral Stones were found in his Bladder;

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#### KREESEEEEEEEEEEEEEEEE

# CASEX.

# The Cafe of RICHARD SYMONDS ‡.

' IG. 3, and 4, reprefent a Stone taken from Richard Symonds. · He was feventy-eight Years old, had ' been afflicted with the Stone for about ' three Years, and was quite worn out ' by his Pains, a Loofenefs, Palfy, and 'old Age. He took the Medicines al-" moft fix Weeks, but not in full Quan-' tity, on account of his Loofeness and ' great Weaknefs. He voided many ' Scales, his Urine deposited a Sedi-' ment like wet Mortar, and he was al-' most entirely freed from his calculous ' Complaints. Upon this he left off ' the Medicines, and died about a Fort-' night after, having fcarce felt any · Uneafinefs from the Stone in that Inter-

I Supplement to a View of the Present Evid. p. 93.

#### of RICHARD SYMONDS.

Interval. Mr. Sharp open'd his Body,
and took the Stone, here reprefented,
out of his Bladder.

' The Parts of the external Shell, ' which are left on, are in feveral Pla-' ces more than one eighth Part of an ' Inch thick. This Stone was fo foft ' while wet, that it crumbled with the ' flighteft Touch of the Fingers ; which ' was probably the Reafon of his being ' eafy, notwithstanding that he had fo ' large and fo rough a Stone in the Bladder. It was also covered with a ' very thin Coat of a redifh brown ' Colour, feeming to have been gene-' rated in the Interval of his Difuse of · the Medicines; for the Parts under-' neath were white, as if acted upon ' by the medicated Urine.

#### REMARKS.

IN this Cafe, fix Weeks taking the Medicines, and that not in full Quantity, are thought to have done more than many Months in others. But 2 why

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why fo favourable an Approbation of their Action for fo fhort a Time here ? Why truly, here is a Stone found in the Bladder after his Death, with an unequal Surface, which it is readily faid is from an Erofion made by the Medicines. This might have been the Cafe, but it is as probable that it might not, therefore the Queftion is very doubtful: However, for Evidence, the latter Suppolition feems most likely, because here is as large a Stone as this taken from the Bladder of the young Gentleman mentioned before, having the fame Appearance of Erofion in all Refpects; ( as alfo those of the old Woman) which are, in proportion to their Size, more eroded than any produced. This naturally leads me to alk two Queftions upon the Cafe. 1. If the Stone taken out of Mr. Symonds's Bladder had no Signs that favoured the Doctrine of Erofion, but was a fmooth Stone, would it not have been maintained that fix Weeks Time, and not having taken the Medicines in due Quantity neither, could not be expected to have done any thing ? fince

#### of RICHARD SYMONDS.

fince in other Cafes fo great a Quantity of the Medicines, and fo long a Time of taking them are thought hardly fufficient. And, 2. If the aforefaid young Gentleman and Woman had taken the Medicines, would not the Erofions of their Stones have been attributed to the ufe of them ? for I obferve it is a matter of too great Moment, to let flip any *Hint* favourable enough to illustrate an Efficacy in them.

It is allowed here, as well as in other Places, that any Sediment or mucous Matter in the Kidneys or Bladder may be washed away by faponaceous Medicines; but that does not prove that he was entirely freed from his calculous Complaints, because the Stone was taken out of his Bladder in a Fortnight after. But whatever Ease he had, it is no hard Matter to account for it. The Man was very Old, and had Pally, Loofene/s, and Weakne/s, all Signs of a relax'd Habit of Body ; it is no wonder then, that just at the Period of his Life, the Paralyfis should have become general,

neral, and Senfation be loft in the Bladder. Or if this Reafon will not fuffice. and that it be faid the Medicines gave him that Eafe, it could have been brought about but two Ways, as is before observed : 1. By increasing the Relaxation of all the Solids in this old relaxed Body; or, 2. by fmearing over the Stone with the faponaceous Matter, and hindering its Preffure from being fo fenfible. I believe both were concern'd : the whole of his Cafe flews the first, and the Mortar Sediment, and the Softnefs of what is in this Cafe accounted the Surface of the Stone, feems to demonstrate the latter. As to the brown Coat, faid to be generated between his leaving off the Medicines and his Death a Fortnight after, I leave to every Judge to determine (whether fuch an Encreafe could happen in fo fhort a Time, and almost in Articulo Mortis) without faying any more about it.

CASE

### of ROBERT WOOD.

# CASE XI.

# The Cafe of ROBERT WOOD +.

'IG. 5. and 6. represent a Stone taken from the Bladder of Ro-' bert Wood by Mr. Hawkins. He was 68 Years old, infirm and afthmatical, and died of a Pleurify, after he had ' taken the Medicines for about half a ' Year, in which Time he voided feveral ' Pieces. As to his Pains, they were ' rather lefs during his Ufe of the Me-' dicines than before. The Manner in ' which the medicated Urine acted upon ' this Stone, is very fingular; the upper ' Part being worn away into a fharp ' Edge, on each Side of which the fe-' veral Coats appear, whereas the lower ' Part feems almost untouched.'

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+ Supplement to the View of the Pref. Ewid. p. 64.

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#### REMARKS.

Here does not appear any thing particularly new in this Cafe, except that the Stone had Signs of being acted upon on one Side, and not on the other; but, as we have flow'd elfewhere, the Appearance of Erofion is no certain Sign of the Medicines having done any thing, becaufe that is common to other Stones where no Medicine is exhibited.

It is faid above, that his Pains were rather lefs during the Ufe of the Medieines than before; hence we find the Medicines extremely remifs in their Duty in this poor Man, neither eafing his Pain, nor diffolving the Stone; for "rather lefs" does not amount to a whole Degree of Comparison.

In fhort, Mr. Wood took the Medicines about half a Year, died, and being opened, had a Stone in his Bladder.

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# of ROBERT WOOD.

If it be faid, the Pleurify kill'd him before he had taken the Medicines long enough; it may very naturally be anfwered, that half a Year is a long Seafon to be in the fame Situation of Pain and other Inconveniencies, notwithftanding the Ufe of the Medicines all the Time; and, as in other Cafes, if he had lived out the other Half Year, the fame might ftill be the Excufe, fince it is allowed by Dr. *H.* that, in general, one cannot be certain what Time the Medicines will take up in making a thorough Cure.



# T2 CASE

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# CASE XII.

# The Cafe of Mr. STANTON +.

FIG. 12, 13, 14, 15, 16. repre-fent five fmall, angular Stones, ' with plain polifhed Sides, on which ' the Order of the Coats is vifible. Mr. ' Sharp took them out of the Bladder ' of Mr. Stanton, who died fuddenly, ' aged about 70. He had taken the ' Medicines for about two Months be-' fore his Death, had received great Eafe from them, and voided a few Scales. ' Now, as all Stones grow by the perpe-' tual Addition of Coats quite round, ' it is evident thefe, in which the feveral ' fucceffive ones are vifible, and by Con-' fequence the internal Structure ex-' pofed, must have been in a decreasing State.

RE-

+ Supplement to View of the pref. Ewid. p. 65.

# of Mr. STANTON.

### REMARKS.

THIS Patient has five polifh'd Stones found in his Bladder after a conftant taking the Medicines for two Months; and becaufe this, as well as other Cafes, makes greatly against any Efficacy in the Medicines, as to the diffolving Power afcribed to them, a Method must be found to palliate the Cenfure that must naturally arise from its Want of Efficacy here, and that is, that tho' the Stones were polifhed, yet there was a vifible Decreafe by an Appearance of its Coats. There can be no better Proof against a Decrease in the Stones, or the Action of Medicines upon them, than their being polifhed. It would be much a better Excuse upon finding a Stone but very little rough, to affirm it had been polifhed, but was made rough, (as is done elfewhere) by the Medicines; tho' in other Cafes we have amply shewed there are white, brown, rough, eroded, fcaly, &c. Stones in those who never took the Medicines. Facile

Facile est inventis addere. Accidental Lines upon smooth Stones, may be compared to divers Things, one may fancy them like Salamanders or Meremaids, as well as Orders of the Coats of the Stone itself, rubb'd off as if with a polishing Tool in the very Bladder. But be that as it will, it is plain the Man died, his Death was fudden, Stones were found.



note who never took oc



# of WILLIAM PAYNE.

From the Transactions of the ROYAL SOCIETY, N°. 462. which, not coming to Hand before all was printed off, occasion'd this as an *Appendix* only to the first of the Cases.

An Account of the Cafe of William Payne, with what appeared upon examining his Kidneys and Bladder, when his Body was opened; by Mr. George Bell, Surgeon.

WILLIAM Payne, aged about feventy-one, had been afflicted with the Stone in his Bladder, and other calculous Complaints, for feveral Years : He had taken Mrs. Stephens's Medicines for fifteen Months.

He was fubject alfo to a ferotal
Rupture on the left Side, from which
however he fuffered no great Inconveniency, unlefs upon Neglect of his
Trufs, which he had been directed to
T4 'wear;

wear; and even then, if the Inteftines came down, he used to return
them with Ease.

' About the Beginning of January ' last, he was attacked with a fevere · Fit of the Stone, attended, upon e-' very Attempt to make Water, with a ' ftrong Tenefmus, that forced into the · Scrotum a confiderable Quantity of ' the Inteffines, which exceeding his · Skill to reduce, he fent for me. I found ' the Tumour large and unequal, but ' without much Tenfion or Inflamma-' tion; his Pulse low, with clammy · Sweats; he complained of violent · Pains in his Back, propagated thro' the ' whole Length of the Ureters, ac-' companied with Naufea and Vomit-' ings; he felt exquisite Pain about the ' Neck of his Bladder and Glans, with ' an unufual Weight in Perinæo; he · had frequent Inclinations to make ' Water, but feldom made above a · Spoonful at once, and that Drop by ' Drop, with much Pain and fudden Stoppings: The Urine was extremely · fetid,

# of WILLIAM PAYNE.

fetid, fometimes mixed with purulent
Matter, at others, ting'd of a Coffee
Colour.

He had received juft before I faw
him, a Clyfter, which produced two
Stools, and encouraged me to hope,
might facilitate the Reduction of his
Rupture. I attempted it by all neceffary Means poffible, but without
Succefs : For altho' the largeft Part receded and gave way, yet a confiderable
Portion remained, which I could not
poffibly return. I therefore concludcd, as the Inteftines performed their
Office, and were free from Tenfion,
Inflammation, Gc. that the Parts adhered ; fo left him, with Directions
for a Bag-Trufs to fupport them.

January the 22d, being inform'd
of his Death, I applied for Leave to
open him, which was granted. In
examining the Contents of the Abdomen, I found the left Kidney quite
wafted, fcarce any thing remaining
except the Coats, and those filled
with

with Blood and purulent Matter; the
Ureter very much inlarged above its
natural Capacity, and full of the fame,

' The right Kidney was ulcerated in
' feveral Places, and full of purulent
' Matter, mix'd with Grit, feveral Hy' datids appeared upon its external Sur' face ; the Ureter was fomewhat in' larged.

I next examined the Bladder, which
was exceeding large, and contained
above three Pints of clear Urine;
upon opening it and introducing my
Hand, I found two fmooth flattifh
Stones, fomewhat larger than common
Windfor Beans: I difcovered a third
in the Neck of the Bladder, which
probably had been forced there during the Paroxyfm, and appeared to me
to be the immediate Caufe of his
Death: It was about the Size of a
Filbert, and had quite corked up the
Paffage.

ding .

Upon

# of WILLIAM PAYNE.

<sup>6</sup> Upon diffecting the Hernial Bag, <sup>6</sup> the first Part that prefented was a <sup>6</sup> large Piece of Fat, about half a Pound; <sup>6</sup> and immediately underneath it lay a <sup>6</sup> large Portion of the Colon, in Length <sup>6</sup> about 10 Inches; the internal Surface <sup>6</sup> of the Peritoneum was strongly at-<sup>6</sup> tach'd to the Colon by feveral Fila-<sup>6</sup> ments, and to the Scrotum by its <sup>6</sup> cellular Substance.

All the other Viscera were in a natural State.

Read Feb. 4. 1742.

FINIS.



#### Just Published,

Printed for J. BRINDLEY, Bookfeller to his Royal Highnefs the Prince of WALES, at the King's Arms in New Bond-street.

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Fune

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the Hague, under the Infpection of the late Learned Dr. Boerbaave, by Gaspar de Saunier, Riding-Mafter and Director to the famous Academy at Leyden; with the Addition of all his Father's Receipts and Remarks, who was many Years Inspector-General of Lewis the XIVth's Great Stable.

The principal Defign of this Treatife is not only to fhew the Seat of all Difeafes, but to leffen the Quantity of Medicines; and to give proper Directions for the Dofes neceffary to be given in every Diforder, with the eafieft and beft Manner of compounding them, as well as to abate the Expences thereof ; with Cuts to explain the beft and most proper Instruments for the Performance of each Chirurgical Operation. The whole being writ in fo familiar and eafy a Stile, that we venture to affure the Publick, it will be the moft beneficial and ufeful Book in its Kind hitherto extant in the English Language. To this Part will be added, two compleat Indexes, the one of Difeafes, and the other of Medicines; as alfo in order to give a more perfect Idea of the different Subjects, all the Anatomical Prints, representing the Muscles, Bones, &c. will be wrought off in their proper Colours.

N. B. The great Number of Perfons of Quality and Diffinction, whom the Proprietor has had the Honour to confult, and who have affisted him in this Undertaking (to whom he now returns

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returns his most humble Thanks) enable him to promise a more perfect Work, than has ever before appeared: And as by this Means he has had the several Parts of it revised by Gentlemen, the most perfectly skill'd in each particular Branch, he therefore hopes to make amends for that Delay, which unavoidably attended so much Care and Exactness.

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<sup>1</sup>. THE Price to Subscribers will be four Guineas; one Moiety to be paid at the Time of Subscribing, the Remainder on Delivery of a perfect Book in Sheets. The first Volume has been finished near two Years, and both will be ready to deliver to the Subscribers about the latter End of July.

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