A compleat treatise of the muscles: as they appear in humane body, and arise in dissection; with diverse anatomical observations not yet discover'd. Illustrated by near fourty copper-plates, accurately delineated and engraven / By John Browne.

Contributors

Browne, John, 1642-approximately 1700. Casseri, Giulio Cesare, approximately 1552-1616. Tabulae anatomicae. Molins, William. Myskotomia.

Publication/Creation

In the Savoy [London]: Printed by Tho. Newcombe for the Author, 1681.

Persistent URL

https://wellcomecollection.org/works/njeu89r8

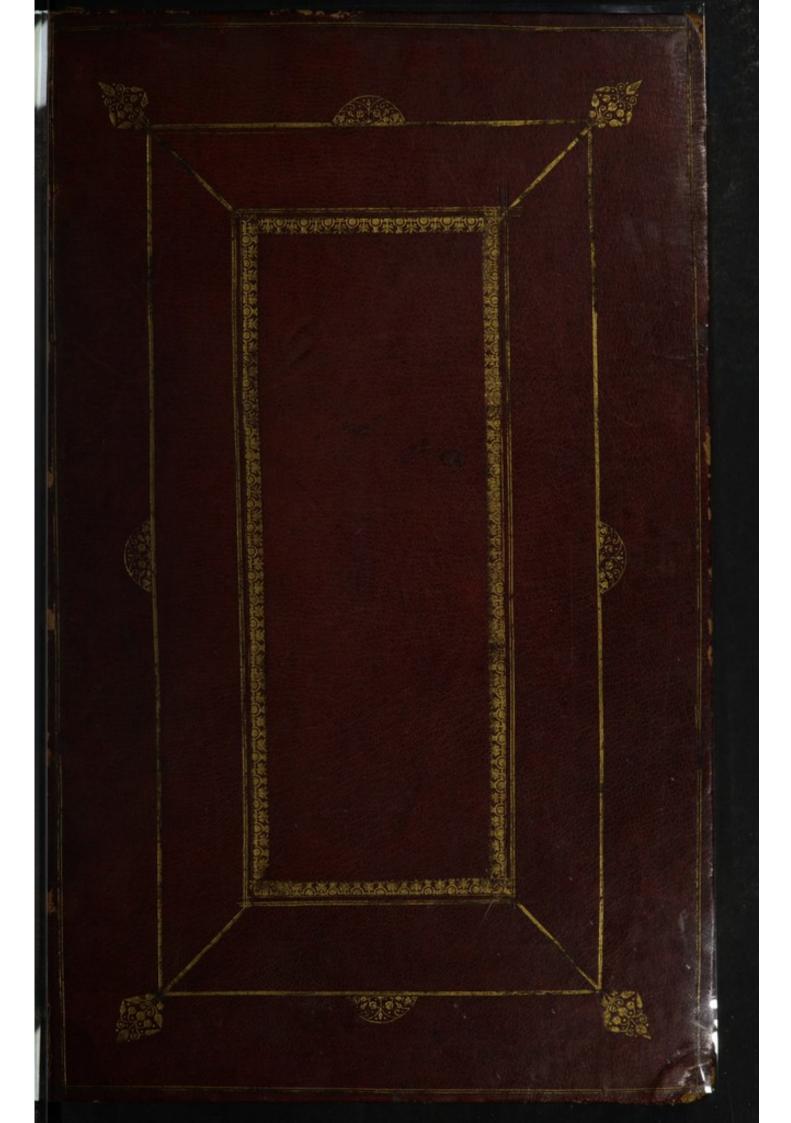
License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org

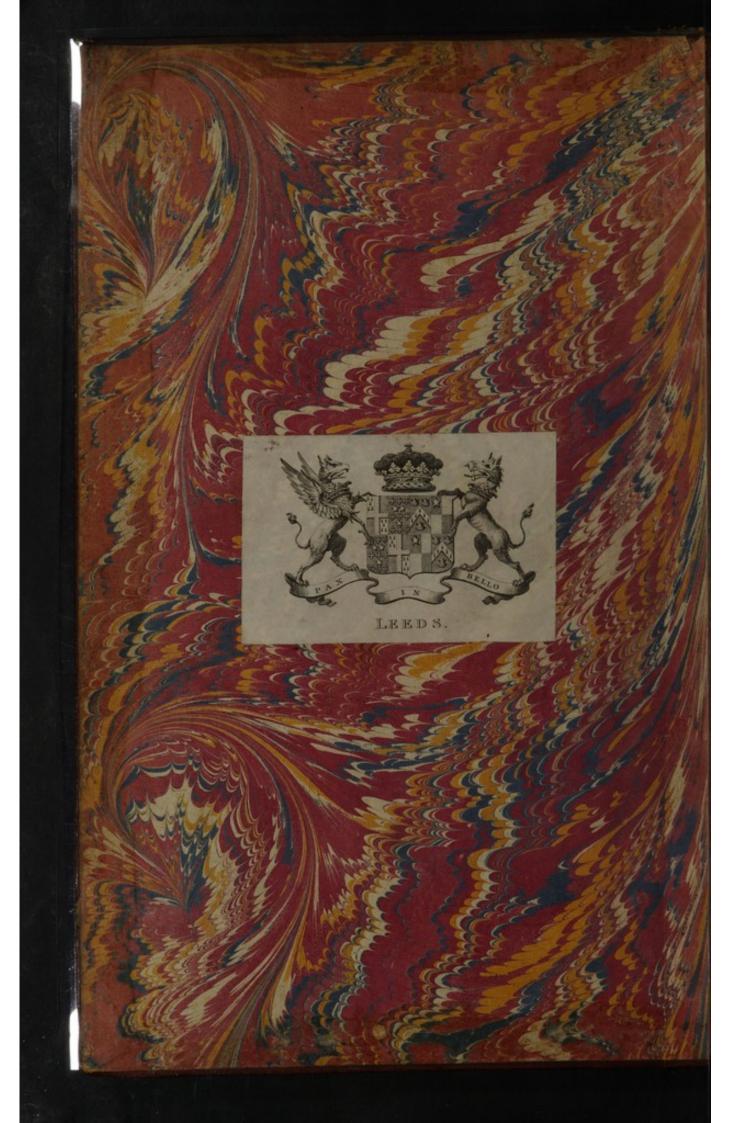


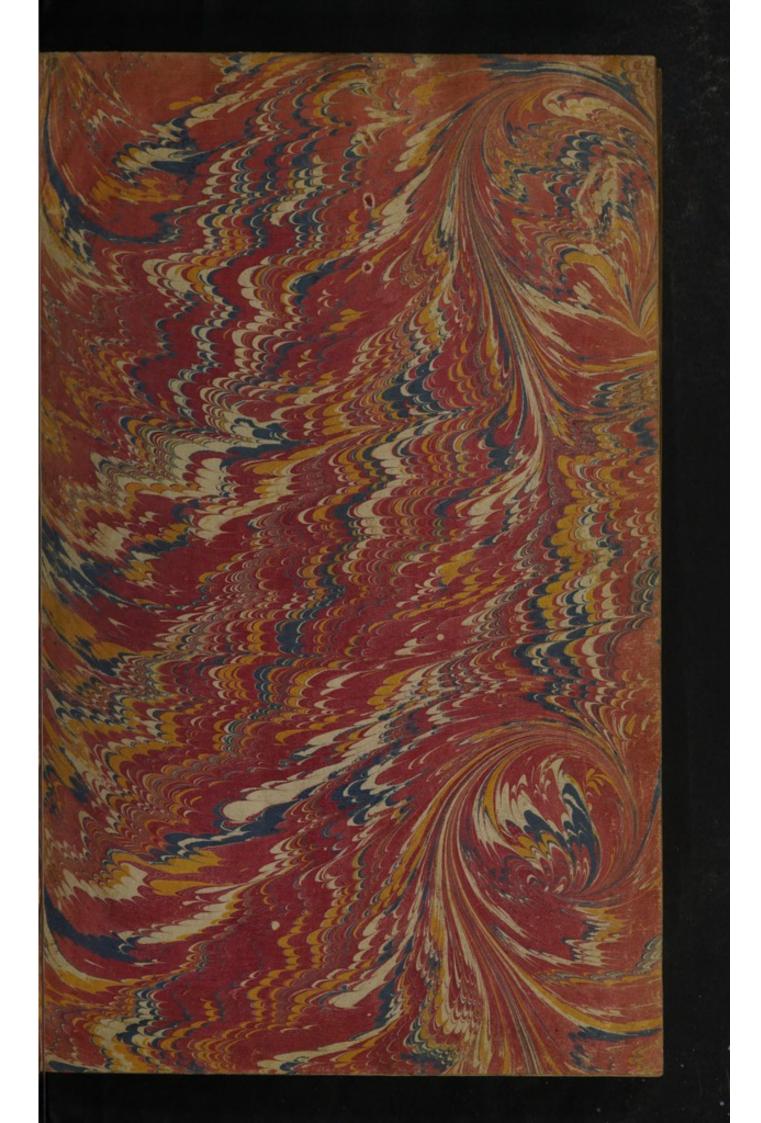








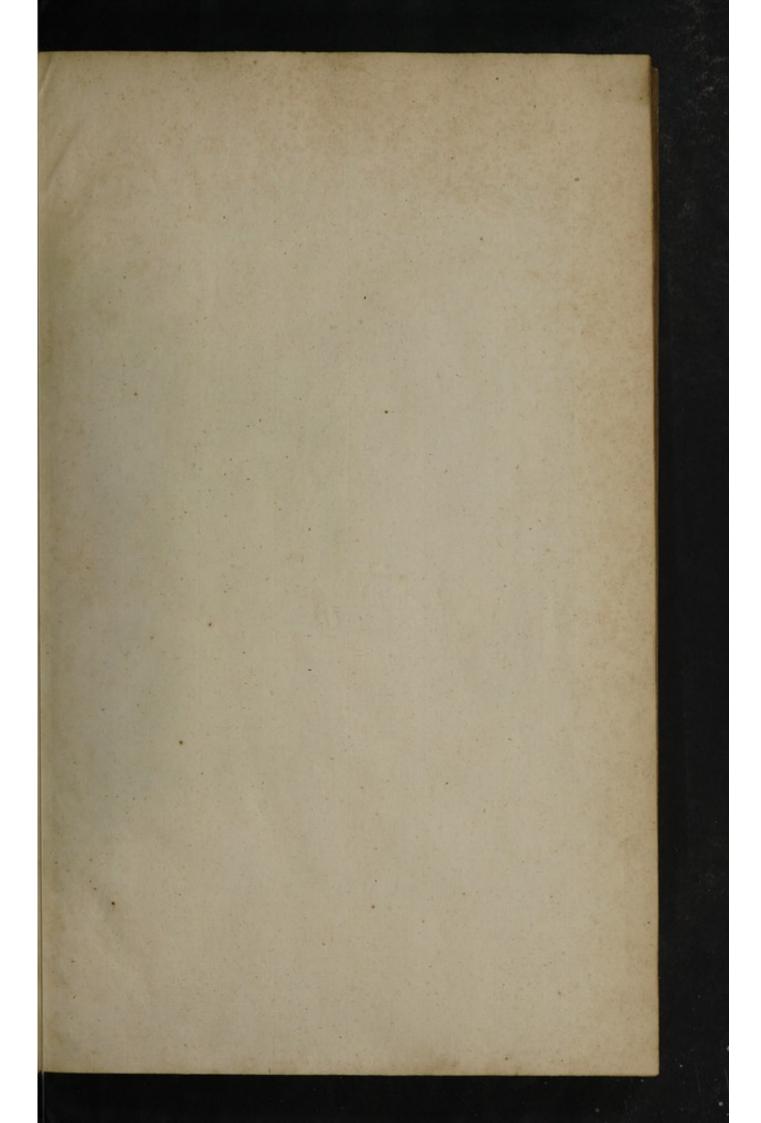


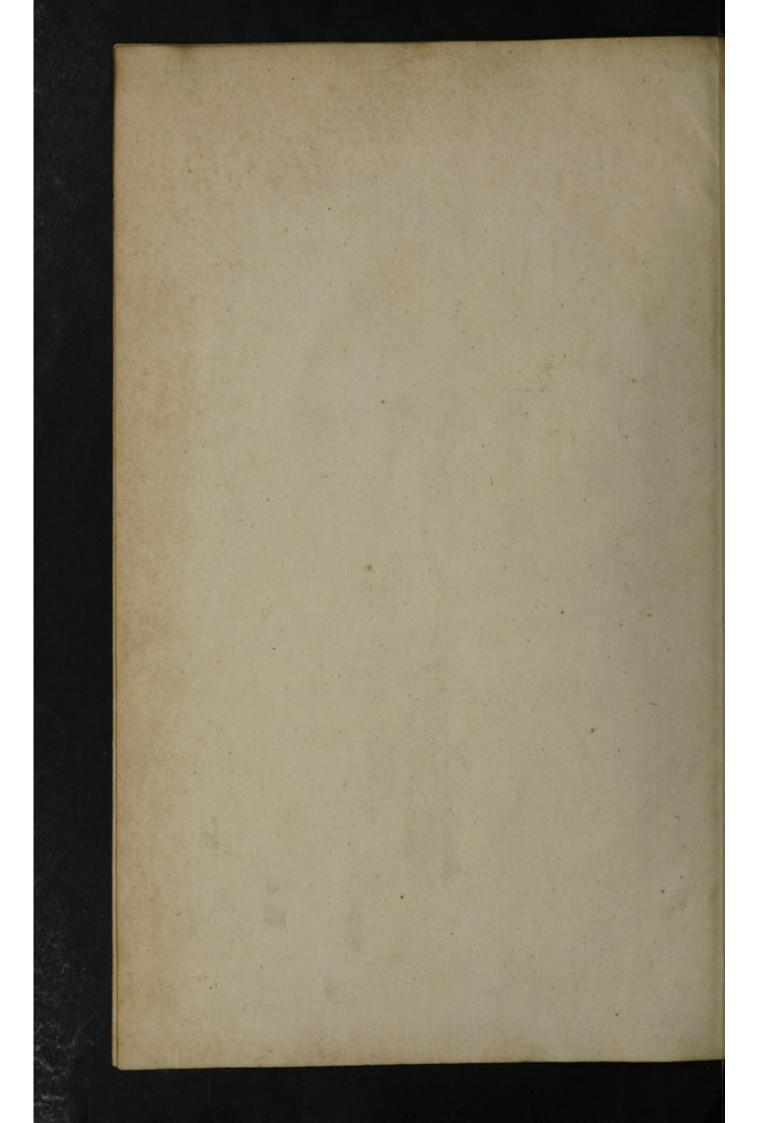


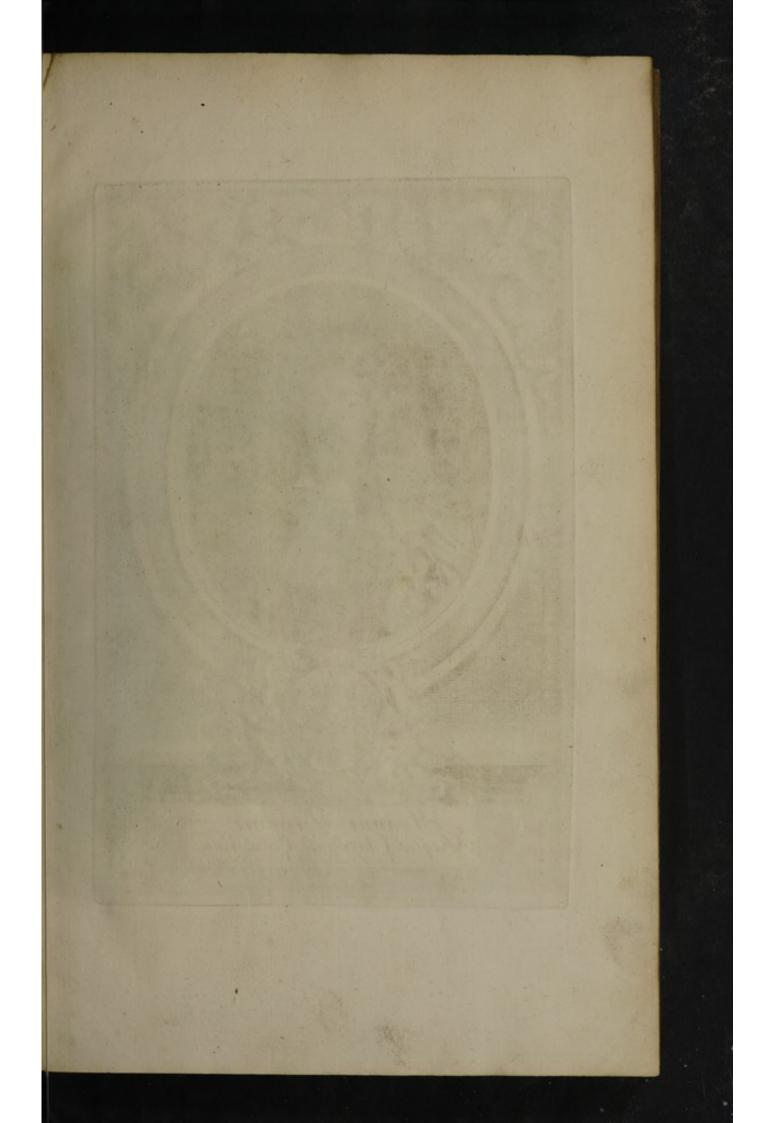
15693/5/1:

D.1V d

Lacks plate xil









A

Compleat Treatife

OF THE

MUSCLES,

As they appear in

Humane Body,

And arise in

DISSECTION;

With Diverse

Anatomical Observations
Not yet Discover'd.

Illustrated by near Fourty

COPPER · PLATES,

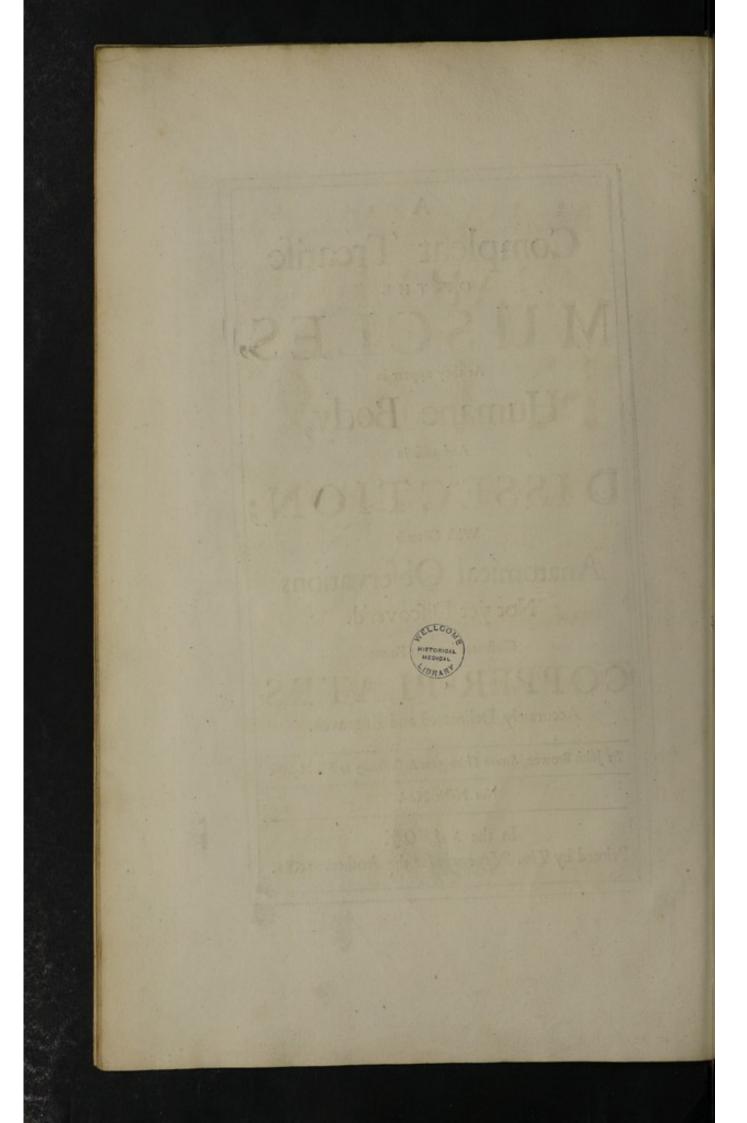
Accurately Delineated and Engraven.

By John Browne, Sworn Chirurgeon in Ordinary to His Majesty.

Non Nobis Nati.

In the SAVOY.

Printed by Tho. Newcombe for the Author. 1681.



TO HIS

Most Sacred Majesty CHARLES II.

By the Grace and Providence of God

KING

OF

Great Brittain, France, and Ireland,

Defender of the Faith, &c.

THESE

Anatomical Exercitations

OF

MUSCULAR DISSECTION,

Are most Humbly Dedicated, by

Your Majesties

Most Loyal Subject,

And most Obedient Servant.

John Browne.

TOHIS

Moft Sacred Majefly CHARLES II.

By die Grate and Providence of God

RING

30

Offender of the Faith, &c.

Anatomical Exercitations

MUSCULAR DISSECTION.

Are most Humbly Dedicated, by

Your Majellies

Most Loyal Subject,

And moft Obedient Servant,

John Browne.

Charles R.

HARLES By the Grace of God; King of England, Scotland, France, and Ireland, Defender of the Faith, &c. To all Our loving Subjects of what Degree, Condition, or Quality Joever within Our Kingdom and Dominions, Greeting: Whereas it hath been manifested unto Us, that Our Trusty and Well-beloved John Browne Esq; one of Our Chirurgeons in Ordinary, hath not only with great Art, but at the Expence of much Time and Charge, delineated, described, and accurately Engraved in Copper-plates an Anatomical Treatile of Muscular Dissection; which performance of his is to Our great liking and satisfaction, so that We may express Our Approbation thereof, and give him all due and ample encouragement for the future; We do hereby signifie Our Royal Pleasure, granting unto the faid John Browne the fole Priviledge of Printing the aforesaid Treatise with its Copper Figures; and strictly Charging, prohibiting and forbidding all Our Subjects to Copy or Counterfeit any the Sculptures or Description aforesaid, either in great or Small, or to Import, Buy, Vend, Otter or Distribute any Copies or Exemplars of the same Reprinted be= yond the Seas within the term of Fifteen Years next enjuing the Date of this Our License, and Prohibition, without the Confent and Approbation of the Said John Browne, his Heirs, Executors and Assigns, as they and every of them to offending will answer

the contrary at their utmost Perils; Whereof as well the Wardens and Company of Stationers of Our City of London, the Farmers, Commissioners, and Officers of Our Customs, as all other Our Officers and Ministers whom it may concern, are to take particular notice that due Obedience be given to this Our Royal Command.

Given at Our Court at Whitehall this 22th Day of Nov. in the Three and thirtieth Year of, Gc.

By His Majesties Command,

and Charge, delinened, defathers, and seem nels Linguistics in Copper-plates an Anatomical Treatle of

des en dad cambro et mosque L. Jenkins.

express User Approbation thereof, and core that its medand ample sences general for the same that and approbation thereof, and core that all discovered ample Our Koras Plenton, greating mice the said John Browne the sole servicions of Printong the ascressing probibiting and firstly Charging, probibiting and firstly Charging, probibiting and firstly the Sculptures or Description associated, either in great or Sculptures or Description associated, either in great or sole some the season to the same store in great or sond the Seas within the term of Priving Season the sond the Seas within the term of Priving Season that the biblion, without the Coolers and Approbation of the said John Browne, his Heirs, Excourse and African as they and every of them to offending with anywer as they and every of them to offending with anywer as they and every of them to offending with anywer as they and every of them to offending with anywer as they and every of them to offending with anywer

To His Grace CHRISTOPHER Duke of Albemarle,

Earl of Torington, Baron Monck of Potheridge, Beauchamp, and Teyes, Knight of the Most Noble Order of the Garter, One of the Gentlemen of His Majesties Bed Chamber, One of His Majesties most Honourable Privy Council, Lord Lieutenant of the Counties of Devon and Essex, And Captain of His Majesties Guards of Horse.

May it please Your Grace,



IS Majesty having been Graciously pleased not only to take a view of, but to allow the Publication of this Treatise of Muscular Diffection; Now after Him it waits at Your Graces Feet, imploring Your Pardon

for its Presumption: But Your Generous Spirit always encouraging the Industrious Man, breathes Life into my Undertaking, by which Your Grace does declare to the World Your valuable Goodness, as well as Your substantial Honour: You never exercising Your self in little Designs, but in the Publick Service of Your King and Countrey;

Clarissimis, Doctissimisque Viris D.D.

Præsidi & Sociis Collegii Regalis Medicorum Londinensium, Myologicam hanc exercitationem ex animo lubens ac merito Dicat Dedicatque, J. Brown.

*** Ulantum Lucis Scientiæ conferat Methodica Institutionis ratio, non vobis folummodo (Literatorum Coryphæi) fed & Tyronibus etiam omnibus tam clarum ett, quam quod Clarisfimum. Partes enim fi Debità ferie tractentur explicenturque, & perspicué abinvicem dignoscuntur, & multó melius a Lectoribus percipiuntur; Quippe quod Ordinata rerum dispositio præcepta, tam Jucundiora, tam faciliora reddat, dum fingula separatim in sua Classe reposita, memoriam adjuvant & oblectant. Ut igitur ista tam manifesta prætermittam, de re ipla dicere liceat. Antiquiores hanc Scientiam Anatomicam in duas partes diviferunt, Actionem, & Contemplationem, quarum alterius ope, quicquid in Cælo, Terra Marique videri usquam possit, in uno homine conspicitur, & tot miracula deteguntur, ut Calamus iis enumerandis oneri fuccumberet, & admiratio nos penitus obruat. Nihil est quod vel à Natura, vel Arte expectari posfit, quod hæc Ars non proferat. Subjectum enim ejus adeo nobile est, nimirum Corpus hominis, ad Imaginem Dei, à Deo creati, ut nihil nobilius sub Sole inveniri possit; & singulas humani corporis particulas adeo eleganter describit, ut Arti simul vestræ Medicorum, & nostræ Chirurgorum

Epistola Dedicatoria.

rurgorum fummo ornamento fiet. Veritatem in abortis mulculorum (& cæterarum partium) meatibus & tenuissimis fibrillis latentem è Tenebris vindicat, & in clarisfimam Lucem revocat. Obscuris Lumen, Obsoletis nitorem, Fastiditis gratiam; Dubiis fidem, & vetustate quasi abrogatis Authoritatem conciliat : Per hanc Medici ferendo Judicio aptiores fiunt; cum Symptomatibus & indicatiombus instructi citius certiusque affirmare queant, quam partem, quâ caufa morbi dolor, urgeat, afficiatque imò ex ipla mortuorum diffectioné dilcunt, & vivis hominibus, bona valetudine utentibus, vitam denuò instaurare, & moribundus Spititum, ne exeat, detinere. Et in hâc equidem praxi nulla unquam ætas fuit (five diligentiam indefeffam, five abundantem Inventorum fælicitatem Spectes) nostra hac aut ditior aut focundior; cujus assidua Cura ac Labor improbus nova non pauca adinvenit, antiqua correxit, & hanc artem ita illustravit, ut jam fere ad culmen perfectionis summum pervenisse videatur. Quod si de Anatomicis videndum esset. Nostrates plurimi extiterunt Heroes, qui ut fidera Cæli, Clarisfima medicinæ Lumina, & veluti Dii Mortales in hac Arte emicuerunt ; Inter quos quanta cum fama Harvæius, Entius, Gliffonius, Whartonus, Charltonus, Willisfitts, Gualterus Nedhamus, Lowerus, cum multis aliis scripserunt, ut Libri & nômina ipsorum celeberrima nullis delenda fæculis testantur. Jam tandem ad vos, Viri Apollinei, mea se dirigit Oratio, sub quoruni Patrocinio Lucubrationes hasce ausus sum divulgare. De vobis dicere fas est; quod quasi Medicorum Principes doctrinæ Jatricæ fines producitis, & Industria quotidiana Artem condecoratis, una & augetis; adeò ut ex Collegio vestro, veluti solo fertili, Inventa

Epistola Dedicatoria.

Inventa fælicissima ad artis propagationem, & Morborum extirpationem indies nascantur. Ad me quod attinet, Non ita arrogens sum, ut aliorum aut dicta, aut sacta mihi ascribere velim, sed potius suum cuique tribuere cupiens, Authorum nomina ad marginem Libri appono, quos in Elencho (eos referente, é quorum scriptis universum hoc opus congestum suit) Invenietis. Nostrum itaque, qualecunque Munusculum, etsi non verbis politum, attamen ad ut litatem hominum aliquo moclo conducens, (quandoquidem veritatis plurimum in se contineat) fronte serena accipite. Valete & Æternum quam sælicissimi vivite,

Sic Orat,

Nominib. Illustrib. & Nobillissim.

of communication of the very Russia, Gil-

police deleteda secuise reflamme. Jam madem ad

Devotissimus & Observantissimus,

John Brown

to to the or or College of a relation of the farille.

To his Highly Esteemed Friend Mr. John Browne, &c.

SIR,

Have through want of leifure, but curforily viewed your History of, and Observations on the Muscles : together with your choice number of their Types and Figures elegantly delineated with your own hand. Yet I think, I did it not fo superficially, but that I may truly and confidently fay, that whoever confiders how profitable, and indeed how necessary the knowledge of the Muscles is, not only in Chirurgery, but in Medicine and Philosophy a fo, (fince the faculty and use of the Nerves which distributes Life and Motion to all parts cannot be underflood and explain'd without it) must, when he hath perused your Brief, Accurate, and Judicious Treatife, of the Muscles, together with your Observations and Animadversions thereon, be so Ingenuous, if he be just, as to acknowledge their great usefulness not only to Chirurgeons, but to Students in Medicine and Phylosophy likewise, and must therefore joyn with me to their Encomium ; and earnestly desire, and importune their Publication as well as

Sir,

Your assured Friend and Servant,

E. Dickinson M. D.

Physician to the Kings Person and Family.

To

To Mr. John Browne on his Treatife of Muscles.

Cannot but commend your Ingenuous Design of making so useful a Book for the benefit of young Chirurgeons, and your Judicious choice of Cuts for that purpose : It is a Book which I am fure the Chirurgeons-Hall doth much want, for the younger fort to bave in their hands in order to their better attending the Learned Reader. And not only fo, but the most able Anatomists will be glad of so compleat a Contraction of so considerable part of Anatomy into one view, where they may at any time recollect themselves, as to their former Readings and Observations. Therefore your Edition of this Treatife cannot but oblige the World, and among ft others,

Charter-House, sa April 14. 79. Alimoth schoolstell bun

of the tas a mar Sir, to

Your bumble Servant,

Wal. Needham.

Yographicum hunc Tractatum ab Expertissimo Viro D. Johanne Browne conscriptum, Medicorum Chirurgorumque Tyronibus, & utrorumque etiam Peritissimis utilem fore Judicat, dend Posmit

Tho. Allen M. D.

Regius Medicus Oridinarius & Coll. Lon. Soc. & Cenfor.

In Laudem Authoris.

Palmam portare meruit; & nè iniquè Judicarem, Legentibus sat erit, tam perutilem, sic perjucundum fore existimat,

Amicus tuus tui ad Aras,

Edvardus Warner.

Med. Personæ Regis Ordinarius & ejus Exercitui M. Generalis.

To his much valued Friend Mr. John Browne.

SIR,

Have read over your Treatife of Muscles, (as my time would permit) and find you have taken great pains and care in your Collections, and made good Observations, and exprest much Art and Industry in your Figures: and (by consulting excellent Authors) have contracted much into little: that a competent knowledge in this part of Anatomy (so absolutely necessary in the safe practice of Chirurgery) may probably be much easier attained to, than formerly by young Indagators; and be a further consumation to others, who have already sweat in the same Study. Therefore I cannot but encourage you to make it publick, by which I surpose you will oblige many who are Friends to such Anatomical Enquiries: amongst whom give me leave to reckon,

Sir,

Martii 26. 79.

Your Affectionate Friend To Serve you,

Edmund King M. D.

Physician in Ordinary to his Majesty.

TO

TOTHE

Ingenuous and Studious

READER.

Curteous Reader,



S Anatomy is generally allowed the best and truest Speculum or Looking-Glass, illustrating, and presenting all the parts of the Body, with their Affects, and Affected Parts, most clearly and evidently: so also is it the main Basis, on

which Chirurgery doth build its fairest Fabrick, and comely Structure. And of what great use this hath been, and is, to Mankind, not only the Ancients, but also Modern Writers do most admirably declare; How this Renowned Art hath in former Ages been treated, and carefully treasured up and Celebrated in Theaters and Anatomical Schools, many Authors have to Posterity voluminously satisfied; And that it still doth get greater footing amongst the Ingenuous and Industrious Sons of Art, every Age doth, and may with admiration evince, and the many Learned Lectures annually read, may both most honourably and happily set forth and demonstrate.

This Art of Anatomy, as it doth require the industrious Study, and accurate care of a curious Enquiry, so also doth it reward his pains with the fewel of Knowledge, and afford his Endeavours the happy issue of a fair success: giving those methods and measures of se-

curity

The Epistle to the Reader.

curity in Chirurgical Practice, which are most consentaneous and genuine for the Industrious Practitioner, to study and search after. This is as his best Compass, whereby he may fail freely in the main Ocean of his Art, without any mistrust or dread of splitting himself upon any Rocks of danger, or Shelves of mistake, for its by this alone, that we arrive at and do gain how our Membranes are made, and spun out of Spermatick Fibres, and how out of Maternal Blood are framed our Muscular parts. It is from this Tree of Knowledge, all the differences between a Vein and Artery are pluckt up: Its this Garden that affords us the various Flowers of Nerves and Tendons, and shews us the different Beds of Ligaments and Bones: It's this Sun that conducts the Understanding, that advanceth the Same into Affection, that promotes our Affections towards our Maker. And come we but to take a view and survey of the symmetry of his parts, and therein but cast our Eye and consider on the rare Offices and Vses which are variously bestowed on them, we ought as well in fuflice, as in Reason, to grant and allow, that nothing in this great Universe may or can surpass him, especially in the exquisite Fabrick of his Muscles, and the variety of their Motion.

Now although Myology hath been by the Ancients thus traced, yet Steno hath quite altered the Fabrick of their design, affirming, that there is in every Muscle two opposite Tendons, into which are inserted two kinds of Fibres, the which being closely annexed do frame the Tendon, and in that part wherein they are loosely intertext, there they do allow of a constituted Flesh, implanting one above another, here placing and disposing the thickness and depth of the Flesh, framing its latitude, and declaring its order of Fibres; and this Figure he describes by a Mathematical Line, taking thence

The Epiftle to the Reader.

their Cannons which do explain their actions; Thus he satisfies, that all the Fleshy Fibres in a simple Muscle, are carried in a direct Line from one Tendon obliquely into another, and these Tendons are intervoven in their opposite ends and angles of the Fleshes; by which he doth ingeniously describe a Muscle to be a collection of moving Fibres, so framed and formed, that the middle Fleshes do frame an oblique angle, and that the two oppolite Tendens do form two Quadrangular Prisma's; this Figure he very accurately represents by Instruments used by Painters, or Picture-Drawers, wherein we see by the application of their Pegs, the true insertion of their Tendons are hereby very well explained, and the Fleshy parts lively delineated: for when they bring their greatest distances from their opposite angles, and being hereby made more acute, these are brought to two fides, and so this Instrument is made both longer and narrower, this shewing the Muscle no way contracted, but rather narrowed, and reduced into a longer body, the length thereof not being changed, fave only in its Position; Thus have we by Steno shewn, a muscle may appear as a simple part consisting of one Venter and two Tendons, as are many of those in the Arm, or Thigh, and in many other parts of the Body; or Compound baving many Venters, to every of which is allowed two Tendons.

In a simple Muscle, because either one Tendon or both ought to be attracted, and because the attracting part is thin, and broad, the Belly of the Muscle doth require for its frame, a diversity of Fibres to answer to the variety of its Figures; whereas Compound Muscles are distinguished by their greater variety of Fibres: for besides this variety of Figures which ought to be observed; so also ought their Venters, being either more or less, with their order of Fibres, and diversity

Steno's defeription of a Mujele, The Epistle to the Reader.

of Frames have a respect allowed them. Therefore shall we find that to every simple, as well as compound Muscle is bequeathed a Membranous covering, invested Membrane with Fleshy Fibres for its direct motion, and is intertext with transverse Fibres for forming it into a Membrane. It bath a Vein and Artery inserted into its middle, send- Arter, ing forth of their Surcules into the oblique moving Fibres, from whence the smaller Ramifications being dispersed through the Interstitia of the Fleshes, doth besprinkle and bedew them with their Afflux of Blood, North. and its Reflux : The Nerve entring herein doth diftribute of its small Branches into its neighbouring Muscles, carrying in it the foul of the commanded action, and commanding its execution in the lower guard of the Fleshy Fibres, and of its Membranous Fibrilla's; And as touching its action, in diffection of living Bodies, we make plainly perceive that it doth contract, but not as the old opinion held: that the Fibres did contract from their ends, towards their Originations, one end of the Muscle being carried through the other; whereas the Fleshy Fibres only, and their ends are seen to be contracted towards their middle, their Tendons being mutable, and not altered either in their longitude or thickness, the which Worthy Steno first observed, the which he doth describe in the Diaphragma, and those Muscles appointed for Respiration, the which is moved by a constant turn, as is cleared and perceived; How oft therefore the Muscle is seen to be contracted, all its Fleshy Fibres in either end are apparently shewn to be driven together, and as it were seen to bow and yield to each other; and hence do seem to appear either shorter or thicker: the which being loofned from its constriction, you will find it to appear in its proper length and thickness, this alteration being produced by the Spirit or subtile Matter which passeth from the Tendons into the Fleshy parts;

The Epiftle to the Reader.

and here stuffing them or filling them up in every place, doth force and compel them to yield hereunto, it tumefying its Fibres; but when this receeds from these Fleshy parts into the Tendons, these Fibres do lessen of their bulk, and do appear in their genuine length and

thickness.

We ought also to speak somewhat of that Matter which keeps them moilt, and here may we offer, that as touching the Humours by which all the Muscular Fibres, Fleshes, Tendons and Membranes are besprinkled and filled, and so hereby seen as it were to run into tumefaction, these are generally reckoned two, (vid.) Blood and Nervous Juyce; As to the first, this is allowed to tinge and wash over all the Fleshy Fibres, and those parts to which they are interwoven, and their Membranes, and to soften them with manifest sense; Thus if Spirit of Wine tinged with Ink, be injected into an Artery reaching a Muscle, the Vein being tied up, you will find all the Superficies of the Fleshy Fibres, and of its transverse Fibrilla's to be covered with blackness, yet will you see its Tendons scarcely concerned with any change of colour, these only irrigating the Fleshy parts, and those chiefly which are most exteriour. How much thele Humours may, and do conduce towards the Animal Faculties and their Exercise is easily made out: for without this Nervous Liquor, the Animal Spirits would have no proper consistence granted them, and their chief dependance is from their Crass; Hence therefore according to Steno, a perpetual Afflux of Blood is plainly requisite, for as he observes, in a living Dog, the descendent Trunck of the Aorta or great Artery being tied up without any incision, the voluntary motion of all the back parts do cease, so oft as it was tied up, and that the motion renewed so oft as it was relaxed.

Non

199

The Epiftle to the Reader:

Now when the Muscle is contracted, Vivisection doth only declare the Fleshy Fibres to attain the only motion, as being more tumefied, asperate, and abbreviated; the Muscle swelling and enlarging in its belly, and the inward Tendons as being of themselves immovable, being neither changed in length or thickness, only drawn up by their Fleshy Fibres; whence may be collected, that the Animal Spirits, when they perfect any Muscular motion, they do generally perform this between the Fleshy Fibres. Now shall we disclose some difficulties which do and may arise as Knotty Disputes about Muscular Diffection, and Muscular Motion, and how these Spirits do operate so tacitely without any incitement thereto; How they fill these Fleshy Fibres, and so seeming to shorten their Tendinous Fibres, for the producing of which effects, the plenty of these Spirits arising from these Tendinous Fibres, are not altogether sufficient for performing and managing this, and therefore do require others as its adjutants or affiftants to promote and further the same in its design, both in occasioning mutual Rarefaction, and Tumefaction, or suddain Inflation of those Bodies which do occasion this Abbreviation.

That the Fleshy Membrane of the Muscle doth tumesse when its contracted, is without all doubt, and beyond all dispute, for this is apparent enough to sight and
touch in Vivisection; all the Fleshy Fibres being corrugated
together, and are more tumessed, and do appear more
asperate, hence cometh its abbreviation; the Muscle appearing both more thick and more broad, hence therefore may we justly conclude, that Muscular Motion in
general may probably be granted; As that the Animal
Spirits being derived from the Brain by the conduct of
the Nerves, and thence conveyed into the body of every
Muscle, and from hence by commerce do pass to the
d
Tendinous

The Epistle to the Reader.

Tendinous Fibres, and do at length get quarter there, and entertainment, as in other Promptuaries or Mansions, the which Spirits being in their nature very active, so fast as their vigour will permit them, they do expand themselves, and penetrate into the Fleshy Fibres: and continuing this their course, they at length do arrive at the Tendons, and having once entred them, they do therein proceed in the same method: and that the Animal Spirits flowing from the Tendinous Fibres, do equally pass under the Fleshy Fibres, is very apparent; in that it is granted that in every Muscle there is allowed two Tendons, whose opposite Angles are so framed, that these Animal Spirits running from a double top do fill the whole Body of the Muscle; and the motion hence taking its Origination, doth very speedily receed, if the contraction ought to be made indifferently towards the middle Fleshy parts: the Tendons are generally equal, but the motion most inclinable towards one part of the Flesh: and hence may we collect, the regular or irregular motions of a Muscle, every regular or irregular motion hereof granted to arise from either the Cerebrum or Cerebellum, it being thence dispatcht by the Nerves, and so sent into the Muscles, the effects and consequences whereof do evidently evince and demonstrate. Thus have I a little presumed to enlarge upon the Readers Epistle, as touching the use and benefit of the Muscles, wherein also I have introduced somewhat of Muscular Motion according to Steno, and have the rather chosen to enlarge the Difcourse here, the Body of the Treatise being wholly intended to appear Publick and Concife, without any Flourishes or empty Enlargements of Discourses or Controver/ies.

The Epistle to the Reader.

Peruse therefore this ensuing Discourse with a Candid Interpretation, and pass by all the Literal Elapses you may meet with, and accept these with that Amicable Mind, as they are Dedicated and intended by,

John Browne.

From my House at the Chirurgeons-Arms at Charing-Cross,

London.

The Names of the Subscribers.

vet balancing how to	A Carlo and a superior of the
L s. d.	White a last to the second
Olleidanher Dube of Albamaria	
Hriftopher Dake of Albemarle -03-03-0	o and clus-Colledge Col-co-co
Chamberlain of His Majejlies 01-01-01	I nomes Core M. D
Chamberlain of His Majesties 01-01-01	54 Samuel Collars M. D
Vican Fall ()	Andrew Clench M. D. OO 10 0
Henry Ext of Arundet 01-03-04 Henry Ext of St. Albans 01-01-04 Robert Ext of Alisbury 00-10-04 Thomas Allen M. D. 00-10-04 Adam Angus M. A. 01-00-06 Richard Adams M. 5. 00-10-06	John Clerke-M, D. 00-10-0
Henry Karl of St. Albans 01-01-01	Hugh Chamberlain M. D. 00-10-0
Robert Ent of Alisbury 00-10-00	Richard Colinge E/q: 01-00-0
Thomas Allen M. D. 00-10-00	John Cooke Fig. 01-00-0
Adam Angus M. A	John Creffet E/q: 01-00-00
Richard Adams M. S	John Creffet Ejg: 00-10-00
Co-00 Co-0	William Chapman E/45 00-10-00
Thomas Allen Gent	Thomas Coxe Ela: 01-00-00
John Anterfor Circ	Benjamin Colinge Grat
January 100 Column CO 10 - 00	Charles Chapman Gest. 00-10-00
.00	1 lames Cooke Gent
B.	I IODD CIEIRC Greet
William # 1 Cm 11 .	Nathaniel Coxe Gest, 00-10-00
William Earl of Bedford - ot-ot-os John Earl of Bath - ot-ot-os	
John Earl of Bath 01-01-06	D.
Couries B: anclear Earl of Burford or on on-	
George Lord Berkley- 00-10-00 Sir John Baber 01-01-06	William Eerlef Denbigh 00-10-00
Sir John Baher 01-01-06	The Feel of Donbigh 00-10-00
Sir Edward Bacih 0 - 01 - 06	The Earl of Danby 01 00 00 00 Sir Edward Deering 00 10 00 10 00
Sir Edward Raeth	317 Edward Deering
Sir Edward Bacih William Bell D. D. His Majeffices Chapter O-01-06 Chapter O-01-06	to His Majeflies Houshold.
Charles 200-10-00	10 Hu Majesties Housbold-
John Batler D. D. Prebend of Wind 300-10-00	John Downs M. D
for Daniel D.D. Precessor Wind-	
Francis matter man and a second	Richard Dalton E/4:
Francis Eridge D. D. His Majeflier 3 00-10-00	I homas Dunckley Gest coto
Chiplane	Peter Dearines Gent. 00-10-00
Professor of Philip at Cambra or	Walter Drury Aposherery - 01-00-00
Profesor of Philips at Cambridge 01-00-00	George Deare Assher
Professor of Physic at Cambrings 01-00-00 for handel and Cambridge Samuel Right D. D. San Class (18)	George Deare Apoileesry 00-10-00 Peter Deat M. B. 00-10-00
Peirce Backenbery M. D. 00 10 00 S muel Back M. A. 00 10 00 John Batly M. A. 00 10 00	
S.muel Beck M. A.	E.
John Barly Af A	
Thomas Bambrig M. A	Arthur Real of Effex-01-01-06
Influe Barner at 4	
Artist Para D. D. a Cons	Peter Lord Siften of Ely 00 10 00 Peter Elliot M. D at Oxen 00 10 00 Lolus Farhard D. D. Co. 10 00
Arthur Perry D. D. at Oxon 00 10 00 John Bambring G.m. at Oxon 0 10 00	Peter Elliot M. D at Oxon
Parker Policy Com. at Oxon -0 -10-00	John Eachard D. D. for himfelf and Catherine Hall is Cambridge- 01-00-00 Samuel himore Chic
Proffer Balch of Watham-Colledge-00-10-00	Catherine-Hall in Cambridge 01-00-00
	Samuel Elmore Chir. 01-01-06
Peter Barwick M, D. 00-10-00 Edward Browne M, D. 00-10-00 William Eriges M, D. 00-10-00 Robert Poyle Eff 01-00-00 William Brighton Ff.	Samuel Elmote Cett 01-01-06
Edward Browne M. D. 00-10-00	F.
William Briggs M. D. Op-10-00	· ·
Robert Poyle E/s	Lewis Land Down Wat Cr. A
	Lewis Lord Duras Ent of Fevertham-or-or-of
	MODELL TONG LELLCLY
James Beverly Efg: 00-10-00 James Bagnal Efg: 00-10-00 James Bagnal Efg: 00-10-00 John Brown Cler, Parliamentor, Efg: 01-00-00 Philip Brown Ger	NJIPO FIVE M. D. at Cambridge, no towns
James Raynal Files	Sir Alexander France M. D. Def 00 10-00
John Brown Cler Parliamentos Pie	Phintas Fowke M, D. 00-10-00 Thomas Fetherftonhalg E/g; 00-10-00 Marriag Follo E/g.
Philip Brown Cor.	
Philip Browne Gest 00 -10 -00	Martine Folke E/s:
	Martine Fethermonnig E/q;
C.	Tho. Feild Gest.
******	John Francklin Chie
William Lord Archbifton of Canter-	John Fage Gest.
bury {01-00-00	John Fage Gest. 00-10-00
Henry Earl of Clarendon 01-01-06 John Lerd Siften of Chefter 00-10-00	
John Lord Biffor of Cheffer	G.
John Lerd Siftened Cheffer - co 10 - co Tho. Lerd Cromwel Earl of Ard- glas Bennamic Column D. D. M. Art.	Union to the state of the state
glaß - Sol-pt-ox	recary Date of Grafton
Benjamin Calame D. D. His series 3	Heary Date of Grafton 01-03-00- John Goad D. D. 00-10-00- William Gibboss M. D. at Oxon-01-00-00-
Benjamin Calamy D. D. Hit Maje-	William Gibbons M. D. at Oxon Ot Ox
John Clarks D. D. for V. Car.	
John Clicke D. D. for himfelf and co-oo	cellor of Cambridge, for binGif or - co
Paint Contract to a Contract t	celler of Cambridge, for himfelf or -00-00
he per Cuoworth D. D. for Corpus ?	John Gofflin M. D. at Cambridge-00-10-00
Ralph Cudworth D. D. for Corpus 300-10-00	Charles Goodall M. D.
	Charles Goodall M.D. 00-10-00
	Christopher

The Subscribers Names.

l. s. d.	1. t. d.
Christopher Green M. S no10no	John Montagne D. D. Clerk to Hin 2 00-10-00
William Gold M. A. OO 10 00	Maje flies Clofes Con 10-00
John Gadbury Student in Aftrology	Tho, Marthall D. D. Hie Majoffies 300-10-09
Deter Gillhorn Asshers	Chatter D. D. EM Stayfies Con-to-09
Peter Gillhorp Apothecary 00 10 00 Allen Gyles Apothecary 00 10 00	
Richard Green Bookseller, for fix on-05-00 Books in Quires.	Henry More D. D. at Cambridge-2-00-10-00
Richard Green Bookjeller, for fix?	Sir John Micklethweit M. D. Prefi- dest of the Collecte is Loadon- Sir Thomas Millington M. D. 00-10-00
Books in Quires 501-05-00	dest of the Colledge is London-
	Sir Thoma Millington M. D 00-10-00
H.	Ferdinand Mendez M. D. Physician 2 00 10 00
	to the Queen - 200 10 woo
George Vifroget Hallifax -01-05	To the Luca 00 - 10 - 00 10 -
Sir Philip Howard 01-01-00 Sir John Hobart 01-01-06 Sir Michael Hickes 00-10-00	John Malayera 46 4
Cir John Unbert	Pichard Millia Chi. 10 - 00 - 10 - 00
Sir John Hobert Without OI -01 -06	Michael Millis Care, Ag 00-10-00
JIF MICHAEL PRICKESOO1000	Martine Mey Carr, 00-10-00
William Holder D. D. Subdem 10 3 00-10-00	Nicholas Molely Aperle
His Majesties Chappel 5	The state of the s
Dr. Haftard D. D. Chaplain to His 303-10-00	N.
Tho, Holbeck D. D. for Emannel- 2	Union D.A. Car. At
College Gamb. 200-10-00	Henry Date of Newcastle-01-06
Tho. Holbeck D. D. for Emanuel- Colledge Gamb. Edward Hulfe M. D. Peter Hume Gest. On 10 00	George Earl of Northumberland 02 - 03 - 100
Deter Linne Cest	James Lord Norries 01 01 01 06 Walter Needham M. D. 01 00 00
The Holland Chinasan Carrier Co.	Walter Needham M. D01 00 00
The Hollyer Chirurgeon of His Ma- 300-10-00	
Part Holling	John Northleigh Gent 00 -10 -00
John Hollyer Gent. for two Books 02-00-00	0-10-00
1 no. Harper Chir	C C
Tho, Harper Chir. 00-10-00 Henry Hern Apothecay 00-10-00	The state of the s
	Anhery Ful of Orford
Land to the state of the state	John Land 8:500 - 01-01-06
The state of the s	Ambery Earl of Oxford 01-01-06 John Lord Stylep of Oxford 00-10-00 George Oliver M. A. 00-10-00
Sir William Jennings	Ocorge Oliver M. A00-10-00
William Jane D. D. and Poning Dec 2	the state of the s
William Jane D. D. and Regius Pro- 300-10-00	P.
Gilbert Ironfides D. D. Resolver	And the second second second
Gilbert Ironfides D. D. Prefident 00-10-00	William Lord Paffon 01-01-06
Charles James M. A. 01-00-00	William Lerd Paffon ot of of of of of of of
Henry James D. D. for Queens-	Simos Patrick D. D. His Majesties Co-10-00 Chaptain John Price D. D. Co-10-00 Robert D. D. Co-10-00
Colledge at Cambridge 500-10-00	Chatlata 200-10-00
James Jackion M. D. at Camb,	John Price D. D.
Tho, Jamson E/q:	Robert Penner D L Charaffee 2
James Jackfon M. D. at Camb. 00 10 00 Tho, Jamfon Efg: 00 10 00 Gabriel Jones Chir. 00 10 00	of Norwich 00-10-00
	Sir Tho, Page Provoft of King's- 200-10-00
K.	att 1800 Lake Lionold of Kind 1- Con-to-out
	Colledge in Cambridge 300 -10-00
	John Peachel D. D. for kimfelf and
	John Peachel D. D. for kimfelf and 301-00-00
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00	Colledge in Cambridge Solution Peachel D. D. for himfelf and Colledge, Camb. Solution College Solution
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00	John Peachel D. D. for kinfelf and College, Camb. Sol 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 Ordinary to His Majelin 01-00-00	John Peachel D. D. for kinfelf and Col-00-00 Magdalen-Colledge, Camb. 501-00-00 For Pembroke-Hall 00-10-00 Henry Paman M. D. 00-10-00 Robert Pitt M. D. Agratowy Perfection 00-10-00
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Kuight M. D. Principal Chir. 2	John Peachel D. D. for kinfelf and Col-00-00 Magdalen-Colledge, Camb. 501-00-00 For Pembroke-Hall 00-10-00 Henry Paman M. D. 00-10-00 Robert Pitt M. D. Agratowy Perfection 00-10-00
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00	John Peachel D. D. for kinfelf and College, Camb. Sol-00-00 For Pembroke-Hall 00-10-00 Henry Paman M. D. 00-10-00 Robert Pitt M. D. Anstony Professor 00-10-00 Joh Packer M. B. 00-10-00
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Kuight M. D. Principal Chir. 2	John Peachel D. D. for kinfelf and 3 01-00-00 For Pembroke-Hall 00-10-00 Robert Pitt M. D. Anstony Professor 00-10-00 John Packer M. B. 00-10-00 George Payne of Clare-Hall Over 00-10-00 George Payne of Clare-Hall Over 00-10-00 George Payne of Clare-Hall Over 00-10-00 John Packer M. B. 00-10
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Kuight M. D. Principal Chir. 2	John Peachel D. D. for kinfelf and 3 01-00-00 For Pembroke-Hall 00-10-00 Robert Pitt M. D. Anstony Professor 00-10-00 John Packer M. B. 00-10-00 George Payne of Clare-Hall Over 00-10-00 George Payne of Clare-Hall Over 00-10-00 George Payne of Clare-Hall Over 00-10-00 John Packer M. B. 00-10
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Knight M. D. Principal Chir. 01-00-00 to bu Majefly def. L.	John Peachel D. D. for kinfelf and C Magdaleu-Colledge, Camb. S 01-00-00 For Pembroke-Hall 00-10-00 Henry Paman M. D. 00-10-00 Robert Pitt M. D. Anstony Professor 00-10-00 John Packer M. B. 00-10-00 George Payne of Clare-Hall Oxon-00-10-00 Robert Patton Esq. 00-15-00 Robert Patton Esq. 00-15-00
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 Ordinary to His Majethy 1 John Kuight M. D. Principal Chir. 01-00-00 L. Heary Lord Silves of London 00-10-00	John Peachel D. D. for kinfelf and C Magdaleu-Colledge, Camb. S 01-00-00 For Pembroke-Hall 00-10-00 Henry Paman M. D. 00-10-00 Robert Pitt M. D. Anstony Professor 00-10-00 John Packer M. B. 00-10-00 George Payne of Clare-Hall Oxon-00-10-00 Robert Patton Esq. 00-15-00 Robert Patton Esq. 00-15-00
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 Ordinary to His Majethy 1 John Kuight M. D. Principal Chir. 01-00-00 L. Heary Lord Silves of London 00-10-00	John Peachel D. D. for kinfelf and C Magdaleu-Colledge, Camb. S 01-00-00 For Pembroke-Hall 00-10-00 Henry Paman M. D. 00-10-00 Robert Pitt M. D. Anstony Professor 00-10-00 John Packer M. B. 00-10-00 George Payne of Clare-Hall Oxon-00-10-00 Robert Patton Esq. 00-15-00 Robert Patton Esq. 00-15-00
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 Ordinary to His Majethy 1 John Kuight M. D. Principal Chir. 01-00-00 L. Heary Lord Silves of London 00-10-00	John Peachel D. D. for kimfelf and C. Magdalen-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 Ordinary to His Majethy 1 John Kuight M. D. Principal Chir. 01-00-00 L. Heary Lord Silves of London 00-10-00	John Peachel D. D. for kimfelf and C. Magdalen-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Knight M. D. Principal Chir. 01-00-00 L. Henry Lord Siftep of London 00-10-00 Henry Lord Siftep of Lincoln 00-10-00 Aunger Lord Longford 00-10-00 Sir Peter Lety def. 01-00-00	John Peachel D. D. for kimfelf and C. Magdalen-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Knight M. D. Principal Chir. 01-00-00 L. Henry Lord Siftep of London 00-10-00 Henry Lord Siftep of Lincoln 00-10-00 Aunger Lord Longford 00-10-00 Sir Peter Lety def. 01-00-00	John Peachel D. D. for kinfelf and 3 Magdalen-Colledge, Camb. 301-00-00 For Pembroke-Hall 00-10-00 Henry Pamin M. D. distinary Professor 00-10-00 John Packer M. B. 00-10-00 John Packer M. B. 00-10-00 George Payne of Clare-Hall Oxen 00-10-00 Robert Patton Esq. 00-10-00 Robert Pope Esq. 00-10-00 William Prince Esq. 00-10-00 Robert Pope Esq. 00-10-00 George Perin Esq. 00-10-00 Robert Power Gent. 00-10-00 James Pearse Esq. 00-10-00 James Pearse Esq. Chirargeon to the 3 Kine's Person
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Knight M. D. Principal Chir. 01-00-00 L. Henry Lord Biftop of Lincoln 00-10-00 Henry Lord Biftop of Lincoln 00-10-00 Aunget Lord Looglod 00-10-00 Sir Peter Lely def. 01-00-00 John Lamphice M. D. Hiftory Pro- 00-10-00	John Peachel D. D. for kinfelf and 3 Magdalen-Colledge, Camb. 301-00-00 For Pembroke-Hall 00-10-00 Henry Pamin M. D. distinary Professor 00-10-00 John Packer M. B. 00-10-00 John Packer M. B. 00-10-00 George Payne of Clare-Hall Oxen 00-10-00 Robert Patton Esq. 00-10-00 Robert Pope Esq. 00-10-00 William Prince Esq. 00-10-00 Robert Pope Esq. 00-10-00 George Perin Esq. 00-10-00 Robert Power Gent. 00-10-00 James Pearse Esq. 00-10-00 James Pearse Esq. Chirargeon to the 3 Kine's Person
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Knight M. D. Principal Chir. 01-00-00 L. Henry Lord Biftop of Lincoln 00-10-00 Henry Lord Biftop of Lincoln 00-10-00 Aunget Lord Looglod 00-10-00 Sir Peter Lely def. 01-00-00 John Lamphice M. D. Hiftory Pro- 00-10-00	John Peachel D. D. for kimfelf and C. Magdaleu-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Physician in 01-00-00 John Kinght M. D. Principal Chir. 01-00-00 L. Henry Lord Siftey of London 00-10-00 Henry Lord Siftey of Lincoln 00-10-00 Aunger Lord Longford 00-10-00 John Lamphire M. D. History Pro- 01-00-00 John Lamphire M. D. Regins Professor of 00-10-00 John Lum M. D. Regins Professor of 00-10-00 John Lum M. D. Regins Professor of 00-10-00 John Lum M. D. Regins Professor of 00-10-00	John Peachel D. D. for kimfelf and C. Magdaleu-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Knight M. D. Principal Chir. 01-00-00 L. Henry Lord Biftop of London-00-10-00 Henry Lord Biftop of Lincoln-00-10-00 Sir Peter Lety def. 01-00-00 John Lamphire M. D. Hiftory Pro-7 feffer at Oxon-10-00 John Luff M. D. Regim Professor of Phylick at Oxon-10-00 William Levenz M. D. President of 10-00-00 William Levenz M. D. President of 10-00-00	John Peachel D. D. for kimfelf and C. Magdaleu-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Knight M. D. Principal Chir. 01-00-00 L. Henry Lord Bifton of Landon-00-10-00 Henry Lord Bifton of Landon-00-10-00 Sir Peter Lety def. 01-00-00 John Lumphire M. D. History Pro- 01-00-00 John Luff M. D. Regim Profesor of Phylick at Oxon William Levenz M. D. President of St. John's-Collectice, Oxon, for 01-00-00	John Peachel D. D. for kinfelf and 3 Magdalen-Colledge, Camb. 301-00-00 For Pembroke-Hall 00-10-00 Henry Pamin M. D. distinary Professor 00-10-00 John Packer M. B. 00-10-00 John Packer M. B. 00-10-00 George Payne of Clare-Hall Oxen 00-10-00 Robert Patton Esq. 00-10-00 Robert Pope Esq. 00-10-00 William Prince Esq. 00-10-00 Robert Pope Esq. 00-10-00 George Perin Esq. 00-10-00 Robert Power Gent. 00-10-00 James Pearse Esq. 00-10-00 James Pearse Esq. Chirargeon to the 3 Kine's Person
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Physician in O1-00-00 John Kinght M. D. Principal Chir. 01-00-00 L. Henry Lord Siftey of London-00-10-00 Henry Lord Siftey of Lincoln 00-10-00 Aunger Lord Longlord 00-10-00 John Lamphire M. D. History Pro- 01-00-00 John Lamphire M. D. History Pro- 01-00-00 John Luff M. D. Regims Professor of Physick at Oxon Villiam Levenz M. D. President of St. John's-Colledge, Oxon, for himself and Caladge	John Peachel D. D. for kimfelf and C. Magdaleu-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Kingh M. D. Principal Chir. 01-00-00 L. Henry Lord Biftop of London 00-10-00 Henry Lord Biftop of Lincola 00-10-00 Sir Peter Lety def. 01-00-00 John Lumphire M. D. Hiftory Pro- 01-00-00 John Lumphire M. D. Regim Professor of Phylic at Oxon Villam Levenz M. D. President of St. John's Colledge, Oxon, for himself and Cedelge.	John Peachel D. D. for kinfelf and C. Magdalen-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in 01-00-00 John Knight M. D. Principal Chir. 01-00-00 LL Henry Lord Bifton of Landon 00-10-00 Henry Lord Bifton of Lincoln 00-10-00 Sir Peter Lely def. 01-00-00 John Lamphire M. D. Hifton Pro- felfer at Oxon John Luff M. D. Regim Professor of 01-00 William Levenz M. D. Prefident of 01-00-00 William Levenz M. D. Prefident of 01-00-00 Kingled and Caledge John Ludwell M. D. at Oxon, for kingled and Caledge John Ludwell M. D. at Oxon, o-10-00 Richard Lydall M. D. at Oxon, o-10-00 Richard Lydall M. D. at Oxon, o-10-00	John Peachel D. D. for kinfelf and C. Magdalen-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in Ordinary to His Majelity 1 John Kinght M. D. Principal Chir. 01-00-00 L. Henry Lord Biftop of London-00-10-00 Henry Lord Biftop of Lincola 00-10-00 Aunger Lord Longford 00-10-00 Sir Peter Lely def. 00-10-00 John Lumphre M. D. Hiftory Pro- feffer at Oxon-10-00 William Levenz M. D. Prefident of St. John's Collectic, Oxon, for himself and Calculate. John Ludwell M. D. at Oxon-00-10-00 Richard Lydall M. D. at Oxon-00-10-00 John Luwfon M. D. 2000-00-00-00-00-00 John Ludwell M. D. at Oxon-00-10-00 Richard Lydall M. D. at Oxon-00-10-00 John Luwfon M. D.	John Peachel D. D. for kimfelf and C. Magdaleu-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in Ordinary to His Majelity 1 John Kinght M. D. Principal Chir. 01-00-00 L. Henry Lord Biftop of London-00-10-00 Henry Lord Biftop of Lincola 00-10-00 Aunger Lord Longford 00-10-00 Sir Peter Lely def. 00-10-00 John Lumphre M. D. Hiftory Pro- feffer at Oxon-10-00 William Levenz M. D. Prefident of St. John's Collectic, Oxon, for himself and Calculate. John Ludwell M. D. at Oxon-00-10-00 Richard Lydall M. D. at Oxon-00-10-00 John Luwfon M. D. 2000-00-00-00-00-00 John Ludwell M. D. at Oxon-00-10-00 Richard Lydall M. D. at Oxon-00-10-00 John Luwfon M. D.	John Peachel D. D. for kinfelf and C. Magdalen-Colledge, Camb. \$\ 01-00-00 For Pembroke-Hall 00-10-00 Henry Pembroke-Hall 00-10-00 Robert Pitt M. D. Anstony Professor 00-10-00 John Packer M. B. 00-10-00 George Payne of Clare-Hall Oxon-00-10-00 Robert Pathon Ess. 00-10-00 Robert Pathon Ess. 00-10-00 William Prince Ess. 00-10-00 William Prince Ess. 00-10-00 George Perin Ess. 00-10-00 George Perin Ess. 00-10-00 John Partic Chirargeon to the Chirargeon to the Majellus Heisettle Student in Affredgy 00-10-00 Tho, Prescott Apotherary 00-10-00 Tho, Prescott Apotherary 00-10-00 George Perin Ess. 00-10-00 George Perin Ess. 00-10-00 George Perin Ess. 00-10-00 John Partic Chirargeon to the Majellus Heisettle Granden to His Control October 10-00 George Perin Ess. 00-10-00 George Perin
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Physician in O1-00-00 John Kinght M. D. Principal Chir. 01-00-00 John Kinght M. D. Principal Chir. 01-00-00 L. Henry Lord Biftop of London 00-10-00 Henry Lord Biftop of Lincoln 00-10-00 Aunger Lord Longlord 00-10-00 John Lumphire M. D. History Pro- 01-00-00 John Lumphire M. D. Regim Professor of Physic at Oxon 10-00 William Levenz M. D. President of St. John's Colledge, Oxon, for Schard Lydall M. D. at Oxon, 00-10-00 John Lawfon M. D. at Oxon, 00-10-00 Christopher Ludkin M. B. 00-10-00 Lohn Lever Chr. 00-00	John Peachel D. D. for kinfelf and C. Magdalen-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Physician in O1-00-00 John Kinght M. D. Principal Chir. 01-00-00 John Kinght M. D. Principal Chir. 01-00-00 L. Henry Lord Biftop of London 00-10-00 Henry Lord Biftop of Lincoln 00-10-00 Aunger Lord Longlord 00-10-00 John Lumphire M. D. History Pro- 01-00-00 John Lumphire M. D. Regim Professor of Physic at Oxon 10-00 William Levenz M. D. President of St. John's Colledge, Oxon, for Schard Lydall M. D. at Oxon, 00-10-00 John Lawfon M. D. at Oxon, 00-10-00 Christopher Ludkin M. B. 00-10-00 Lohn Lever Chr. 00-00	John Peachel D. D. for kinfelf and Magdalen-Colledge, Camb. \$\ \] 01-00-00 Magdalen-Colledge, Camb. \$\ \] 01-00-00 Henry Pemon M. D
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in Ordinary to His Majelity 1 John Kinght M. D. Principal Chir. 01-00-00 L. Henry Lord Biftop of London-00-10-00 Henry Lord Biftop of Lincola 00-10-00 Aunger Lord Longford 00-10-00 Sir Peter Lely def. 00-10-00 John Lumphre M. D. Hiftory Pro- feffer at Oxon-10-00 William Levenz M. D. Prefident of St. John's Collectic, Oxon, for himself and Calculate. John Ludwell M. D. at Oxon-00-10-00 Richard Lydall M. D. at Oxon-00-10-00 John Luwfon M. D. 2000-00-00-00-00-00 John Ludwell M. D. at Oxon-00-10-00 Richard Lydall M. D. at Oxon-00-10-00 John Luwfon M. D.	John Peachel D. D. for kinfelf and Magdalen-Colledge, Camb. \$\ \] 01-00-00 Magdalen-Colledge, Camb. \$\ \] 01-00-00 Henry Pemon M. D
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in Ordinary to His Majelity 1 John Kinght M. D. Principal Chir. 01-00-00 L. Henry Lerd Biftop of London 00-10-00 Henry Lerd Biftop of Lincola 00-10-00 Aunger Lord Longford 00-10-00 Sir Peter Lety Acf. 01-00-00 John Lumphire M. D. Hiftory Pro- feffer at Oxon 00-10-00 William Levenz M. D. Prefident of St. John's Colledge, Oxon, for kingled and Calerige 1 John Ludwell M. D. at Oxon 00-10-00 Richard Lydall M. D. at Oxon 00-10-00 Richard Lydall M. D. at Oxon 00-10-00 Christopher Ludkin M. B. 00-10-00 John Letger Chr. 00-10-00 Tho, Langham Apeab. 00-10-00	John Peachel D. D. for kimfelf and Magdalen-Colledge, Camb.
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in Ordinary to His Majelity of London 10-00 to bu Majelit M. D. Principal Chir. L. Henry Lord Siften of London 00-10-00 Henry Lord Siften of Lincola 00-10-00 Aunger Lord Longford 00-10-00 Sir Peter Lety def. 00-10-00 Sir Peter Lety def. 00-10-00 John Lumphire M. D. Highery Pro- feffer at Oxon 00-10-00 William Levenz M. D. Prefident of St. John's Collecte C. Oxon, for himself and Calculate C. William Levenz M. D. Prefident of St. John's Collecte C. Oxon, for himself and Calculate C. John Ludwell M. D. at Oxon 00-10-00 Richard Lydall M. D. at Oxon 00-10-00 Chriftopher Ludkin M. B. 00-10-00 John Langham Apash. 00-10-00 Tho. Langham Apash. 00-10-00	John Peachel D. D. for kinfelf and C. Magdalen-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in Ordinary to His Majelity of London 10-00 to bu Majelit M. D. Principal Chir. L. Henry Lord Siften of London 00-10-00 Henry Lord Siften of Lincola 00-10-00 Aunger Lord Longford 00-10-00 Sir Peter Lety def. 00-10-00 Sir Peter Lety def. 00-10-00 John Lumphire M. D. Highery Pro- feffer at Oxon 00-10-00 William Levenz M. D. Prefident of St. John's Collecte C. Oxon, for himself and Calculate C. William Levenz M. D. Prefident of St. John's Collecte C. Oxon, for himself and Calculate C. John Ludwell M. D. at Oxon 00-10-00 Richard Lydall M. D. at Oxon 00-10-00 Chriftopher Ludkin M. B. 00-10-00 John Langham Apash. 00-10-00 Tho. Langham Apash. 00-10-00	John Peachel D. D. for kinfelf and 3 Magdalen-Colledge, Camb. \$\ 01-00-00 \\ For Pembroke-Hall
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in Ordinary to the Mappily 1 John Knight M. D. Principal Chir. 10-00-00 L. Henry Lerd Biftop of London 00-10-00 Henry Lerd Biftop of Lincola 00-10-00 Aunger Lerd Longford 00-10-00 Sir Peter Lety def. 01-00-00 John Lamphire M. D. Hiftory Pro- 10-00-00 John Luff M. D. Regims Professor of 10-00-00 William Levenz M. D. President of St. John's Colledge, Oxon, for himself and Celesge 05-10-00 Richard Lydall M. D. at Oxon 00-10-00 Richard Lydall M. D. at Oxon 00-10-00 John Lawion M. D. 00-10-00 John Leeger Chr. 00-10-00 Tho, Langham Apoth 00-10-00 M. James Dake of Monamouth 00-00-00-00 M.	John Peachel D. D. for kingleft and ? Magdalen-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in Ordinary to the Mappily 1 John Knight M. D. Principal Chir. 10-00-00 L. Henry Lerd Biftop of London 00-10-00 Henry Lerd Biftop of Lincola 00-10-00 Aunger Lerd Longford 00-10-00 Sir Peter Lety def. 01-00-00 John Lamphire M. D. Hiftory Pro- 10-00-00 John Luff M. D. Regims Professor of 10-00-00 William Levenz M. D. President of St. John's Colledge, Oxon, for himself and Celesge 05-10-00 Richard Lydall M. D. at Oxon 00-10-00 Richard Lydall M. D. at Oxon 00-10-00 John Lawion M. D. 00-10-00 John Leeger Chr. 00-10-00 Tho, Langham Apoth 00-10-00 M. James Dake of Monamouth 00-00-00-00 M.	John Peachel D. D. for kingleft and ? Magdalen-Colledge, Camb
Anthony Earl of Kent 00-10-00 Sir John Kirke 01-00-00 Edmund King M. D. Phylician in Ordinary to the Mappily 1 John Knight M. D. Principal Chir. 10-00-00 L. Henry Lerd Biftop of London 00-10-00 Henry Lerd Biftop of Lincola 00-10-00 Aunger Lerd Longford 00-10-00 Sir Peter Lety def. 01-00-00 John Lamphire M. D. Hiftory Pro- 10-00-00 John Luff M. D. Regims Professor of 10-00-00 William Levenz M. D. President of St. John's Colledge, Oxon, for himself and Celesge 05-10-00 Richard Lydall M. D. at Oxon 00-10-00 Richard Lydall M. D. at Oxon 00-10-00 John Lawion M. D. 00-10-00 John Leeger Chr. 00-10-00 Tho, Langham Apoth 00-10-00 M. James Dake of Monamouth 00-00-00-00 M.	John Peachel D. D. for kinfelf and 3 Magdalen-Colledge, Camb. \$\ 01-00-00 \\ For Pembroke-Hall

The Subscribers Names.

The Subjections of Comments	
1. 5. 4.	1. 1. d.
	John Topham E/4. 01 -00 -05 William Tovey Gest. 01 -00 -00
William Rowe Apatherary	William Tovey Gest,
William Rapier Abore.	Edmund Themylthorp Gest
and the same of th	Mr. Tyndall M. B. 00-10-00
	Edmund Theorold Chir. Mafter of 301-00-00
	the Company 501-00-00
Anthony Earl of Sanderland Anthony Earl of Shaftsbery 01-00-00 Seth Lord Bijlog of Salisbury 00-10-00	THE RESERVE TO THE PARTY OF THE
Anthony Earl of Shallsbury	V
Seth Lord Bijegg of Sansoury	
Seth Lord Bifloo of Salisbury- George Stradling D. D. His Maje: 300-10-00 flire Chaplain Tho. Spratt D. D. His Majeflies Chaplain John Sewmears D. D. Dean of Ger. 300-10-00 nefy- 00-10-00	Philip Vendofme Grand Prior of 301-03-00
Bies Chapters D. D. W. Maielles ?	Philip vendoline Grand 1775 17 01-03-00
Tho. Spratt D. D. HM Displant 200-10-00	France
Chiplain D. D. Demal Gor. 2	
John Sewments D. D. Desnoy Oct. \$00-10-00	W.
Gregory Scott D. D. OO 10 OO Sir The Sclatter M. D. OO 10 OO Fer Sydney-Colledge Camb. OO 00 OO	THE RESERVE OF THE PARTY OF THE
Gregory Cott D. D.	Henry Lord Marquels of Worceller-01-06
Sir Tho. Science Mr. D.	Edward Lord Ward-00-10-00
Fer Syancy-Concage Camo,	Dr. Wallis D. D. Geometry Professor 200-10-00
John Spencer D. D. for Corpus- 200-10-00	Henry Lerd Marquess of Worcester -01-06 Edward Lerd Ward -00-10-00 Dr. Wallis D. D. Geometry Projector 200-10-00 at Oxon
Christi-Colledge Camb.	Thomas Witherly M. D. and Phys. 300-10-00
Sir Charles Scarborough M. D. Coo-10-00	Thomas Witherly M. D. and Phiff- clas to the Kings Person Daniel Whystier M. D. and Oliver 300-10-00
Principal Physician to the King 5	Daniel Whyfrier M. D
Nicholas Staphurit M. B. 00-10-00 Francis Smith M. A. 00-10-00	Danie W Nyture M. D. Physician 10 10-00 10-King Robert W erden Esq.
Francis Smith M. M. O. 10-00	the King
Mr. Sagittary M. A. 00-10-00	Robert Werden Elqu 01-00-00
Bevill skelton E/4: 00-10-00 Henry Street Gest. 01-00-00	John Wynyard Efg ot oo oo
Henry Street Gent.	John Well E/4; 00-10-00
Edward Syfton Gest. 00-10-00 Edward Snape Gest. 00-10-00	William Williams Efq: 00-10-00
Samuel Staynes Gest. 01-00-00	John Walker Janier Gent. 01-00-00
Samuel Staynes Grat.	
Tho. Sydny Gest 00-10-00 Daniel Sneaton Chir. 00-10-00	Hugh Willoughby M. A. Co-10-Co Owen Wynne Gent. Co-10-Co
Henry Staff Chir	Owen Wynne Gent. 00-10-00
Zachariah Skillcarn Chir	Richard Warr Gess, 00-10-00 Sackvil Whittle Reg. Chir. def. 01-00-00
Zamarian Sameara Car.	Sackvil Whitele Reg. Chir. def 01-00-00
T.	Jaques Wifeman Chir. 00-10-00
***************************************	1 Donebty Wormell Chir.
Sir Richard Tufton	
The Tention D. D. His Maieffier?	
Tho. Temion D. D. His Majefites \$00-10-00	Y.
D. Thillsehmait D. D. His Maie 2	THE RESERVE TO STATE OF THE PARTY.
Dr. Thifflethwait D. D. His Maje 300-10-00	Thomas Vates Gest, Prefident of 7
Carros Thomas D. D.	Thomas Yates Gent. Prefilent of co-10-00
George Thorp D. D	Robert Yard Gest-00-10-00
Samuel Town Pie	John Young Gest. 00-10-00
Samuer 11)00 2/1)	11000 1000 0100

This Table sheweth the Names of the Muscles, as they do arise in Disse. Stion.

Bliquus Descendens Obliquus Ascendens Piramidilis Transversus Frontalis Aperiens Palpebram Rectus Claudens oculum Superior Claudens oculum inferior R Eli Quatuor Oculi Obliquus Primus Oculi Obliquus Secundus Oculi Attollens Aurem Detrahens Aurem Adducens Aurem Abducens Aurem Externus Tympani Auris Internus Tympani Auris. Abducens Nasi alas Attollens Nasi alas Claudens nasum externus Claudens nasum internus Communis Claudens Alas Zygomaticus Riolani Abducens Labios Deprimens Labii inferius Constringens Labios Platysma Myodes sive Quadratus Masseter sive Mansorius Temporalis seu Crotaphites Mastoideus Biventer sive Digastricus Coracobyoidens Sternobyoidens Sternothyroideus Hyothyroidens.

Styloceratohyoidens Pterygopalatimus Spheno-palatinus Mylobyoideus Riolani Geniobyoidens Milogloffus Ceratoglossus Genioglossus Hypfilogloffus Stylogloffus Lingualis Cricothyroidens anticus Æsophigæus sen Sphineter Gulæ Stylopharyngæus Cephalopharyngaus Cricoarytenoideus Posticus Cricoarytenoideus Lateralis Arytenoideus Thyroaryt anoidus Sphænopharyngæus Primus Sphænopharyngæus Secundus Pterygoideus Externus Pterygoideus Internus Longus Scalenus seu Triangularis Pettoralis Subclavius Serratus major Anticus Serratus minor Anticus Intercostales Externi Intercostales Interni Cremasteres Erector five Director Penis Accelerator Penis Musculi Clitoridis Levatores Ani Sphineter Ani

Sphinster

The TABLE.

Sphintler Vefice Detrufor Vrince Diaphragma.

Here let the Body be turned upon the Face.

Cucultaris sive Trapezius
Latissimus Dorsi
Rhomboides
Levator Patientiæ
Rotundus Major
Superscapularis Superior
Superscapularis Inferior
Nonus humeri Placentini sive Rotundus Minor
Subscapularis.

If you intend to take off the whole Arm with the Scapula, the Diffication of these following Muscles will with more case be performed.

Deltois Biceps Ostavus bumeri Placentini five Coracobrachialis Brachicus Internus Gemellus Major Gemellus Minor Anconæus Palmaris Caro Musculosa Quadrata Flexor Carpi Interior sen Ulnaris Flexor Carpi Exterior sive Radia-Flexor Secundi Internodii Perforatus Flexor Tertii Internodii Perforans Flexor Tertii Internodii Pollicis Pronator Radii Teres

Pronator Quadratus
Flexores Primi Internodii Digitorum
Flexor Primus, Primi Internodii Pollicis
Flexor ejufdem Secundus
Flexor Secundi Internodii Pollicis
Primus
Secundus
Tertius

Quartus
Minimi Digiti abductor
Pollicis abductor
Pollicis adductor
Interoffei
Extensor Carpi Exterior
Extensor Secundi & Tertii Internodii Digitorum
Supinator Radii Longus
Extensor Pollicis offis Tertii
Extensor Secundi & Tertii Pollicis
Abducens Indicem
Supinator Radii Brevis
Primi Internodii Extensores.

Here you return to the Body it felf as it lies

Serratus Posticus Superior Serratus Posticus Inferior Splenius sive Triangularis. Trigeminus Transversalis Spinatus Recti Majores Recti Minores Obliqui Superiores Obliqui Inferiores Longissimus Dorsi Sacrolumbus Cervicalis descendens Sacer

Semispinatus

The TABLE.

Biceps

Semispinatus Quadratus Psoas Psoas Parvus

If you please to take off the Thigh from the Trunck of the Body, by dividing the Os Ileon from the Os Sacrum, the dissection of the subsequent Muscles will the better be performed.

Iliaeus Internus
Glutæus Major
Glutæus Minor
Glutæus Medius
Piriformis sive Iliaeus Externus
Obturator Internus
Quadrigeminus
Obtuator Externus
Membranosus
Sartorius
Gracilis
Reelus
Vastus Externus
Vastus Internus

Semimembranofus Seminervofus Triceps Lividus Gasterocnemius Externus Plantaris Gafterocnemius Internus Subpoplitens Flexor Tertii Internodii Perfo-Tibiæns posticus Flexor pollicis Flexor Secundi Internodii Perforatus. Adducens Pollicem Abducens minimum Digitorum Transversalis Placentini Tibiens Anticus Peroneus Primus Peroneus Secundus Extensor Pollicis Extensor Tertii Internodii Digi-Extensor Secundi Internodii Digitorum Interossei.

The Names of the Authors concerned in this Muscular Discourse.

T Homas Bartholinus
Casper Bauhinus
Albertus Columbus
Bartholomeus Cabronles
Isbrandus Diemerbroeck
Galen
Regnerus de Graaf
Hipp crates
Andreas Laurentius

Julius Casserius Placentinus Johannes Riolanus Daniel Sennertus Adrianus Spigelius Joannes Valverdus Andreas Vesalius Joannes Vestingius Vidus Vidii

Obliquus

Obliquus Descendens.

His first pair of Muscles with which Nature hath cover- This don't laed the Abdomen, as a Vail, are endowed with oblique test Fibres, and by reason of their descent, they have this demen name bestowed upon them. They do arise from the lower parts of the 6th. 7th. 8th. and 9th. Ribs indented; or indenting themselves with Serratus Major Anticus; as also Membranous from the transverse processes of the Vertebres of the Loyns, and part of the Os Ileon, and then passing to the Linea Alba, and Os Pubis, by a broad Nervous Tendon marches into the middle of the Abdomen; (its very hard to separate this Muscle from its subjacent Tendon without laceration) it adhering so closely to it. This Tendon with its next neighbour being either lacerated or dilated, and the Omentum or Intestines hereby making a prolapsion either into the Inguen or Scrotum, does occasion either an Hernia Omentalis, or Intestinalis. To dissect this Muscle exactly, you must divide the Latissimus from him very low, so as that you may attain his Lumbal Origination the better.

The chief use of this Muscle, as Columbus and Laurentius do Italia. affirm, is to contract the Thorax, as sometimes upwards, hereby affisting Respiration. Laurentius's observation of these Muscles is worth note; when he writes that these Abdominal Muscles are quite contrary to the other Muscles of the Body, these being crooked before they do Operate, and do turn inward in their Operations, hereby with much facility compressing the inward Cavities; the which, by reason of the laxness of the lower Belly, and its yielding to vacuity, it frames a Contention inwards, and a Remission outwards. Another Observation may be, that these Muscles do bind the Intestines in oblique descending Angles.

Opin

The Explanation of the First Table.

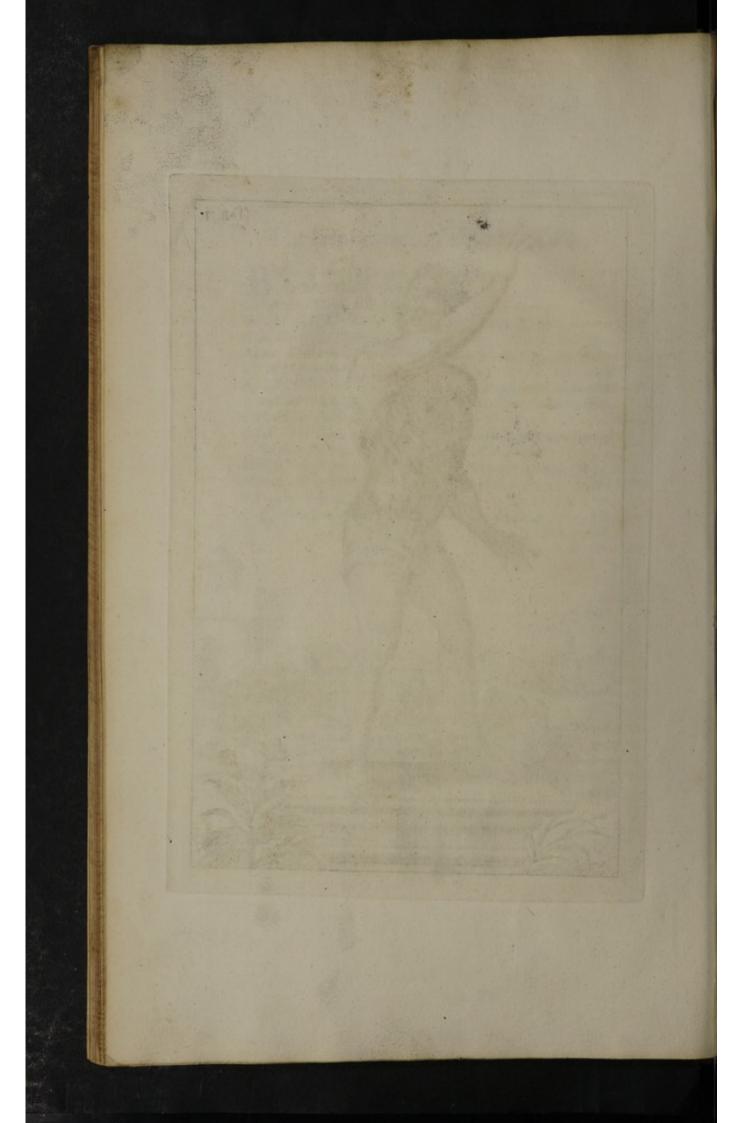
Part of the Muscle called Ani-scalptor. D. Musculus Pectoralis in situ. C. Serratus Major Anticus. G.G. I.I. K.K.K. Musculus obliquus descendens. G.G. Shews the Fleshy part of this Muscle. a.a.a.a. Shews its Connexion with Serratus Major. 1.1. Shews another part of the same Muscle. K.K.K. Shews another Fleshy part of this Muscle, with its Tendon and where it begins, and how it is expanded into the Linea alba. V.V. Shews the Semilunary Line. L.L.L. The Tendon of the Oblique descendent Muscle running over the right Muscles of the Abdomen to the Linea alba-M.M.M. The White Line into which this Tendon is inferted. N.N.N. The Intersections of the Right Muscles. P.P. The Spine of the Os Ileon. Q. Q. Some heads of the Muscles moving the Thigh.

Middle is worth rote; when he were a the chelle A domina

these being encoled before they do Operare, and do turn inward in their Cremitons, hereby with much facility compact

of the lower Belly, and its vielding to vacuity, it frames a





Obliquus Ascendens.

His is immediately substrated to the former, and is fur-this dath nished with Ascendent Fibres, it ariseth sleshly from the Appendix of the Os Ileon, and Membranous from the processes of the same Vertebres as the former; and so ascending into the 11th. and 12th. Ribs with a sleshly Margent, then extending himself into a large double Tendon in which the Rectus is conveyed, proceeds to the Linea alba, and Semilunary Line, and is implanted into the 9th. 10th. 11th. and 12th. Ribs. Observe that this Muscle is best rais'd by finding the Nerve that runs between this and the Transverse at his Origination from Os Ileon.

The chief use and action of this Muscle as Columbus doth to see, offer, is, That these working together, they do detract the Muscles of the Thorax. Nature planting here a Series of Fibres contrary to the former, and these being by her thus

made for a stronger Compression,

Moreover as I humbly conceive, that this Oblique ascending Muscle is obliquely perforated near the Os Pubis, by the Cremasters and the Spermatick Veins and Arteries a little above the perforation of the Oblique descending Muscles; so that these Oblique ascending Muscles lodging just under the former, do run counter with them in their Fibres, and do keep them in

Oblique afcending Angles.

Moreover, that whereas the various Muscles of the Abdomen several ways contracting themselves inwards, do force the Excrement downwards, and at the same time do reduce both the Ventricle and Intestines into their proper places, and are Antagonists to the Diaphragma, because in its motion in order to enlarge the capacity of the Thorax to give reception to the Lungs tumesied with Air, the Diaphragma is brought towards a plain, and doth thereby both press the Stomach and Intestines downwards, by which, the motion of the Chyle is gently sollicited into the Dustus chiliferus. And when the Diaphragma hath done playing, these Abdominal Muscles do act their parts, by relaxing the Diaphragma, and bringing it into an Arch, the Belly growing lank, and the Intestines and Stomach being forc't inwards, and upwards, by the contraction of the Abdominal Muscles.

The

The Explanation of the Second Table.

A. Obliquus Descendens, laid bare. B.B.B. The bodies of the Ribs.

9.10.11. The lower Ribs.

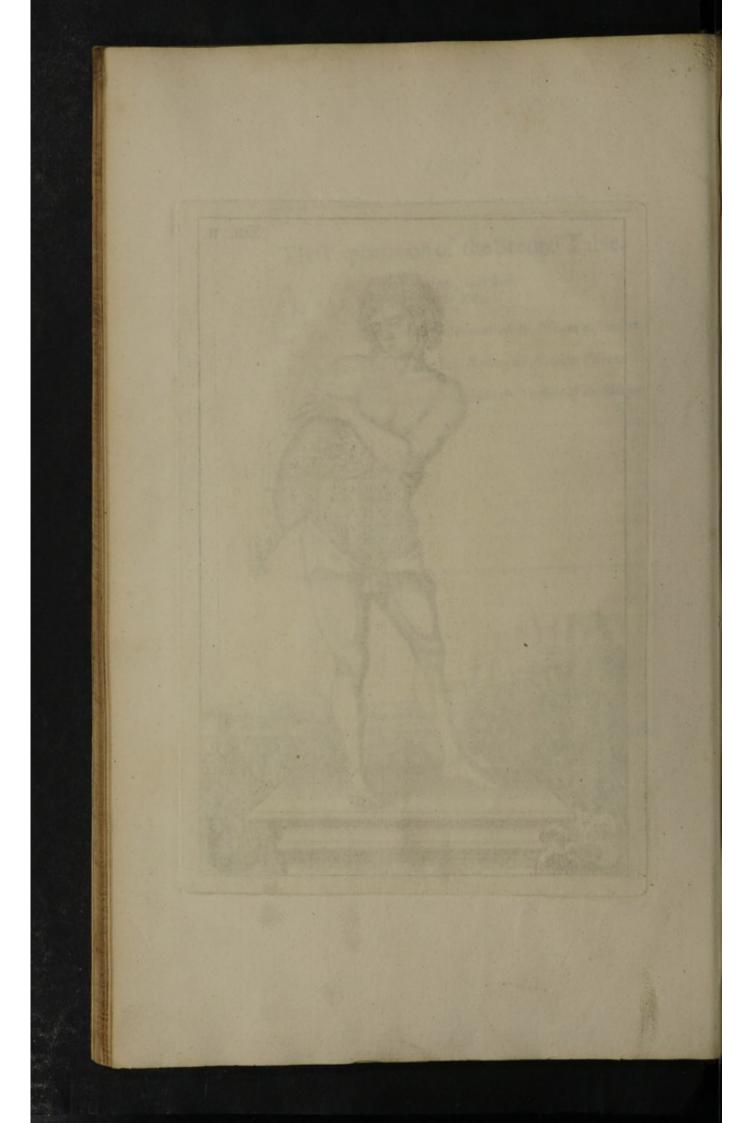
a a.a. Shews the Tendinous Membrane of the Oblique descendent

B.B. Obliquus ascendens, in situ, sbewing its Ascendent Fibres.

C.C.C. Linea Semilunaris.

i.i.i.i. Recti Musculi, Transparent under the Tendons of the Oblique ascendent Muscle.





The Explanaticurs of Third Table.

His third pair are cloathed with Right Fibres, being the Madele made very fitrong and well lin'd with Flesh: They do Beth formarise from the Os Pubis, and running according to the length of the Body, are inserted into the sides of the Sternon, where the last true Ribs have their Cartilages. The Insertions hereof are various, for sometimes there is seen three, sometimes four, and sometimes three and a half; sometimes all above, sometimes some below; as also the Anastomosis, of the Mamillary Vessels external, and Epigastrick internal, always sound in Women, rarely in Men; as also the multitude of Nerves sent to the Perigraphs is very observable, for if you find four Perigraphs, you will find no Pyramidal Muscles.

These Muscles are allowed to be of great use; some Authors affirming that they do abduce the *Penis* from the Ribs. And when we do arise out of our Beds, these Muscles do seem to tumesse and fill outwards; others do declare, that these do instead the *Thorax*, and do draw the Brest to the *Os Pubis*, and the *Os Pubis* to the *Thorax*, and that out of their Contraction, there is seen two various Motions performed.

But I humbly conceive that these Muscles taking their Origination from the Os Pubis and Sternon, and inserting themselves into the Linea alba, and running all down in length through the middle of the Abdomen, do in their Contraction press the Insertions inwards, and do assist the Peristaltick motion in the exclusion of grosser Excrements.

B

The

The Explanation of the Third Table.

A. The Cutis with the Fat laid bare.

D.D.D.D. The Right Muscles of the Abdomen.

e.e.e.e. The Intersections of these Muscles.

i. The Pyramidal Muscles.

L.L. The Oblique Ascendant Muscles in site.

MM That part of the Tendon of the Oblique Ascendant Muscle which covers the Right Muscle.

P.P. The Intercostal Muscles.

Pyramidalis





Pyramidalis or Succenturiatus.

His Muscle hath its name from its make, and resem-the present blance it carries with a Pyramidal Figure. It affeth the Middle from the external part of the Os Pubis broad and fleshy, and running somewhat below the Rectus, is inserted by a long and round Tendon into the Linea alba. These Muscles are seen sometimes to be wanting in such Persons as have the Origination of the Ascendent Muscle not from the sleon, but from the strong Ligament which runneth from the Spine up to the Os Pubis, internally: and have four Perigraphs in the Rectus.

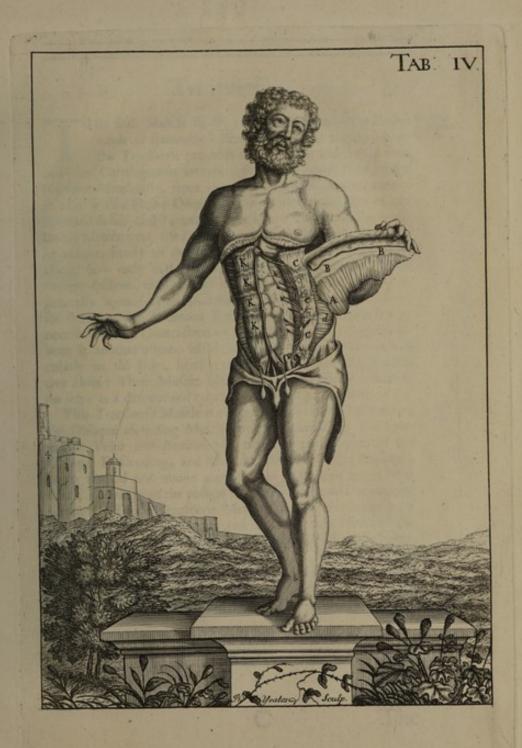
Vefalius, Adernaus, and Columbus do all describe them (though badly) to arise from the beginning of the Right Muscles; But that these are distinct Muscles are evidently apparent.

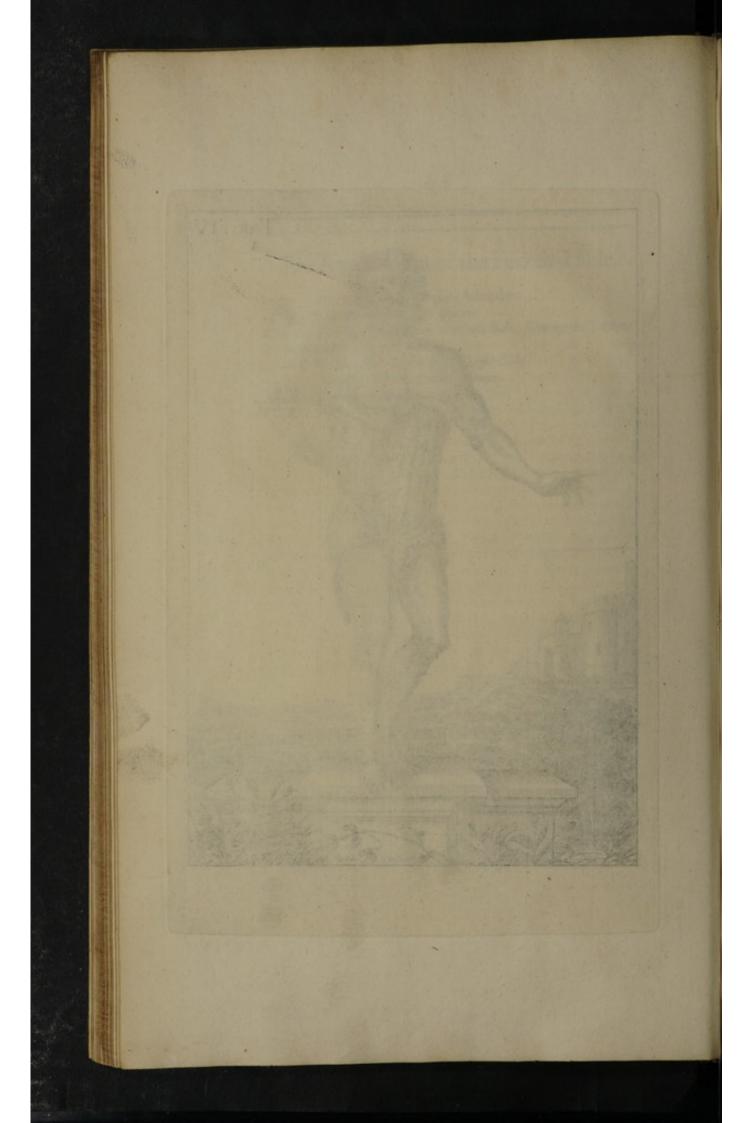
Fallopius the Inventer of them, doth ascribe the action of Their Use. Compression to them; and that they do promote the Excretion of Urine, this also he doth affirm. Laurentius does observe, that if one of these Muscles doth work alone, it draws the Linea alba obliquely downwards; if they do work together, they do work it directly downwards, and do hereby compress part of the Inguen and the Bladder, when we at leisure do discharge our Urine. Columbus will have these Muscles somewhat to add to the Erection of the Penis, but his Opinion is much contradicted by Flud from their Situation: for they cannot reasonably be allowed to serve for this use, because they do in no measure reach this part, and are also apparent in Women.

The Explanation of the Fourth Table.

A Shews the Muscle Obliquus Ascendens
BB. Demonstrates its Tendon.
CC.C.C. The Right Muscle of the Left Side, shewing the Tendons
Duplicature.
K.K.K. The same Muscle of the Right Side.
d. The Transvers Muscle of the Abdomen.
e.e. The Pyramidal Muscles.

Transversus.





The Explanation Transversion Table.

His fifth Muscle firmly annexed to the adjacent Perito- This brings naum is framed of Transverse Fibres, it ariseth from isnati, the Transverse processes of the Loyns and the Os ileon, and the Cartilaginous inward part of the lower Ribs with a Nervous Membrane, from the same Ligament as the former; as also with a Fleshy Origination from the inward part of the Spurious Ribs, and Terminates in a broad Tendon at the Semilunary Membranes, the Linea alba, and so down to the Os Pubis; he adheres firmly to the adjacent Peritoneum in a manner all along, fave only in the Pubes, where he divides himself. Bartholinus declares, that its chief use is to Compress the Colon. Its generally agreed by all Anatomists, that these Muscles do serve for bringing the Abdomen inwards; the which action is very necessary in the Contraction of the lower Belly. Spigelius allows it another action, which is, that it moves the Thorax Circularly to the Sides, hereby promoting and cherishing the Native Heat; These Muscles also being of a moderate thickness, do ferve as a defence and covering to the subjacent Parts

This Transverse Muscle is obliquely perforated a little above the Oblique ascending Muscle, by the Cremasters, and Spermatick Veins and Arteries; so that the perforations of the Oblique Descending, and Ascending Muscles of the Abdomen being framed one above another, not in streight but in bevil Lines, do intercept the passage of the Intestines falling into the Scrotum. These Transverse Muscles running the breadth of the Abdomen cross-ways, do run counter to the Fibres of the Right Muscles, which binds in the Intestines crossing the length of the Abdomen downwards long-ways, as the Fibres of the Transverse Muscles running overthwart, do in their Right Angles secure the Intestines in their actions broad ways, and cross the

Abdomen.

ON:

The Explanation of the Fifth Table.

A. The Inward face of the Right Muscles.

B.B. Another of the same cut in pieces.

e.e. The Pyramidal Muscles laid bare.

F.F. The whole Muscle, Tranversalis in situ.

e.e. Shews its first beginning.

G.G.G. Nerves sent to this Muscle from the Spinal Marrow.

A.A.A.A. Branches of Veins and Arteries of the Eight Muscle, transmitted into this Muscle.

1.1. The same Muscle laid bare.

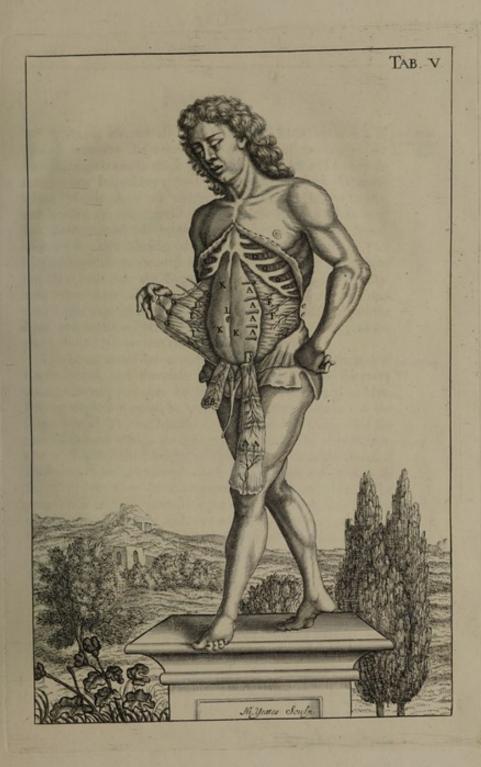
b. Shews its Tendon laid bare also.

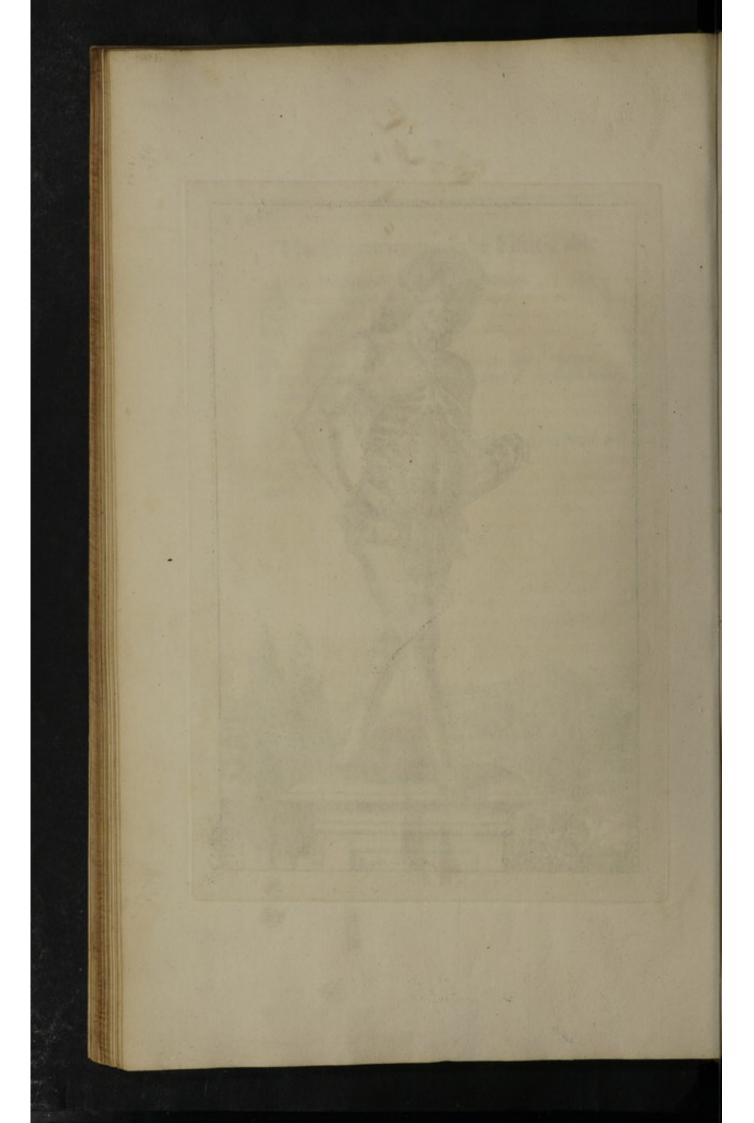
K.K.K. Part of the Peritonaum to which part of this Muscle doth closely adhere.

L. The Navel.

O.O O. The Intercostal Muscles.

Frontalis.





Frontalis.

Aving cleared all the Abdominal Muscles, which in This Muscle necessity did require the first use of the Knife: We the Forthead. next come to those parts which in order of Dignity do deserve our Inspection; And here begin we with Frontalis, which Muscle doth act variety of postures in Human Bodies, and hereby are excellently delineated the Pictures of Sadness, Joy, Sorrow, and Mirth, these being the Passions of the Mind, and are by this Muscle extreamly well Decyphered. This Muscle ariseth from the most elated part of the Forehead, where the Hair ends near the Temporal Muscle, and where the Carnous Membrane adheres most firmly to the Cranium, and running right down, is inferted into the Skin which covers the Eyes, and into the Eyebrows; In raifing this from the Cranium, you will find Nerves fent from the Cranium to him.

This being raised up; it opens the Eye with it: its framed of the and Can-Right Fibres, and therefore lies as a good Caution for every tion. young Chyrurgeon that he makes no transverse Incision here, lest by neglect thereof, he purchase the utter downfall of the upper Eyelid. To this Muscle by late Anatomists are added the two Occipitales which do arise from the middle of the Occiput, ve cr. and paffing by the Muscles of the Ears, tends to the aforesaid Musculus Frontalis: though these do not appear so well in ail Subjects, yet they do counterpoise in some measure. The proper use of these is to draw the Skin backward, and to keep the Forehead streight and smooth, that so it may not be too subject to Wrinkles, by the frequent action of the former.

This Muscle you have very well described at Tab. 6. Fig. 1. at

A. A. at Tab. 7. Fig. 3.

1. At A. Shewing the same in fitu.

a a. Shewing its beginning.

V.V. Its Termination.

A. At Fig. 2. The same Table shews the same Muscle.

Aperiens Palpebram Rectus.

Thu lifts up the upper Eyelid.

Here are two Eyelids belonging to either Eye, the upper of which is moved upwards and downwards, both for the opening and shutting of the same; the first designed for Sight, and the second appointed for maintaining its Vigour, This Muscle ariseth from the upper Orbite of the Eye, near its Elevator, where the Optick Nerve hath its transmission: 2rifing with a thin and fleshy beginning, and is expanded with a broad and thin Tendon into the Margent of the Palpebra, and taking the same up, doth open the Eye; this is not to be shewn but with the other Muscles of the Eye after it is taken from the Cranium. This Muscle and the next following, have their diftinct Originations and Infertions, although their Muscular Fibres do feem to unite, which hath made fome Phylicians conclude them to be both but one Muscle; the which on the contrary by acurate Demonstration, is shewn that they have two distinct Nerves taken into two distinct places; for the upper takes a finall Nerve from that Motion which arises out through the Cavity of the upper Orbite, the lower affirming its finall Nerves from that which it produceth through the Cavity of the lower part of the Orbite, the which Physicians have observed in a Cymical Spalin of the Face: wherein the lower Eyelid is feen to appear as it were immoveable, convel'd and drawn downwards, whilft the upper doth move Naturally; The which could not succeed if they both should be moved by one Mulcle.

This Muscle you have very well explained at Tab. 7. Fig. 1.

at B. C. and at Tab. 6. Fig. 2. at I. I.

Claudens.

Claudens seu Semicircularis superior Deprimens.

Angle of the Eye, and from part of the Eyebrow the Eye.

Angle of the Eye, and from part of the Eyebrow the Eye.

near the Nose, and so falls somewhat transverse towards the Exteriour part of the Eye, becoming sleshy, and so
broad, as that he possesses out of which the Hairs of the Eyebrow
do grow, and is inserted into the Angle of the Eye.

Julius Casserius, Sect. i. de Organ. cap. 8. doth describe these Indications drawn from the Palpebra, as that such as have their upper Eyelids elated, to be Proud and Fierce; those who have them deprest, to have their Eyes as it were half shut, these generally accounted to be of a mild and humble Nature and Disposition:

This Muscle you have described at Tab. 6. Fig. 2. at I. 1. at B. B. Fig. 1. at the same Table, and at Tab. 7. Fig. 1. at B. and B. Fig. 2.

Inferior

Inferior seu Attollens Semicircularis.

His ariseth being Membranous and thin from the top of the Nose near the Angle of the lower Eyelid, with a sharp point, and carried transverse about the middle of the Lid, becoming sleshy, and is inserted into the same Angle as the other. Amongst Authors there is held a Dispute, whether that these two Muscles be not properly one, and that Orbicularis being so generally received; though the one doth depress, and the other attol or lift up, at the same time to make a persect close over the Eye.

These Muscles are as Drawbridges for the Eye to open and shut; and as the first doth produce its perfect Sight by being drawn up, so doth the other procure its ready Rest and Quiet

by as perfect a closure.

To these Riolanus doth add Musculus Ciliaris, which he would have serve to the more firm closure of the Eyelids; but this depends rather on his Fancy or his Knife, than any Foundation in Nature: nor is there need of such a Muscle, since that Office is sufficiently performed by the two forementioned; if they be not one Orbicular Muscle, as some suppose, and consequently by their Circular Fibres constringe as firmly as a Sphincter does.

Both these you have described at Fig. 1. Tab. 7. at C. and at

B. Fig. 2. in the same Table.

Rectus

Inferior

Rectus Oculi Primus Elevator.

He Curtains of the Eye being drawn, we next arrive This life the at the Body of the Eye its felf with its Muscles, by Eye appendix which it performeth all its variety of Motions; the truth is, so much hath already been said of these Muscles, as well as of the Coats and Humours which belongeth to the Eye, that its lost time to trouble you with Repetition thereof; this only I shall offer, that this sine Globulous Body ought to have so many Muscles as it enjoys, to make it hang so perpendicularly in the Orbite of its Bone, and be so well ballane'd, as that it may perform every of its Motions with dexterity, and thereby with ease and advantage execute those Offices for which it was at first designed.

This Muscle ariseth from the upper part of the Orbite of the Eye, near where the Optick Nerve comes forth, and is inserted into that Coat of the Eye called Cornea, where it is clear, and

near the Iris by a thin and Membranous Tendon.

This Muscle amongst Anatomists is generally accounted the first of the Eye, and is either called Attollens or Superbus, being held the Master of Pride and Disdain; the expressing of which Action occasions the Eye to open. Dr. Willis Fol. 149. de Anima Brutorum, doth attribute this Motion to the Eyelid rather, and by him is called Musculus Humilis, because in a devout and intense Prayer it is much listed up, and hence is it that we commonly see the Hypocritical Tribe, who do affect a form of Sanciity to lift their Eyes so much up, that scarce any part but the White thereof is seen, the Pupil in these Creatures being so obscured that scarce any part thereof is to be seen.

This you have very well delineated at Tab. 6. Fig. 3. at G. G.

and at Fig. 5. in the same Table at A.

Redus

Rectus Secundus five Depressor.

This brings the Eye downwards,

His is by some Anatomists called the second Muscle of the Eye, and is so far from advancing it, that it brings it down; and hence hath it the name of Humilir given it, by some also it is called Deprimens, shewing by its Action and Motion the Index of an humble and submissive Temper and Constitution; it is opposite to the former, and is lesser, arising from the lower opposite part of the same Cavity, and hath its insertions as the former, it brings the Eye towards the Chin; This Muscle you have exactly described in Tab. 6. Fig. 3.

at H. and at D. Fig. the 5th. of the same Table.

This Muscle is less than the former, which is its Antagonist Muscle, though their powers hereby are not rendred unequal; because there is less force required to depress than to elevate, and therefore we see it happen in like manner in other parts of the Body. And indeed our great Architect has hereby admirably provided for a due balance of the opposite Muscles; for where there is an excess of power or action on either side, we usually see a Spasm succeed: as happens in the following Muscle, (or Adducens) which in Children is so often contracted by a vitious turning their Eye inward upon drinking, or otherwise, that it occasions that deformed Squinting or cast of the Eye, the which on the account of the Pliablenes of the opposite Muscle they are so prone to in their tender years, over what they are in a more confirmed Age.

Rectus Terrius sive Adducens.

His third Muscle of the Eye doth arise from the Orbite This trings of the Eye near the Origination of the Elevator, sub-the Eye inwards fisting in the inward Angle, drawing the Eye inwards towards the Nose; This Muscle by some Authors is called Bibitarius, and amongst good Fellows great respect is given to this Muscle bringing their Eye towards their good Liquor; bringing the Eye towards its inward Angle, and making it hereby look somewhat a Squint. Dr. Willis in his Book De Anima Brutor. cap. 15. de Visu, makes mention of a Young man troubled with the Palsie, who when his other Muscles of his left Eye were relaxed, this Adducens was strongly contracted, and hence his Eye was so distorted, that its Object seemed as it were double, neither could he distinguish any thing very well with it.

This Muscle you have excellently described at Tab. 6. Fig. 2. at G. at Fig. 3. at I. I. in the same Table, and also at Fig. 5. of the same Table at B.

Obliques

E

Rectus Quartus five Abducens.

This brings the Eye ourHis Muscle by Anatomists is sometimes called Abducent, and likewise Indignator no, from its cross and scornful Effects it carries with it, bringing the Eye outwards. This Muscle ariseth from the External Angle of the Eye, and is inserted as the former: the Eye is drawn inwards by these four working together, and the motion is as it were suspended, which by Physicians is called a Tonick Motion. In Dissection of a Monkey, all these Muscles perfectly appeared exactly as in a Human Eye: and which is observable in these Creatures distinguishable from all other Bruits, these have no Musculus Suspensorius, or Septimus Brutorum.

This Muscle you have also exactly described at Tab 6. Fig. 2. at H. and at K. K. Fig. 3. and at C. Fig. 5. of the same

This Muscle you have excellently definibed as ab . Fig. 2. at G. at Fig. 2, at the grant to his the force Table, and also at Fig. 6. of

Table.

Obliquus

Obliques Minor five Inferior.

His Muscle ariseth from a Chink which is in the lower Tell brings part of the Orbite of the Eye, in his Origination Fleshy, the Eye waste in small, and not altogether round, and is carried ObRateral Angle.

liquely in his whole course, and ascending by degrees to the upper part of the Eye, is there inserted by a short but Nervous Tendon, near the Tendon of the Abducent Muscle; not far off which, the Tendon of the other Oblique Muscle hath also its insertion, and by moving the Eye downwards, it doth convert and abduce it towards its External Angle in a rowling manner.

This Muscle also you have described at Tab. 6. Fig. 3. at L. and at Fig. 5. at E. in the same Table.

inward Angle of the Eye; Thele two Muldes are called Ame-

Mulcles, for they do much work in Human. Body in Sheep also they are et sery great uft, being airen them as their chies Ventlers, or et also which do work their Eyes about. The yearing Chyrurgeon is here canioned, that in his Curing of Lighda Ladwards, he tales great care of this Mulcle. The the or this Mulcle. The the or this Mulcle. The the inward Ancle of the Eye by a Circular Motion, and so to about the first or the Eye by a Circular Motion, and so to about the Pepil from the Name of Northly; several Fibres do pals from the Parishinar, or inward frim of the Orbite to the

forementioned Textiles, and according to forme do confinute the Amforta Textiles, though the ule of them form defigued for a fieldly fixing the Textiles, rather than for a Mulcular motion.

This Mulcile was have also exactly described at Tale 6. Fig. 2.

Obliques

Obliquus Major vel Superior cum Trochlea.

This estrics the Eye to its ismard As-

His ariseth from the same place with the Abducent, and marcheth in a right Line to the External part of the Internal Angle, where it grows indifferently thick, and is then attenuated and grows round, and goes through a Pulley there defigned for it, the which so soon as it hath past it, it, yet so bends its self that it makes the Right Angle of the Eye; and running upwards it begins to grow Oblique, and paffing by the Levator is inferted between the Abducent and Oblique Muscles, as is before demonstrated. The Trochlea or Pully is a perforated Cartilage, passing to the Bone of the upper Mandible, near the inward Angle of the Eye; These two Muscles are called Amatorii, or the Lovers Muscles, being as the true Messengers of Affection, by some they are called Circumactores or the Rowling Muscles, for they do much work in Human Body : in Sheep also they are of very great use, being given them as their chief Watchers, or those which do work their Eyes about. young Chyrurgeon is here cautioned, that in his Curing of Fiftula Lachrimalis, he takes great care of this Muscle. use of this Muscle is to turn or rowl the Eye inwards towards the inward Angle of the Eye by a Circular Motion, and fo to abduce the Pupil from the Nares or Nostrils; several Fibres do pals from the Periostium, or inward Film of the Orbite to the forementioned Trochlea, and according to some do constitute the Musculus Trochlese, though the use of them seem designed for a steddy fixing the Trochlea, rather than for a Muscular mo-

This Muscle you have also exactly described at Tab. 6. Fig. 2. at D. E. F. D. shewing the Muscle E. the Trochlea, and F. the chord of this Muscle; at Fig. 3. at M. M. you have it, and at E. Fig. 5. you have it again very exactly delineated.

Attollens

Attollens Aurem.

S the Eyes are placed in the forepart of the Head as remember. Watchmen to guard the Body, so also hath our wise the Extraordicate Creator planted two Ears at the sides thereof for the formula. better perception of Sounds, and a more ready passage to hearing, to the better performance of which there are hereto given variety of Muscles; amongst which, this is reckoned as the first, it arising from the External Termination of the Frontal Muscle, and so being thin and Membranous, is catried over the Temporal Muscle, and is inserted growing narrower into the upper part of the Ear, moving it upwards and forwards

This Muscle you have exactly delineated at Tab. 6. Fig. 4. at H. and at S. Tab. 7. Fig. 1. you have the same again.

Adducens

F Detrahens

Detrahens Aurem.

This moves the Ear demamards. His Muscle ariseth Fleshy, broad, and sometimes Fibrous, from the back part of the Head, near the Mamillary process, and so growing narrower in its progress is inserted into the whole Cartilage which encompassed the Ear; be careful in raising the Cutis lest you take up this Muscle with it, and so loose him; this moves the Ear downwards and forwards, this Muscle is by some allowed as part of Quadratus Buccas Detrabens.

This you have shewn you at Tab. 7. Fig. 1. at T. T.T.

Adducens

Degrahens

7

Adducens Aurem ad Anteriora.

His is a common Muscle, being part of that which Spi- This draws gelius calls Quadratus Buccas Detrabens, and is also al-formards. lowed as part of that Muscle called Platisfina Myodes, from whose insertion you will find a Fleshy and Fibrous Elongation implanted into the Root of the Ear.

This Muscle is said to draw the Ear forwards and somewhat upwards. Expect to meet this at Quadratus Buccas Detrabens, as being a part of it.

and printed the case may state their more provently and act

Abducens

Excernus

Abducens Aurem ad Posteriora.

This brings the Ear backgrands. His Muscle is planted at the Occiput, and ariseth above the Mamillary processes from a Knot of Muscles which belong to the Occiput, with a narrow beginning, and being carried downwards transversely, is inserted with a double and sometimes treble Tendon into the hinder part of the Ear. This Muscle is said to draw the Ear backwards: In Beasts, as in Horses, Oxen, and the like Bruits these Muscles are much more large and apparent, and oft times more numerous, whence it is, that these can move their Ears more powerfully, and act those strong motions with them which we see is customary for them to do.

This you have described at Tab. 6. Fig. 4. at I. I. I.

Abducens

Externus

Externus Tympani Auris.

He inward Ear hath two Muscles allowed it, found out This briege by the two excellent Anatomists Hieronimus Fabritius the True de aqua pendente, & Julius Casserius Placentimus, and wards and of these one is planted outwards, the other inwards; and from hence they do take their names; this ariseth from the upper and inward passage of the Auditory passage with a large Origination, and becoming Fleshy is inserted externally by a short Tendon into the Tympanum, extending the Membrane with the Malleus upwards and outwards. Spigelius saith it is small and ariseth from the Cutis, and that Membrane which covers the Auditory passage.

This Muscle is one of the least in the whole Body, and is to be shown entire with some difficulty; great caution therefore is to be used in opening the Os Petrosum, about that part which respects the Temples, whether it be done by the small Chissil or Filing, that so the pieces of Bones being taken out by degrees, this Muscle may receive no prejudice; the like care is to be observed also in shewing the following Muscle.

This Muscle you have exactly shewn you at Tab. 6. Fig. 6.

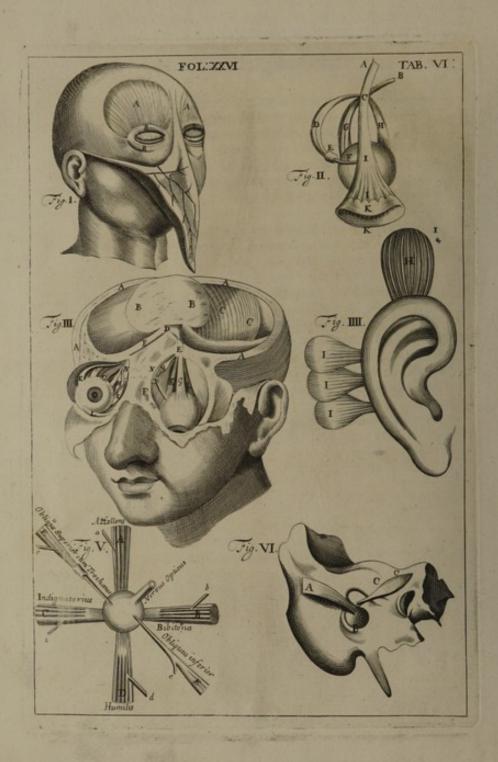
Internus Tympani Auris.

His Muscle is inwardly planted, seated in the Os Petrosum, having its Origination from the Basis of the Os Cuneiforme, and so becoming Fleshy, though thin and small, and having made half his progress, divides himself into two very small and very thin Tendons, the one of which is implanted into the upper process of the Malleus, the other into the Neck thereof, drawing it obliquely forwards, and bringing it somewhat inwards.

These two Muscles do then first move the Membrane with its small Bones upwards and downwards, when we would carefully listen or hearken to any important Matter, &c. Matter or Concern, as Diemerbroeck observes. Dr. Willis Fol. 133. de Anima Brutorum, writes, that the action of this Muscle is involuntary, and is wrought about by some Instinct of Nature; for when a very vehement sound doth approach the Ears, this Muscle doth remit its great noise, so as that it does sensibly obtuind the relaxed Tympanum more powerfully; but if it be either more thin, or more obtuse, this contracted Muscle doth distend the Tympanum, so that this obtuse Impression may be made more sensible.

This Muscle also you have exactly described at Tab-6.





The Explanation of the Sixth Table.

FIG. I.

Hews at A. A. The Frontal K. K. Abducentes. B. B. The Mufcles of the Eyelids. M. M. Obliquus Internus. b. c. The Membrana Carnola

FIG. II.

A. The Optick Nerve.

B. The Motory Nerve. C. The Exortion of the Muscles.

D. Musculus Trochlearis.

E. The Trochlea.
F. The Chord of this Muscle.

G. Musculus Adducens.

H. Musculus Abducens.

I. I. The Muscle of the upper Eye-

K. K. Shews them cut off.

FIG. III.

A. A. A. A. Shews the Cranium resected.

B. B. Part of the Brain.

C.C. The Cerebellum.

D. The uniting of the Optick

E.E. Their progress to the Eyes. G. G. Musculus Attollens.

H. Deprimens of the Right Eye. I. J. Adducentes.

L. Obliquus Externus.

FIG. IV.

H. Musculus Auriculam recta furfum Movens.

I.I.I. Musculus Triceps eandem furfum trahens.

FIG. V.

A. Attollens.

a. Shewing its Nerve.

B. Bibitorius.
b. Shews its Nerve.

C. Indignatorius.

D. Humilis.

E. Musculus Trochlearis, or Obliquus Superior.

F. Obliquus Inferior.

o. The Optick Nerve.

FIG. VI.

A. Externus Tympani Auris.

B. Membrana Tympani.

C. C. Internus Tympani Auris.

Abducens Nafi Alas.

This dilates !

He Nose is the Organ of Smelling, and this gains place in the more eminent part of the Body, for the better susception of the ascent of Vapours and invisible Halations, and their Qualities are sent up hither by the Olfactory Nerves to the common Sensory, and are there approved of according to Judgment; and thus is Man brought into a capacity of either taking or refusing such things as may prove either beneficial or prejudicial, purchased without the Eye, and perceived without the Ear; The Nose is not wholly moved, but rather its lower parts which we call Alæ, and these are either kept open or shut by the benefit of Muscles: and these are called either Abducentes or Adducentes, or if you please Apericintes or Claudentes.

This Muscle ariseth very small and Fleshy from Os Maxillæ Superioris, near the first Par Labiorum proprium, and is inserted into the lower and upper part of the Alæ, and moveth either part upwards.

This you have exactly delineated at Tab. 7. Fig. 1. at D. in fitu, e. shews its Origination, d. its Insertion Fig. 2. id. Tab. you have the same at B.

G.C. Jorgania Temponii Aurii

Attollens

Attollens Nafi Alas.

His Muscle ariseth from the top of the Bone of the Thisbings Nose, near the Lachrymal Cavity, with a sharp and Fleshy beginning, descending to its sides in a triangular form much resembling the Greek Letter and so descending according to the length of that Bone, is inserted broad and Fleshy into the Alas Nasi, and do carry the same upwards; Casserius hath sound them much resembling Myrtle Leaves, these two pair drawing the Nasi Alas, do dilate and open the Nostruis.

This you have fairly described at Tab. 7. Fig. 1. at E.e. shewing its sharp and Fleshy beginning, f thewing its Termination into the Alas, B. shews the same in the same Table Fig. 2.

Claudens

H Claudens

Claudens Nafum Externus.

Hefe Muscles are very small, and without it happen in very Nafate Persons they are never seen or to be distinguished; the first pair of which is outwards and Fleshy, and so do arise at the Root of the Alæ, and so climbing transversely is inserted into the tip of the Nose; and as Vessiani judgeth, doth dilate the same, whilst others do affirm that this doth constringe it.

These Muscles are not to be shewn by any Figure, being both

fo small, and so inwardly implanted.

Claudens

Claudens

Claudens Nasum Internus.

His is much like the former as to its bigness, lodging in- This data wardly under the Membrane which covereth the Nose the Nose from the Bone, it ariseth from the end of the Bone of interests. the Nose, and is expanded into the Alam Nasi, and doth conftringe it; this is very small, and very rarely found out, unless in such Nasute Persons whose general Series of Muscles are very apparent, thicker, and larger than ordinary.

There is also another Constrictive Muscle, which hath gotten the name of Orbicularis common to the upper lip, the which drawing the Lip downwards, doth also therewith shut up and close the Nostrils; And this Bartholinus describes in Fol. 358.

Anatom. where he affirms, That he hath observed an Appendix hereof to descend to the upper Lip, and that in such People who could not lift up their Nose without their Lips.

This Muscle with its former is not to be shewn by Figures,

they being fo very small.

Zygomaticus

Abducens.

Zygomaticus Riolani, vel Attollens Labium Superius.

Thu lifts up the Liv.

O Man are given Lips, both for his accommodation of Eating and Drinking; as also for forming his Voice, retention of Spettle, shutting the Mouth and defending the same from outward Injuries; and because all these Qualifications do require a voluntary Motion, they have given to them variety of Muscles to perform the same: amongst which this is nominated one of the third proper pair called by Riolan. Zigomaticus.

It ariseth Fleshy from the Os Sygoma, with a Fleshy and broad beginning, and running obliquely downwards and forwards is inserted into the side of the upper Lip near Primus Nasi, the which doth abduce it to its sides upwards. See this

Riolanus Anatomy.

This also you have shewn you at the Letter G. at Tab. 7.

Fig. 1. and at Fig. 2. id. Tab. at C. you have the same.

Zygomaticus

Abducens

Abducens Labia.

His ariseth from the Os Zygoma Fleshy and round with reschings much Fat, and is implanted into the Lips where they wards and are joyned together: this moves the Lips upwards cultured. and outwards, and doth also help the former in their motion; this by some Anatomists is accounted the first proper pair: these Muscles do also draw the Lips to the side, whether either one or both do operate either fingly or together.

This Muscle you have shewn in fitt, at Tab. 7. Fig. 1. at H. i and k shewing both its Origination and Infertion; the same you have at the Letter D. in the second Figure of the same

Labium

Labium inferius Deprimens.

This brings she lower Lip downwords and outwards: His arifeth Fleshy from the lowermost and outermost part of the lower Mandible, whence running obliquely, it is broadly inserted into the middle of the Lip, and moves it downwards and outwards; this is called the fourth pair of the proper Muscles.

This Muscle hath a part with the first pair called Detrahens Quadratus, by which it is obliquely moved to either side, (vid) right or left, as either of them are in Operation, drawing the whole lower Lip downwards.

This Muscle you have shewn at the Letter I. Tab. 7. Fig. 1. and at E. in the second Figure of the same Table.

Par

Labium

I

Par Labium constringens sive Musculus Orbicularis & Constrictor.

His is common to either I ip, being framed of a fun- recting gous Substance, with Orbicular or Constrictory Fibres, are pared arising from the middle of the Bones of the upper and lower Mandible, and doth form and make the whole Body of the Lips, encompassing the Mouth like a Sphincter, and drawing the Lips mutually to it, the which do firmly adhere to the red Cutis, which gives them their admirable Vermilion Dye; as also shews the Paleness of them in Sickness; All these Muscles of the Lips are so closely conjoyned to the Cutis, that their Fibres do intersect one amongst another; and hence is it that such a variety of motions are seen in the Lips; and thus have we shewn all the Muscles of the Lips. Fallopius hath another pair of these Muscles belonging to the Lips, whose Cutis is so closely mixed with the Muscles, that it rather seems to be a Musculous Cutis or a Cuticular Muscle.

This Muscle is also called Osculatorius from the use which is

made of it.

These Muscles of the Lips have variety of Uses given them for performing their diversity of Actions; as some being defigned for shutting the Mouth, others for opening the same; some made for accommodation of Eating and Drinking, and others formed for Ornament of Speech and Love Motions.

This you have fairly shewn you at Tab. 7. Fig. 1. at K.K. and at Tab. id. Fig. 2. you have the same at F. F.

Buccinator.

Quadratus

Quadratus sive Platysma Myodes.

This deams down she Circle,

Caution.

He first Muscle lying under the Skin of the Neck is called Quadratus, from its Figure, and is small and Membranous firmly adhering to the Cutis, arising from the Vertebres of the Neck, Scapula Clavicle, and Sternon, large, broad and thin, with store of Membranous Fibres, and so running up with oblique Fibres, is inserted into the Chin, where both the upper and lower Lips are joyned; and enlargeth himself so far as to make Adductor auris ad Anteriora, and because it agrees much with the Chin, it helps forwards the opening of the Mouth; and by its enlarging its self so far as to make Adductor auris ad Anteriora, the Ears also may be allowed to be moved by the help of this Muscle; it hath various Surcules of small Nerves belonging to it from those of the Neck; This Muscle being once convelled there follows a Cynick Spasin.

Here's Caution also for the young Chyrurgeon, where he ought to take notice of the Fibres of this Muscle, especially when he may or shall be called to make Incision here; for want of knowing of which upon making transverse Incisions here, and crossing the Fibres and their Ductures, he presently occasions an Avulsion in the Cheeks, otherwise great care must be had to preserve this Muscle; for whether you do raise the Cuta from above or below, he adheres very closely to it; In the raising this Muscle, be careful of leaving its Elongation that makes Adductor auris ad Anteriora, which you will rarely miss.

This Mulele according to Riolanus you have expressed in our toth. Tab Fig. 1. at F.

Quadratus

Buccinator.

Buccinator. Villandial

His fecond Muscle which formeth the Cheek is called This draws the Cheek is made of it; it arises the Cheek is from the upper part of the upper Mandible, and from the lower part of the lower Mandible, where the Gums begin, and do amplect the whole Cheeks in their seats, being round like a Circle: the proper Coat of the Mouth adheres so firmly to him inwards, that he is scarce separable from it; outwardly he hath a large round Tendon implanted into the midst of him, which hath his Origination from a Glandulous Substance, growing to the Os Zygoma, close by the Origination of the Muscle so called.

This Muscle doth not only move the Cheeks with the Lips, but doth also constringe them, and drive the Meat fallen into the Mouth into the Cheeks back again to the Teeth, sending or conveying the Meat thither, until it be better lessened, and made smaller, and a more accurate Confraction of the same be hereby made. Placentinus writes, That he hath sound a very strong Ligament in the Center of this Muscle; the which arising outwards, and creeping along the Os Gingiose, terminateth into a small and thin Muscle directly opposite to the Cheek; but Riolanus denies the same.

This Muscle if you please may also be allowed as a hand to the Teeth, sending the Meat till it be well Chewed to the Teeth, by which it may the better be lessened and comminuted.

This Muscle you have shewn you at Tab. 7. Fig. 1. at F. and at P. Tab. ead. Fig. 2.

1 CIDPOTALIS

Masseter

Masseter sive Lateralis, seu Mansorius.

This draws the nether Mandible laterally.

We.

Me.

His arifeth with a double beginning, strong, large, and Nervous; first from that Suture where the fourth and first Bone of the upper Mandible joyneth; secondly Fleshy from the Os Jugale, and is firmly and largely inserted into the lower Mandible External; This Muscle by reason of its diversity of Fibres given it, doth move the nether Mandible forwards, backwards, and laterally, and as it were about also; If you throw this Muscle either from its Origination or Infertion, Temporalis will appear in its Insertion.

The proper Use of this Muscle is shewn in Mastication; it moves to both sides, as to Right and Left; it takes its name of Mansorius from its proper Action: and from its site, it is called Lateralis.

This you have shewn you at Tab. 7. Fig 1. at the I etter 0. I. shews it also at Fig. 2. Tab. ead. where b. b. shews its Origination, and c. c. its Insertion.

be briefy ands. Through writes that he has found a

Temporalis

at P. Tal. and. Fig. 2.

Temporalis seu Crotaphites.

His is the first and strongest of all the Muscles, filling the the Mandille whole Cavity of the Temple Bones; it arifeth from *pmerts. the Os Frontis, Syncipitis, & Sphenoides, fleshy and Semicircular, and growing narrower in his descention, runneth under Os Jugale, with a thort but very strong and fleshy Tendon into the process of the lower Mandible called Corone; it hath allowed it three Nerves on either fide: One from the third, a fecond from the fourth, and a third from the fifth pair; Wherefore this Muscle being either inflamed, contused or wounded, sharp pains do immediately succeed, and great danger of Convulsion and fear of Death, especially if the hurt do happen about the Nervous part thereof; As touching the Perioftium, you will find that if you do raise this Muscle carefully, (contrary to the opinion of some) you will meet it under this Muscle, although many have afferted the contrary. The end of this Muscle is the beginning of the lower Mandible, the which it moves and draws upwards, and hereby shutteth the mouth; and by some hence it is called Attollens, and is the strongest Muscle of the Body in respect of its bulk. And as Spigelius writes, it is furnished with so much strength, that he remembers in his ripe years that he hath lifted up several pounds of Lead by the strength of his Teeth, and carried them therewith. I have seen very great weights brought from the ground by the Teeth and strength of this Muscle, and it has been reported above 2001 weight has been lifted from the ground by them. This Muscle both shuts the Mouth, and constringes the Teeth.

In opening the Temporal Artery, caution is to be used by the young Chirurgeon left he injureth this Muscle, by cutting too deep, whence fatal Convulsions (or at least a prejudice to Mastication) do succeed. The safest way therefore is, first to make a light incision of the Skin, and then the Artery lying bare may the readier be hit and divided without injuring this Muscle, which lies under it; or at least it will be well to use in this Operation the Lancet that is retule on one fide like the Penknife, and to take the Artery pretty high about that part of the Temples which joyns to the Os Frontis.

This you have at Tab. 7. Fig. 1. at L m. m. m. shewing its Semicircular beginning, H. shews the same, Fig. 2. ejusd. Tabal. Mastoideus.

Mastoideus.

This contraffs the Neck. His is one of the eight pair feated in the forepart of the Neck, strong, long, and smooth: it ariseth with a double beginning; a certain Cavity distinguishing them, one from the Sternon Nervous, and the other Fleshy from the more elated part of the Clavicle, and is obliquely inserted into the Mammillary process by a round and Fleshy Tendon.

This is worthy Note, that in a live Man, especially in thin and aged People, in which it is very conspicuous, that if the whole pair do work, it bends the Head right, but if one of them do only work, this Muscle is only contracted, and this brings the Head forward laterally.

This you have at Tab. 7. Fig. 2. at K in fitu, d. d shewing its Origination from the Sternon, e. e. its Inscrtion into the Mammillary process of the Temple Bone.

Biventer

Biventer Digastricus seu Graphyoides.

His is the second pair called Biventer, the like of which The Mandalle is not to be found in Human Body; in the middle of the Mandalle whose Venter it groweth thinner, having as it were addeposable two Venters, arising near the Mammisorm process: it ariseth with a broad and Nervous beginning from the process Styloides, and suddenly becoming round, Fleshy, and small, so soon as he recurvates under the Styloides, he becomes a Nervous round Tendon, and then becomes Fleshy again, and is inserted into the middle Interiour part of the nether Mandible, and by drawing the Mandible downwards doth open the Mouth; the too great descent of which is hindred by its annexed Ligament. And for the better performance of this work, the former Muscle doth help this very much in its Operation.

Provident Nature hath given this Muscle two Bellies, and from thence it got its name, having in its middle an interjacent Tendon, very aptly resembling a Trochlea or Pulley; formed for this use, that whereas these Muscles do not arise from the lower parts of the Neck, but rather bred from the upper parts thereof, they do reflect about the lower parts of the Mandible like a Pulley, drawing the Mandible downwards, and so opening the Mouth.

This you have shewn at Tab 7. Fig. 1. at N. Extra Situm, whose Tendon is described by N. and its Venters by L. M.

The

L Coracohyoides.

Coracohyoides.

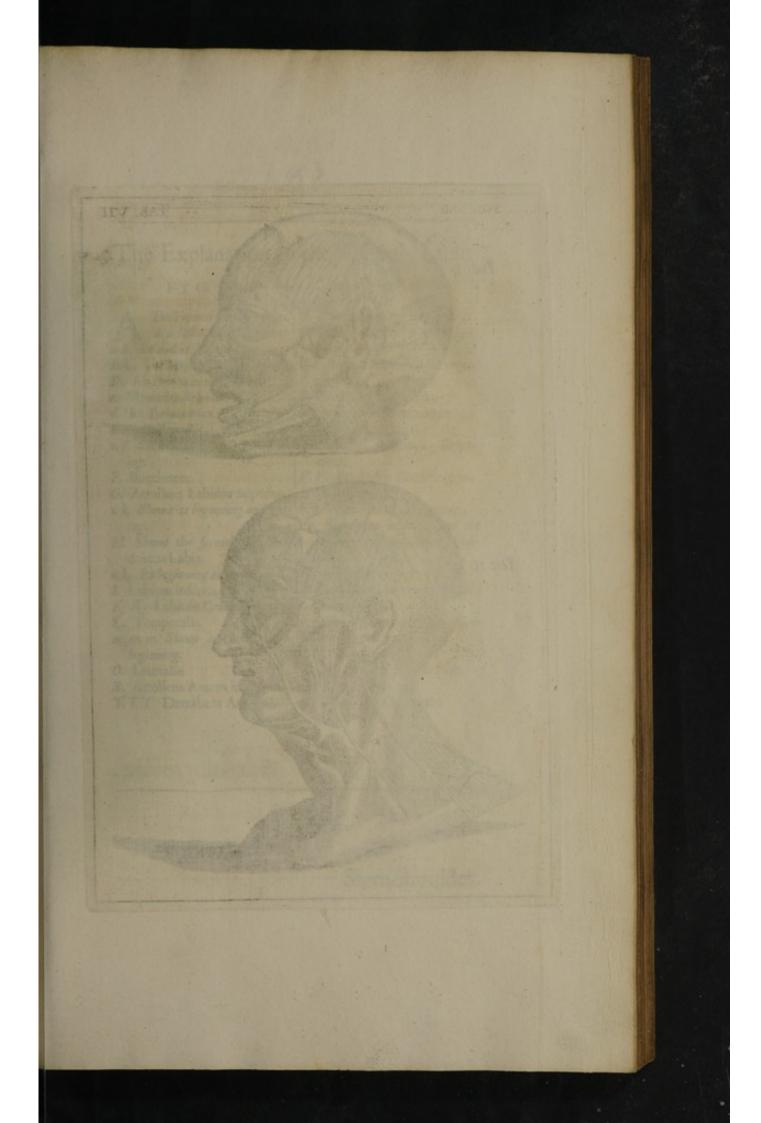
This brings the Os Hyoides obliquely downwards.

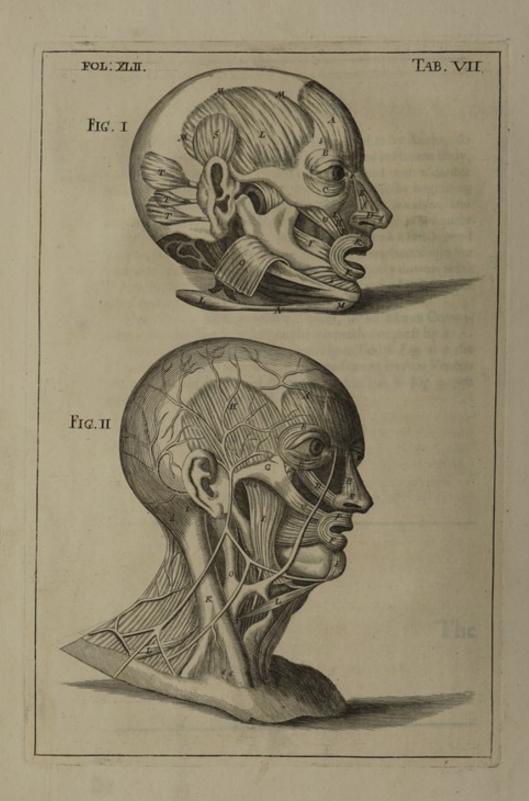
His Muscle is very thin and lon, so that by Anatomists it is held there is not its like to be found in Human Body, for thinness and length; it is endowed with a double Belly by a distinct Tendon: it ariseth with a Fleshy beginning near the Neck of the Os Scapulæ from its process Coracoides, and running under the Levator Patientiæ of the Scapula, is obliquely carried under the Massoides, and there becometh a small round Tendon, and then Fleshy again: and so is implanted into the Horns of the Os Hyoides, and draws it obliquely downwards; If you leave this Muscle in its Origination at the Dissection of the Levator, you will find his Origination persect.

This Muscle hath a double Venter, as its former Companion, that the Jugular might not be too much comprest by it.

This you have described very exactly at Tab. 7. Fig. 2. at the Letters L. L. these two Letters demonstrating its two Venters described in their Natural Position; and at Tab. 8. Fig. 3. you have the same laid bare at H. H.

The





The Explanation of the Seventh Table.

FIG. I.

The Frontal Muscle in fitu. a.a. Shews its beginning. b.b. Its end or Termination.

B.C. The Muscle of the Palpebra.

D. Abducens alas in fitu.

c. Shews its Origination.

d. Its Termination.

E. Attollens Nasi Alas.

e.f. Shews its beginning and end-

F. Buccinator.

G. Attollens Labium Superius.

i. k. Shews its beginning and end-

H. Shews the second pair, Abducens Labia.

i. k. Its beginning and ending.

I. Labium inferius Deprimens.

K. K. Labium Constringens. L. Temporalis.

m. m. m. Shews its Semicircular beginning.

O. Lateralis.

S. Attollens Aurem in fitu.

T.T.T. Detrahens Aurem.

FIG. II.

A. Musculus Frontalis in situ.

B. B. The Muscles of the Palpebræ.

Æ. Nasi Alas Constringens in fitu.

B Nafi Alas Abducens.

C. Attollens Labium Superius.

D. Abducens Labia.

E. Inferius Labium Depri-

F. F. Par Labia Constringens.

H. Temporalis.

b. b. Shews its two beginnings.

cc. Shews its insertion into the largeness of the lower Mandible.

K. Mastoides.

d.d. Shews its beginning from the

e.d. Its insertion into the Mammillary process.

L. L. Coracoides.

0. The outward Jugular Vein.

P. Buccinator.

G. Shews the Os Jugale.

Sternothyreoides.

This brings the Os Hyoides downdownwards.

THE!

Hese are generally accounted the second pair, moving the Os Hyoides downwards and backwards; This Muscle ariseth broad and Fleshy from the inner part of the Sternon under the Skin of the Neck, and running on (the same in substance and breadth all along) the Aspera Arteria, and the Thyreoidal Cartilage of the Larynx, is inserted into the Basis of the Os Hyoides.

This Muscle brings the Os Hyoides directly downwards and

fomewhat backwards.

You have this fairly delineated at Tab. 8. Fig. 2. at C. C. and at G. G. Fig. 3. id. Tab.

H. Show the ferend ring Ab- largeness of the lower Man-

Anollow I abium Superius 141 1 cmcomins

the Its beginning and ending. A. Maftordes.

L. Labrium informs Departments.

L. Temporalis.

L. Temporalis.

L. L. Temporalis.

L. L. Cornordes.

L. L. Cornordes.

L. L. Cornordes.

O. Lacrestis.

S. Arcellens Aurem in fice.

C. Shewer its beginning from the Mann.

O. The entered Jugular Vein.

T. T. T. Detrahens Aurem.

G. Shewer the Os Jugale.

Sternothyreoides.

Stemohyoides

Sternothyreoides.

Hese Muscles of the Larynx (as they call the Head of This extent the Asperia Arteria) are so nominated, not because they do move the whole Larynx, but its Cartilages; This formerly was called Bronchus, but we more properly from its name and insertion do call it Sternothyreoides: it ariseth Fleshy and broad from the upper and inner part of the Sternon, and keeping his dimensions, creeps up with streight Fibres along by the Aspera Arteria, and is inserted into the lower side of the Scutisormal Cartilage, the which when it presses the Scutisormis, it narrows its Rima or Cleft.

It is generally believed that this does close up the lower part of the Scutiformis, and that it draws downwards, whence the upper part thereof is seen to be extended, and the Rimula or Cleft dilated.

This also have you delineated at Tab. 8. Fig. 2. at L. L. N. N. shews the same at Fig. 3. Tab. ejusd.

Styloceratohyoides.

M Hyothyreoides.

Hyothyreoides.

This contraits the Larynx, His ariseth from the whole side of the Os Hyoides, at his Basis, and running down broad with right Fibres is inserted into the lowest and lateral part of the Scutiformal Cartilage, and by attolling it, doth dilate its Rima. Riolanus thought this pair not to be peculiarly appointed to any Cartilage, but did lift up the whole Larynx; if you raise this Miscle clear from its Origination and Insertion, you will be less troubled to find out these Muscles of the Larynx.

This draws the Larynx upwards, whence it is we in our felves, when we would frame a sharp Voice, that we then do bring the Larynx upwards, and when this is contracted, it contracts the upper part of the Scutiformis, driving it inwards.

tracts the upper part of the Scutiformis, driving it inwards.

This also you have delineated at Tab. 8. Fig. 2. at m.m. M. M. shewing the same at Fig. 3. ejusd. Tab.

Styloceratohyoides.

M Hypothyreoides.

Styloceratohyoides.

His third pair ariseth from the Root of the Processus This brings the Os Hy. Styloides, and being small and round, is implanted into order the Horn of the Os Hyoides, found infallibly by Di-liquely negatives his running through or under him, obliquely, moving the Os Hyoides obliquely upwards.

This draws it obliquely upwards.

Observe that its Insertion is in the lower part of the Horn (or rather towards the Basis) of the Os Hyoides.

E. E. Shews this, Tab. 8. Fig. 3. F. F. Shews the fame, ead. Tab. Fig. 2.

Amongst these Muscles of the Fances, the two pair lately found out by the Ingenious Doctor Croune may not improperly here be mentioned; one of which are named by him Musculi Pterygo-palatini, and the other Spheno-palatini. The former of these are seated in the Interior part of the Cavity of the Os Pterygoides, and terminate with their Tendons (which run on part of the foremention'd Bone as on a Trochlea) about the Glandula palati, which (together with the Woula) they depress.

The latter of these, or Spheno-palatini, arise from the Os Sphenoides, and with a broader Tendon are inserted into the sides of the Glandula palati, which (together with the Uvula) they do attoll. From the situation and action of these latter Muscles may some account be given, how the Uvula being relaxt is commonly reduc't by thrusting the Thumb bent toward the Palate or these Muscles.

These Muscles you have exactly shewn you at Tab. 10. Fig. 2. at 0. 0. X. X. Shews its Tendon, Q. Shews the latter, where f.f. shews its Tendon also.

Mylohyoides Riolani.

His ariseth laterally from the nether Mandible inwards, under the Dentes Molares, Fleshy, and is inserted into the Basis of the Os Hyoides, externally; this is to be thrown upwards in Dissection. Look into Riolan. which doth give you satisfaction as to this Muscle.

E & Shore the Jak Sale of the Shore the Lang. one

properly here be menioural; one of which are named by han Majoris Through palating, and the other Sobras palating. The former, of their are fixed in the Interfer part of the Cavity of

the expression of the separation of September on a Metalica) about

Milohygides

Geniohyoides.

Geniohyoides.

His first pair which from their primary use were called the drewing Recta Attrollers, & Geniobyoides, drawing it directly improved and somewhat forwards, it ariseth internally from that middle part of the lower Mandible called the Chin, and marching down short, broad, and Fleshy, is inserted in a proper Cavity, at the Basis of the Os Hyoides internally.

This Muscle moves the Os Hyoides directly upwards, and the somewhat forwards.

fomewhat forwards.

D. D. Shews this Muscle, Tab. 8. Fig. 3. E. E. Shews the fame, Tab. ead. Fig. 2.

> N Mylogloffus.

Myloglossus.

This moves the Torgue upwards. He Tongue, whereas it is not only the primary Instrument of the Voice, but also is useful for turning of the Meat contained in the Mouth, and doth obtain very many voluntary Motions; for the executing of each of which, there are required several Muscles, amongst which this is said to be the fourth pair, it ariseth with a broad beginning from the innermost lateral part of the lower Mandible under the Molares, and is inserted into the Ligament which ties the Basis of the Tongue to the Fauces; At the Origination of Mylobyoides you will certainly find this, and it is best shewn when the Mandible is divided: when one of these move, the Tongue is turned upwards: when both move, the tip is directly lifted upwards towards the Palate.

C. Shews this Muscle, Tab. 8. Fig. 2.

Ceratoglossus.

Mylogloffus.

Ceratoglossus.

His is one of the four pair arising from the Morns of the Told bridges.

Os Hyoides, and hence it is called Ceratogloss, and is the Tongue, implanted obliquely into the sides of the Tongue, near its Root; if both these work together, they draw the Tongue downwards and inwards: if only one operate, it moves it either to the right or left side.

I. Shews this, Tab. 8. Fig. 3. D. Shews the fame, Fig. 2. ejufd. Tab.

Genioglossus.

Hypfilogloffus

Genioglossus.

His is one of the second pair so called by Spigelius: it ariseth with a narrow Origination, about the middle of the lower Mandible or Chin, and then enlarging himself, is inserted into the Root of the Tongue; Vestingius doth number this amongst the number of Os Hyoides, and saith that they are implanted at the Basis of the Bone, which it draws streight upwards, whereby the Tongue is the more easily thrust forward out of the Mouth, though in the excessive heat of Fevers, the Fibres of this Muscle are so parcht that the Patient does it with difficulty.

E. Shews this, Tab. 8. Fig. 3.

uholgome .

Hypfilogloffus

Hypfiloglossus seu Basioglossus.

His is one of the third pair, it ariseth Fleshy from the This movers Basis of Os Hyoides, and is inserted into the middle of mards, the Tongue, according to its longitude, and by drawing it inwards, doth bring it backwards.

This being contracted, it brings the Tongue inwards, and

G. Shews this, Fig. 3. Tab. 8.

O Srylogloffus.

Lingualis.

Stylogloffus. Stylogloffus.

This brings the Tongue upwards and inwards.

His ariseth Fleshy and small, with a sharp beginning from the Styloidal process, and growing more broad and Fleshy, is inserted into the lateral part of the Tongue, and it brings it upwards and inwards: it is best found, by discovering of Styloides with your Finger, and then your Eye will direct you to it, at the lateral part of the Tongue; in man it is slender, but in Beasts it is double, Fleshy, and thick.

Its use is thus explained; If either of these Muscles moves, the Tongue is carried either to the right or lest side directly, but both moving, its brought back to the Fauces.

K. Shews this, Tab. 8. Fig. 3.

Stylogloffins.

Lingualis.

Cricod silaugualis. hoon

His ariseth Fleshy and large from the Basis of the Os reasons Hyoides, and so runs according to its longitude, for the reason ward to the tip of the Tongue, and is much disputable whether it be a Muscle or not; it's endowed both with oblique, transverse, and right Fibres, all which are so fully sprinkled about the Tongue, that is through its whole Body, that they are scarce divisible, and cannot by the best and most industrious hand be separated.

Spigelius doth give these Uses to these pair of Muscles, if they may properly be called so, that the transverse Fibres which are implanted in them do serve to contract the Body of the Tongue and so to thicken it, the oblique dilating it, and separating them from one another, and that the right were framed for bringing it to the Palate and Fances in Constriction.

This Muscle is not to be explained, being disputable whether

it be a Muscle or not amongst Anatomists.

F. Cophægeus

Cricothyreoides

Cricothyreoides Anticus.

This moves the Cartilage obliquely downwards. His is said to be the first proper pair of the Larynx, as is held by Vestingins and most Anatomists: it takes its Origination from the fore-part of the Annulary Cartilage, and ends in the sides of the Scutiformal, and hence it gets the name of Cricothyreoides Anticus, and is generally reputed to move the Cartilage somewhat obliquely downwards; it ariseth in the lower and fore-part of the Larynx, having a Fleshy beginning; when this is contracted, it extends the Cartilage Cricois or Annularis, and so openeth its Cleft for a more deep and greater Voice or Sound.

F. Shews this at Tab. 8. Fig. 2. D. D. Shews the same laid bare, Tab. ead. Fig. 2. C. Shews the same, Tab. ead. Fig. 3.

Æsophægeus

Cricothyreoides

The Explanation of the Eighth Table.

time of Fig. 3. golfs. Tab.

D. D. 1 enchybrides at Fig. 2. F. E. Shewe the fame half have at try, 3. epifd. Tab.

L. Concoglational Part 2.

F. Cryconrytenoides Anticus at Fig. 1. D. D. Shen's the Jame

The Explanation of the Eighth Table.

C. Sternohyoides at Fig. 2. G. G. Shews the same laid bare at Fig. 3. ejusd. Tab.

L.L. Sternothyroides Fig. 2. at N N. Shews the same laid bare

Fig. 3. M. M. Hyothyroides Fig. 2. at m. m. Shews the same bare at

Fig. 3. ejufd. Tab. E. E. Styloceratohyoides at Fig. 2. F. F. Shewing the fame laid

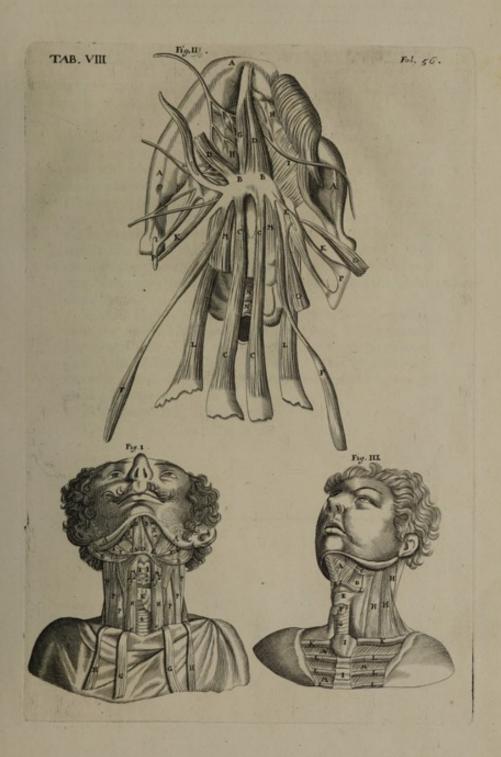
D.D. Genehyoides at Fig. 2. E. E. Shews the same laid bare at Fig. 3. ejufd. Tab.

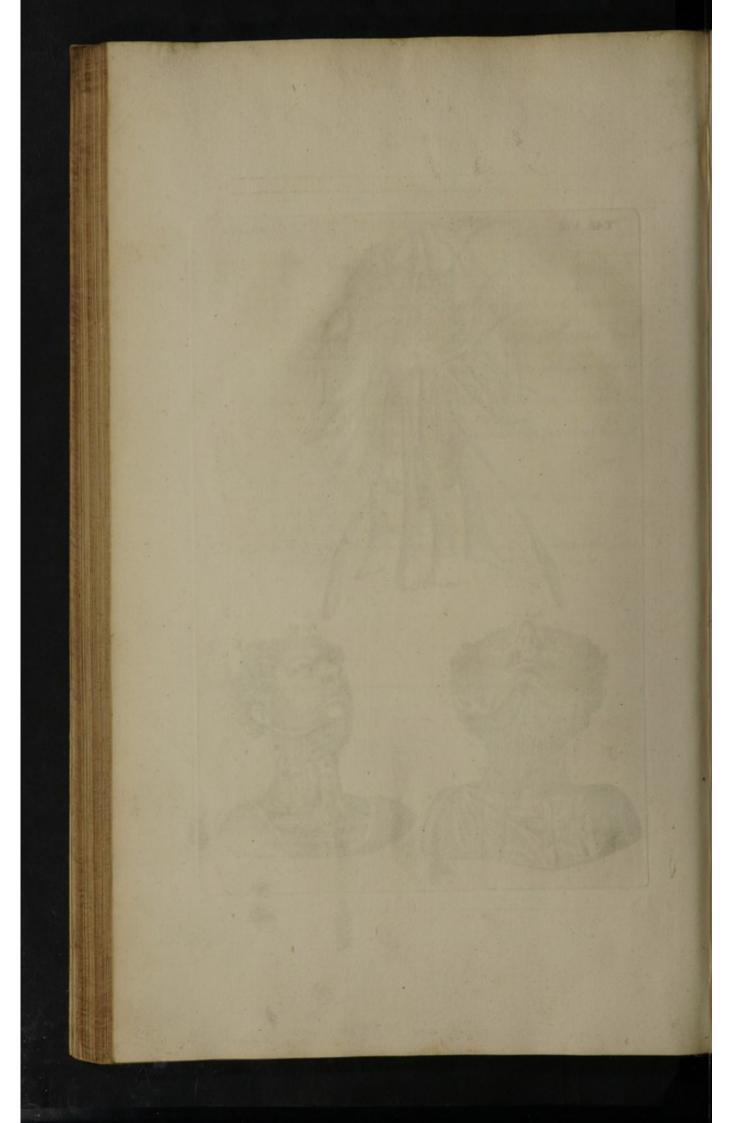
C. Miloglossus shews this at Fig. 2.

E. Geneoglossus at Fig. 2.

I. Ceratoglossus at Fig. 1. D. Shews this also at Fig. 2. G. Hypsiloglossus at Fig. 2.

K. Styloglossius at Fig. 2.
F. Crycoarytenoides Anticus at Fig. 1. D. D. Shews the same laid bare





Æsophageus seu Sphin&er gulæ.

He Æsophagus is a round Channel, by and through the conwhich our Nourishment, as both Meat and Drink Fautes.

doth pass from the Mouth into the Stomach, and this
Action of Deglutition is performed by the Fibres of the Æsophagus, and its Muscles; for whereas we Eat and Drink at our
wills and when our pleasure is this Action is performed when
thus made use of, by such Instruments as do serve for a voluntary
Motion, as Muscles, which are to be numbred with their Animal Actions: and although it may serve for a Natural use,
(as for Nutrition) yet it is no less Animal than Breathing, the
which also is customary to Nutrition, yet is it Animal; Now
this Sphineser Gule is very officious in this service, for when a
due Mastication is made, this by its Constriction doth drive it
downwards.

It ariseth Fleshy, and is a broad Muscle wholly encompassing both the fore and back part of the Æsophagus, arising laterally according to the length of the Scutiformal Cartilage, encompassing the Æsophagus like a Sphineser; This Muscle being carefully raised, you will much better find Stylopharyngaus & Cephalopharyngaus.

D. D. Shews this, Tab. 9. Fig. 5.

Stylopharyngæus.

This dilates and opens the Æsophagus.

His third pair is so called, and do arise with a small beginning from the inner part of the Styloidal process, and descending with its thin body, is implanted by a Membranous Tendon into the Thyrois, the sides of the Os Hyoides, and the Root of the Tongue; this helpeth forwards the former in its Contraction.

Whereas there are appointed two as Dilators of the Æsophagus, so this is accounted as one of the Constrictors, though Veslingius thinks it rather Dilates.

pulling the Abphages lifted Sphirition Into Authoritions Contained and Stylephoreigness &

C. C. Shews this, Tab. 9. Fig. 5.

Cephalopha.

Stylopha

. Cephalopharyngæus.

D. D. Sheves this at Tab. o. Fig. t. G.G. Shows the time land bare, T.b. eight. Fig. a. G. G. Shows the lam, Fig. 4-cipil. Tab.

His ariseth from the Cranium, and the first Vertebre of the date courses the Neck where they are joyned, and so descending, Fauces.

is implanted into the lateral sides of the Os Hyoides, is implanted into the lateral sides of the Os Hyoides, for whom he seems to make a Coat, and by listing this up doth who constringe the Fauces in the Deglutition.

A. A. Shews this, Tab. 9. Fig. 5.

Cricoary 4

Cricoary

Cricoarytænoides Posticus.

Y Spigelius this is reckoned as one of the first pair of the Larynx, extending or opening its Cleft, and by Casserius it is called Par Cucullare, it ariseth Fleshy from the hinder and lower part of the Cricoides, and running up with right Fibres, and repleating the Cavity of the Cricoides, is Nervously implanted into the inner seat of the Arytanoides, and by division of the two Arytanoidal Cartilages, the Larynx is opened. This doth extend the Arytanois, and by converting it backwards to the outward parts, it opens the Epiglot.

D. D. Shews this at Tab. 9. Fig. v. G.G. Shews the same laid bare, Tab. ejusd. Fig. 2. C.C. Shews the same, Fig. 4. ejusd. Tab.

Cricoarya

Cricoary 4

Cricoarytænoides Lateralis.

His is generally allowed one of the third pair, extending the Larynx to the fide, or opening its fecond Rima is obliquely or Cleft, it ariseth from the lower part of the Annulary Cartilage upwards, and is inserted into the lateral external part of the Arytenoides, opening the Larynx by the oblique diduction of its Cartilages.

Here's also observable, That by how much the second pair of the Contractors doth draw to a mutual Contract, the second pair of the Extenders do bring them outwards, and so open them. This is generally allowed to extend the Larynx laterally, and so doth open the Rimula.

E E. Shews these laid bare, Tab. 9. Fig. 2 C. Shews the same in situ, Tab. ead. Fig. 3. C.C. Shews them in situ, Tab. ead. Fig. 5.

Arytænoides.

Arytænoides.

His is also called Claudens Secundum, its very small and Fleshy, and ariseth with oblique Fibres from the Arytanois, where it is joyned to the Cricois, and is again inferted into it, where it connecteth its felf with its Companion; This moveth the Arytenois obliquely, and to either fide, and fo

by constringing its Basis, doth shut the Glottis

This is a lled Arytanoides or Guttalis, and whereas there are allowed two motions of the Larynx, by which it is either contracted or dilated, shut or opened, so doth both these Dilatations and Constrictions, or Clausion and Apertion proceed from their proper Muscles. Thus when the Thyrois is dilated, the Arytenoides is thut; and thus according to Galens opinion, the Larynx is contracted when the fides of the Thyrois or Scuiformis are contracted and moved inward, dilated when they are extended and brought outwards, and thut when the Arytanois is constringed and brought into a cavity, opened when it is brought outwards and extended.

The action of these Muscles are most remarkable, when we forcibly stop our Breath for some time, for then it prevails against the contrary endeavour of the Muscles of the Thorax, which ferve to Respiration, and shuts the Arytanoides so close,

that no Air can enter in.

F. F. Shews the same laid bare, Fig. 2. ejusd. Tab. B. B Shews them at Fi . 4. ejufd. Tab.

Thyreoary.

Thyreoarytenoides. 192

His is one of the fourth pair, arising Fleshy, broad, and rise consists transversely implanted in the Cavity of the Larynx, really, and from the middle inner part of the Thyrois, and being carried upwards according to its length, is inserted into the lateral part of the Arytemoidis, which makes the Glottis, the which constringing doth shut the Larynx; This Muscle is best found by dividing Cartilago Thyroidis, from the Cricoidis, Arytemoidis, and subjacent Muscles, the Coats of them being carefully preserved, after which will plainly appear this.

This pair if they be inflamed, in a Squinancy, when as they do exactly shut the Rima or Cleft, it brings Death along with

D. Shews this, Fig. 3. Tab. 9. B. B. Shews the same at Fig. 6. ejufd. Tab.

B R. Shews this at Lab. 9. 105 4.

Sphenophas

R Sphenopha

Sphenopharyngæus Primus.

This desh dillarente Fauces He Muscles of the Fances, by some the Pharynx or beginning of the Esophagus, are those which do serve for Deglutition, and therefore Nature hath planted at the top of the Esophagus Muscles here as Instruments of voluntary motion for ading to our wills or pleasures; and as some of these do serve for Constriction, so also are others as useful for Dilatation, amongst which are these reckoned as the first pair.

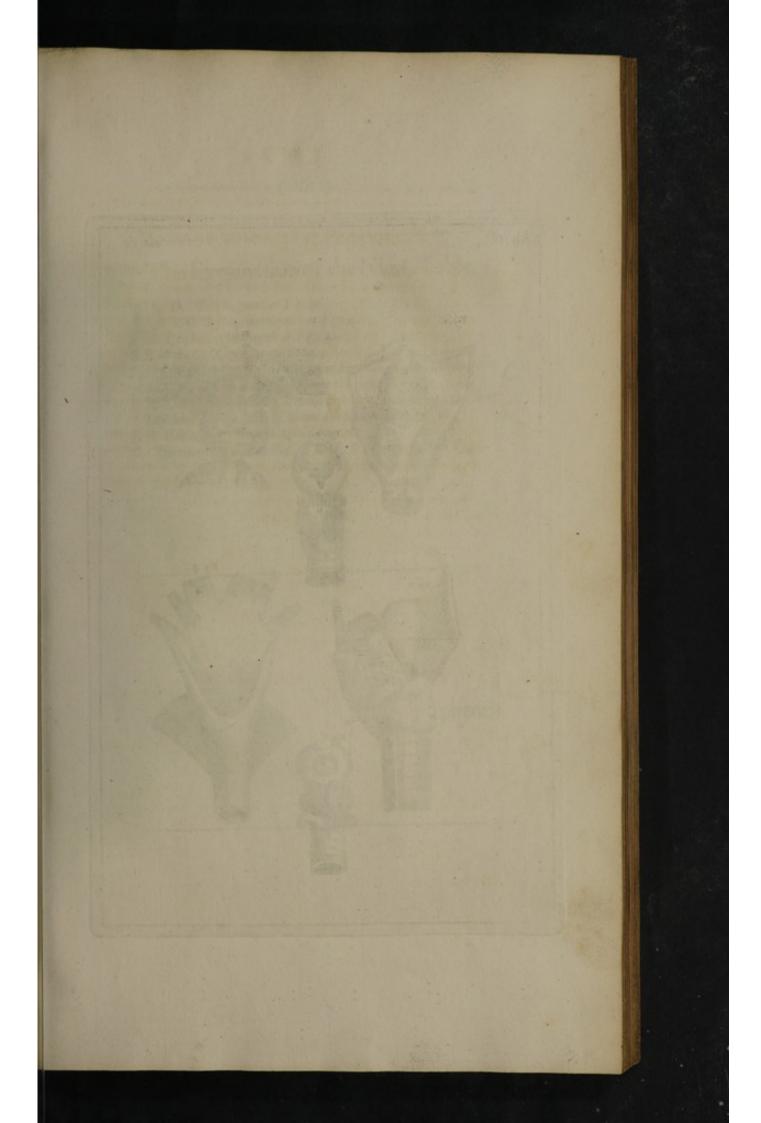
This ariseth thin and Nervous nigh the sharp Appendix of the Os Cuneiforme, descending by the inward Cavity of the Pterygoides, and is inserted by a small Tendon into that Skinny part of the Pallate, from which the Gargareon seems to proceed, and doth dilate these parts for Reception of their Nutriment.

Neither this nor its fellow are rais'd well or diffincely without much trouble and d fficulty.

B. B. Shews this at Tab. 9. Fig. 4.

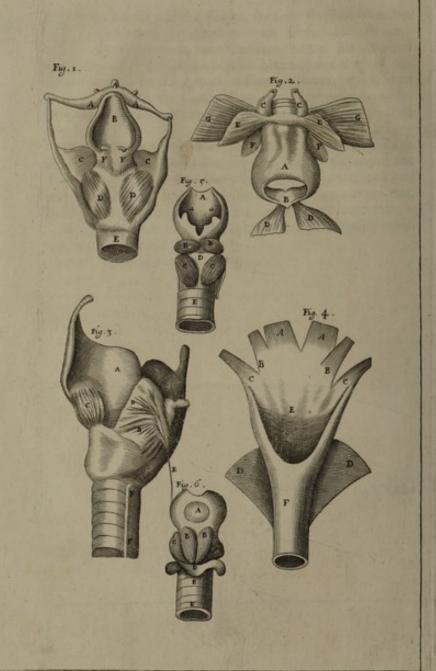
Sphenopha.

R. Sphenopha«



TAB.IX .

Fol. 66.



The Explanation of the Ninth Table.

D. Æsophagæus at Fig. 4. C.C. Stylopharyngæus at Fig. 4. A. A. Cephalopharyngæi at Fig. 4-

B. B. Sphenopharyng ai at Fig. 4.
D. D. Cricoarytenoideus Politicus at Fig. 1. G. G. Shews the same

laid bare at Fig. 2. D. D. Shews the same at Fig. 5. E. E. Cricoarytenoideus Lateralis at Fig. 2. C. C. Shews the same laid bare at Fig. 3. C. C. Shews the same also at Fig. 6.
F. F. Aritenoides shews this laid bare at Fig. 2.
D. Thyroaritenoides at Fig. 3. B. B. Shews the same at Fig. 6.

Spheno4

The Explanation of the Ninth Table.

D. Klophagaus at Fig. 4.

C. Stylopharyngaus at Fig. 4.

A. Cephalopharyngai at Fig. 4.

28. Sphemopharying at the 4.

had been at Fig. 2. D. D. Shows the fame at Fig. 5.

E. E. Cricoan considered accralis at Fig. 2. C. C. Shows the fame daid have at Fig. 3. C.C. Shews the fame also at Fig. 6.

D. Thyrogelicnoides at Fig. 3. B. B. Shews the fame at Fig. 6.

Sphenos

Sphenopharyngæus Secundus:

His fecond is by some allowed to arise from the same This k his Origination as the former, and is inserted into the ha-the source teral and back part of the Fauces and Afophagus, the tailor.

which drawing downwards, they do dilate the Cavity of the Fauces and Gula; To find these after you have raised the Larynx and Afophagus, leave the Fauces entire, then divide the Fauces themselves from Os Palati, till you come into the Cavity, then carry your Knife close internally to the Os Cuneiforme, and being thus divided, you will with ease find both their Originations, and with as much pleasure you may dissert them.

This also is shewn at Tab. 10. Fig. 1. at B. B.

Next to these should I have put in the Stomach and Intestines, but Dr. Willis bath given so full an Account of them, and shewn their Fibres so exactly, that whoever desires to take a view of them may be very well satisfied thereof in his Book named Pharmaceutice Rationalis.

Prerygoides

Pterygoides Externus five Abducens.

This brings the Mandible formards.

He lower Mandible hath allowed it variety of Motions, and these are both very necessary to Human life, as also for well ordering of their Deligns: for how can the Meat be either received into the Mouth, or there chewed or leffened, unless the Mouth were opened, and then that again; the Teeth do act their parts, and by a mutual Collifion and Comminution towards a fair Deglutition, do make a happy progress towards the health of Man; without the benefit of Muscles, the Grinders must lie still, and the Incisors grow dull; the Mandible hath its variety of Muscles granted it for the discharge of its variety of Offices, amongst which this is accounted as one of its fourth pair, and doth arise from the External part of the Processins Aliformis in part, as also from the rough and sharp Line of the Os Sphanoidis, strong, Nervous, and Fleshy, and so marching down large, is inserted by a strong broad Tendon into the inner part of the lower Mandible, laterally, just under the Tendon of the Temporal Muscle, and doth move the Mandible forwards, and as it were doth abduce it from the Head.

E. E. Shews this at Tab. 10. Fig. 1.

Pterygoides

Peerygoides

Pterygoides Internus seu Adducens.

His ariseth thick and short from the inner Cavity of the This bringing Processins alisonmis, being first Nervous, then Fleshy, and is inserted by a broad, long, and Nervous Tendon into the lower Mandible internally lateral, the which drawing it upwards, doth help the Office and Action of Temporalis, bringing the Mandible inwards and backwards. These two Muscles do not appear until the whole diffection of the Tongue, Larynx, and Gula be fully compleated.

D. D. Shews this at Tab. to. Fig. 1. show many and tolling

the Body, from the fifth and fixth Vertebre of the Horas, where the Rib joyns its felf to him, and to running up under the Ajophagus, is joyned to the fides of the Bodies of all the Vertebres, aftereding until he comes to the first of them, where meetin with Scalenas, they infert themicitys by a flat p Nervous Tendon into the transverte process of the first Vertebre of the Neck.

or contracted forwards, one only operating, it carrieth it to the fides

A. A. Shews thir. Feb. to, the 2.

S Longus.

Prervaoides Laugnos Leu Adducens.

This contrads the Neck He Neck is as an Appendix to the middle Venter, or a middle between the Head and Trunck. Such Animals are destitute hereof, which do not move their Heads with the Trunck of their Bodies, as Fishes, Frogs, &-c. This Neck hath a four fold motion granted it, as forwards, backwards, and to either side, and every of these Motions are performed by the benefit of Muscles, of which some are called Flectors, others Extensors; of the Flectors, the first pair are called Longi, lying under the Esophagus.

This Muscle ariseth sharp and Fleshy from the forepart of the Body, from the fisch and sixth Vertebre of the Thorax, where the Rib joyns its self to him, and so running up under the Æsophagus, is joyned to the sides of the Bodies of all the Vertebres, ascending until he comes to the first of them, where meeting with Scalenus, they insert themselves by a sharp Nervous Tendon into the transverse process of the first Vertebre of

the Neck.

Use.

The Neck by the benefit of these with the Head, is bent or contracted forwards, one only operating, it carrieth it to the sides

A. A. Shews this, Tab. 10. Fig. 2.

Longus.

O. C. Almadine Extenopalarine atlant deported about Usukay

w. Shows at the A. of O. Press, older with the finall beach

or other the China old Palant

A. The Uvala

one. I'm of the Mafele Prerygoideus Interests to which is adjusted Provegogalatinan secretioned at O. O.

to an engle Stem or Landon's Materialized about the Atopiagua, M. O.I T.

The Explanation of the Tenth Table.

FIG. L

A. Temporalis laid bare.

B. B. Maffeter. C. C. Digaffricus or Biventer.

D. D. Pterygoideus Internus.

E. E. Prerygoideus Externus.

F. Quadratus Riolani.

FIG. II.

r. f. t. v. Os Ptery oides.

O. O. Musculus Pterygopalatinus which depresseth the Uvula; and with it the Glandule of the Palate.

X. X. Shews its Tendon which is reflected about the neck of the Os Pterygoides as on a Trochlea, and is inserted into the Glandule of the Palate.

r. Shows the neck of the Os Pterygoides with its small bead.

B. Shews the Glandula Palati.

d. The Uvula.

a. a. Part of the Muscle Pterygoideus Internus to which is adjacent Pterygopalatinus mentioned at O. O.

C. Shews its Origination arifing from the lower part of the Cavity

of the Os Pterygoides.

9. Shews another Muscle called Sphenopalatinus which attols the Glandula Palati, and with that the Uvula.

f.f. Shews its Tendon implanted in the side of the Glandula Palati.

Z. Shews its Origination out of the Os Sphenoides.

Moreover as touching these two Muscles (besides what bath already been said as to their Uses) this Observation is very material as to their Usefulness, (viz) in Hauking or forcibly raising up any tough Flegm or Lapidouse Matter lodged about the Æsophagus, these are of very great use as to the dispatch of the same forward, and sending it outwards, being here planted as two strong Ligaments which can give force to the Pallates raising it self for the discharge of the same

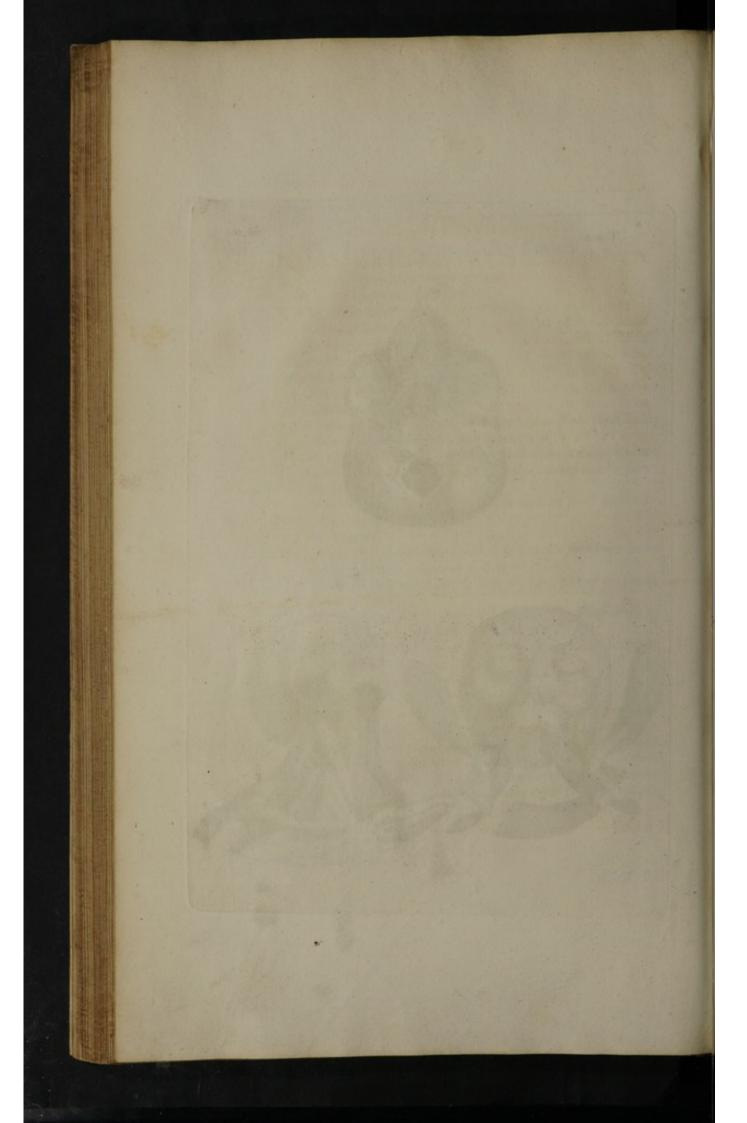
A Musculi Longi.

B. Scalenus.

C. Mastoideus







Scalenus five Triangularis.

Hese pair of Muscles resembling a Triangular Figure, This comby some Anatomists are not improperly called Trian-Neckathe gulares.

This arifeth from the first and uppermost Rib of the Thorax, broad and Fleshy, and then narrowing himself, in his upper course he bestows transverse Fibres upon all the transverse processes of the Neck, and is inserted as the former, and doth also help the former forward in their motion; This Muscle hath a peculiar Cavity allowed it, through which the Arteries descending to the Arm, and the Veins ascending from thence do pass.

If these Muscles do work together, they do contract and bring the Neck and also the Head right forwards, but if only one do operate, it inclines the Neck to one side forwards.

B. Shews this at Tab. 10. Fig. 2.

Pectoralis.

Pectoralis.

He upper part of the Arm reaching from the top to the Cubite, is that which we generally do call the Arm, and this is moved by several Muscles, the first of which is called either Adducens Humerum, or Pectoralis, by some the Boxing Muscle, it possesses Humerum, or Pectoralis, by some the Boxing Muscle, it possesses the street of the Thorax, and ariseth first from the middle of the Clavicle, where he is most round, and next the Breast Fleshy, then from the Sternon according to his length, and is annexed to his Cartilages; Thirdly, from the Cartilages of the sixth, seventh, and eighth Ribs, and is there Nervous in his Origination, and so proceeds Fleshy and large until he arrives at the lateral part of the Thorax, where he is converted into a short, broad, and strong Tendon, and is inserted into Os Humeri, and according to his length between Deltois and Biceps.

This bringeth the Arm to the Breast forwards, and hence by some hath it given it the name of the Boxing Muscle, and this either directly, or somewhat upwards, or downwards, according to the contraction of its upper, middle, or lower Fibres.

B. Shews this in Tab. 16. c.b. d. Shew its diverse Fibres.

Pedioratis.

Subclavius.

Subclavius.

His is called the Subclavius which is feated under the This before Clavicle, and lodgeth between the first Rib of the appards and Thorax; This is accounted the first Muscle of the cutmards. Thorax, it ariseth from the Inferior part of the Clavicle, and being for the charged forwards with Oblique and Transverse Fibres, it is implanted into the first Rib near the Sternon, and by drawing it upwards and outwards, doth dilate the Thorax.

The use of this Muscle is for drawing down the Clavicle, wie and oil, when it is moved upwards with the Scapula, for when the Scapula's are attolled, the Clavicles are lifted up with them, the which to reduce into their proper places, the Subclavius is to be brought downwards; and hence in Fractures of the Clavicles, if they be fractured near the Sternon, the Arm with the Scapula does foon fall downwards, and that part which is next the Sternon doth ascend and is raised upwards, as Hippocrates doth observe, Lib. de Fractur. and on the contrary, if they be broken near the Acromium, you will find neither part to ascend: the cause of which, the same worthy Anthor doth fortifie with this ingenious Reason; Whereas this Muscle is inserted to that part which is next the Acromium, when the Clavicle is fractured two ways, this Subclavian Muscle is presently contracted; and thus the Arm draws the dependent Scapula together with its felf, whilst the other part is detained in its place by the strength of the Muscle.

F. Shews this, Tab. 11.

T

Serratus

Detrains

Serratus Major Anticus.

Thil brings the Scapula formerds. them from their Use, but rather from their Figures, as this pair much resembling the Teeth of a saw, and hence called Serrati. This is the second Muscle placed in the side of the Thorax, arising from the third, fourth fifth, sixth, seventh, eighth, ninth, aud tenth Ribs, with a Saw-like, Nervous, and sharp Origination, hence growing Fleshy upon the Ribs, he ascends and inserts himself Fleshy into the whole Basis of the Seapula inwards; It is much Disputable both by Spigelius and Vessinguis, whether the Origination and Insertion be not econtra; the motion of this Muscle is promoted by the Oblique Descendent Muscle of the Abdomen: when this is contracted to its beginning, it draws the Scapula forwards, as also the Serratus Minor, but somewhat downwards.

And also as I apprehend, another Use may be to tie or fasten

the Scapula to the Breaft.

A. Shews this at Tab. 16. a. a. a. Shews its Origination and its Tendon, D. D. Shews the same at Tab. 11. F. F. F. F. Shews the same in its place in Tab. 1.

the Ann draws the dependent Scapula together with its felf, whill the other part is detained in its place by the Breezeth of

F. Shows this, Tak. 11.

Serratus

T

Serratus

Serratus Minor Anticus.

His is the fourth, which wholly lies under the Pectoral This trings Muscle in the fore part of the Thorax, and is called a special Servatus from its being like a Saw, acuminated with various Fleshy Fibres; Minor, as touching its difference with the Major, it is substrated to the Pectoral Muscle; arising from the four first upper Ribs (but one) by so many servated Originations, and so descending towards the Scapula narrows himself, and is inserted broad, Fleshy, and Nervous into the Processus restrictormis of it, and draweth it forward to the Thorax: if they work both together, they do bring the Scapula to the Breast: if the upper they bring it upwards, and é contra: if the lower, they bring it downwards.

This Muscle hath also (as I conceive) the same Use with the former, binding the Scapula forward to the Trunck of the Body.

F. Shews this laid bare, Tab. 11.

Intercostales

Interco.

Intercostales Externi.

Hese have their Originations from the Transverse processes of the Back, where the Ribs are joyned, and so proceeding Fleshy, do fix themselves all along from the lowermost part of the upper Rib, external to the upper part of the lower Rib, and so doth proceed to the Cartilage of the Sternon: The outward Muscles being contracted, do draw the

Ribs towards their Originations upwards and outwards, in Refpiration; hence the *Thorax* is dilated, and so its Cavity is made

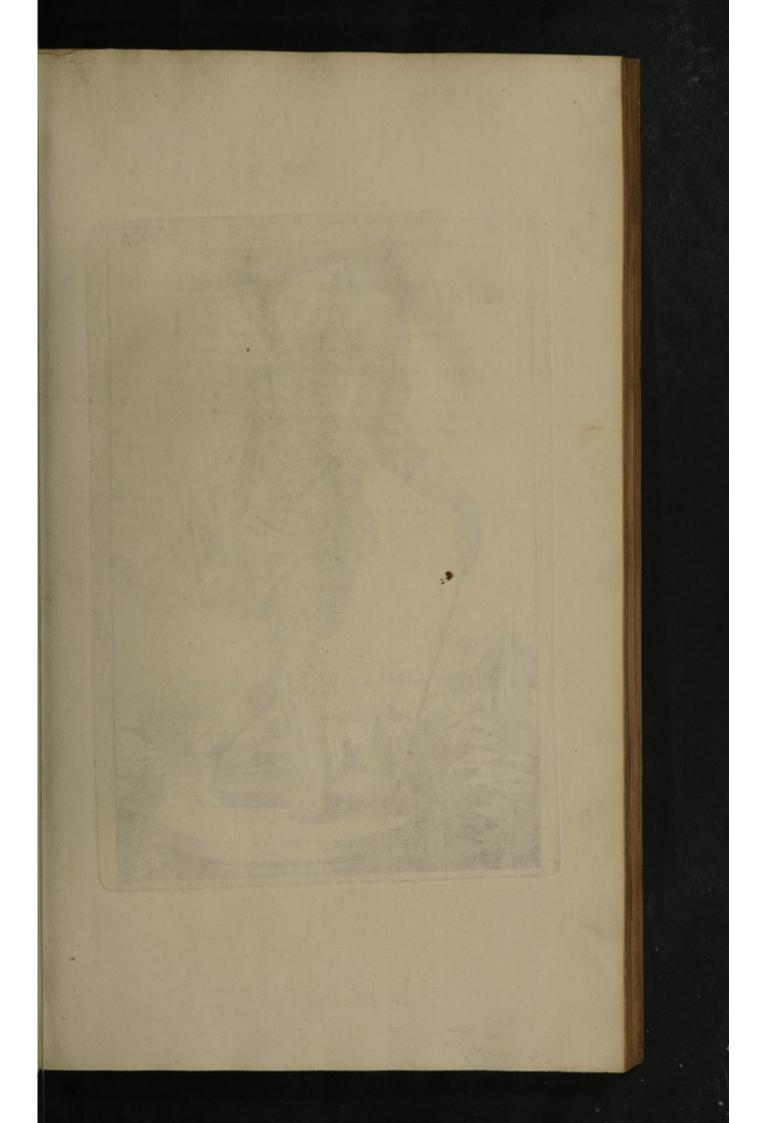
wider.

All these Muscles are endowed with Oblique Fibres, and these intersecting each other, do shew their differences from the Interni. As a good Observation to the young Chirurgeon, lethim take care in opening of any Abscesses or Empyemas which may happen here, for if he makes a direct Incision here downwards, he cuts and divides all the Spermatick Fibres, and therefore in these cases he is advised to make his Incision in an oblique manner.

K.K.K.K. Shews this at Tab. 11. 0.0.0. Shews the same, Tab. 5.

Intercoltales

Interco4





The Explanation of the Eleventh Table.

F. Subclavius.
D. D. Serratus Major Anticus.
E. Serratus Minor Anticus shewing it laid bare.
K. K. K. K. Intercostales Externi, Intercostales Interni.
C. C. Subscapularis.

Intercoa

The Explanation of the Eleventh Talac.

Scholavina.

Scheine Minor Amicas Scheing & laid bare.

K. K. K. A. Intercollale: Extreme, intercollales Interni.

C. E. Salverpulare.

Interc *

Intercostales Interni.

Hese have their Originations where the Ribs do begin These to bend inwards, and run from the lower to Thorax and the upper part of the Ribs, not only to the Cartilage, confiring at the under that to the Sternon; these Muscles do work contrary to the former, for these do bring the Thorax downwards and inwards in Expiration, whence it becomes Constrict, and the one. Cavity is made less.

Moreover, whereas the External Muscles do end about the beginning of the Cartilages, so as that there are left Intercartilaginous spaces: hence is it, that Nature, that provident Mistress, who abhors all vacancies, hath filled all these empty spaces with these Internal Muscles, and hath raised the same to the Exteriour Superficies of its space or those spaces.

These you may also see with the former.

Cremafteres

V Pectoralis

Pectoralis Internus seu Triangularis.

thefe Internal Must les, and both sailed the fame to the Exteriour

His by some is accounted the fixth Muscle of the Thorax; it is a fmall and thin Muscle arising from the inner part of the Sternon, and adheres to the Cartilage of the upper Ribs, fending forth on either fide four fmall Projections to the Offeal Extremities, by which the third, fourth, fifth, and fixth true Ribs are joyned to the Cartilages, by the adduction of which, they do constringe the Thorax, and do somewhat depress it forward.

This Muscle is not to be thewn by any Figure. This Muscle is not to be shewn by any Figure.

Cremasteres

Pedoralis

Cremasteres sive Suspensorii.

Here are three proper Coats allowed the Testicles, 1st. The's been the Testicles Erythroides or Tunica rubra, and 2dly. Elytrois, or Va-from falling ginalis, and 3dly. Tunica Albuginea, or Nervea: to the down. External Membrane of the first are adnated the Cremaster Muscles, one on either side, the which in Men have their Originations from that Ligament which is in the Os Pubis; in Dogs and other Animals they are feen to take their Originations from the Tendons of the Transverse Muscles, and their Fleshy Fibres do run through the whole length of the Vaginal Coat, especially in its back part; for which cause the outward Superfices of this Coat is feen to be Asperate and Fibrous, the inward smooth, and covered with a certain waterish Humidity, and is strongly annexed to the lower part of the Testicles.

Regne rus de Graaf doth allow a three fold Use of this Muscle; as first that it keeps the Testicles from Cold; Then that it keeps them up from falling down, the which by their weight, should it once so happen, they would hinder the Spermatick Vesfels in their Operations; And laftly, as various Authors have writ and observed, That they attract them for a better Excretion of the Seed, as is feen in the Act of Venery. Bartholinus doth witness, That there are such who have this so strong, that they can according to their will retract the Testicles, and then

again dismiss them.

Tab. 13. Fig. 4. at C. C. you have this, D. D. Shews their Fleshy Fibres.

Accelerator

Erector

Erector Penis, sive Collateralis.

T is is faid to credi the Penis. He Seed made, prepared, and elaborated in the Spermatick Vessels do require a proper Instrument for its discharge into that part which Nature at first designed it for, by which means we see the like produced by the help of this Instrument. Plato in Timeo did suppose the Penis to be some certain Animal, which could produce such strange effects as touching both Generation and Propagation, but although it is no Animal, yet it must properly be allowed an Animal-part and Instrument: Its placed in the lower part of the Belly, for the more commodious executing its Office, it takes its Original from a strong Foundation, as from the Bones of the Pubis, to whose Root it is most firmly planted; we pass by its Figure and Substance, and come to its Muscles.

This Muscle has his Original from the Appendix of the Coxendix, beneath the beginning of the two Nervous Bodies, in whose Interior part their thickest Fibres do terminate and vanish.

Spigelius doth affert that they take their names from their qualities, and that they do erect the Penis, and in coition do preserve the same; but this is denied by Regnerus de Graaf, as you will see in the next Chapter: for these Muscles rather depress the Penis, that so the Seed may be the more straightly ejaculated into the Uterus.

S. S. Shews this at Tab. 13. Fig. 1. T. T. Shews the same, Tak. ead. Fig. 2. G. G. Shews this, Tab. 12.

Accelerator

Erector

The Explanation of the Twelfth Table.

To Rector Penis

Acceler

The Explanation of the Twelfth Table.

G. Erector Penis.
F. F. Accelerator Penis.
K.K. Levatores Ani.
I. Sphincter Ani.

Accele

Accelerator Penis.

Efides the former, the Virile Member hath two other Too first & Muscles allowed it called Urethram Trabentes, arising the clark Fleshy from the Sphineter Ani, and joyning with its partner internally lateral, and marching by the fore part of the Penis, is inferted into the Vrethra, and is generally afferted that it was framed for the dilating of the Urethra; but the Use thus defigned these Muscles is much rejected by Re n. de Graaf, the which he confuteth by these Reasons, That when all Muscles do work in their own proper method, their Venters do tumefie, and their ends do approach nearer each other; the which being granted, it cannot thus happen that the Penis should be extended, the Action of the Muscle being Contraction, and this being most contrary to Extention; neither can the Penis obtain Erection by the benefit or help of these Muscles, for it rather would appear depressed than erected these being contracted, and they being planted in the lower part, or under the Penis, taking their Origination from the Appendix of the Coxendix, and so implanted to the lower part of the Yard.

As to the two also which are affigned by other Authors to dilate the *Urethra*, they are in no ways capable to perform this, these Muscles running through the middle of it, are firmly united to each other by one extremity of Fibres, whilst the opposite to the former obliquely running over the *Urethra*, do send the same into the sides of its Nervous Bodies; but as to the Erection of the *Penis* two kinds of Vessels do seem chiefly to serve with the Muscles for the performance of this, as Nerves and Arteries; but of these you may plentifully satisfie your self

in Regner. de Graaf, de Organ. Viror. Fol. 154. &c.

This you have at R. R. Tab. 13. Fig. 1. Fig. 2. at S. S. you have the same, ead. Tab. F. F. Shews the same, Tab. 12.

Levatores

X Musculi

Musculi Clitoridis.

He Clitoris hath variety of names bestowed on it, as Amoris Dulcedo, Oestrum Veneris, Libidinis Sedes, &c. it disfers from the Virile Member if you consider its whole Fabrick; First, because its bisurcated parts are twice longer when joyned, in the Penis when the parts are conjoyned they are four times longer than the bisurcated parts. Then because it hath no such like Channel as hath the Penis, neither is its Glans perforated as is that of the Penis in Men; All Anatomists have by consent allowed that there are Muscles annexed to the Clitoris, but as touching the number of them there is held a Dispute; we judge and allow of two arising from the Bones of the Coxendix, and running above its Crura, are implanted in them; This Muscle we call Graafiani, and by this the Clitoris is raised.

This Use we think proper to ascribe to the Clitoris and its Muscles, by the Contraction of the Clitoris and compressing its Thighs, it doth distend the third Body much more with the

Glans.

There is also another pair of Muscles ascribed to the Clitoris by Authors, arising from the Sphinelerani with a broad beginning, passing by the I ips of the Pudendum, between the Clitoris and Plexus Retiformis, and it is so annexed to the Clitoris, that it is judged that it was appointed rather for the contracting of the Vaginal Orifice, than for erecting the Clitoris; and from hence we presume to call it Musculus Labiorum Uteri Contractor.

C.C. Shews these at Tab. 13 Fig. 4. by this Muscle the Clitoris is depressed, D.D. Shews its Fleshy Fibres, E.E. The Fleshy Fibres of the Sphineter annexed to the Nervous substance

of the Clitoris.

Levatores

Levatores Ani.

Hat part we generally call the Anus is that which is the rese life end of the Intestinum Rectum; these arise from the Li- " up. gaments of the Coxendix, and Os Sacrum, under the Bladder, fmall, thin, broad, and Membranous, and are inferted into each fide of the Podex; These Muscles being very much relaxed, do suffer a Procidentia Ani, or rather Prolapsus Intestini, these are best discovered before you remove the Intestinum

Rectum, Vesica, and adjacent parts.

R.R. Shews these at Tab. 13. Fig. 2. K. K. Shews the same, Tab. 12.

Sphincter.

Sphin&er Ani.

His from its Use is called Constrictor Ani, or Orbicularis, it ariseth from the lower Vertebres of the Os Sacrum, round, and broad, joyning himself largely circular to the In estimum Rectum with Transverse Fibres much thicker above than below, where he adheres so firmly to the Cutis, that

it is scarce separable: and hence by some Anatomists it is called Cuticulosus.

We acknowledge the Use and Nobility of either of these, for when they any wise suffer a Paralysis, this being hurt, the Excrements involuntarily do come down, and for the service they do in this case, they are called Constrictores

Q. Shewsthis at Tab. 13. Fig. 2. I. Shewsthe same, Tab 12.

Sphin&er

Sphincter Vesicæ.

of the lower Belly, the which is formed as a receiver to take the Urine into it, or Serum which paffeth from the Kidneys into it, and at due time doth also ferve for a discharge of the same, and so this Bladder hath two Muscles given it, the one is said to retain the Urine in it, the other drives it out; How unkind would Human life be, if it should be continually attended with a continual dropping of Urine, as also how troublesome would it be to Mankind to be perplexed with as great a stoppage; therefore kind Nature as she hath been so free as to give the Bladder one pair to keep it in whilst it is convenient to discharge it, so also hath she been as provident to let it out when the Bounds of Nature commands a discharge thereof: the first from its Office hath gained the name of Sphineser.

This is placed orbicularly in the neck of the Bladder, scarcely distinct from the substance of it, only where you find a round Induration, this is the same, this doth keep the Urine from in-

voluntary falling out from the Bladder, purfing it up.

O. O. Shews this at Tab. 13. Fig. 1.

Detrufor Urinæ.

This lets

His is faid to arife betwen the common, and fecond proper Coat of the Bladder, the first Coat properly being his, if not him, and therefore it is very Fabulous, which some Physitians so strongly contend for, that besides the former they will allow the Bladder many other Muscles, but in truth the best of Authority doth not afford any other of the Bladder besides these two already named.

This Muscle therefore is only the middle Coat of the Bladder, which consisting of Carnous Fibres running length-ways serves to the expulsion of the Urine. The tone of these Fibres is much injured when the Bladder is overmuch distended with Urine, or when it is held too long.

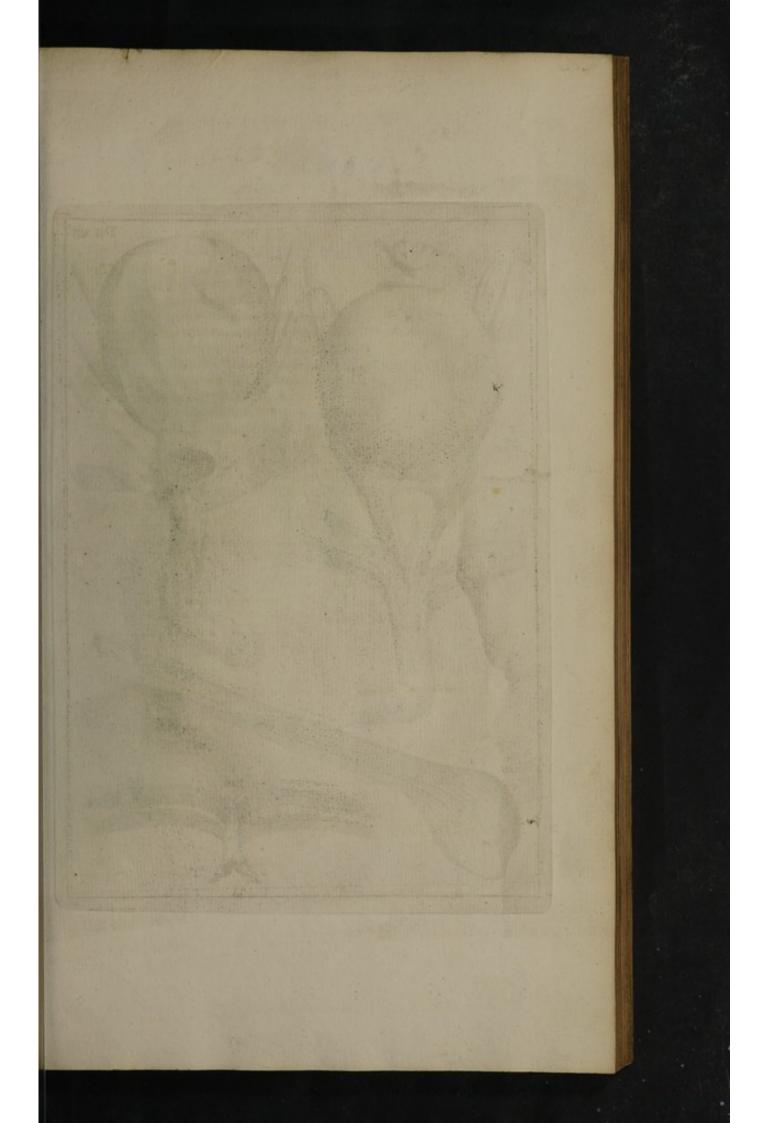
M. M. M. Shews this, Tab. 13. Fig. 1.

This is placed orbitality in he neck of the Bladder, flarcely diffind from the fibbliance of it only where you find a round inducation, this is the flame, this doth keep the United from involuntary falling out from the Bladder, purling it up.

0.0. Shews this at Tab. 12 Fig. 1.

Diaphragma.

Detrusor





The Explanation of the Thirteenth Table.

D. Cremasters at Fig. 3.

S. S. Erector Penis at Fig. 1.

T. T. Shews the fame laid bare at Fig. 2.

R. R. Accelerator Penis at Fig. 1.

S. S. Shews the fame laid bare at Fig. 2.

C. C. Musculi Clitoridis at Fig. 4. and at D.D. E.E.

R. R. Levatores Ani at Fig. 2.

Q. Sphincter Ani at Fig. 2.

O. Sphincter Vesicæ at Fig. 1.

M.M. M. Detrusor Urinæ at Fig. 1.

Diaphrag.

The Explanation of the Thirteenth Table.

C D. Cranifers, a Fee L.

S. S. Enclaid Peris, a Fee L.

Stern the familial bert a Fig. 1.

S. S. Sheir the familial bert at Fig. 1.

C. C. Modfall Clinoridis at Fig. 4. and at D. D. E.R.

A. R. Lamone Ani at Fig. 4. and at D. D. E.R.

O. Shindler Vellers at Fig. 1.

M.M. M. D. color Union at Fig. 1.

M.M. M. D. color Union at Fig. 1.

Disphase

Diaphragma.

His Muscle hath its Origination from the first Vertebre This different of the Loins, obtaining a circular Figure, and much sailbe the different in structure of the Muscles, answering in mag-from the nitude the transverse bottom of the Thorax, and is inserted into the forepart of the Sternon, and Termination of the True Ribs, and to the twelfth hib, as also to the extremities of the bastard Ribs, on the Sides.

It is in its middle (for its greater strength) Membranous and Nervous, to which middle the Fleshy Fibres do run as to their Center: Wounds happening in this Center, are reputed Mortal, because hence suddainly doth follow a present decay of Respiration, and very troublesome Convulsions, whereas Wounds happening in the Fleshy parts hereof, are void of this danger allowed by Galen, and this is confirmed by various examples.

The Diaphragma borrows its Origine from the Vertebres of the Back near the Loins, and round the Termination of the Ribs and Ensiformis Cartilago, and hath its Tendon in its Center or middle of it: and by contracting it self, moveth downward, bringing it self from an Arch toward a Plain, and so enlargeth the Cavity of the Thorax to give way to the blown up Lungs, inspired with numerous Particles of Air.

Next to this should I have Discoursed of the Heart, that Royal Muscle of the Body, by the Reciprocal motion of whose Fibres all that Blood is let both into it and out of it, by which our Human Pile is kept up and preserved: but Dossor Lower having already so fully written hereof, and also given such exact Figures of all its variety of Fibres, I recommend the Reader wholly to his Book De Corde, my task more properly relating to those of the Artus.

This you have at Tab. 16. Fig. 2.

Latissimus

Here

Here let the Body be turned upon its Face.

Cucullaris five Trapezius.

This mev. s the Scapula variously, His is the first, the which with its Companion doth very aprly express a Monks Hood: it takes its Origination Fleshy from the lower part of the Os Occipitis, and from the Spines of the Vertebres of the Neck, and the eight upper Spines of the Thorax, and springeth Membranous, broad, and running externally towards the Scapula, grows nativer, and is inserted into the whole Spine of the Scapula, and near half his Basis, as also to part of the Clavicle, by a broad, Nectous, and Fleshy Origination, and by the variety of Fibres allowed it, it is variously moved, as upwards, downwards, directly, obliquely, according as its Fibres are variously contracted; Divide this Muscle from its partner at their Originations from the Spines of the Vertebres, and being so followed and cleared from the Os Occipitis, the Muscles underneath this will much better appear.

And I conceive another Use of this Muscle may be to fasten the Scapula to the Vertebres of the Neck and Thorax; but the chief Use of it is to move the Scapula obliquely upwards.

This you have at A. A. A. B. Tab. 14. B. Shews its Tendinous Infertion into the Scapula, a.b.c. Its three forts of Fibres.

Latissimus

Latissimus Dorsi, sive Aniscalptor.

His Abducent Muscle, or Latissimus is so called from its The brings magnitude, the which with its Companion doth near backmenters cover the Back, it arifeth with a large Membranous the Fareday beginning from the Spines of the Vertebres of the Iborax, between the Os Sacrum, and the fixth Vertebre of the Thorax, as also from the upper part of the Os Ileon: his Origination here is chiefly Membranous, but running higher, fo foon as it attains the curvation of the Ribs, he grows Fleshy, and in his ascension becoming narrower, is carried over the lower Angle of the Scapula, and by a strong and short, but broad Tendon, he is implanted below the upper head of Os Humeri, between the Pectoralis and Rotundus, great care must be had, lest in the rai-fing this Muscle from his Origination, you do take up the Origination of the subjacent Muscle Serratus Major Posticus, and if you be not very careful in your diffection, you will borrow from Quadratus Lumbi, as you raise him from the Ileon, to which he firmly adheres; as also near the Scapula, Serratus Major Anticus will arise with him, without mature and deliberate observation hereof: this brings the Arm backwards, sometimes upwards; its diverfity of Fibres contracting themselves doth occasion these variety of Motions.

This is shewn at Tab. 13. at C.C. D. C.C. Shews its Origination, D. Shews where its Tendon arifeth, N. N. O. O. Shews the

fame laid bare at Tab. 15.

Rhom4

Levaror

Latistimus sebiodmod Anifealptor.

This Irings the Scapula hardwards. His is so called from Rhombus, the which is by Mathematicians said to be a foursquare Figure, not consisting of equal Angles, but of Lines: it ariseth broad and Fleshy immediately under the Cucullaris, from the Spinal processes of the three lower Vertebres of the Neck, and three upper Vertebres of the Thorax, whence running with thin Fibres, it descends down to the Scapula, to whose whole Basis externally, it adheres broad and Fleshy; in the raising of this, take care that you do not raise the Tendon of Serratus Posticus Superior, who lies just under him. And also because it taketh its Origine from the three lower Vertebres of the Neck, and the three upper of the Thorax, and is inserted into the Basis of the Scapula, whereupon it doth assist the Cucullaris, and bind the Scapula backward to the lower part of the Neck and upper part of the Thorax.

This Muscle holds the Scapula to the Back: hence Consumptive people have prominent Scapula's from the weakness of this Muscle; from this also in some Persons may an account be

given of the Gibbolity of this part.

This you have at Tab. 15. at B. B. in fitu, c.c.c.c. Shews its Origination, G. Shews the same laid bare at Tab. 24. h. b. i. Shews its beginning and ending.

Rhoma

7

Levator

The Explanation of the Lourreenth Table.

A de la cucultaria

A a se securame con al most faul I me

Con To a con Protection of the I me

Con To a controller.

I cvator

The Explanation of the Fourteenth Table.

A. A. Cucullaris.

B. B. Shews one part thereof laid bare.
C. C. Levator Patientia.
D. D. Rheinboides.
G. G. G. G. Latiffimus Dorfu

Levator





Levator Patientiæ.

His is also called Scapulan Attollens: This ariseth from the brings the second, third, fourth, and fifth Transverse Proinformation cesses of the Neck, and hath as many Originations with their Interstitia: these joyning do descend, and adjoyn to the whole upper side of the Rhomboides, until it is inserted by a broad, Fleshy Tendon to the highest, as also to the lower Angle of the Scapula, and doth draw the same upwards and the forwards, and is raised with the Arm.

This Muscle had its name from Spigelius: it bearing many heavy burdens, for the Scapula by the help hereof with the Arm is lifted up forwards, and hence takes the better name of Patientie.

This you have at Tab. 15. at A. laid bare, 1.2.3.4. Shews its four beginnings.

This you have at I als. 15. at E.

Rorundus

Superfca

Rotundus Major.

This draws the Arm down backwards. His is also called Humerum Depriment, its also called Rotundus, it being Sphærical; it ariseth with a Fleshy beginning from the lower Angle of the Scapula, and adheres Fleshy from his lower Rib, and having marched half way, deserts, and being indifferently dilated somewhat upwards, is inserted by a short, broad, and strong Tendon into that part of the Os Humeri where Pectoralis hath his insertion, and doth draw the Arm down backwards. It partly lies under the Arm-pit.

Its generally observed by all Masters of Anatomy, that all Depressers are much less then the Attollers in Human Body. Thus the Temporalis is the strongest Attollent of the lower Mandible, and Biventer is the most infirm Depriment, and the reason is, there is required much more for the lifting up of a weight, than for his bringing down.

This you have at Tab. 15. at E.

Roundus

Superfca4

Superscapularis Superior sive Supraspinatus.

His is Fleshy and long, and presset the whole Scapula This brings is about east upwards: it ariseth from the whole Basis of the Sca-mass.

pula Fleshy above the Spine, filling the whole Cavity between the Spine and the upper Rib of the Scapula, and going back to the neck of it, passeth under the second Ligament of the Humerus, as the Biceps doth, and is inserted by a broad and strong Tendon obliquely into the neck of the Os Humeri, and doth bring the Arm about with the former; others do affirm that it moves the Arm upwards with the Deltois. And I apprehend that a great Use of this Muscle is to help the Coracobrachialis and Infraspinatus, in listing up the Arm.

This you have at Tab. 15. at F. L. Shews the same laid bare.

Nonus

A a Supera

Superscapularis Inferior sive Infraspinatus.

This brings the Arm about outwards. His covereth the whole Exteriour part of the Scapula, which under the Spine, arising from almost the whole Basis of the lower part of the Scapula, and possessing the major part of that Cavity, Fleshy, running backward, narrows himself according to the form of the part, and by a broad Tendon is inserted into the Ligament of the Os Humeri, as some will have it; But I humbly conceive, That this Muscle according to its situation, doth more probably affish the Deltoeides and Coracobrachialis, lifting the Os Humeri upward.

This you have at Tab. 15. at G. M. Shews the same laid bare.

Nonus

Supera

BA

Nonus Humeri Placentini sive Rot tundus Minor.

Allopius calls this Transversalis Brevior from its site, and rou below the months from its form: It ariseth sharp and Fleshy from of Rotandes the lowest Angle of the Scapula, at his Basis, and growing more Fleshy to its Venter, decreases again, and terminates himself by a sharp Tendon into the neck of Os Humeri; This by some Anatomists is held as a part of that Muscle called Rotundus Major.

This Muscle depresseth the Os Humeri, and is an Antagonist

to the Deltoeides and Coracobrachialis.

This you have at Tab. 17. at Fig. 2. at A. B. C. A. Shewing its Fleshy beginning, B. Its Cavity or Fissure, C. Its thin and Nervous Tendon; This you have also at Fig. 1. Tab. id. at P. P. Q. Q. Q. Shews the Nerve that passes through this into other Muscles.

Subscapularis:

Subscapularis. I I was A

This brings the ArminHis is feated in the Cavity of the Scapula, and possesseth the whole Cavity thereof: it ariseth Fleshy from the whole inward Basis of the Scapula, and so running forwards, according to the dimensions of the Bone, narrowing himself, and by a broad Tendon, is inserted into the third Li-

gament of the Os Humeri.

These last Muscles do work the whole Arm about, from whence they have also their names, but the Subscapularis brings it inwards, the Superscapularis Inserior outwards, and also upwards, but these together do moderately elevate it; their Use may be most commodiously shewn, if the whole Arm be put into a middle Figure, and afterwards, neither abduced from the Breast to the Arm, neither the middle Figure changed with the Cubite of the Arm, the Cubitus being drawn outwards, and again brought inwards.

This you have at Tab. 11. at C. C.





The Explanation of the Fifteenth Table.

A Shews Levator Patientia.

B. B. Rhomboides.

C.C.C. C. Shows the Spines of the Vertebres, from whence they do take their Origination.

E. Rotundus.

F. Superfcapularis Superior.

L. Shews it laid bare.

G. Superscapularis Inferior.

M. Shews it laid bare.

a. Octavus Humeri Placentini.

v. Shews it laid bare.

The Explanation of the Fifteenth Table.

Show Levator Park athe.

B. B. Rhomboides

f. C. C. C. Shears the Spines of the Vertebres, from whence they do take their Origination.

L. Rotundur.

* Supericap to a Superior.

**L. Showen Lift bree.

If the whole Arm with the Scapula be taken off, the diffection of these following Muscles will with more ease be performed.

Deltois.

His is accounted the second Muscle of the Arm, called The Uffer of the Arm, by some Triangularis Humeralis, arising generally Nervous; First, forward from the middle of the Clavicle where it is broadest, next the Os Humeri; Secondly, from the top of the Scapula, where it is joyned to the Clavicle; Thirdly, from the whole Spine of the Scapula, these Originations presently growing Fleshy, descending and narrowing become a strong Tendon, externally Fleshy, internally Nervous, which is transversely planted under the neck of Os Humeri; this lifts up the Arm sometimes directly, sometimes forwards, or backwards according to its Series of Fibres, these being contracted: In the middle part hereof unexperienced Chirurgeons Casties. do make Fontanels, but very inconsiderately, because this Muscle being contracted, the Orifice of the Fontanel therein made is also therewith contracted, sending thereby the Pea forth with force and pain, and the Issue doth heal up presently; which Errour may with ease be shunned, if they made them in the distance between this and the Biceps, four or five Fingers breadth from the joynt of the Arm, in which place, when the Arm is bent, there is presently perceived this Interstitium.

This you have at F. F. Tab. 16. H. H. I. Shews the fame

laid bare.

ВЬ

Biceps.

Offavus

To molar of clara Biceps. a mole stoler of I

This Mefele beeds the Culitie.

Cantion.

Wic.

His Muscle ariseth with a double beginning, arising first externally from the top of the Acetabulum Scapulae by one Substance, and so runs under the Ligament of the Juncture over the head of the Os Fumeri, and through a Channel insculpt for it, where it is bound in by a proper I igament; secondly, arising broad, Fleshy, and Nervons from the Coraceidal Apophysis of the Scapula, and is carried over the internal head of the Os Humeri, and so descending meets with the other, and makes one strong and Fleshy Muscle, and narrowing himself becomes a strong, thick, large, and Nervous Tendon, and is inserted into an Oblong Prominence under the upper head of the Radius.

Its this Tendon which generally doth lie under the middle Vein of the Arm, which cautioneth all young Chirurgeons to beware of it in Vene Sectione, for it produceth great danger to the Patient: for Wounds received here are of very great Confequence, because both Veins, Nerves, and Arteries are very relative to it and bordering upon it, the which, of what direful consequence it hath been many Masters of our Art in this

He nourable City can both evince and certifie.

This Breeps bendeth and lifteth up the Cubite.

This you have at Tab. 16. at L. M. And at Tab. 17. at G. H. I. you have the fame, G. Shewing its first head, H. Another head of this Muscle, I. Shewing its Fleshy belly, K. Its thick and

This you have at F.F. Tak. to. H. H. I. Shews the fame

Nervous Tendon.

Biceps

13 b

Octavus

The Explanation of the Sixteenth Table.

A Scrutter Major Amions.

E. Pertoculis. c. b. d. Sheur is researching of Filmer.

F. F. F. F. Deltois. H. H. L. Sheur is land here.

L. M. Bicceps in lieus.

K. Sheur the faut forceslast laid here.

Y. Sheur the faut forceslast laid here.

Octavus

The Explanation of the Sixteenth Table.

Serratus Major Anticus.

a. a. a. Shews its Originations.

B. Pectoralis. c. b. d. Shews its diversity of Fibres.

F. F. F. F. Deltois. H. H. I. Shews it laid bare.

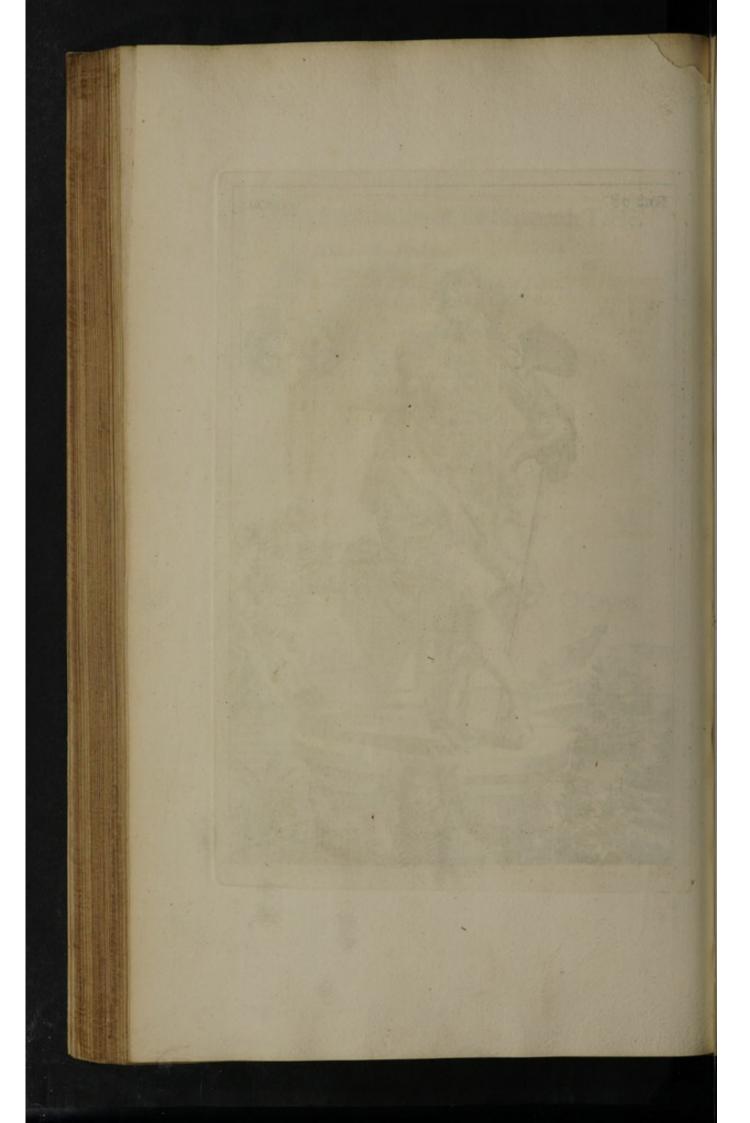
L. M. Biceps in situ.

K. Shews the same somewhat laid bare.

X. Shews Brachieus in situ.

Octavus





Octavus Humeri Placentini, sive Pera foratus seu Coracobrachialis.

His ariseth by a short and Nervous Origination from the This draws is Armay Coracoidal process of the Scapula, near the Origination is Armay of the Deltois, and so descending, becomes somewhat long, large, and Fleshy, and is implanted by a strong Tendon into the middle of the Os Humeri, and doth adduce it with the Pessoralis forwards to the Breast, as some would have it; the Venter hereof is perforated, and through the body of this Muscle doth pass a Nerve, which serves the rest of the Muscles; Riolan. reckoned this Muscle to be a part of the Biceps, or of the first Muscle of the Cubite, which doth contradict Autopsy.

And I do humbly conceive that this Muscle in truth doth affift the Deltoides in bending the Arm, and lifting up the Os

This you have at Tab. 15. at a. in its place, b. Shewing the same laid bare.

Gemellus

Brachiæus

Brachiæus Internus.

This bends the Cubice forwards,

His Muscle lodgeth under Biceps, but is more short and Fleshy: it ariseth about the middle of the Os Humeri, near the insertion of the Deltois, and Pectoralis double, broad, and Fleshy: partly by the Exteriour, partly by the inner side of the said Bone, but presently joyning, and firmly adhering to the Bone, in its descent becoming large, till at last it terminates broad and Fleshy in the Ligament of the Joynt, as well as in the Appendices of the Cubite and Radius; This with the Biceps doth very strongly contract the Cubite, listing it up, being an affistant to the Biceps

This you have at M. N. O. at Tab. 17. M. Shewing its beginning, N. Its Venter or Belly, O. Its large and Fleshy Tendon.

This you have at Tilk 15, at a in its place, & Shewing the

Gemellus

Brachizeus

Gemellus Major, Brachiæus Externus, aut Longus.

His Muscle ariseth doubly broad and strong, partly the carried she carried the neck of it: and growing Fleshy descends, and joyns himself to the inner side of the Os Humeri, where he meets with his other Fleshy Origination, and so making one, is carried down to the inner side of the Process of the Olecranum, and is there implanted; The Use of this Muscle is generally reputed to extend the Cubite, and is an Antagonist Muscle to the Biceps Internus, which is a Flexor and lister up of the Cubite: and the Biceps Externus doth extend it, and put it backward and depress it.

This and its following partner you have described at R. R. S. S. Tab. 17. R. R. Shewing its beginnings, S. S. Its double Venter.

Anconæus

Cc Exten

Extensor Cubiti Breuis, vel Brachiæus Internus.

doth arise backwards Nervous from the neck of the middle of Os Humeri, and doth inseparably mix himself with the former, and at length is inserted partly Fleshy, partly Nervous into the outward side of the Olecramum, about the place we lean on. These two Muscles as they have right Fibres given them from their beginning to their ends, they do extend the Cubite directly, as the two former did contract it.

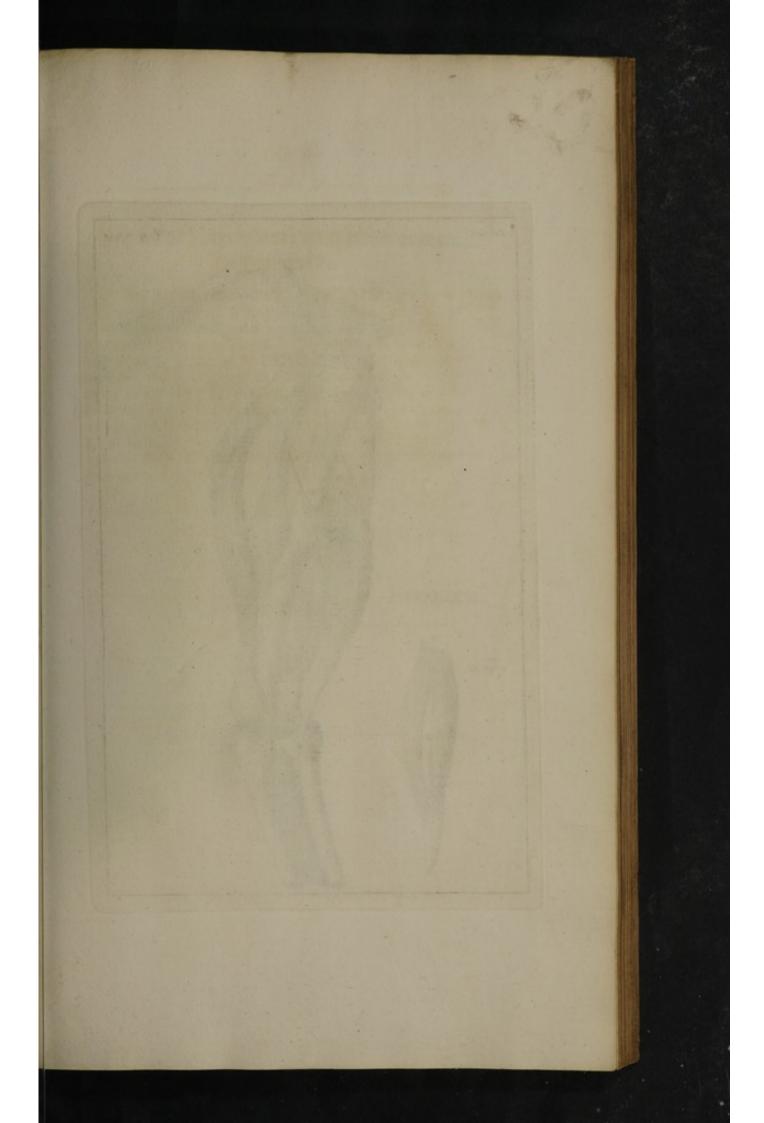
Vestingius says this Muscle arises from the middle of the Or Humeri, and it is accordingly represented so in his Cuts.

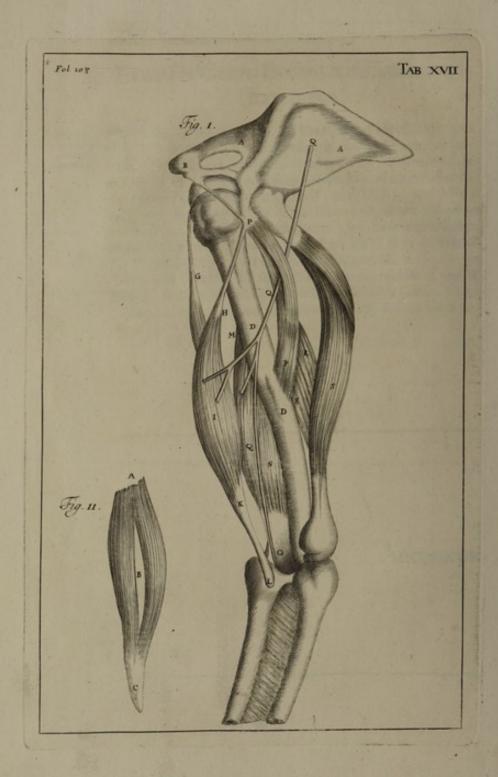
This and its partner you have shewn at R. R. S. S. at Tab. 17.

Tak 17. R. K. Shewing to beginnings, S. S. Ite double Venter.

Anconæus.

c Extens





The Explanation of the Seventeenth Table.

N. O. Brachieus Internus.
R. R. S. S. Gemellus Major.
Gemellus Minor you have also in the same Table.

Anconæus.

The Explanation of the Seventeenth Table.

IVI R. C. Brachicus Investig.

Gemellos Pelatron alle in the Lores Tolke.

Апсолем

Anconæus.

His being but a small bodied Muscle, doth arise from roudes the lower and back part of the Os Humers, being also extend planted between the Cubitus and the Radius, and is inserted with a Nervous Tendon (sometimes obliquely) into the lateral part of the Ulna, a Thumbs length below the Olecranum or Elbow; As those two last do help forward the Cubites extention, this doth help the former, &c.

This is not to be shewn or represented by Figure.

exactioner to apprehension, and forth endure the Pains of the Hand with an Exquiller Senfe, and the Skin becoming immorable by the cripe, it occasioneth a more fleady keeping of any thing therein contained.

The learned Fallanian bath observed this Musicle fornetimes to be double in either Area, and wishing flow the fame place, that oes deep end on a broad Areadon, then a already present of the Capter, in the Transverse Linguistics of the Capter.

The you have or Takk vs. Fig. 1, at D. E. Shews whereit pulleth into a Tendon, the Expension of the fame fraction. Tendon, G. G. G. G. Its Terminations; As the fame Leaver you have the fame copielled at the front front Figure Tak fame Leaver you have the fame copielled at the front front Figure Tak captelled.

Palmaris.

Caro

Palmaris.

This moves the Palm of the Hand. His arifeth round and Nervous, from the inward Extuberance of Os Humeri, and presently becoming Fleshy and narrow, about the middle of the Cubite is carried somewhat obliquely, and is turned into a long and round Tendon, and passing over the inward Ligament of the Radius comes to the Palm and there doth expand it self into a most broad Tendon, and is laterally inserted into the first Joynts of the Fingers, and is so closely fixed to the Cubis, that it is not thence to be separated without difficulty; The contraction of this Cutis occasioneth apprehension, and doth endue the Palm of the Hand with an Exquisite Sense, and the Skin becoming immovable by the gripe, it occasioneth a more steady keeping of any thing therein contained

The learned Fallopius hath observed this Muscle sometimes to be double in either Arm, and arising from the same place, that one doth end in a broad Tendon, such as already is described, the other, in the Transverse Ligament of the Carpus.

This you have at Tab. 18. Fig. 1. at D. E. Shews where it passeth into a Tendon, b. Shews the expansion of the same Tendon, G. G. G. G. Its Terminations; At the same Letter you have the same expressed at the second Figure Tab. ejust.

Palmaris.

Caro Musculosa Quadrata.

Ear adjacent to the former, is planted a Fleshy Substance This deals arising from the Membrana Carnosa under Mons Luna, former, where the eighth Bone of the Carpus is placed, and then marcheth under Palmaris, to the middle of the Palm, and is inserted into the outside of that Tendon that separates the little Finger from the rest; this makes the Hand hollow, and the Use hereof is perceived and declared in large contractions of the Palm, drawing the Mons Luna to the middle of the Hand: this is when we would make it appear very hollow.

This you have at P. P. at Fig. 2. Tab. 18.

Dd Flexor

Flexor Carpi Interior five Ulnaris.

This bends the Wrift. His arifeth sharp, Fleshy and Nervous from the inner Apophysis of the Os Humeri, and so running Fleshy the whole length of the Cubite, to which it adheres, hath its Insertion at the Wrist into its fourth Bone, partly Nervous, partly Fleshy, this passeth not under the Transverse Ligament, but is only wrapt up with the common Membrane of all the Muscles; Its Use is thus, such as are the Insectors do possess the whole part, and do arise from the inward Protuberance of the Arm: those that do extend, do arise from the back part and outward Extuberance.

This you have at Tab. 18. at Fig. 1. at R. R. f. Shewing its Fleshy and Nervous beginning, g. Its end partly Fleshy, partly Nervous; This also you have at the second Figure at the same Table, at the same Letter: K. K. Shews the same in situ at Tab. 19. at Fig. 1. b. Shewing its beginning, c. d. Its end as

formerly.

Flexor Carpi Exterior five Radialis.

His ariseth as the former from the same Extuberance, This don't and so running somewhat transversly near the outer mer is in part of the Primi Digitorum Flexores, is fixed to Controllies. the Radius, and a little before it arrives at the Carpus doth become a round Tendon, which cleaving to the Transverse Ligament, runneth under him, and enlarging himself, is inserted into that Os Metacarpi which stands before the little Finger; these two do contract the Hand.

These two working together, the Carpus, and the Hand with it is also contracted; one only working, its sometimes moved into that side somewhat obliquely which is contracted.

This you have at Tab. 18. Fig. 1. & 2. at S. S. in fitu, L. Shewing its beginning, M. Its slender and Nervous Termination, L. L. Shews the same at Tab. 19. in situ, e. Shews there its Fleshy beginning, f. The Tendon of this Muscle, G. Shews the same laid bare at Tab. 20. Fig. 1.

Sheres the fame at Tab. 19. Fig. 1. C.C.C. Shewe it laid bare

Flexor

Flexor Secundi Internodii Perforatus.

This contralls the fecond Joynt of the Fingers.

He Fingers, which are the great Messengers of Writing our Minds, and which are implanted in us for performing of many strong and vigorous Motions, do act these by the benefit of Muscles, by which they are both contracted, extended, and brought to a lateral Use; We begin with the Contractors, these being seated in the Cubite, and those generally do gain the name of Contractors which do bring the four Fingers into a Curvation; Of these Muscles of the Fingers, this is said to be the first, and taketh its name from its

Ule, contracting the second Bone of the Fingers.

It ariseth from the inward Protuberance of Os Humeri, under the former, and so growing broad and Fleshy about the middle of the Cubitus and Radius, somewhat adhereing thereto marcheth forwards, and becomes wholly round and Fleshy near the Wrist, where it is divided into four Fleshy Portions, from which proceeds so many Tendons, all which are involved in one proper Mucaginous and thin Coat, and so running internally under the Ligament, gets through the Palm, and then doth distribute to the first and second Joynts of the four Fingers, as many Tendons which are perforated a little before their infertion for the transmission of the Tendons of Tertii Internodii Flexor This Muscle by some is called Sublimis & Perforatus.

This you have at Q. Q. Tab. 18. at both Figures in situ, d. Shews its Origination, e.e. Its Bivaricated Tendon, D. D. D. D. Shews the same at Tab. 19. Fig. 1. C.C.C.C. Shews it laid bare

at Fig. 2.

Flexor

The Explanation of the Eighteenth

Country of Charles and Control of Control of

St. Place Carpi Paritie, L'Mc Men's Real symptomage

The Explanation of the Eighteenth Table.

Palmaris at Fig. 1. E. Shews where it passeth into a Tendon. F. Declares where it expands it self into a broad Tendon. G. G. G. Shews the Termination of these Tendons.

O.O. O.O. Flectentes Pollicem.

P. Caro Musculosa Quadrata.

O. Q. Flexor Secundi Internodii Digitorum.

R. Flexor Carpi Interior, f. g. Shews its Origination and Ter-

S. S. Flexor Carpi Exterior, L. M. Shews its Origination and Termination

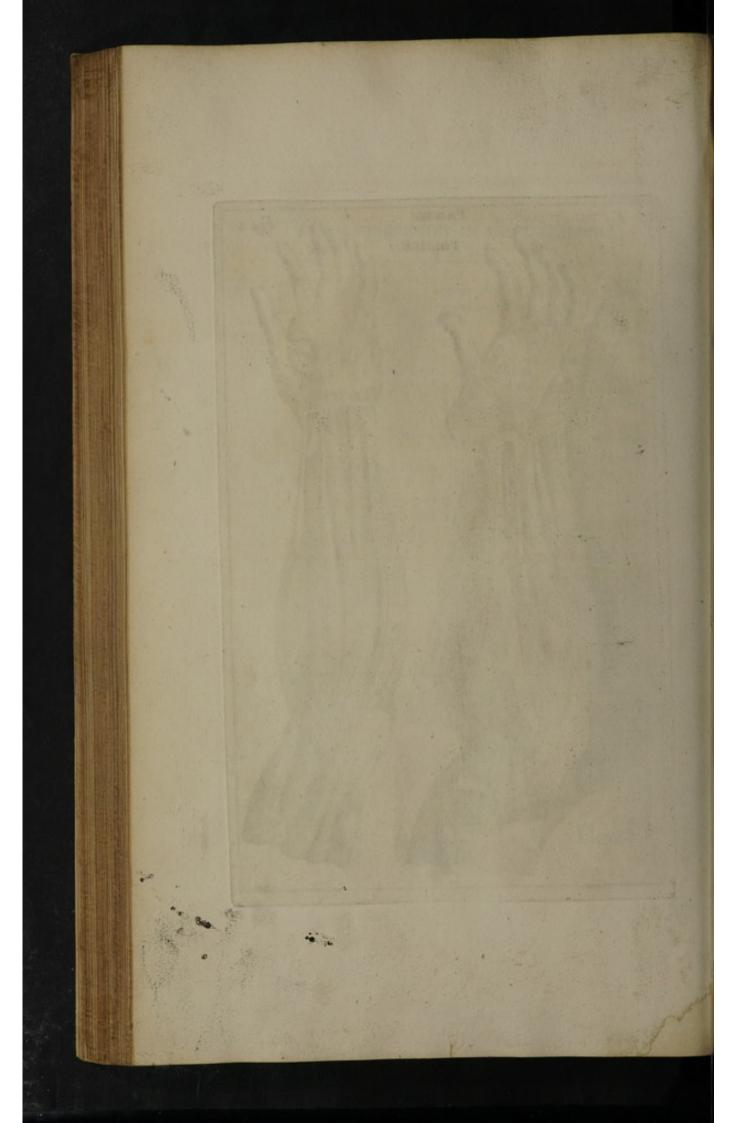
V.V. Extensor Carpi Exterior.

X. X. Pronator Radii Teres.

Y. Y. Tertium Pollicis Internodii Flectens.

Z. Z. Pars quædam Flexoris Tertii Internodii Digitorum.





Flexor Tertii Internodii.

His doth contract the third Joynt, and from thence doth Tolicontracts its name: by some it is called Profundus, as also to the first of the Fire Perforans; it ariseth Membranous some part of him, of the Fire Perforans; it ariseth Membranous some part of him, of the Fire Perforans; it ariseth Membranous some part of him, of the Fire Perforance as the former, the rest from the Root of the forward process of the Olecranum, becoming afterwards exactly round and Fleshy, running under the former, and adhering inwards to the Cubitans, on the outward to the Primi pollicis Flexor, and descending about the middle of the Cubite, they divide, and make their progress through the Fissures of the others, and are inserted into the third Joynts of the Fingers: and that a right insection may be made by these Muscles, and that the contracted Tendons may not rise up, and so list up the Cutis in the inward part of the hand according to their length, a Channel being made out of the hard Membranes, they are inwardly included with a fatty and Oleaginous Humour in which they have their free course of Motion.

These Muscles are allowed to contract the third Joynts of

the Fingers.

This you have at Tab. 18. at Z. Fig. 1. & 2. This you have exactly at Tab. 19. Fig. 2. at D. D. a. a. a. a. Shewing its four Tendons.

Pronacor

Ee Flexor

Flexor Secundi Internodii Pollicis.

This bends the fecond found from

Vie.

His Flexor is not seated in the Hand, as the former but in the Fleshy part of the Cubite: it ariseth round and Fleshy from the Os Cubiti, and so marching along by the Radius to which it adheres, as also to the Membrane that joyns the Cubitus and Radius, it comes to the Wrist, where it becomes a round Nervous Tendon, having also a proper thin Mucaginous Membrane, and so marching forwards, is inserted into the second joynt of the Thumb by a somewhat broad Tendon.

This contracts the second Joynt of the Thumb, to which it

This you have at Y. Y. Tab. 18. Fig. 1. This also you have at P. P. Fi. 1. Tab. 19. This you have laid bare at Tab. 20. at M. M.

in which they have their free courle of Niorion

the Fingers.

This you have at Tab. 18. at Z. Fig. 1. &- a. This you have exactly at Tab. 19. Fig. 2. at D. D. at at at a Shewing its four

Pronator

E.e. Flexor

Pronator Radii Teres.

He Radins is wrought with two Motions, the one retitivings per accidens, the other per fe, and hence hath it given the Walf domain it two kinds of Muscles: the first from their Uses are called Pronatores, the other Supinatores. The second of the Pronators is called Teres, so called from its form, it ariseth from the Root of the inner prominence of the Os Humeri, and from the inside of the Os Cubiti, and is there joyned by a large Fleshy Origination to the Radius, and thence descending obliquely downwards by his inner side a little above the middle, is implanted into him Fleshy, from whence a Nervous Head doth proceed, which is inserted into the External Head of the Radius.

This Muscle is held to bring the Radius downwards.

This you have at X. in both Figures Tab. 18. n. Shewing its Origination; This also you have at Tab. 19. Fi . 1. At 0 G. Fig. 2. ejusd. Tab. you have the same at K. d. Shewing its Origination, e. Its Termination, C.C. Shews the same at Tab. 20. Fig. 1. a. Demonstrating its beginning, b. Its Termination.

Flexores

Pronator

Pronator Quadratus sive Inferior.

His is allowed the first of the Pronators, it is wholly Fleshy, and ariseth from the lower and inner part of the Cubite near the Radius, running over the Ligament that joyns the Cubite and the Radius transversly, and so doth implant himself Fleshy into the inward part of the Radius, with a broad beginning, much representing a Mathematical Square, having four equal sides.

These two Muscles, while they are contracted towards their Originations, do move the Radius forwards, and so doth connect the Hand which the lower part of the Radius by the benefit

This you have at Tab. 19. Fig. 1 at I. K. Shews this, Tab. 20. Fig. 1. e.e. Shews its beginning, f. f. Its Termination

Origination; This also you have at Tab. 19. Ft. i. At O.C. 18.20 spied. Tab. you have the fame at X, al Shewing its Origination; c. Its Termination, C.C. Shewsthe fame at Tab. 20. Ftg. 1 a. De-

monthating its beginning, A les Termination.

Flexores

Flexores Primi Internodii five Lumbricales.

Hese are small and slender Muscles, arising round, the fingers long, and slender, from those Membranes which do the Fingers enwrap the Tendons of Tertii Internodii Flexores, and so passing on Fleshy, are inserted by a round, Nervous Tendon into the first of the Joynts of the Fingers, and are best shewn by raising one from his Origination, and leaving him in his Insertion, and the other é contrario, these bends the Fingers tope.

This you have at F. F. F. F. Tab 19. Fig. 1. G. G. G. G. Shews their four Tendons, F. F. F. F. Shews the same at the same Tab. Fig. 2. b.b.b b. Shewing their Originations, F. F. F. F. Shews the same in its place, Fig. 21. Tab. 21. f. f. f. f. The beginning of these Muscles, g.g.g.g. Shews their Tendons.

Ff

Secundus.

Flexor Primus, Primi Internodii Pollicis.

This bends the Thunk. He Thumb is bent or contracted in its Joynts, and these after several ways, and hence have they their names severally bestowed upon them, some of these being Contractors of the first, others of the second.

This first ariseth Fleshy from the upper seat of the Annulary Ligament which is in the Carpus, near the Thumb, and ascending, doth encompass the first and second Joynts of the Thumb, and is inserted into the head of the first Joynt Fleshy.

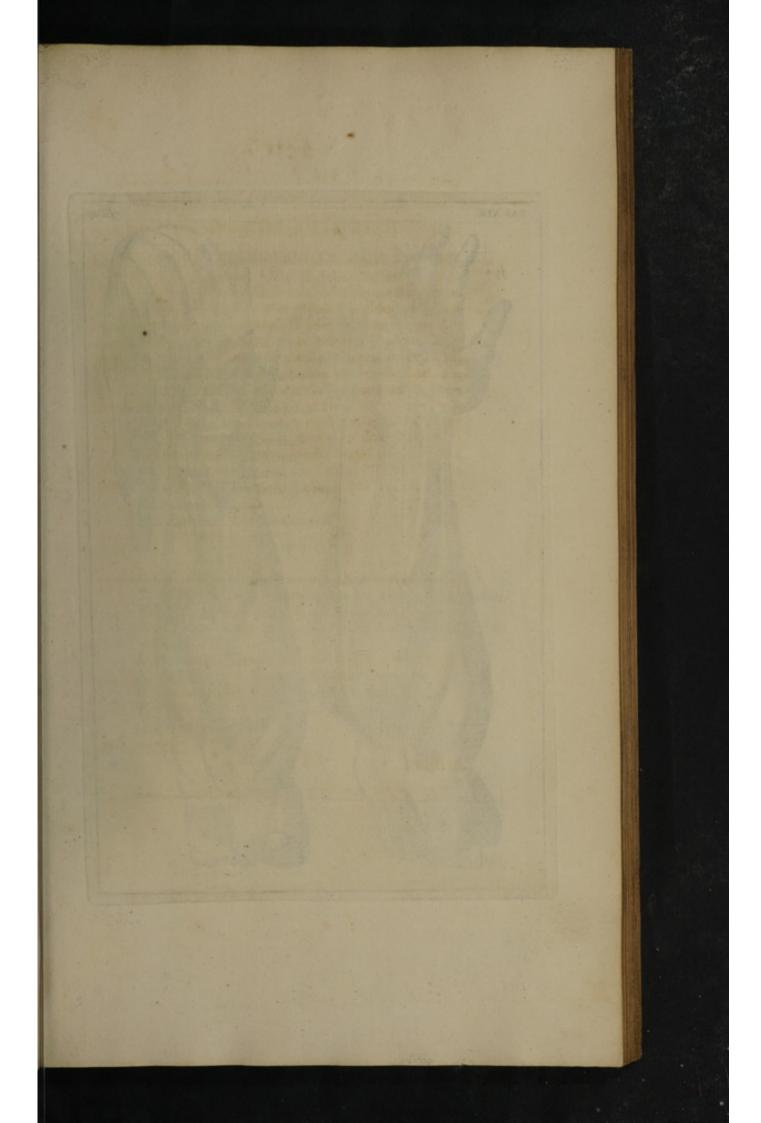
This you have at Tab. 19. Fig. 1. at P. P. This you have also at A. B. Tab. 2! Fig. 1. This you have also at the second Fig. ejust Tab. at B.

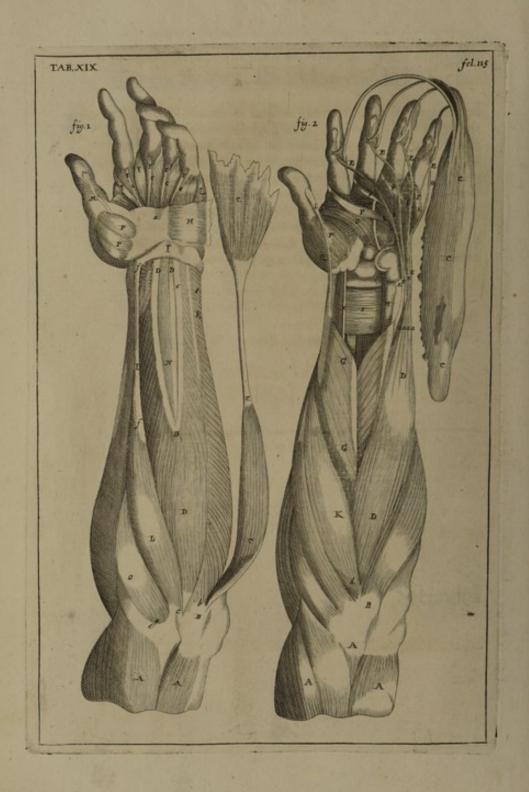
ginning of thele Moleles, g. gor. c. Sheve their Tendom.

Secundus.

Flexor

37





The Explanation of the Nineteenth Table.

FIG. I.

C. Palmaris laid bare. D.D.D. D. Flexor Secundi Internodii Digitorum. E.E. E. E. Shews its four Tendons. F. F. F. Lumbricales. G. G. G. G. Shews thefe four Tendons. H. Caro Musculosa Quadrata. K. K. Flexor Carpi Interior. L. L. Elexor Carpi Exterior. O. G. Pronator Radii Teres. P. P. Pollice n Flectentes. Q Minimum Digitum Abducens. R. Pollicem Abducens. S. S. Carpum Extendens Exterior.

FIG. II.

C. C. C. Flexor Secundi Internodii Digitorum laid bare. D. D. Flexor Tertii Internodii. a. a. a. a. Shews its four Tendons. F. F. F. F. Lumbricales, b. b. b. b. b. Shews their Originations. G. G. Flexor Tertii Internodii Pollicis laid bare. c. Shews its Tendon. I. Quadratus in fitu. K. Secundus Radii Teres. d. Shews its Origination. O. Primus Secundi Pollicis Articuli Flexor. P. Flexor Primus Primi Pollicis Internodii. Q. Pollicem Abducens.

The Explanation of the Nineteenth

and but are the

A. D. H. C. Fleve, Secondil Department, E. S. Shine w. J. S. Sandan, E. S. Shine w. J. S. Lumbrinsley, G. G. G. G. Shine obel, Nucl. Phys. Rev. Co. S. Lumbrinsley, G. G. G. G. Shine obel, Nucl. Phys. Rev. Co. S. Shine obel, Nucl. Phys. Rev. B 1988, 198

A. A. Florot Capalmente.

L. Sevot Convikatedos

G. S. Toronisi R. dá Toros

A. College P. Contact Street

FIG. IL

Col. Please Scoundi Internadii Digitorum laid lanc.

D. D. Pester Terri Internadii, a. a. a. Sherreat fent Tindate.

E. P. E. Lumbricales, A. f. a. & Sherretheir Orlyteatreur.

G. S. etlester Terri Internadii Politica laid fare. c. Shene die.

L. Opalians in Sec. A. Shaw in Originative A. Shaw in Originative O. P. Same Security Police Artical, Flores.

W Pollices Abducens

Secundus

Secundi Internation Secundi Internation Primus.

His being smaller then the former, ariseth Fleshy, partly this by from the same Ligament, and partly from Os Carpi, into the next the Thumb, and running under the other, is implementation of the same Joynt from its Root, even to its middle: this is wholly lodged under the former, and is covered over with its breadth.

These two do bend the Joynt of the Thumb, and adduceth it to the Hand. Riolanus doth not acknowledge this as a Flexor, but rather doth think, that the Muscles arising from the Bones of the Carpus, and Metacarpus, to be either Adductors or Abductors.

This you have at Tab. 19. at M. M. Fig. 1.

Secundus.

Secundi

Secundi Internodii Pollicis, Flexor Primus.

This bends the second Forms of the Thumb. His Muscle ariseth broad, thin, and Fleshy, from that Os Metacarpi that receiveth the Fore-singer a little below his head, and running towards his Thumb grows somewhat triangular, and is inserted by a Membranous Tendon into the head of the second Joynt of the Thumb on the side next the Fore-singer.

This Muscle by most Anatomists is allowed to bend the second

Joynt of the Thumb.

This you have at 0.0.0.0. Fig. 1. 6-2. Tab. 18. C. Shews the same laid bare at Tab. 21. Fig. 2. This is also shewn in situ at Tab. 18. at i. Fig. both.

This you have at Tab. 1 gs on M. M. Fig. 1.

Secundus.

Secundi

Secundus.

His ariseth with a broad and Fleshy beginning, from This morte, as the forthe middle part of Os Metacarpi of the third Finger, mer.
running to the Thumb, and is inserted into the middle

of the second Joynt thereof, in its inward part.

This Muscle is said to be next to the former, and thus each do succeed one another in place and order; and as touching their proper Uses, you will meet them all summed up together in Quarto Musculorum Digitorum.

This you have at Tab. 18. at 0. 0. I.

Gg Tertius.

Tertius?

His follows the second, and is contiguous to it, this arifeth broad and Fleshy from the Os Metacarpi of the the third Finger, and is implanted into the same with the former.

This Muscle is also allowed to begin where the other ended: all these together do make up that Fleshy Mass which our Chiromancers make use of, which you have more fully in the next; they are contracted according to the Bone moving towards the other Fingers, and according to their variety of Operations they do express their diversity of Uses.

This you have at 0.3. in Tab. 18. at both Figures; This you have laid bare at D. D. Tab. 21. Fig. 2.

Tertius.

Quartus.

The Explanatic surrain OT wentieth Table.

His ariseth Fleshy from the Os Metacarpi of the Little Thin brings the Thumb Finger about the middle of it, and running under the tothe Linke the other, is inserted into the same Joynt as the former.

All these Muscles are Fleshy, of which, the two contracting the first Joynt, with that abducing the Thumb, do constitute that little Hillock of the Thumb so called by Chiromancers; but the third of the second Joynt maketh whatsoever is Fleshy between the Life-Line, and the aforesaid little Hill; these are contracted according as the rest of the Joynts of the Fingers, and they working together, do bring the Thumb to the side of the Little Finger, hereby working the Hand into a hollowness.

This Mulcle brings the Thumb up to the great or Fore-

Finger.

This Muscle running under the former is not to be shewn by Figure.

b. b. h. he throughled desified for Shows three Teadous belonging

M. Policis Addudos. L. M. Carpun Excendence

The

Minimi

The Explanation of the Twentieth Table.

FIG. L

C. Secundus Radii Terei. a. Shews its beginning, b. Its Termination.
D. D. Carpi Flexor & Extensor Internus laid bare. G. Externus Carpi Flexor laid bare.

K. Quadratus.

e. e. Shewing its beginning.
f. f. Its Termination.
M. M. Secundi Pollicis Internodii Flexores laid bare.

N. N. N. Interoffei.

P. Minimum digitum Abducens.

FIG. II.

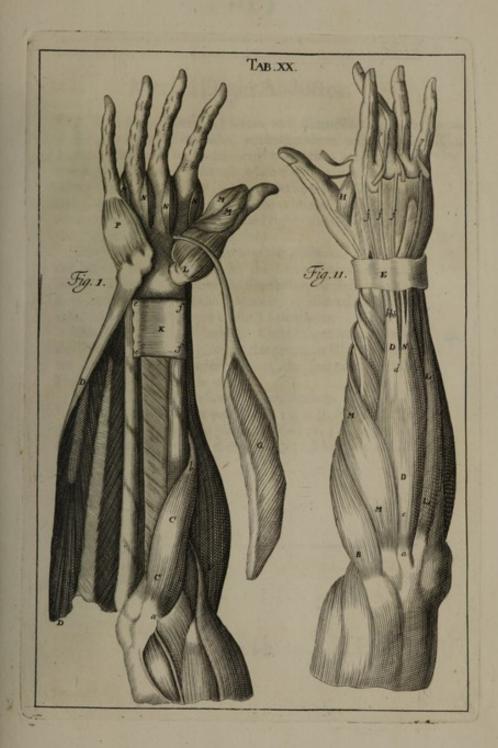
D. D. Primus digitorum Extenfor.

a. Shews its beginning.

b.b.b. Its threefold division, f.f. f. Shows three Tendons belonging

H. Pollicis Adductor.

L. M. Carpum Extendentes





Minimi Digiti Abductor.

He Fingers besides Flexion and Extension, and being The ablabrought to the fides, are both adduced and abduced; Latte Fisthen faid to be adduced when they are drawn to-8". wards the Thumb; abduced, when they are retracted from thence: and the Muscles which do perform these Motions are many, fome of which are accounted common, others proper; the common are commonly reckoned eight, the which from their fite are generally called Interoffei.

This Muscle called Minimum Digitum Abducens, is planted in the bottom of the Hand under the Little Finger, short and strong, arising Fleshy from the fourth Bone of the Carpus, and fo extending it felf by the Metacarpe, is inferted into the out-ward fide of the first Joynt of the Little Finger.

This Muscle doth abduce the Little Finger from the rest of the Fingers, and hath given it this particular Use, that whilst we do apprehend Sphærical Figures, the fame time, the Little Finger is abduced from the reft.

This is call'd also Hypothenar by some Authors.

This you have shewn you at Tab. 19. at Q. Fig. 1. At Tab. 20. you have at P. in this place, At Tab. 21. Fig. 1. you have it in fitu, And at Fig. 2. of the same Table it is laid bare at E.E.

Hh

Pollicis

Pollicis Abductor.

This abducerb is from the Limbe Finger.

Die.

He Thumb when moved laterally, is either abduced from the rest of the Fingers, or adduced; this Abducens ariseth Nervous near the Flexor Primi Internodii Pollicis, from the Interiour part of the Bone sustaining the Thumb; and then becoming Fleshy, implants it self by a Membranous Tendon into the first Joynt of the Thumb, and this abduceth it from the Little Finger.

This is call'd also Thenar according to the Greek Idiom which names the more protuberant parts of the Palm Storya dinting them a

precutiendo.

This you have at Tab 19. Fig. 2. at Q. & Fig. 1. at R. O. Shews the same laid bare at Fig. 2. Tab. 22. Æ. Shews the same in place, Tab. 21. Fig. 1.

the Fingers, and bath given it this pare olar Ute, that while

The you have thewn you at Tale 19, at Q. Fig. 1. At Tale

it in few, Andat Fig. 2. of the lame Table it is laid bare at F. F.

There call'd also Egoubene by Some Airhore.

Pollicis

Pollicis Adductor.

Pollex and the Index, and ariseth Fleshy from the out-to-the Index ward and back part of that Os Metacarpi that sustains the Fore Finger, and is inserted Fleshy and broad to the inside of the Thumb to the first Joynt, and doth adduce the Thumb to the Index.

This is call'd Antithenar by some Authors.

This you have at Tab. 21. Fig. 2. at H. And at O. Fig. 2. ejusd. Tab. At Tab. 20. you have it at Fig. 2. at H.

of the linger being on, you their extention it not quate abolifted a for their furniffs word if a together, do very extellen-

do extend the first Joyne, if either, it either doth abduce or

This you have so f G. H. H. M. as Tab a. Fig. 2. As This as

Interoffei.

Extensor

Interossei.

Thefe mork the Fingers interally. Hese Interosses are generally accounted eight, Fleshy and small, and long, arising from the Bones of the Metacarp, according to whose whole length they do march; when these do attain to the Roots of the Fingers, they become Tendons, and are laterally inserted from the first to the second Joynts; there are six of these planted in the three joynts of the Bones of the Metacarp, (ziz.) two in every one, so as one is carried to the inward, the other to the outward Finger, and another thereof belongs to the first Bone of the Metacarp which sustains the Index, and is incumbent in that part which respects the Thumb; the last adheres to the last Bone of the Metacarpus in the outward part of the Hand, or in its back thereof.

These Muscles by how much they do attain the rest, do also extend the second and third Bone, which is first observed by Galen 1 de usu part. 18. and this is the reason, why the Extensor of the Fingers being cut, yet their extension is not quite abolished: for these Interosses working together, do very excellently perform this Extension, and as they are implanted to the first Bone, if either of one of the Fingers be contracted, they do extend the first Joynt, if either, it either doth abduce or adduce it.

This you have at f. G. H. H. H. at Tab. 2. Fig. 2. At Tab. 2. you have the same at N. N. N. N. Fig. 1.

Interoffei.

Extensor

Externus, seu Bicornis.

His is accounted the first of the outward Muscles of the Thie extended Carpus, it ariseth from the External accuminated part of the Arm, with a broad and Nervous beginning, then growing more Fleshy, he runs by the Radius according to its length, and arriving half way, it marcheth into a strong Tendon, and is presently inserted with a double Tendon into the first and second Bone of the Metacarpus; and hence by reason of its double Insertion and Origination, is by some called Geminus.

The Use of this Muscle is to extend the Carpus.

This you have at Tab. 22. Fig. 1. at E. B.B. Shews the same, id. Tab. Fig. 2. a. Shews its be inning, b. d. Its Tendinous Termination, I. K. K. Shews the same laid bare, Tab. 23. Fig. 2. I. Shews its beginning, K. K. Its two Venters, b.b. Declares its two Tendons produced thence, L. M. Shews them also at Tab. 20. Fig. 2.

tile.

The Explanation of the One and twentieth Table.

AWING OF I G. I. better on a A Pollicem Abducens.

B. Primum Articulum Pollicis Flectentes.

C. C. Abducens Minimum Digitum.

D. Part of the Tendon of the third Flexor of the Thumb. f.f. f. Shews their Originations. g. g. g. g. Their Tendons.

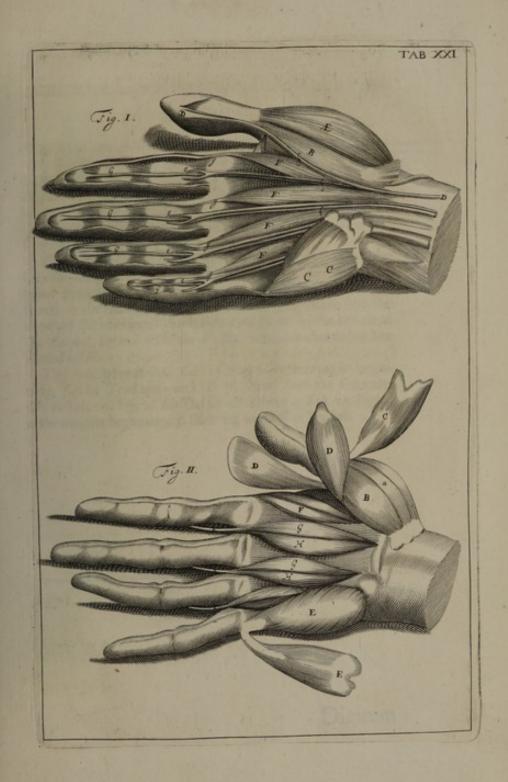
G.G.G.G. The four Tendons of the Flexores Tertii Internodii.

.II .D F T E. B. Shews the fame,

B. Primi Pollicis Internodium Flexor. a. Primi Pollicis Internodium Abducens. C. C. Primus Secundi Pollicis Internodii Flexor laid bare. D.D. Secundus & Tertius Secundi Pollicis Flexores. E.E. Duo minimi digiti Abductores. F. G. G. H. H. Interoffei. b.b.b. The Tendons thereof.

Extensor

The





Extensor Carpi Interior, five Cubitæus Internus.

His artieth from the Internal Apophysis of the Arm, as This deals also from the top of the Cubite, and being dilated Head through the Cubite according to his length near the Carpus, is turned into a strong and round Tendon, by which he is inserted into a Sinus, above the lower Appendix of the Cubite, and into the upper part of the Os Metacarpi of the Little Fingers.

That worthy Observation of these parts is, that all the own. Flexors are planted in the forepart, and do arise from the inward protuberance of the Arm, and that the Extensors are seated in the back part, and do take their Origination from the outward Extuberance: And thus the Hand by the benefit of the Carpus, joyned with the Radius, is made either to bend or extend it self.

This you have at C.C. Tab. 22. Fig. 2. e. Shewing its beginning, f.f. Its Tendinous end, L. M. Shews both the Extensors also at Tab. 20. Fig. 2. H. The same laid bare at Tab. 23. Fig. 2. e. Shewing its beginning, f. Shewing towards its Tendon.

Minimi

Digitorum Secundi & Tertii Internodii Tenfor Communis.

Thefe do extend the fecond and third Joynts of the Fingers, S there were some Muscles which did instead the Fingers, and others designed for contracting the Thumb, so also are there diverse Muscles appointed for extention of the same; This is nominated as the first of the Extenders of the Fingers, it ariseth partly Fleshy, and partly Nervous from the outward Apophysis of the Arm, and becoming more Fleshy, descending between the two Extensors of the Carpus, and then narrowing doth divide it self into three round Tendons, which are included in a common thin Mucaginous Coat, and so are carried under the Annular Ligament, passing which, they divide themselves, and are inserted into the first, middle, and third Fingers, at the second and third Joynts.

These Tendons do reach to the ends of the third Bone, and do lodge under the Nails, whence follows, that such sharp and girding pains do happen in these parts when any Injury falls up-

et Shewing its beginning. J. She wing to wards its

on them.

This you have at D. D. Tab. 22. Fig 1.

Minimi

Minimi Digiti Tenfor.

His ariseth sharp and Nervous from the same part as the This dues former, and for near half way is united to it; so as Italians, they seem all as one, but coming to the transverse Ligament, it becomes a round, large, and Nervous Tendon, which is implanted into the first, second, and third Joynts of the Little Finger.

This you have described with the rest.

Kk

The

The Explanation of the Two and twens tieth Table.

FIG. L.

C. Digitorum Extensor Primus laid bare. D. D. Extensor Digitorum Secundus.

E. Carpus Exterior Extendentium.

F Indicem Abducens.

G. Pollicis Extenfor Primus. H. Pollicis Extensor Secundus.

O. Supinator Radii Brevis.

FIG. II.

B. B. Carpus Extendentium Exterior.

C.C. Carpus Interior Extendentium.

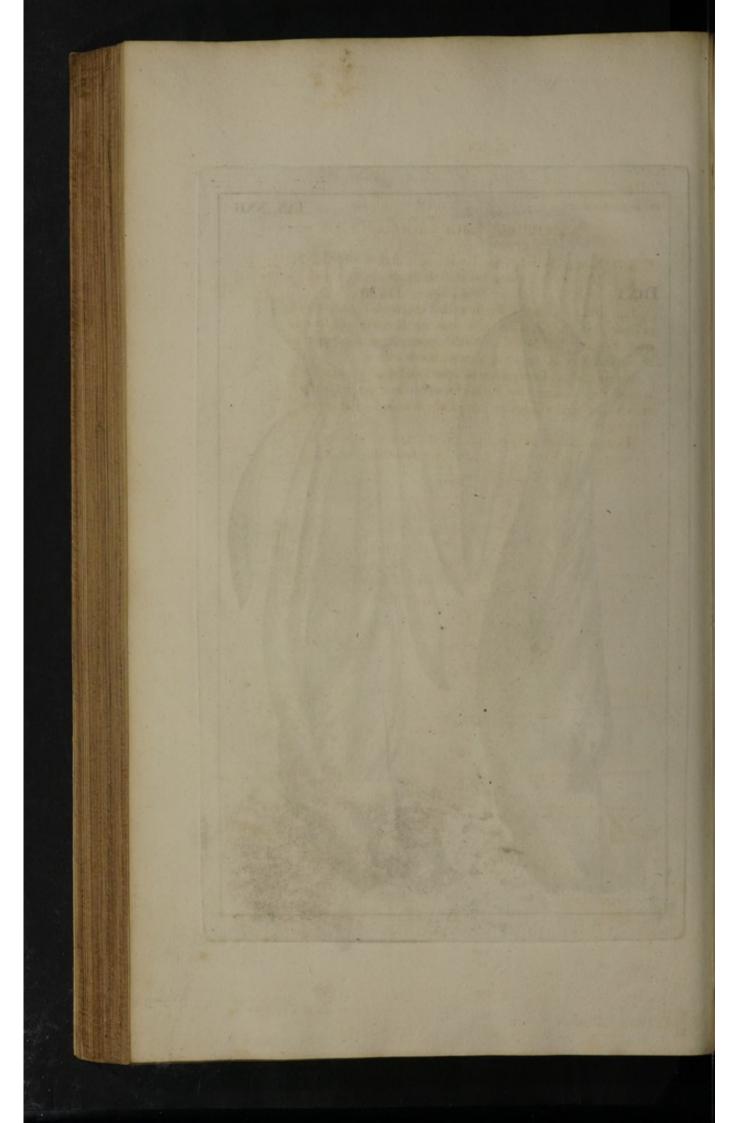
D. Supinator Radii Brevis.

H. Pollicis Extensor Primus laid bare.

I. Pollicis Extensor Secundus laid bare.

O. Pollicem Adducens.





Supinator Radii Longus.

His is called Longus; because it obtaineth the longest The Irless
the Radius
belly of all the Muscles which do creep about the outmards.

This ariseth from the middle of the Os Humeri, and running obliquely over the Radius, at its bottom it becomes a Membranous Tendon, and is fastned to the upper part of the Appendix of the said Radius, inclining somewhat inwards.

If this and its Companion be contracted towards their Originations they do move the Radius forwards as also the Hand, the which is tied to the lower part of the Radius by the benefit of

This you have at Tab. 23. Fig. 1. at C. a. Shewing its beginning, b. Its Tendon, D. Shews the same laid bare at Fig. 2. Tab. 23. a. Shews its beginning, b.b. Its Tendon.

Indicem

Secundi

Secundi & Tertii Pollicis Tenfor.

His ariseth from the same place of the Cubite as the former, and ascends obliquely over the Radius, and divides its self into two unequal parts, yet closely adhering, and is carried in a proper Channel at the Appendix of the Radius: the upper part remaining somewhat Fleshy, yet at last becomes a round Tendon, and is inserted into the Os Carpi which receives the Thumb; the other being presently subdivided into two small pieces of Flesh, do at length become Tendons: the first of which is inserted into the first Joynt of the Thumb, the other by a Membrane, fixeth its self to the second and third Joynts of the Thumb.

This you have at Tab. 22. at H. G. I. Fig. 1. I. At Fig. 2.

ejusd. Tabul. shews the same.

Secundi

Indicem

Indicem Abducens.

His ariseth with a Fleshy Origination from the middle This mental of the Cubite, and so running obliquely to the Ap-liberally.

pendix of the Radius, it becomes two Tendons, which by a proper Sinus in the said Appendix are transmitted under the Annulary Ligament over the Metacarp, and the upper Tendon is carried to the Root of the Little Finger, the other is implanted into the Root of the second Finger obliquely, that it may abduce from the Thumb: it is accompanied with two Extensors of the Fingers in the lower Joynts, as the second and third.

This you have at F. Fig. 1. Tab. 22.

Primi

LI

Supina 4

Supinator Radii Brevis.

This belos Longus in its Metions

Dife.

His being shorter and thinner than Supinator Radii Longus, ariseth from the Exteriour part of the Ligament of the lower Head of Os Humeri, and from the process of the Cubite; and running obliquely (outwardly Membranous, inwardly Fleshy) doth recover the middle of the Radius, and is strongly implanted into it.

These two Muscles is they do work together, they do contract the Radius forwards and outwards, and so do bring the Hand upwards: but the one draws the part downwards, and

the other draws it upwards.

This you have at O. Tab. 22. Fig. 1. D. Shews the same at Tab. ejusd. Fig. 2. D. Shews the same at Tab. 23. Fig. 2. c Shewing its Insertion into the Radius, E. Shews it at Fig. 2. ejusd. Iab. c. Shewing its Origination, D. Its Tendon.

sanique 1.1 Primi

Primi Internodii Extensores.

Hey arise Fleshy, round, long, and slender from the Thest details first Bones of the Metacarp, and so running to the Roots forest first itself to first of the Fingers, are laterally inserted to the first and seeingers. When these Muscles are contracted to their Originations, the second and third Joynts of the Fingers, together with the help of the Interosses are primarily extended, and in time of need, may serve to assist in oblique Motions: and wise Nature placed these inwardly, that if by any mischance the outward Tendons might receive any mischief, or happen to be wounded, yet by the assistance of these, the Fingers might be extended.

This you have at D.D. Tab. 20. Fig. 2. a. Shews its begin-

ning, b.b.b. Its division into three Fleshy parts.

The Explanation of the Three and twentieth Table.

FIG. L

Supinator Radii Longus laid bare. a. Shewing its beginning.

b. b Its Tendon.

E. Supinator Radii Brevis.
C. Shews its Origination.

D. Its Insertion. H. Shews the Ligament which distinguishes the External Muscles from the Internal.

EIG. II.

C. Supinator Radii Longuis.

D. Supinator Radii Brevis, c. Shews its Infertion.

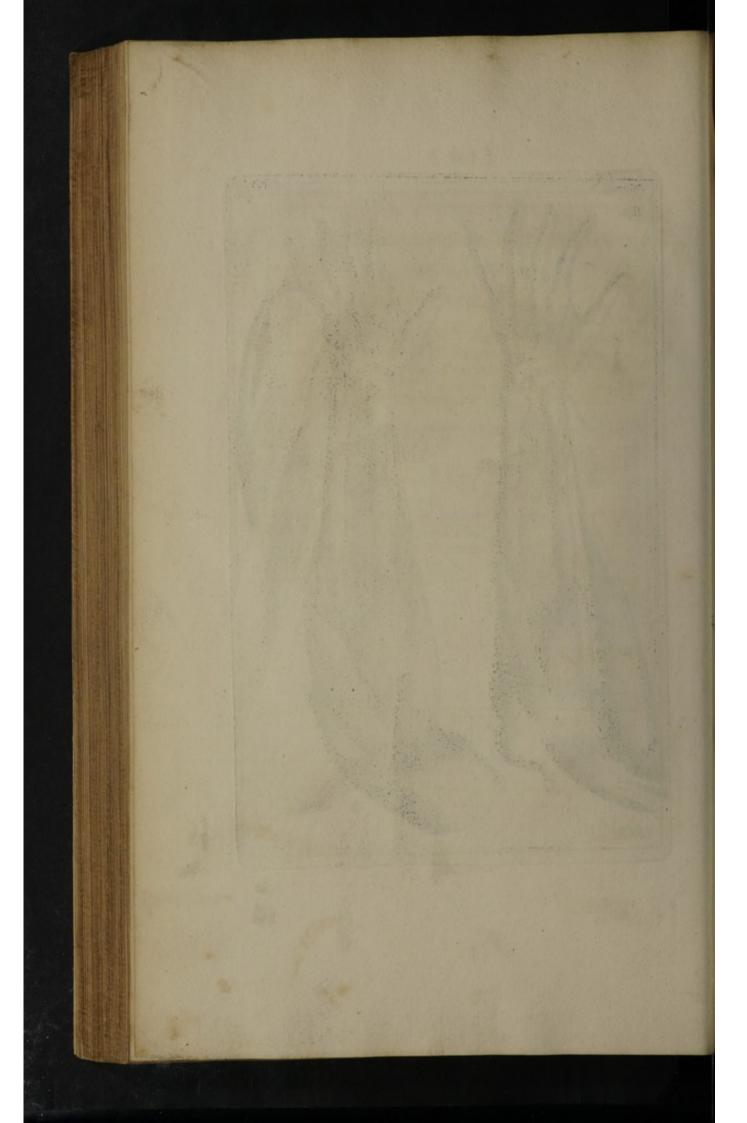
H. Carpum Extendens Interior laid bare.

e. Shews its beginning, f. Its Tendon.

I. K. K. Carpum Extendens Exterior laid bare.

b. b. Shews its two Tendons.





Next come we to the Body it Self as it lies.

Serratus Major Posticus.

O the former Muscles of the Thorax are also added these rises to two, so called Serrati postici from their Actions, as the Thorax also from their Indentings: and Postici being contrary to those Serrati we have already described, and they are also called either Superiores or Inferiores from their places which

This Muscle being small is inserted in the Back under Rhomboides, between either Scapula, and upon the first pair of the Muscles of the Head, arising very thin and Membranous; from the Spinal processes of the three last Vertebres of the Neck, and the first of the Thorax, and in its oblique progress towards the Convex part of the Thorax it becomes Fleshy, and is inserted into the four upper Ribs, by so many distinct Terminations, and by drawing them upwards doth dilate the Thorax.

This you have at Tab. 24. at C. in situ, d.d. Shewing its beginning, e.e.e. Its end consisting of three sorts of Fibres, D. The

fame laid bare.

Splenius

Serratus Posticus Inferior.

This dilates the lower part of the Thorax His Muscle is broad, thin, and Membranous, placed almost in the middle of the Back under Latissians, and the Aniscalptor of the Arm, arising from the Spines of the lower Vertebres of the Back, and the first of the Loyns, and marching along transversly becomes Fleshy and is inserted into the four lower Ribs by so many distinct Terminations, the which drawing outwards doth dilate the lower part of the Thorax.

E. Shews this at Tab. 24. f.f. Shews its Origination, g.g.g. Its

Serrated Infertion, F. This Muscle laid bare.

The Music being hall intered in the Back under Klome Mander, between other Scape is and upon the first pair of the Musics of the Head, arising very thin and Meabranous; from the Spinst procedles of the three last Verrebres of the Needs, and the first of the Thours, and in se oblique progress toward the Convex part of the Thours, and in see oblique progress is the Convex part of the Thours in becomes biship, and in the four upper War, by in many diffice Terminations, and by drawing them upsyards doth dilate the Thours.

This you have, or Tak 24, at C. in first, d.d. Shewing its beginning, e.e. the end confishing of three forts of Fibres, D. The fame laid bare,

Splenius

M m Serratus

Splenius five Triangularis.

His arifeth double: First, from the Spines of the fourth, towners fifth, third, fecond, and first Vertebres of the Thorax : butpures. Secondly, from the Spines of the five lower Vertebres of the Neck, and so running broad and long about the third Vertebre of the Neck, both the Originations do unite: and by oblique Fibres both Muscles do insert themselves into the middle of the Occiput; You must take off from its Originations, and preserve as many of its Ansulæ as you can between the Spines by runting between, and recovering its Tendon; If both move, they draw the Head directly backwards, if only one move, it turns the Head laterally.

This you have at Tab. 24. at A. A. A. A. Shews the same at

Tab. 26. This you have at B. B. also Tab. 25. Fig. 1.

tion is partly i leftry, and Nervous from the markers Provided of the first and teaped Vertebres of the Thomas, and tunning gination will more plainly appear.

Kindams doth oblerve that the Fibres both of this Compleme and Splening to be interfelled and disposed crois-ways for the better ftrengthning of either Mufcle.

B. E. Shews this at Tab. 24. B. B. Shews the fame at Tab. 26. C. Shews the fame laid bare at the fame Table.

Transver4

Trigeminus five Complexus.

His is the fecond pair of the Extenders, lying under the former, and is called Trigeminus, because it has allowed it a threefold Origination, and feemeth to be conflated out of three Mulcles running into one: it hath various beginnings, and obtains both many and Nervous parts; it arileth threefold, first, from the fourth and fifth transverse Processes of the Vertebres of the Thorax and immediately becoming Fleshy doth ascend over the rest of those Vertebres, until he reacheth the lowest Vertebre of the Neck, where it becomes a round Tendon; Not far from thence again it becomes Fleshy, and inferts it felf into the middle of the Occiput; The fecond Origination is by a short round Nerve from the same Process of the last Vertebre of the Neck, and thence becoming Fleshy is joyned to the other before its Infertion; The third Origination is partly Fleshy, and Nervous from the transverse Processes of the first and second Vertebres of the Thorax, and running obliquely outwards, after union with the former, is inferted into the Root of the Mammillary Process, bestowing an Anfula upon every transverse Process of the Neck. To find this fairly, divide the fides of Spinatus, and Longiffimus Dorfi, and his Origination will more plainly appear.

Riolanus doth observe that the Fibres both of this Complexus and Splenius to be interfected and disposed cross-ways for the better strengthning of either Muscle.

B. B. Shews this at Tab. 24. B. B. Shews the same at Tab. 26. C. Shews the same laid bare at the same Table.

1 rigemia

Transver4

The Explana silal ranfverfalis out fourth

His arifeth from the transverse Processes of the six upper the extends the Neet, is implanted externally into all the transverse Processes of the Neck, and hence had it given it its name, and doth draw the Neck backwards: but one of these only working, they bend it obliquely downwards; between these are carried the Nerves of the Spinal Marrow, passing out of the Vertebres of the Neck.

E. Serner Politica Interior John Natio James

This you have at E. E. Fig. 2. Tab. 25.

Nn

The

The Explanation of the Twenty fourth Table.

b.b. Shews its fiest and second fides.

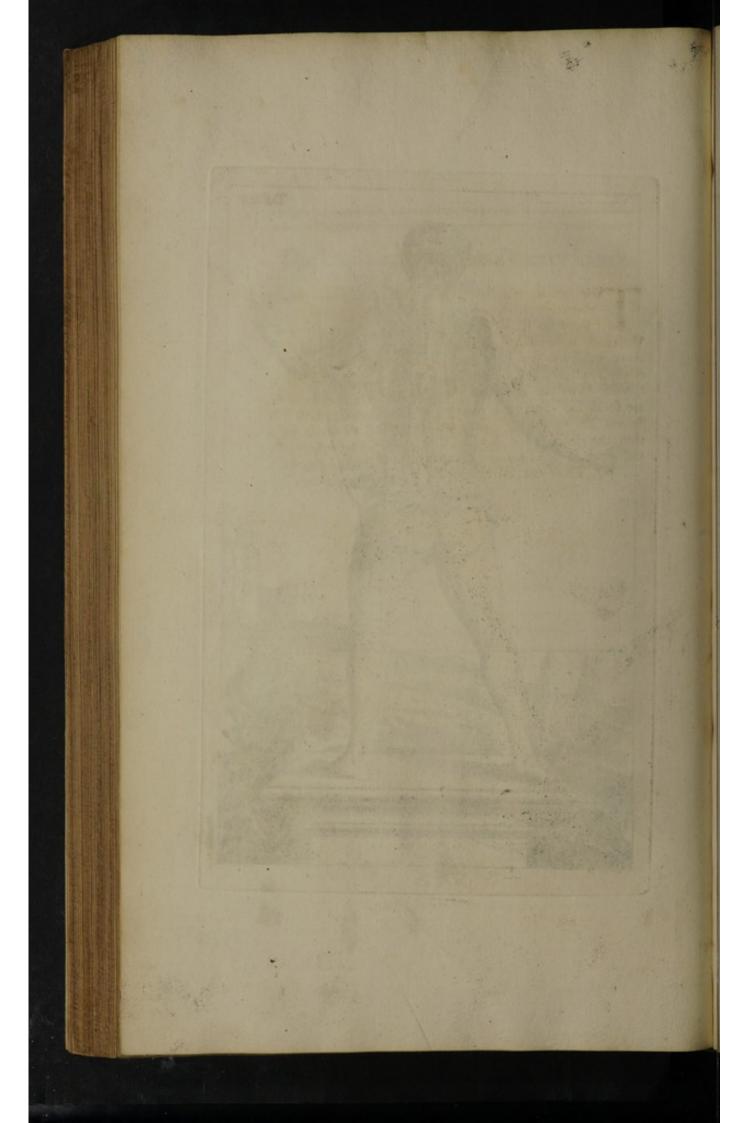
B. B. Trigeminus. C. Serratus Pofficus Superior. d.d Shews its Origination. e.e.e. Shews its Termination. D. Shews the same laid bare. E. Serratus Posticus Inferior. f.f. Shews its Origination.

A. Triangulare by some g.g.g. Its Insertion.
called Splenius.

F. Shews the same Muscle laid bare. G. Shews Rhomboides laid bare. h. h. Shews its Fleshy beginning. i.i. Its Flesby Termination. H. H. Longissimus Dorsi. I. The same laid bare. K. K. Sacrolumbus. L.M. N. The same laid bare.

Spinati





Spinati Colli.

His pair are long and large, possessing the whole Neck, This extends between the Spines: it arises with many beginnings mer. from the Roots of the Spines of the seven uppermost Vertebres of the Thorax, and ascending, gets a Tendon out of every transverse process of the Vertebres of the Neck, and is firmly implanted into the whole lower part of the second Spine of these Vertebres, and there the right and left do meet, and are so all the way united, that they are not divisible but by the Spine; These with the former do also extend the Neck, and then the Head, either directly, if they work together, or if they work fingly or apart, it brings it obliquely.

F. f. f. These you shall have at Fig. 2. Tab. 25.

Redi

Recti Majores.

Thefe ex-

Hese are the fourth pair: this Muscle is small, thin, and Fleshy, arising from the points of the Spines of the second Vertebre of the Neck, and ascending, are inserted into the middle of the Occiput, and doth help the motion of the third pair.

These are generally held to be the fourth pair of the Neck, and are granted to give affishance to the former in their Ex-

tentions.

This you have at E. Fig. 1. Tab. 26. At 25. you have them at C. C. At b. b. you have them, id. Tab. Fig. 2.

y well fingly or apart, it brings it obliquely.

Recti

Recki

Recti Minores.

Hese pair lying under the former, being of the same these dibbles substance and shape, accompanied with the like ductus, do arise from a small protuberance of the first Vertebre of the Neck round, and ascending, are implanted as the former underneath them; by the benefit of these Majores and Minores, if the whole pair work together, it extends the Head directly, but if one only move, it is moved laterally.

Nature hath made so many Muscles for extention of the Head, that Man might more aptly fit himself for the Contemplation of Coelestial Bodies, and for this Motion, small Muscles were thought most requisite: and lest they might tire or grow weary in their long dependence, Providence hath ordered to these, long Muscles, more properly adapted for a longer bowing of the Head, or extending it to a sharper Angle.

These you have at Fig. i. Tab. 25. at D. D. Fig. 2. ejusd. Tab.

you have them at b.b.

Obliqui

Obliqui Superiores.

Obliqui

He fixth pair are planted under the Recti or the forementioned, answering their form or shape, being but finall, and arifing from the outward fide of the ReEli at their implantations, and obliquely descending, are inserted into the process of the first Vertebre of the Neck : if both one, they nod, and directly backwards: if only one, it inclines the Head laterally.

These are called Obliqui from their fite, and one pair are implanted above another, either of which do lie under the Resti Extendentes, whose substance and form they exactly do answer. Baubinus will have these to arise in the Occiput, and to end in the lateral processes of the first Vertebre of the Neck.

These you have at F. Fig. 1. Tab. 26. At Tab. 25. you have the same at E. E. Fig. 1. Fig. 2. ejusd. Tabul. you have them at e.e.

Obliqui

Obliqui Inferiores.

His lower pair ariseth longish, Fleshy, and thin from the This belts.

Spine of the second Vertebre of the Neck, and obliquely ascending, are inserted with the Obliqui Superiores into the transverse Process of the first Vertebre.

When these are contracted, they work it about the Spine circularly, whence it is, that the Head consisting upon the same, it is also moved circularly therewith to the sides; but because these two pair are very small, the two former pair of Extensors, they do help those in their Motion, as also those of the right,

as we have already shewn.

These you have at Tab. 25. Fig. 1. at F. And at d.d. you have them at Fig. 2. ejnsd. Tab.

The

The Explanation of the Twenty fifth Table.

FIG. I.

A Trigeminus.

B. Splenius.

C. C. Recti Majores.

D. D. Recti Minores.

E. E. Obliqui Superiores.

F. F. Obliqui Inferiores.

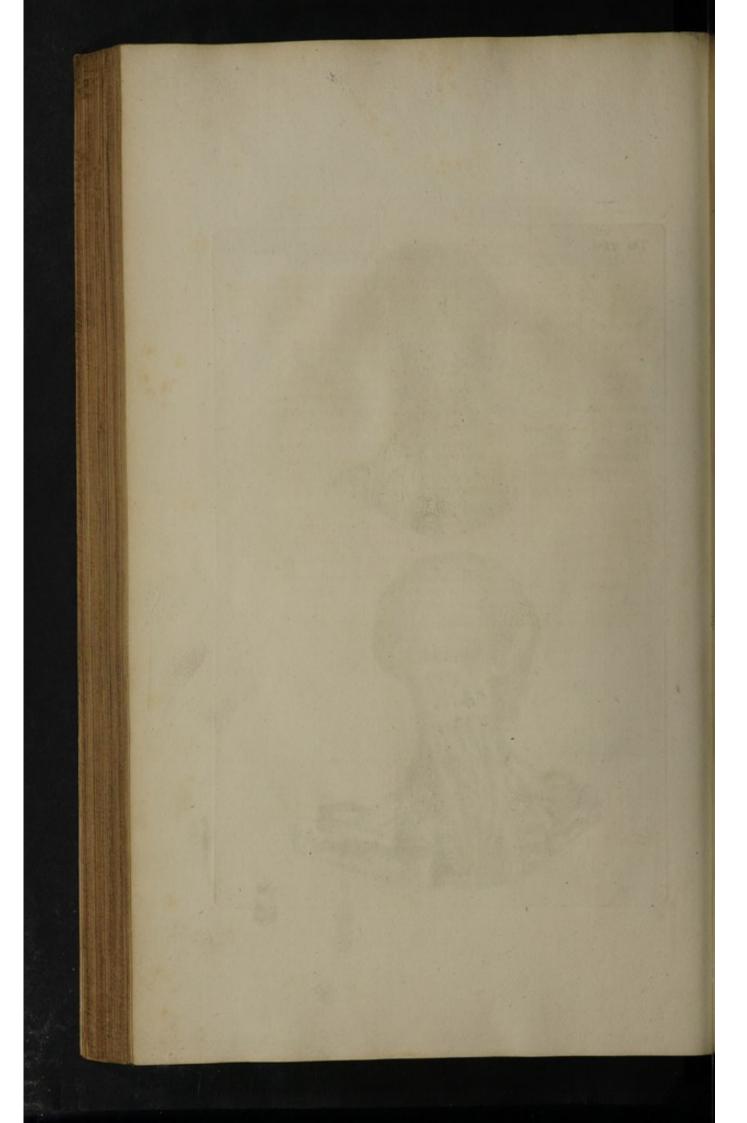
FIG. II.

a. a. Recti Minores.
b. b. Recti Majores.
c. c. Obliqui Superiores.
d. d. Obliqui Inferiores.
E. E. Transversales Col'i.
f. f. f. f. Spinati Colli.

Longif.

The





Longissimus Dorsi.

His Muscle hath not this name given it, only because it This mention is planted between the Muscles of the Back, but being as the longest of the whole Body: for it ariseth from all the Spines of the Os Sacrum, and Vertebres of the Loins, as also from the inward part of the Os Ileon, where it joyns it self to the Sacrum, being the first and chief pair, its beginning being externally strong and Nervous, and somewhat Acute, but within Fleshy, and so ascending, doth six it self to the transverse Processes of the Loyns, and becomes more Fleshy; then marching on, it narrows it self, and gives a small Nervous Tendon upon every transverse Process of the Thorax, except the twelfth, and doth insert it self into the said Process of the strains the Mammillary Process.

This is allowed to extend both the Thorax, the Loyns, and their Vertebres: upon this borders the whole Sacrolumbus in its outfide, whose beginning with this is one and the same, and is also continued from the end of the Os Sacrum to the twelfth Vertebre of the Thorax, and so continued in its whole progress through the Loyns.

This you have at H. H. Fig. 1. Tab. 24. I. I. Shews the fame laid bare in the Right fide, H. H. I. You have the fame at Tab. 26. b. b. The fame laid bare.

Cervicalis

Pp Sacro

Sacrolumbus.

the same Origination with Longissimus Dorsi, and doth adhere to him externally lateral, according to its length, until it hath got the twelfth Vertebre of the Thorax,

length, until it hath got the twelfth Vertebre of the *Iborax*, where they feem to be two, although scarce divisible by differion, and so growing thinner, doth in ert it self by two small Tendons into every Rib of the *Iborax* at their Incurvation.

About these Tendons there doth arise a great dispute amongst Anatomists; for some with Laurentius do think this Muscle to send forth a double Tendon, one upwards to the lower parts of the Ribs, the other downwards to their upper part; and these Tendons thus diversly mediating (which are manifestly seen about the Ribs) are seen to attol the Ribs upwards in inspiration, and to draw them downwards in expiration; The truth is, these contrary actions are not to be reasonably conjectured to be acted by one certain Muscle: and that it may very well be allowed, that these descending Tendons ought to proceed from some other peculiar Muscle, here upon a diligent enquiry, we find them to proceed from a certain Muscle substituted to the Sacrolumbus, and to this it is so closely annexed, that it is scarce perfectly to be separated from it.

This you have at K. K. Tab. 24. L. M. N. The fame laid bare.

Cervicalis

Cervicalis Descendens.

His takes its Origination from the third, fourth, fifth, to debeate fixth, and seventh Vertebres of the Neck, and hence Thorase by Diemerbroeck is Christened by the name of Cervicalis Descendens, thence arising Fleshy, sending forth Tendons, somewhat downwards into the upper part of all the Ribs, directly opposite to those Tendons of the Sacrolumbus, and these Tendons thus intersecting themselves, do not work together but by turns; As the Tendons of the Descendentis Cervicalis, do draw the Ribs upwards in aspiration, so the Sacrolumbal Ten-Enspiration dons in expiration do draw the Ribs downwards, so as they may be moved to, and contracted by them.

As to this Muscle the Author will further satisfie you, and

As to this Muscle the Author will further satisfie you, and therefore I recommend you to Diemerbroeck.

Spine of the home Veredret is To find this due, you must raile had been found that Membranous Orly and Souther from their Membranous Orly guarantes; at Or, home, Or Sairuna, and from the Lumbal Spines, and immediately pades this will this appear to first, their helping forwards the action of Leavisium Lingui.

This you have at L. M. M. at Tab. 26. L. M. Shewing its beginning. N. In I administration.

Sacer.

Cervice, rapa Condens,

This extends the Loyns. Or the various Motions of the Back and Loyns, as forwards, backwards, and laterally, to every of the Vertebres are implanted Tendons of Muscles; Our Accurate Diffectors of late have found four pair of Muscles to be planted in the Back and Loyns, by whose help, the strong Motions of these parts are performed: some appointed for Contraction, others for Extension.

This pair are so called from their Origination, because they do arise from the Exterior part of the Os Sacrum, where they are joyned to the Spine, and so arising Fleshy, have three several Tendinous Insertions: the first into the upper part of the transverse Processes of the Vertebres of the Loyns, the other into the Root of the same Processes, and the third into the Spine of the same Vertebre; To find this out, you must raise Latissimus Dorsi, and Sacrolumbus from their Membranous Originations; at Os Ileon, Os Sacrum, and from the Lumbal Spines, and immediately under this will this appear in situ, these helping forwards the action of Longissimus Dorsi.

This you have at L.M. N. at Tab. 26. L.M. Shewing its

beginning, N. Its Termination.

Sacer.

Semispina«

Semispinatus.

His is the fourth pair, arifing with a Nervous beginning This extends from all the Spines of the Os Sacrum, and Loyns, and becoming Fleshy, doth bestow a Nervous Tendon upon every Spine of the Vertebres ascending, and terminates accutely in the Spine of the first Vertebre of the Thorax, extending it.

This by Spigelius is accounted the second pair of the Muscles

extending the Thorax.

This is shewn at Tab. 26. at K.K. c. c. Shewing its beginning,
d. Its Termination.

Qq Quada

Quadratus.

This Mufcle extends the

His Muscle is called *Quadratus* from the resemblance it hath with a square: it ariseth from the back part, and upper Cavity of Os Ileon, as also from the upper part of Os Sacrum, broad, thick and Fleshy, and so ascending over the Vertebres of the Loyns, doth adhere internally to their transverse Processes, and inserts it self being grown narrower, to the inner part of the twelfth Rib Fleshy, and doth bend the Vertebres of the Loyns forwards: and one only working, it bends it obliquely forwards to the sides.

The Loyns are concerned with three Motions, the which are performed by two pair of Muscles, for they are bent forwards, extended backwards, and brought laterally, they are contracted by these two, and extended by Sacer.

This you have shewn at R. R. Tab. 26.

Pfoas

Pfoas vel Lumbaris.

Ince Ambulation is the proper office and work of the Foot, and this being very confiftent in Firmation and Motion, (for when one Foot remains on the Ground, the other is lifted up, and so moved forward for the compleating of Ambulation) now for the performance of either of these Functions, its very requifite these parts should be furnished with such Muscles as may make forwards towards these Extensions and Contractions, as also to the promoting of the various Motions of the Thigh, Leg, and Foot, these being according to our pleasures either extended, contracted, adduced, abduced, and wrought or brought about: amongst the Contractors we meet with this, as the first called Lumbaris or visit

It arifeth Livid and Fleshy from the sides of the Bodies of the Tou bends two last Vertebres of the Thorax, and the three uppermost of the Loyns, and from their transverse Processes descending somewhat round from the inner part of the Os Ileon; to the Os Pubis, where it becomes a strong and round Tendon, and running through its Sinues, is implanted into the upper part of the leffer Rotator: Its Use is to draw the Thigh upwards, and to bend it inwards; and because the Kidneys do lie upon this Muscle, as Laurentius doth observe, over which is spread a notable Nerve, hence it happens, that fuch as are troubled with the Stone, do. find a sleepiness in that side of the Thigh whereon the Scone is

D. D. Shews this at Tab. 27. b. b. Shews its Origination, E. Its Tendon, F. F. The Nerves which pale hence into the Thigh, G. G. G. The same laid bare.

lodged, by its compression.

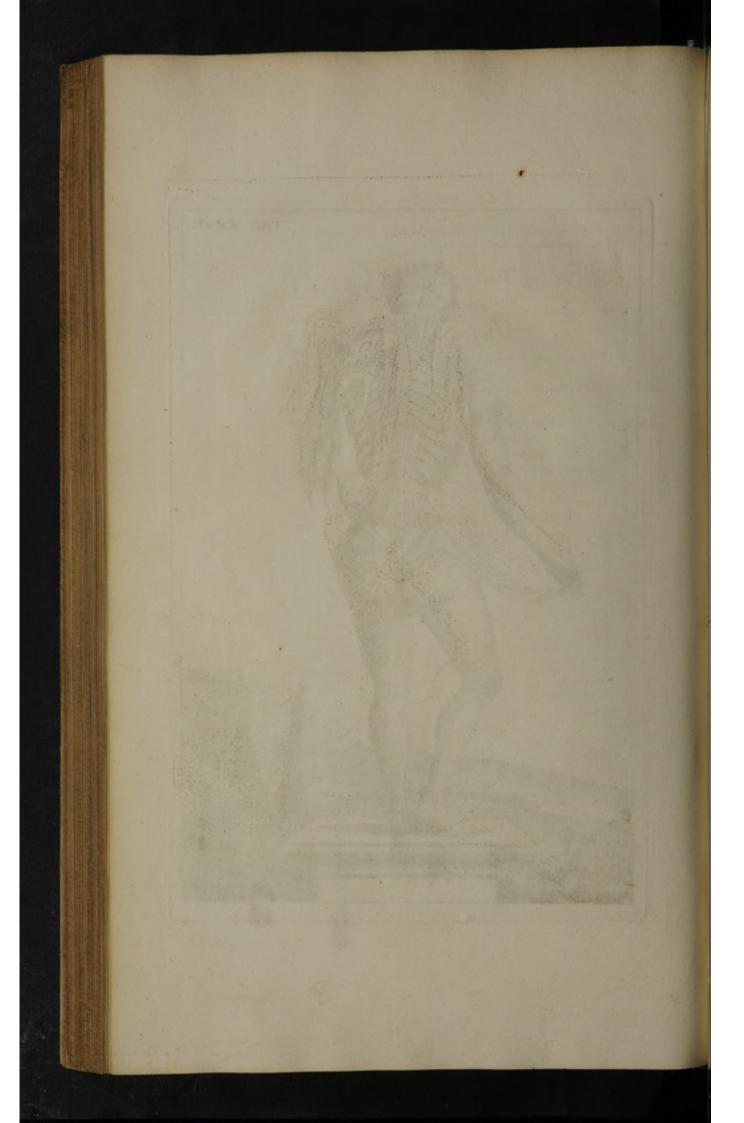
The Explanation of the Twenty fixth Table.

bare. Splenius. a. a. a. Shews its Anfula. b. b. Shews the same wholly laid B. B. Trigeminus. · bare. a. a. a. Shews its inward Face and C. The same laid bare. Anfulæ. D. D. Transversales Colli. K. K. Semispinatus. E. Rectus Major. L. M. N. Sacer. F. Obliquus Superior. L. L. Shews its Origination. G. Obliquus Inferior. G. Obliquus Inferior.

H. H. I. Dorsi Longissimus laid R. R. Lumbales Quadrati.

Pfoas





Pfoas Parvus.

Estides the former, in some Bodies is seen this Psoas Parvus, This does being the former for called by Baubine, it ariseth Fleshy the length of a new. little Finger, and is dilated with a slender and plain Tendon above the Psoas, and ends with the Psoas and Ileon, and embraceth them very firmly; Riolan. affirms he never could find this in Women; Bartholine writes, that he saw this Muscle arising in a strong and Fleshy Man at the Hagne, whose beginning was Fleshy, and did equal the breadth of three transverse Fingers; it was inserted Fleshy in the upper Posterior Margent of the Os Ilii, at the Origination of the Iliacus Internus: he surve. Supposed its Use to be as a Pillow to the former, and that whereas the Os Ileon of it self was immovable, or that it might sustain the Os Ileon erected, lest by the standing too much thereon, it might cause a weariness and prove burthensom.

Our Mafter of Anatomy, Mr. William Molins in the Year of his being Mafter doth mention this Muscle, in the Body then

Diffected by him.

This Muscle lies under the former, but appears not very frequently.

Rr

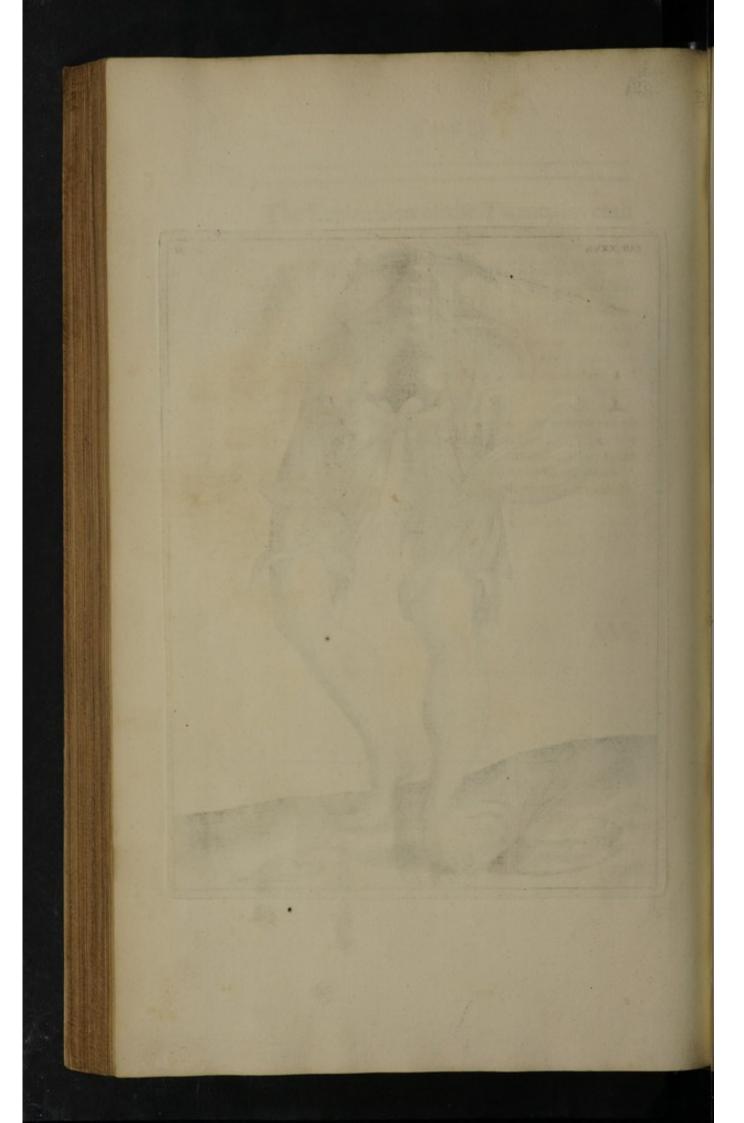
The

The Explanation of the Twenty seventh Table.

A. Shews Quadrati.
D. D. Psoas or Lumbalis.
L.L.M.M.M. The same laid bare.
D. Lividus.
D. The same laid bare.
T. Fascialis.

We





We arrive now to the taking the Thigh off from the Trunck of the Body, by dividing Os Ileon from the Os Sacrum, after which, will this appear as the most proper Order of Dissecting these following Muscles.

Iliacus Internus.

This is the fecond Muscle of the Thigh, proceeding from This contracted Thighs is the fecond Muscle of the Os Reon semicircular broad, and Thigh state internally Fleshy, then narrowing, and growing thicker becomes Tendinous, and passing through the same Sinus with the Psous, is implanted into the same Rotator a little below it. This is allowed to bend the Thigh directly, that is, when it is raised towards the Body; so as that it inclines to no one side, and when we make a right Angle with the Spine, then we properly say the Thigh is contracted, when sixting we six with contracted Thighs.

This you have at 27. Tab. at I.I. L. L. The same laid bare id. Tab. M. M. M. Shews its Fleshy beginning.

Glutæus

Glutæus Major.

This extends the Thigh obliquely backpards. His is the first of the Extenders, the which with its other two doth make up the Fleshy Mass of the Buttocks, the Skin being laid bare, this shews its broad beginning, enated from diverse Bones: it ariseth from the whole Spine of the Os Ileon externally, then from the lower part of the Os Sacrum laterally; And thirdly, from the Os Coxendix large, and Fleshy, running obliquely down over the Juncture of the Os Coxendix; and growing narrower is implanted by a broad and strong Tendon into the first Impression of the great Rotator, and part of it also into the Linea aspera.

Then we properly do affirm the Thigh to be extended, when it's brought outwards, (viz.) as when we stand as it were with divaricate Thighs, or Thighs that are placed at a distance.

This you have at Tab. 28. at C. C. a. a. a. Shews its upper part, b.b. Its other part, H. I. K. The same laid bare. H. H. H. The thick and Fleshy beginning of it, 1.1.1. Its thick Belly, K. K. Its Tendinous Substance.

Olderens

Pfoas

Glutæus Medius.

His Muscle ariseth under the former, much like it both This extends in still and magnitude, from the forepart of the Spine, formards as also from the back of Os lleon, Fleshy, broad, and semicircular, and obliquely descending, narrows it self, and doth enwrap the Juncture as the former, and is implanted by a broad, strong and Membranous Tendon transversly into the fourth impression of the great Rotator; This is said to extend the Thigh and draw it upwards, and laterally forwards, as some imagine, but I humbly conceive it assisted up by the Psoas and Iliacus Internus, this Muscle pulleth it down again, and is as an Auxiliary Muscle to the Gluteus Major, and Minor, in the extension of the Thigh.

L. L. Shews this Muscle in situ at Tab. 28. e. e. Shews its Fleshy beginning, B. B. Shews the same in situ, Tab. 29. D. e. s. Shews it laid bare, D. D. D. Shews its Fleshy beginning, E. Its

Fleshy Belly, F. Its Tendon.

SI

Glutæus

Glutæus Minor.

This extends the Thigh direlly.

His lies wholly under the second, arising livid, broad, Semicircular and Fleshy, about the lower part of the back of the Ileon near the Acetabulum of the Coxendix, and so runs obliquely forwards Fibrous, according to the Ligament that binds in the head of the Os Femoris, and is implanted by a broad and strong Tendon into the third impression of the great Rotator.

These three do extend the Thigh, and do draw it backwards, and so extend it. I conceive it most probable, they all unite in pulling the Os Femeris downward and backward, after it is elevated by the Flexors, the Psoas, and Iliacus Internus.

This is shewn at Tab. 29. at G. G. a.a. Shews its beginning, This you have laid bare at Tab. 29. at a. a. a. b. b.

Iliacus

Iliacus Externus vel Pyriformis.

His Circumagent Motion is performed when the Thigh This brings the Thigh a is Circumverted; which thus happens: when stand-boot up ing with the Right Foot firm upon the Ground, we move the Thigh obliquely; this Motion is twofold, for its either brought outwards or inwards: outwards when the Knee is moved outwards, and the Heel inwards: inwards when the Knee is brought to the Ham, and the Heel forwards; Amongst these Circumagent Muscles this is reckoned the first

It ariseth thick and Fleshy from the three lower Vertebres of the Os Sacrum, and running transversly becomes a round Tendon, and is inferted into the fourth impression of the great Rotator; This draws the Thigh upwards, outwards, and backwards, this is allowed the thickest Muscle in Human Body, and

is stuffed out with wonderful variety of Fibres.

This is shewn at Tab. 28. at M. f. Shews its beginning, g. Its Tendon, H. Tab. 29. Shews the fame in fitu, K. Shews the fame. laid bare, L. Shews its beginning, M. Its long and flender Tendon, This you have laid bare at Tab. 32. at L.

The

The Explanation of the Twenty eighth Table.

C. C. Glutæus Magnus. I. I. I. Its Venter.

a a. a. Shews the Cir-K. K. Its Tendinous Substance.

cumference of its Origination

H. 1 K. The same laid bare.

H. H. H. Shews its first and M. Pyriformis.

Fleshy Origination.

I. I. Its Venter.

C. C. Shewes Substance.

C. C. Shews its Fleshy beginning.

Q. Q. Marsupialis.

Tendon, Il. Lab. 39. Shows the lame in fin. A. Show the turns bail hore. L. Shows in beginning. M. Its long and thender Ten-

Obtura4





Obturator Internus five Marsupialis.

His arifeth Fleshy and large from the Membrane interthe Things the Things and covering the whole inward face of that Bone and covering the whole inward face of that Bone and covering the whole inward face of that Bone and covering the whole inward face of that Bone and covering the whole inward face of that Bone and covering the whole inward face of that Bone and covering the whole inward face of that Bone and covering the whole inward face of that Bone and covering the whole inwards, which is arched over, according to its length, with a strong Ligament, backwards to the outward part of the Covendix, where they are received into a Fleshy Purse, and so making one Tendon, are implanted into the Simus of the great Rotator, and doth make the outward Rotation; This Muscle must be raised inwards, and got through the Simus under the Ligament, then its Purse will plainly appear.

This is shewn at Tab. 28. at Q. Q. O. Shews the same at Tab. 29. This you have also, Tab. 29. at D. E. F. G.G. Shews the same

laid bare, H. Shews its Fleshy Purse.

Tt Qnade

zilsiquita Quadrigeminus. Ostundo

This brings the Thigh about backHis arifeth Fleshy from the rising of the Os Ileon, and from the Appendix of the Coxendix, and runs broad, short and Fleshy towards the hinder part of the great Rotator, and is inserted into that space of the Bone which is between the two Rotators; the head of Lividus and part of Tricens must be thrown off, before the Origination of this will be cleared, or Obturator Externus found out.

This Muscle by Vefalins is divided into two M scles.

These Circumagent Muscles do then bring the Thigh about, when standing directly, and firm on the Earth we move the Thigh obliquely, and this Motion appears double, as outwards or inwards; that properly granted inwards, when the Knee is brought toward the Poples, and the Heel carried outwards: that outwards, when the Knee is carried outwards, and the Heel brought inwards.

This you have at Tab. 30. at I.

Obtura.

Obturator Externus.

His hath its name from its Origination, it arising from This brings the outward part of the Cavity, and is subjacent to about the Pellineus, it arising large and Fleshy from the minds. Membrane that enwrappeth the perforation of the Os Pubis externally, and so running transversly to the back part of the Thigh, becomes narrower, and is inserted by a strong Tendon into the the Sinus of the great Rotator, and doth direct the inward Rotation. You must carefully bring your Knife inwardly about the edge of the perforation of the Os Pubis, and it will both arise and appear the better.

This (together with the Internus) fill up the Cavity which lies betwixt the Os Pubis and Ischium, whence it has its deno-

mination.

This you have at Tab. 32. at H. I. K. Shews the same laid bare, C.C. Shews the same at Tab. 30. S. Shews the same at Tab. 31. This you have also at Tab. 32. at H. in its place, I.K. Shews it laid bare.

The Explanation of the Twenty ninth Table.

A. A. A. Lividus. C. C. Obturator Exter- O. Seminervosus laid bare. nus.

D. D. E. Obturator Internus.

D. D. Shews its broad and Se-R. Semimembranosus laid bare.
micircular bead
S. Shews its Nervous bead.

E. E. The Tendons thereof.

F. F. The Marsupium or Purse it X. Shews its Origination.

G.O. Shews the same laid bare H. Shews its Flefby Purfe.

L Quadrigeminus.

K. Seminervolus.

L. Semimembranofus.

M. Biceps.

P. Shews its Flesby Origination,

Q. Its Nervous Termination.

V. Biceps laid bare.

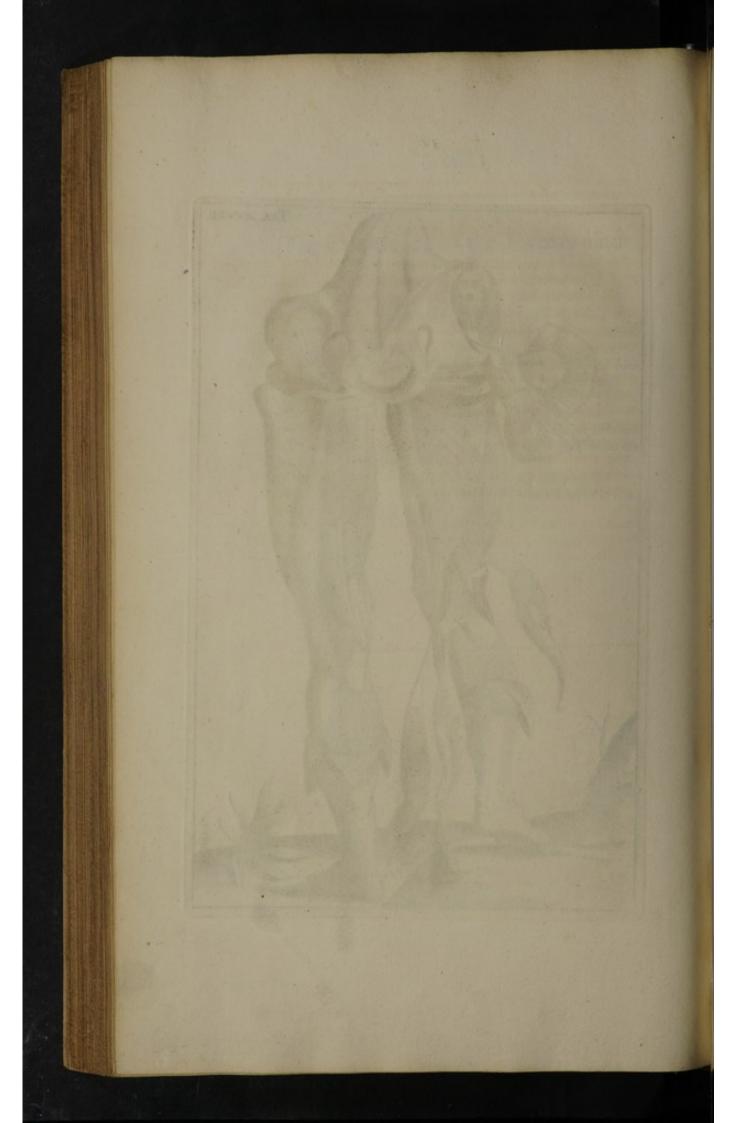
T. Shews its Tendinous Infertion.

a. a. a. b. b. Glutæus Minimus laid bare.

c. Pyriformis laid bare.

m. m. m. Shews Triceps in fitu.





Membranofus.

He Leg hath three motions allowed it, it being either This extend the Leg the outwards, all the Extenders are implanted in the fore fide of the Thigh, and these working together, do extend it aright; This Muscle by Anatomists is reckoned as the first of the Extenders.

It ariseth sharp, externally Nervous, inwardly Fleshy, from the Spine of the Os Ileon, on that side next Sartorins, and then becomes broad, and Nervously Membranous, enwrapping all the Muscles of the Thigh within its self; then covering the Patella and two Focills in their outward part, is there implanted, and doth extend the Leg directly; and as some Authors will have, doth somewhat abduce it outwards.

As much as possibly may be, is to be kept of this Membrane in Dissection, and the division thereof to be made in the back

This you have at Tab. 30. at M.M. 0.0.0. M.M. Shewing its beginning, 0.0. Declaring its broad Tendon, Q. R.S. Shews the same laid bare.

Uu Sarto*

Sartorius five Fascialis.

This bonds the Leg.

His Muscle hath its name from its daily use which is made of it by Taylors, and Shoomakers, who when they be at their work, do generally sit Cross-leg'd, some call this Fascialis from Fascia, a Ligature or Swadling Band.

It ariseth sharp, Fleshy and Nervous from the fore part of the Spine of the Os Ileon, and then becoming Fleshy and broad, runneth obliquely internally over the Muscles of the Thigh, becoming Tendinous and broad at the inward Appendix of the Os Femoris; and is implanted by a broad Tendon, as some Authors affirm, and round, as others into the Tibia.

Riolan. writes, that this doth not bend the Leg, but rather doth bring it inwards, and so he supposeth doth more aptly extend it; This is one of the longest Muscles in Human Body.

This you have at Tab. 30. at A. A. B. Shews its Origination, C. Its Termination, D. D. Shews the same laid bare, T. Shews it also at Tab 27.

Gracilis.

The Explanation silison Thirtieth T.

His is generally accounted the fecond of the Contractors: This doubt it ariseth large and Nervous from the middle of the fermer.

Os Pubis, according to the length of its Cartilage, and so descending inwards towards the Ham Fleshy, doth there become a round Tendon, at the inner head of the Os Femoris, inserting it self into the Tibia near the former:

The first and second of the Flexors are planted in the fore part of the Thigh, the one outwards, the other inwards, the rest in the back part thereof; if they be all contracted together, they do bend the Leg directly, but the first four only working, they do bring it somewhat inwards, whilst the other endeavours to carry it outwards, and by this motion, the end of the Foot in which the Toes are implanted is somewhat brought outwards.

This is shewn at F. F. in its place, Tab. 30. G. Shews its Commission, H. Shews its Insertion, I. K. L. Shews the same laid bare, I. Shewing its Nervous beginning, K. Its round Belly, and L. Its round Tendon.

The

The Explanation of the Thirtieth Table.

A. Fascialis or Sartorius.

D. D. Shew the same laid
bare.

K. Obturator Externus.

Y. Lividus.

I. K. L. The same laid bare.

M. M. O. O. Membranosus.

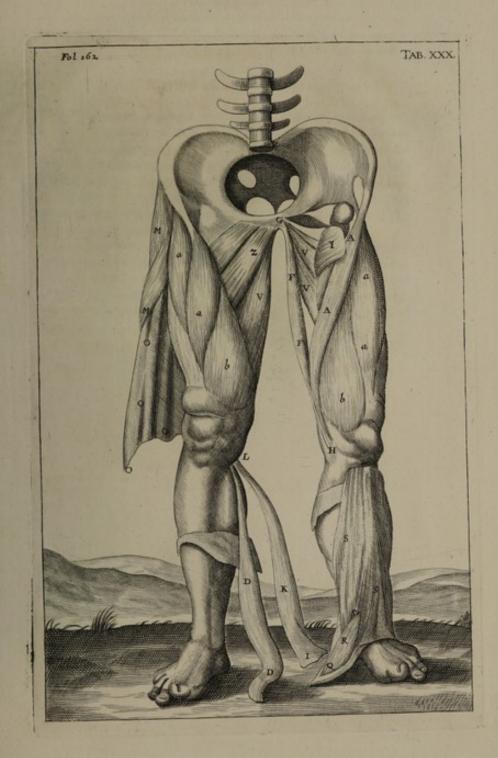
Q. R. S. The same Muscle laid b. b. Vastus Internus in situ.

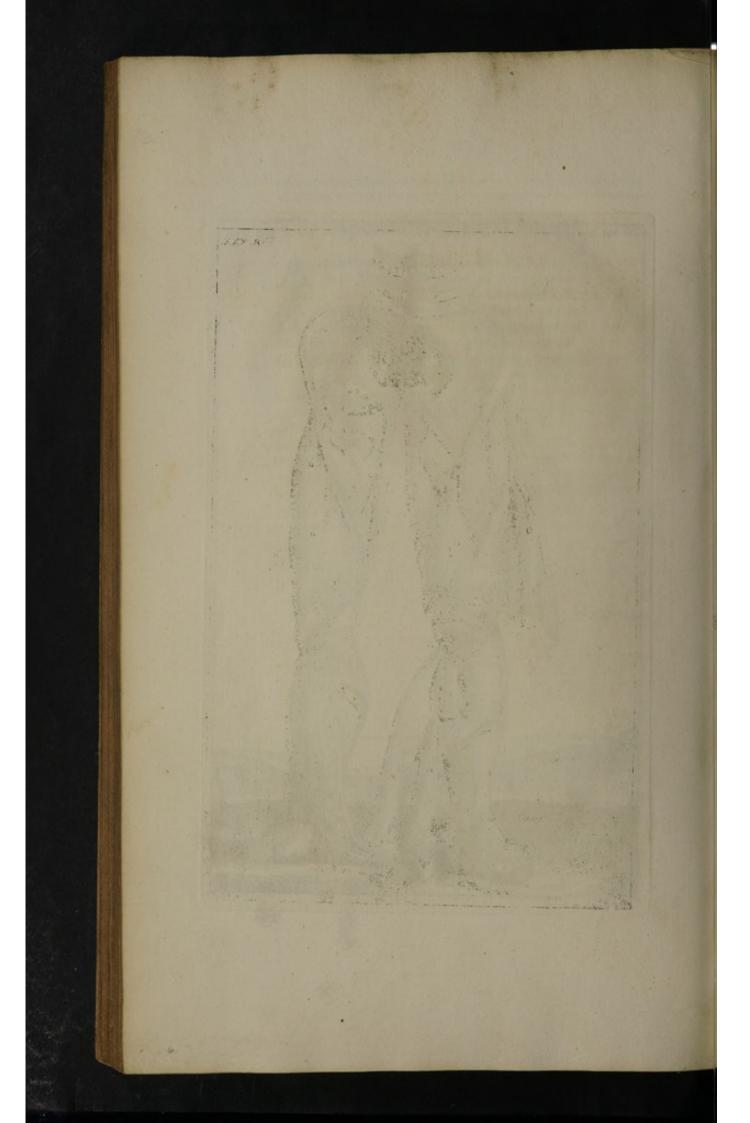
pair of the Thigh, the one outwards, the other inwards, the reft in the back pair thereof; if they be all contracted together

This is shown at F. F. in its place Take 20. G Shews its Committee. At Shews the same laid bare, A Shewing its Nervous beginning. A steround Belly, and E. In round Tendon.

to carry it outwards, and by the motion, the end of the Foot in which the Tossare implanted it fomewhat brought outwards.

Rectus.





Rectus.

His hath its name from its right Progress, and hath the This extent. Figure of a true Muscle, and is held as the third of the Extenders: it ariseth sharp and Nervous from the fmall inner Extuberance of the Os Ileon, and then becoming Fleshy and round, when it arrives at the Patella it expands it self into a strong broad Tendon, entirely covering it, and running downwards, is inferted into the outward part of the Tibia, at a prominency provided for it.

This you have at A. A. Tab. 31. B. Shews the inward protuberance of the Os Ileon whence it arifeth, C. Shews its Tendon, D.E. F. The same laid bare, D. Shews its sharp and Nervous beginning, E. Its Fleshy Venter, F. Its strong Tendon; This you have also at Tab. 30. at a. a. a. R. Shews this also at Tab. 27.

Vastus Externus.

This elfo doeb extens the Leg. His from its great Mass of Flesh, hath its name given it, and is the third of the Extenders, arising broad and Nervous from the Root of the great Rotator, cleaving to the upper and outward part of the Os Femoris, and so descending Fleshy to the Patella, it becomes a Membranous broad Tendon, and mixing with the Tendon of the Rectus makes the same covering for the Patella, carrying the same insertion with it.

This you have at G. G. G. G. in its place at Tab. 31. H. Shews the beginning of this Muscle, I. Its Tendinous Membrane.

beginning E in Fieldy Veners, E in litence Tendon; This you have also at Tak you at he as A blows this allows

Vastus

Vastus Internus.

His is the fourth extending Muscle, arising Nervous the most from part of the lesser Rotator, and from the neck of mer. the Os Femoris, and growing Fleshy, adheres to the Anterior, and Interior part of the said Os Femoris, and recovering the Patella, mixeth it self with the two former, covering the Patella, and taketh its insertion in the same place as they do.

This you have at L. L. L. Tab. 31. This you have also in its place at Tab. 30. at v. v.

Biceps.

Biceps.

His is the fifth inflecting Muscle, arising sharp and Nervous from the Appendix of the Coxendix, and growing Fleshy, runs down externally, and being got half way, it attenuates and grows Nervous, as tending to a Tendon, where it joyns it self with its other head which ariseth from the Os Femoris, where Glutens Major hath its insertion, and so growing thicker, outwardly Nervous, becomes a strong Tendon, and runs through the outward Simus of the outward part of the head of the Os Femoris, and fixeth it self simply to the outward side of the upper Appendix of the Fibula; Sometimes this Muscle is distinguished with a double beginning and ending, so observed by Vesalius, and therefore by him this is called Duplex.

This Muscle doth bend the Leg and pull it backward.

This you have laid bare at Tab. 32. at 0. 0. At Tab. 29. you have it at M. V. Shews this laid bare at Tab. 29. X. hews its beginning, Y. Shews its Tendinous Substance, Z. Its Fleshy Mole or Substance.

Semimembranofus.

His is accounted the fourth of the Inflectors, arising the least where the former did, with a small Membranous beginning, and running downwards by the back part of the Thigh, doth continue Membranous half its progress; and then becoming Fleshy and thick, inserteth it self by a round Tendon into the Ham, in the inner side of the libia; The sirst of the four Inflectors being tied into the inner side of the Tibia, and the fifth into the Fibula; the sirst makes the inward hardness in the Ham, the other, the outward.

This you have at Tab. 29. at L. You have the same laid bare at R. S. Shews its Nervous Head, T. Its broad Tendon.

y Th

The Explanation of the One and thirtieth Table.

A. Rectus.

D. E. F. The fame laid
bare.

D. Shewing its sharp and Nervous Ori ination.

E. Its Fleshy Venter.

F. Its strong Tendon.

G. G. G. G. Vastus Externus.

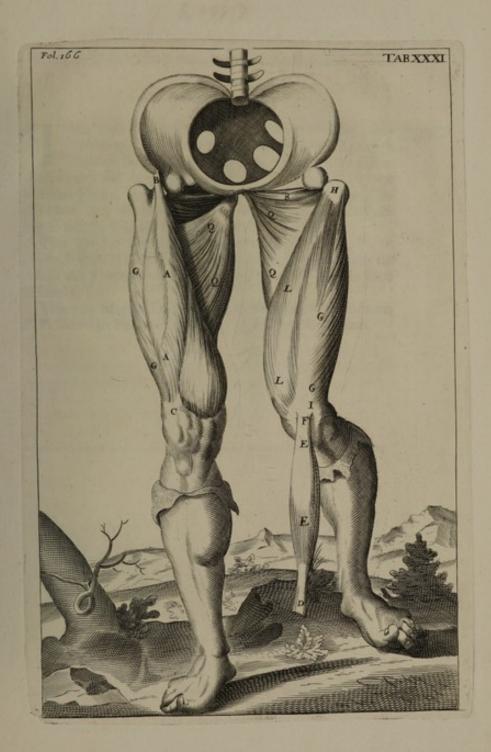
H. Its beginning.

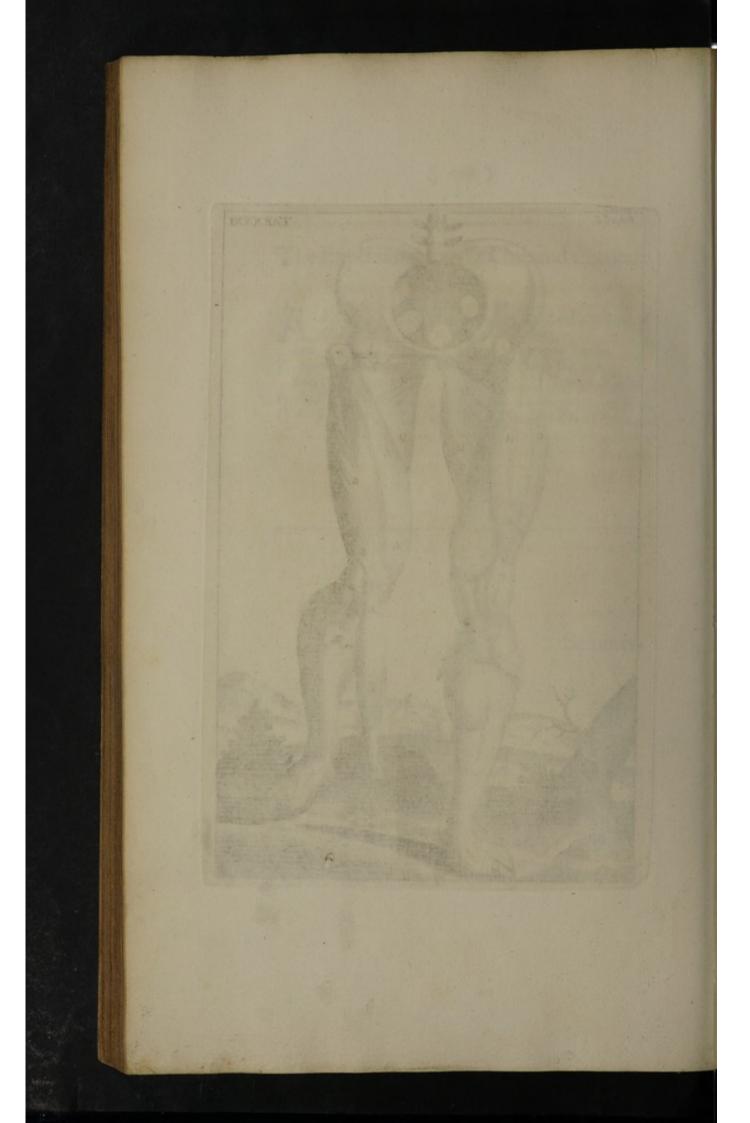
I. Its Membranous Tendon.

Q. Q. Q. Q. Q. Triceps in either fide.

S. S. Obturator Externus.

Seminer-





Seminervofus.

His hath its name from its Substance, it being partly This morty and partly Fleshy, and is the third pair: it mer. Nervous, and partly Fleshy, and is the third pair: it mer. ariseth small and Nervous from the same Appendix as the former, and so continuing half way in its descent, it then becomes Fleshy, running by the back part of Os Femoris, to the Ham, near which it becomes a round Tendon, and reslecting it self, is inserted into the forepart of the Tibia.

This Tendon hath allowed it this worth observation, that it reaches the even to the middle of the length of the Tibia, with the rest of the Tendons implanted to the Tibia, the which do scarse descend so far.

This you have at Tab. 29. at K. O. Shews the same laid bare, P. P. Shews its Nervous beginning, O. Its Nervous Tendon.

my been also fifted a mickler Parisine, as all field breaked applier

Triceps.

Triceps.

This brings the Thigh femuras.

DE.

His is the largest of all the Muscles of the Thigh, yea, I may say, of the whole Body; its apparently seen to have three heads, all which do conclude in one end: It ariseth with three heads, the first Fleshy and Nervous from the Appendix of the Coxendix, the which swelling, doth dilate it self into the hinder part of the Thigh, and then growing small, doth end in a round Tendon, at the inner head of the said Os Femoris; The second ariseth Fleshy from the Coxendix at its conjunction with the Pubis, and terminates at the Root of the lesser Rotator, and in the upper part of the Aspera Linea; The third ariseth Fleshy from the lower part of the Os Coxendix, and is implanted into the Linea Aspera of the said Os Femoris; To which some add a sourth, (viz. the following call'd Pettineus) which seems to be a part of this.

This is a Riding Muscle, drawing the Thigh inward, and fixeth the Rider to his Seat, keeping him firm in the Saddle, and may be truely stilled Musculus Pudicitie, as assisted by the Lividus

in keeping the Legs close.

This you have at Tab, 31. at Q.Q.Q. A. A. A. A. A. Shews it in Tab, 32. B. Shews its beginning, D.D.D. Shews the same laid bare, F. Shews its beginning, F. G. The division of its Tendon.

Lividus

Lividus sive Pectinalis.

His is allowed the fourth of the Inflectors, it ariseth the look broad and Fleshy from the forepart of the Os Pubis, estimated in near its Cartilage, obliquely descending; and is inserted by a large and short Tendon to the inside of the Os Femoris, near its middle, so as it strongly brings the Thigh upwards and inwards.

By Bartholine this Muscle is reckoned amongst the Adducent

Muscles.

This Muscle is affishent to the Triceps, being an Adductor of the Thigh, which it pulleth inward, being very useful in Riding, keepeth a Horseman close to the Saddle; and (as was before said) seems to be a part of the Triceps, though it does not so closely adhere to it, but it may be separated without difficulty.

This you have at Tab. 29. at A. A. A. B. Shews the forepart of the Os Pubis, from whence this Muscle takes its Origination,

O. Shews the same at Tab. 27.

Gasters

Zz The

The Explanation of the Two and thirt tieth Table.

This Mulifo is affillent to the Joseph betog an Adductor of the Thirds, which is pollech inward, being very middlen Ridings herpoth a Horleman close to the Saldle : and (as was before

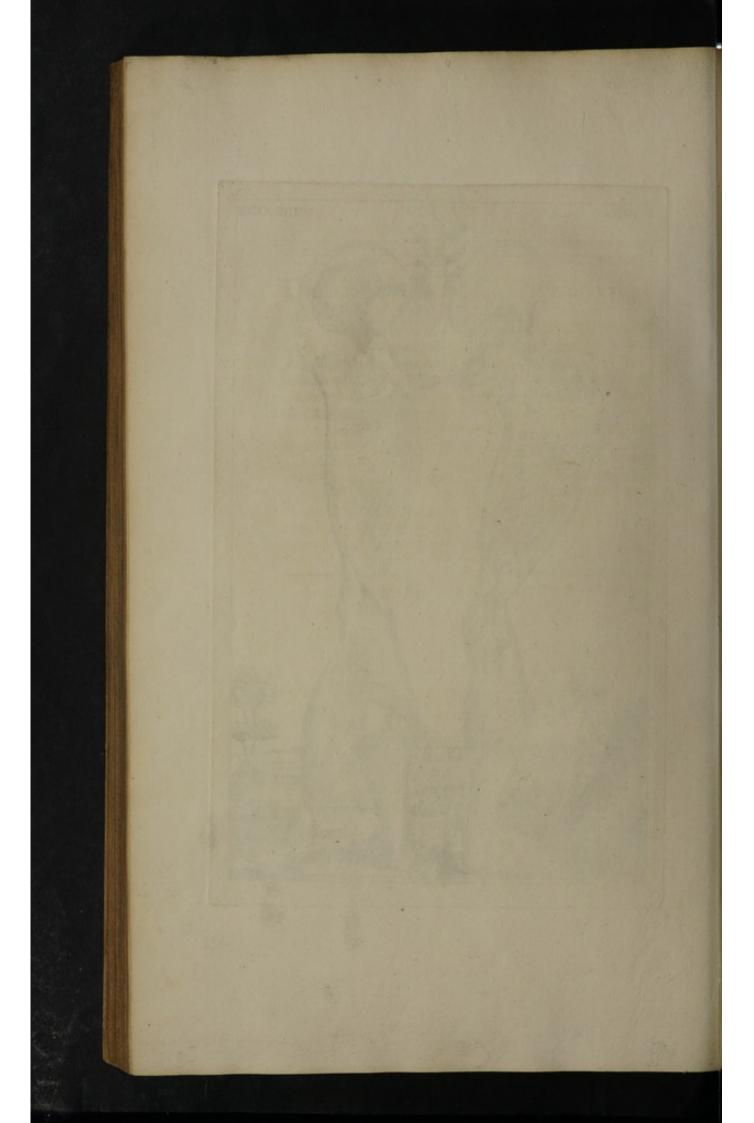
A A A Triceps
B Shews its Origination.
D. D. D. The same Muscle laid bare.
L Pyriformis laid bare.
bare.
H. Obturator Externus.

Gaster 4

The

9.0





Gasterocnemius sive Gemellus Externus.

He Foot hath allowed its threefold motion, (viz.) Extended tension, Contraction, and lateral Motion; this is accounted the first of the Extenders, which maketh the Calf of the Leg: it ariseth broad and Fleshy from the inner head of Os Femoris, as also from the outward head of the same Bones; so descending according to their Originations, they are united about midway, and are converted into one entire, broad, strong, and Nervous Tendon, and becometh one with the Tendon of Gasteroenemius Internus, and doth insert it self into the back part of Os Calcis, so that indeed they are but one Muscle with a double Origination.

Vefalius doth affert that the Sefamoidal Bones are Tributary to the two heads of this Mufele, not far from their Origination.

This you have at Tab. 33. at D.E. F. G. H. Fig. 1. D. Shews its first Origination, E. Another of its beginnings, F. Its Coherence, G. G. Shews its large Fleshy Belly, H. Shews its large Tendon, at Fig. 2. ejust. Tab. O. P. Q. S. Shews the same laid bare.

This you have at Tall at Figure it L.K. A. W. Wing L.

bead, K. K. S. heround Fendou

Gafter

Plantaris.

This moved the Skin of the Sole of the Foot. S that Muscle Is cailed Palmaris, which with its long and round Tendon doth march through the whole Interior part of the Cubite, and from thence to the Annular Ligament of the Carpus, and is afterwards expanded into a broad Tendon covering the whole Palm of the Hand; so also is this Plantaris expanded through the whole hinder part of the Tibia, with a long and round Tendon, and at length marcheth into the Sole of the Foot.

It ariseth Fleshy, round, and slender under the former, from the outward lower head of Os Femoris, and after some Dilatation, it becomes a slender round Tendon, and running obliquely from the outward between both the Gasterocnemii inwards, and being joyned with their Tendons near the Heel laterally, running forwards, doth insert it self (after Dilatation over the Sole of the Foot) into each of the five Toes at the first

Joynt.

The Dilatation of this Muscle over the Sole of the Foot, as also its Insertions, will not be found, unless you allow it to insert it self into Flexor Primi Internodii at its Origination in

the Cavity of the Os Calcis.

This Muscle is of as great service to the Foot as Palmaris is to the Hand; and serves to the Extention, or Expansive Motion of the Foot.

This you have at Tab. 3. Fig. 2. at I. K. K. I. Shewing its head, K. K. K. Its round Tendon.

Gafter 4

Plania

Gasterocnemius Internus, seu Soleus.

His arifeth livid, strong, and Nervous from the Posteria and riour Appendix of the Fibula, and growing larger, adheres both to that and Tibia, and descending at half way, it becomes narrower and Tendinous, making one with the Gasteroenemius Externus both in Origination and Insertion; These three Muscles are united about their ends, and do frame one very strong Tendon, implanted in the back part of the Heel, the which by reason of its greatness, and singular strength above the Tendons of other Muscles, obtains the name of Chorda Magna, the which being Bruised or Wounded, (as Hipp: writes) proves Mortal or very dangerous: its by this Tendon at this very day that our Butchers do daily hang up their Oxen by; And that which is worthy observation as touching this, is, that if any Inslammation doth arise about this part, it brings the whole Body miserably into consent therewith.

This you have at L. M. N. Fig. 2. Tab. 33. L. Shewing its strong and Nervous head, M. Its large venter, N. Declaring its

Tendon.

A a a Suppos

Suppopliteus.

This attoes the Leg abliquely. His ariseth broad and Nervous from the outward head of Os Femoris, and growing Fleshy, runs obliquely to the back and inward part of the upper Appendix of the Tibia, and is there implanted.

Riolan faith, he sometimes hath found this double; This moves the Leg obliquely outwards, and turns the Footsomewhat inward towards the other.

This you have at G. H. Tab. 33. Fig. 2. G. Shewing its beginning, H. Its Termination.

Flexor

Flexor Digitorum Tertii Internodii, seu Perforans, sive Sublimis.

His ariseth Fleshy, and long from the back part of the Tin bends Tibia, running, and adhering according to its length, the Teering to the middle of it, and there becoming a Tendon, is formula to the Internal Matleolus, where it becomes round, and is carried under the Ligament that proceeds from the lower Appendix of the Tibia, to the Os Calcis, and then divides it self into four Tendons, which terminates at the third Joynt of the four lesser Toes.

The Toes of the Feet are both contracted, extended, and moved laterally; And for these three Motions, Nature hath designed three kind of Muscles, and these are called either Flexors, Extensors, or Oblique Movers; four of these are implanted in the Leg; as this first, the Flexor of the Great Toe, and the Extensor of the third Joynt of the Toe, and the Extensor Pollicis; the other in the Foot.

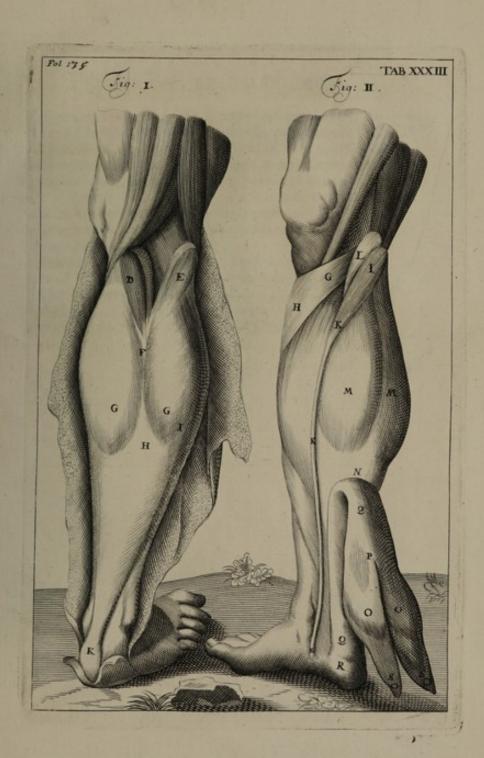
L. L. L. Shews the four Tendons of this Muscle at Tab. 37. Fig. 2. B. Shews the Tendon of this Muscle, Tab. 37. Fig. 2. D. D. D. Shews its Fleshy part, E. E. E. Shews its four Tendons, F. F. F. F. Shews these also and their Originations at Tab. 37. Fig. 2. H. Shews this also at Tab. 34. Fig. 1. I. Shews its middle part, K. Its Exquisite Tendon, D. D. E. Shews the same, Fig. 2. id. Tab.

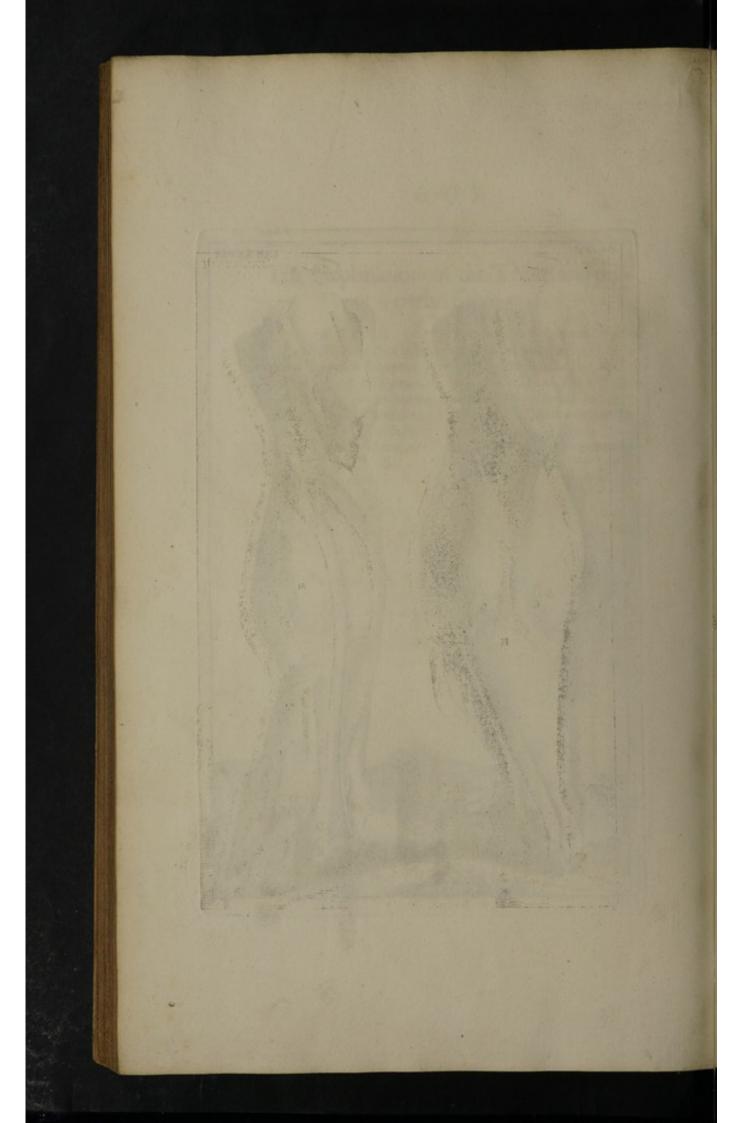
The Explanation of the Three and thirtieth Table.

F I G. I.

E. F. G. H. I. GasterocH. Its Termination.
I. K. K. Plantaris: D. Shews i s first Origination. E. A second of its Originations. F. Its Coition or Connexion. G.G. Its large Fleshy Belly. K. Its Tendinous Insertion. FIG. II. G. H. Suppopliteus.

G. Shews its Origination. I. Shews its head. K. K. K. Its Tendon. M. N. N. Gasterocnemius Internus. O. P. Q. Shews Gasterocnemius Externus laid bare.





Tibiæus Posticus seu Nauticus.

T ariseth Fleshy from the Ligament which joyns the Tibia This tries in and Fibula, according to their length, and from both Bones as the Foot is backwards, becomes a round Tendon, near the Malleolus Internus, where being bound by a strong Ligament, it overspreads it, and recovering the Sole of the Foot, is inserted into that lower part of that Os Tarsi, which joyns it self with Os Cubifornie; Sometimes there is seen, that it hath produced two Tendons, the one implanted into the Os Naviculare, the other into the Innominated Bone.

This Muscle is called Nauticus, from the use which Seamen vs.

make of it, when they do run up the Shrouds.

This you have at Tab. 35. Fig. 1. at E. E. e. Shewing its Fleshy beginning, f. Declaring its Tendon, D. D. D. Shews the same at Tab. 36. Fig. 2. E. Shewing its Tendon.

Bbb Flexor

Flexor Pollicis.

This bendt she Great Toe. He Great Toe hath allowed it variety of Muscles, the first of which is this arising sharp and Fleshy about the middle of the back part of the Fibula, descending larger, nearer the inward Malleolus, running obliquely under it, and is inserted into the last Bone of the Great Toe; Under this Ligament lodgeth the Os Sesamoides.

This Tendon is feen fornetimes to conjoyn with the Tendon bending the third Joynt, running to the second Toe, and before it reacheth the second Joynt of the Great Toe, requires the largest Os Sesamoides, which is in the other Joynts of the Toes.

This you have at Tab. 37. Fig. 2. c Shewing its Tendon, D.D.D. Shews its Fleshy part, Tab. 36. Fig. 1. at N. you have it laid bare, M. Shews this at Tab. 34. Fig. 1. N. Shews its long and narrow Tendon, I. I. Shews the same exactly at Tab ejust. Fig. 2. K. K. Shews its Tendon, N. Shews this laid bare at Tab. 36. Fig. 2.

Bbb Flexon

Flexor

Flexor Secundi Internodii, Perforatus seu Profundus.

His is a second of the Instectors of the Toes, by some row beats called Flexor Brewis, it ariseth Fleshy and Membra-the second nous from the extremity of Os Caleis, and marching from that way the Sole of the Foot, divides it self into four round Tendons, which at their Insertions into the second Joynts of the lesser Toes are perforated for the transmission of the Tertii Internodii Flexor.

This you have at Tab. 37. Fig. 1. at C. C. C. D. D. D. Shewing its four Tendons; And at Fig. 2. ejufd. Tab. you have the same laid bare at N. O. Shewing its Origination, P. P. P. P. Declaring its Tendons, Q. Shews the same laid bare at Tab. 34. Fig. 2. N. Shews the same laid bare at Tab. 37. Fig. 2. O. Shews its Origination, P. P. P. P. Shews the sour Tendons of this Muscle.

The Explanation of the Thirty fourth Table.

FIG. I.

G. Suppopliteus laid bare. F. Shews its Fleshy beginning.

G. Its Flesby Termination.

H. Flexor Tertii Internodii Di- D. Shews its sharp Origination.

gitorum.

I. Shews its length.

K. Its exquisite Tendon.

L.L. Peroneus Primus.

M. Flexor Pollicis.

O. Pollicem Adducens in fitu.

P. P. Gasterocnemius Internus M. Its Tendon. laid bare.

Q. Plantaris laid bare.

round Tendon.

FIG. II.

D. E. E. Flexor Tertii Internodii Digitorum.

E.E.E. Its slender and Flesby Venter.

F. Its Tendon.

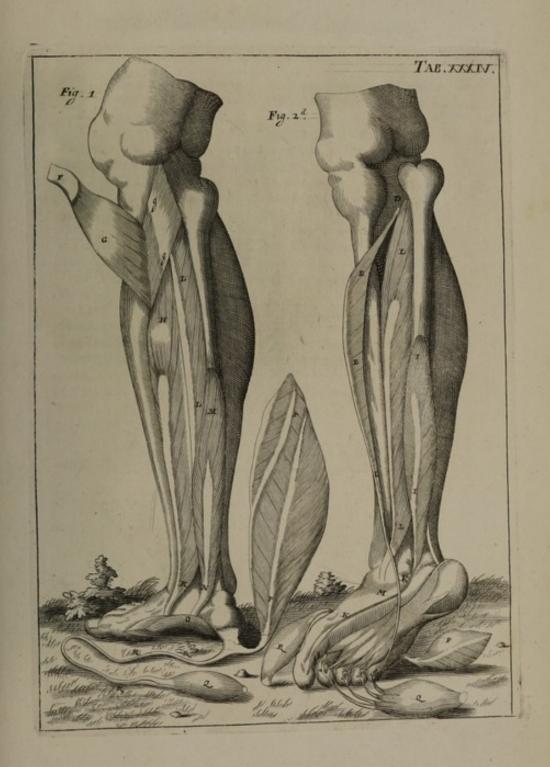
I. I. Pollicis Flexor.

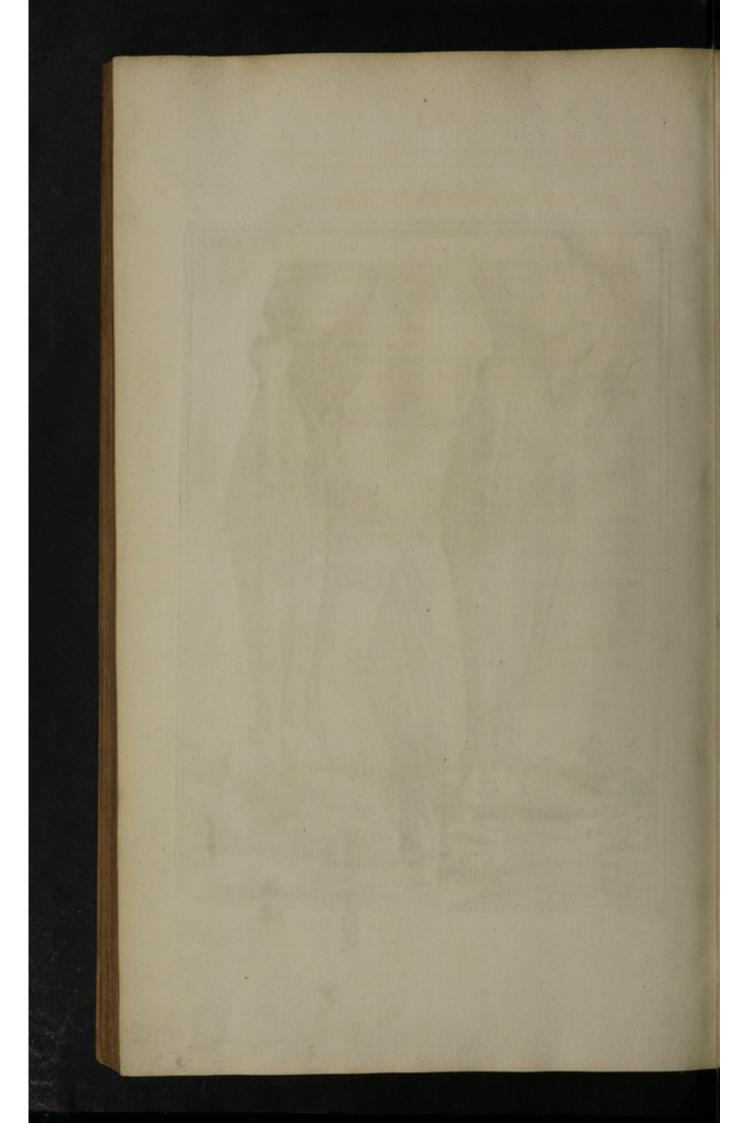
K. K. Shews its Tendon.

L. L. Peroneus Primus in fitu.

P. Minimum Digitum Abdu-

R. R. R. Shews its long and Q. Pollicem Adducens laid bare.





Flexores Primi Internodii Digitorum, feu Lumbricales.

Hese are called Lumbricales both from their Use, Figure, These beads and Origination, much resembling Earth-Worms be- Form of the ing put into the Hand.

They do arise round and Fleshy from the Tendons of the Perforans and Perforatus, and are inserted by small Tendons laterally to the first Joynts of the Toes; if you examine this well, you will find them to receive an addition of Carnous Fibres from a Musculous Flesh seated or implanted in the inward Cavity of the Os Calcis, and proceeding Fleshy half the Sole, there doth make these; and from it sometimes doth proceed a Tendon to the first of the Toes, and makes Secundi Internodii; and you shall also find that the Tendon of the Teriii Internodii Flexor doth run through the Body of this; and is not perfectly divisible.

These you have at Tab. 37. Fig. 1. at K. K. K. K. F. F. F. F. Shews the same at Fig. 2. ejustd. Tab. R. R. R. Shews their Fleshy Mass laid bare at Tab. 36. t ig. 1. S. S. S. S. Shews the Tendons whence they do arise, T. T. T. T. Shews their four Tendons.

*ubdA

Adductor Pollicis Major.

His arifeth Nervous from the inward part of the Heel, and from the Ligament, which keeps that and the Talus together, and so growing Fleshy and round, becomes Tendinous, inferting it self obliquely into the lateral and inward part of the first Joynt of the Great Toe.

This abduceth the Great Toe from the rest of the Toes; or,

as I may say, draws it inwards.

This you have at Tab. 37. Fig. 1. at E. F. F. Shewing its Tendon; At Fig. 2. ejufd. Tab. you have the same laid bare at Q. Q. M. Also shews the same at Fig. 1. Tab. 35. laid bare, D. Shews this at Tab. 34. Fig. 1. R. Shews the same laid bare, Fig. 2. ejujd. Tab.

Their walliers it apply out K. K. K. K. P. P. F.

coccuping do ratio, T. J. F. T. Shaws then four Tondons.

Abdu

Abductor Minimi Digiti:

He Little Toe hath a particular Abductor allowed it, This abductor from the Heel, arising Nervous from its External part, Toe from the Jeffey in its progress, runs with a small reft.

Fleshy Tendon under the Os Metatars, which is immediately placed before the Least Toe, and so is inserted into the External side of its first Joynt.

This you have at Tab. 37. Fig. 1. at G. G. H. H. Shews its Tendon, I. I. Shews the same I id bare at Fig. 2. ejusd. Tab. L. M. Shewing its Tendon, K. K. Shews its beginning, Q. Shews the same at Tab. 35. Fig. 1. P. Shews this at Tab. 34. Fig. 2.

Addu

Adductor Minor, five Transversalis Placentini.

This draws the great The to the linie Toe. His by Casserius, who first found this out, gave it the name of Transversalis, because it binds the first Joynt proceeding from the Ligament of the Little Toe, and is carried transversly Fleshy, and marcheth out with a short and broad Tendon inwardly, to the first Bone of the Great Toe.

broad Tendon inwardly, to the first Bone of the Great Toe.

The Author of this Muscle doth assign this Use to it, That drawing the Great Toe towards the Little one, it makes a hollowness in the Foot; so as that in unequal and stony places, an apprehension as it were being hereby made, we may tread and walk more steadily, and commodiously, this being as a Ligament to the Foot, to keep it from slipping or sliding, and for a more secure ambulation; for by the help of this Muscle, the Foot is brought into that Figure, that it makes the step sure, and as it were doth apprehend the part it is set on.

This you have at Tab. 37. Fig. 4. at E. laid bare, H. Shews the same at the Letter A. the first Toe, P. Shewing the same at Tab. 36. Fig. 2. P. Shewsthe same at Tab. 35. Fig. 1.

Addus

Tibiæus

Tibeus Anticus, sive Musculus Catenæ.

His is the first of the Inflectors, whose Tendon being the bests. transversly diffected or amputated, the Patient is compelled to carry his Foot in a Sling, by the benefit of

which he is able in his passage both to lift up and inflect his Foot. This Muscle ariseth sharp and Fleshy from the uppermost Appendix of both the Focils, forwards: as also from the Ligament which binds them together, then being dilated, is nar-rowed about the middle of the Tibia, growing into a strong and round Tendon, running obliquely over the Tibia, and under the Annular I igament, and is implanted into the infide of that Os Tarfi that is before Os Pollicis.

This Muscle I conceive governeth the Foot in motion, that it

doth not squail to much outward.

This you have at Tab. 35. Fig. 2. at C. C. a. Shewing its beginning, b. Its Termination and Tendon, M. N. Shews this at Tab. 36. Fig. 1. O. Shews its Tendon.

> Ddd The

The Explanation of the Five and thirtieth Table.

FIG. I.

E. Tibiæus Posticus.

e. Shews its Origination.

f. Its Ten 'on.

G.G. Peronæus Secundus.

E. Shews its Tendon

M. Pollicem Adducens laid bare.
N. O. Two Interoffeal Mufcles.
P. Transversalis Placentini.

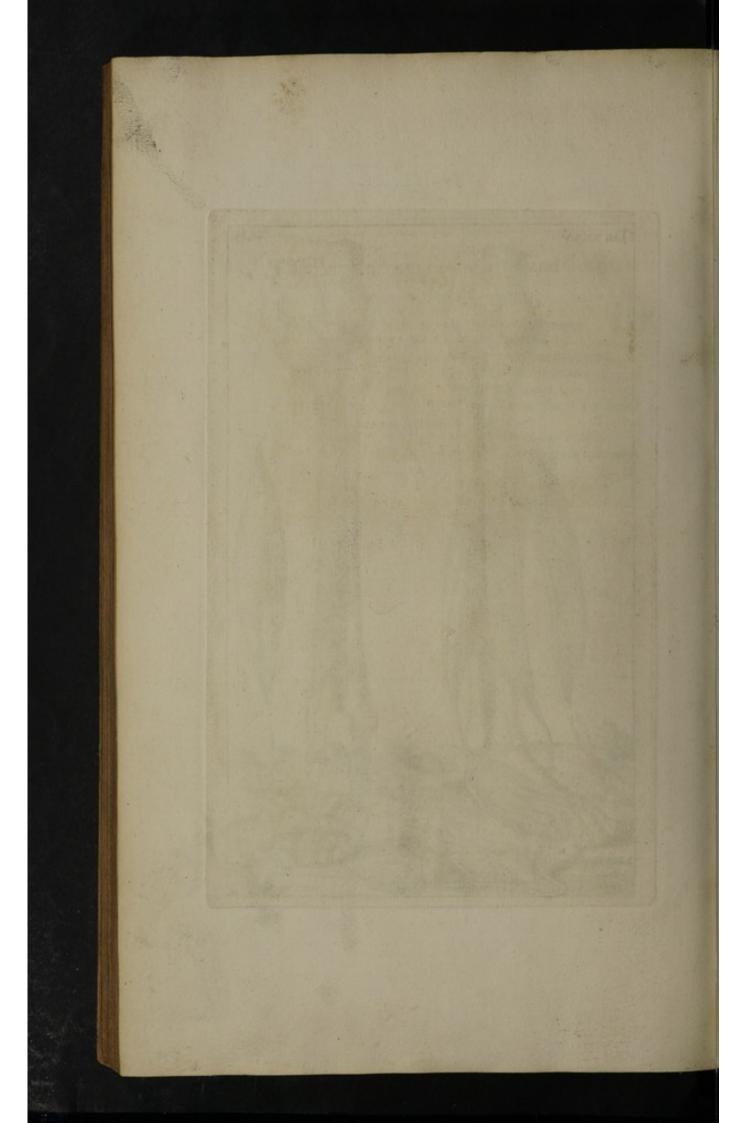
Q. Minimum Digitum Abducens.

F I G. II.

a. Shews its beginning.
b. b. Its Tendon.
H H. Peronæus Secundus.
e. Shews its Origination.
D. E. Its Tendon.
I. I. Extensor Tertii Internodii
Digitorum
K. Shews its four Tendons.
L. Extensor Secundi Internodii
Digitorum.
M. M. M. Shews its Tendon.

N. Pollicis Extensor laid bare.





Fibulæus sive Peronæus Primus, aut Posticus.

T ariseth Nervous from the upper Appendix of the Fibula, The brings and descending, it adheres to the outward part thereof, the Food being externally round, inwardly livid, next the Muscle red, and marching half way, it becomes a Tendon running obliquely backward through the Sinus under the external Malleolus, and is inserted into the Root of the Os Tarsi, that adjoyns to the Os Pollicis.

This Muscle draweth the Foot somewhat outward, and so regulateth it in Progressive Motion, that it cannot be cast too much inward.

This you have at Tab. 36. Fig. 1. at B. C. D. D. Shewing its Fleshy Belly, D. Its Tendon, V. Shews the same laid bare at Fig. 2. ejust Tab. L. L. Shews this at Tab. 34. Fig. 1. L.L. Shews the same at Tab. ejust. Fig. 2.

Pcronæ4

Peronæus Secundus five, Semifibulæus, aut Anticus.

This bends the Ancle.

His Muscle ariseth long and Fleshy from the Fibula, to which it adheres, and having made half its progress, becomes a round Tendon, running by the External Malleolus, and is implanted by two Tendons into Os Metatarfi, adjoyning to Minimus Digitorum.

This Muscle is also called Semifibuleus, it being a near neighbour to the Fibula; As also by Spigelius is named Bicornis from its double Infertion into the small Bone adjoyning to Mi-

nimus Digitorum.

CLOUSE 4

This you have at Tab. 36. Fig. 1. at E. E. F. Shewing its Tendon, I. I. I. Shews the same at Fig 2 ejustd. Tab. K. Shewing its Tendon, G. G. Shews the same laid bare at Tab. 35. Fig. 1. H. Shews its Tendon and place of its Insertion, H. H. Shews the fame at Tab. 35. Fig. 2.

Pollicis

The Explanofor Rollidis Tenfor and thirtieth

His ariseth Fleshy from the Fibula (or as Vesalius offer-This establish eth) from the outward side of the Tibia, where it the great parts from the Fibula, as also from the Ligament that joyns them, to which it strongly adheres, and so becoming a Tendon, runneth over the lower part of the Fibula, and under the transverse Ligament, and is inserted into the two Joynts, in the upper part of the Great Toe, and doth extend them directly; sometimes this Tendon is seen divided into two: one of which is inserted into the last Joynt of the Great Toe, the other into the Os Metatarsi which lies just under it.

This you have at L. Tab. 36. Fig. 1. b. Shewing its Tendon, N. N. Shews this laid bare at Fig. 2. Tab. 35. 0. Shews its Ter-

M. N. O. Tibirea Actuer . where they do note:

mination.

R. R. The Fleshy Maje from

. SS.S. Storpethe For Timbere

Eee The

L Tex fills Tender.

L. Policii Tenfor.

The Explanation of the Six and thirtieth Table.

FIG. I.

C. D. Peroneus Primus. B. Shews its strong Origination.

C. Its Venter.

D. D. Its Tendon.

E. E. Peroneus Secundus.

f. Shews its Tendon.

G. Extensor Tertii Internodii K. Shews its Tendon. Digitorum.

H. H. H. H. Shews its four Tenden .

I. Its fifth Tendon.
L. Pollicis Tenfor.

a. Shews its beginning.

b. Its Tendon.

M. N. O. Tibiæus Anticus.

M. Its Origination.

N Its Flefby Venter.

O. Its Tendon.

S. Extensor Secundi Internodii Digitorum.

FIG. II.

D. D. D. Peroneus Primus.

E. Its Tendon.

I. I. I. Peronæus Secundus.

N. Pollicis Tensor laid bare.

P. Transversalis Placentini.

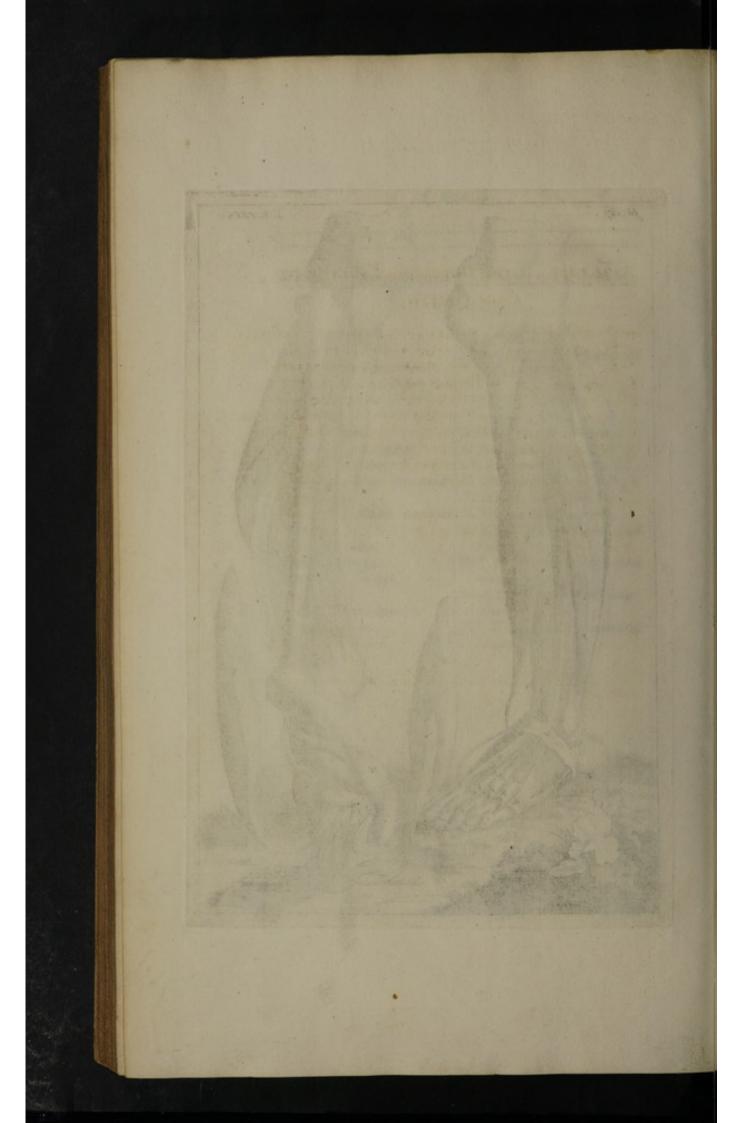
R. R. T. T. Lumbricales laid bare.

R. R. R. The Fleshy Mass from whence they do arife.

S S. S. S. Shews the four Tendons whence they do arife.

T. T. T. T. Shews their own four Tendons.





Extensor Tertii Internodii Digitorum; aut Longus.

His ariseth with a Nervous and Fleshy beginning, from the entered the outward, and forward Appendix of the Tibia formation of the Tibia and presently becoming Fleshy, and adhering to the the Tibia and Fibula, it descends directly according to the length of the Fibula, and passing under the Annular Ligament, it is divided into four Tendons, the which do terminate in the upper part of the third or last Joynt of the four lesser Toes, and so extends them.

The other Tendons are tied amongst or between themselves by a certain Membranous Ligament, where they run through or over the back of the Foot.

This you have at G. Tab. 36. Fig. 1. H. H. H. H. Shews its four Tendons, I. I. Shews this at Tab. 35. at Fig. 2. K. Shews its four Tendons.

Extensor Secundi Internodii Digitorum, aut Brevis.

This extends the second Form,

His arifeth broad and Fleshy from the transverse Ligament upon the top of the Foot, and then appears, dividing it self into sour several Muscles, which coming to the Toes, sendeth forth Tendons to the second Bone of the four lesser Toes, but chiefly to the second Joynts, where they intersect the Tendons of the former.

These two are allowed to extend the four lesser Toes.

This you have at Tab. 35. Fig. 2. at L. M. M. M. Shews its Tendons, S. Shews the same at Tab. 36. Fig. 1.

This you have at G. Tak of Fig. 1. H.H.H.E. Shows its four Tendons, A. U. Shews this at Tab. 25 at Fig. 2. A. Shews its

Interof

C. C. Flexor Secondi In- M. M. Shiner throther Majele, T. Terrar Miller Scandil Internedii Interned

E. Show the Tanker of the D. D. Orier for of the Imarefield Shows the Tanker of the Landing of t

Interofs

The Explanation of the Seven and thir tieth Table.

FIG. I.

C.C. Flexor Secundi In- M.M. Shews the other ternodii Digitorum.

D. D. D. Shews its four Tendons.

F. F. Its Tendon.

G. G. Minimum Digitum Ab- P. P. P. P. Shews its four Tenducens.

H. H. Shews its Tendon.

K.K.K. K. Lumbricales. L. L. L. L. Their four Tendons.

FIG. II.

B. The Tendon of Flexor Tertii Internodi Digitorum.

C. Shews the Tendon of Flexor Pollicis.

D. D. D. Its Flesby part.

E. E. E Its four Tendons.

F. F. F. F. Lumbricales. G. G. G. G. Their Tendons.

Muscles.

K. K. Shews its beginning.

L. One Tendon of this Muscle.

N. Flexor Secundii Internodii Digitorum laid bare.

E. E. Pollicem Adducens in fitu. O. Shews its sharp and Nervous beginning.

dons.

Q. Q. Pollicem Adducens laid

R. R. Two more of the Interof-Seal Muscles.

FIG. III.

C. C. C. C. Five of the Interoffeal Muscles.

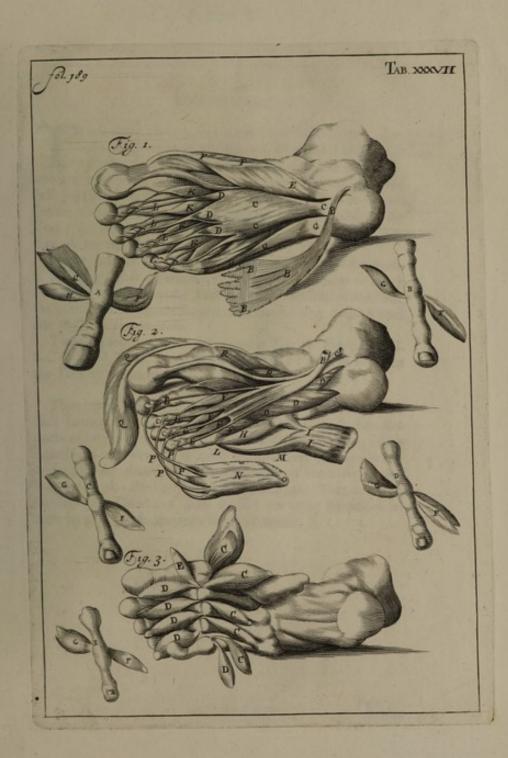
D. D. D. Other five of the Interosseal Muscles.

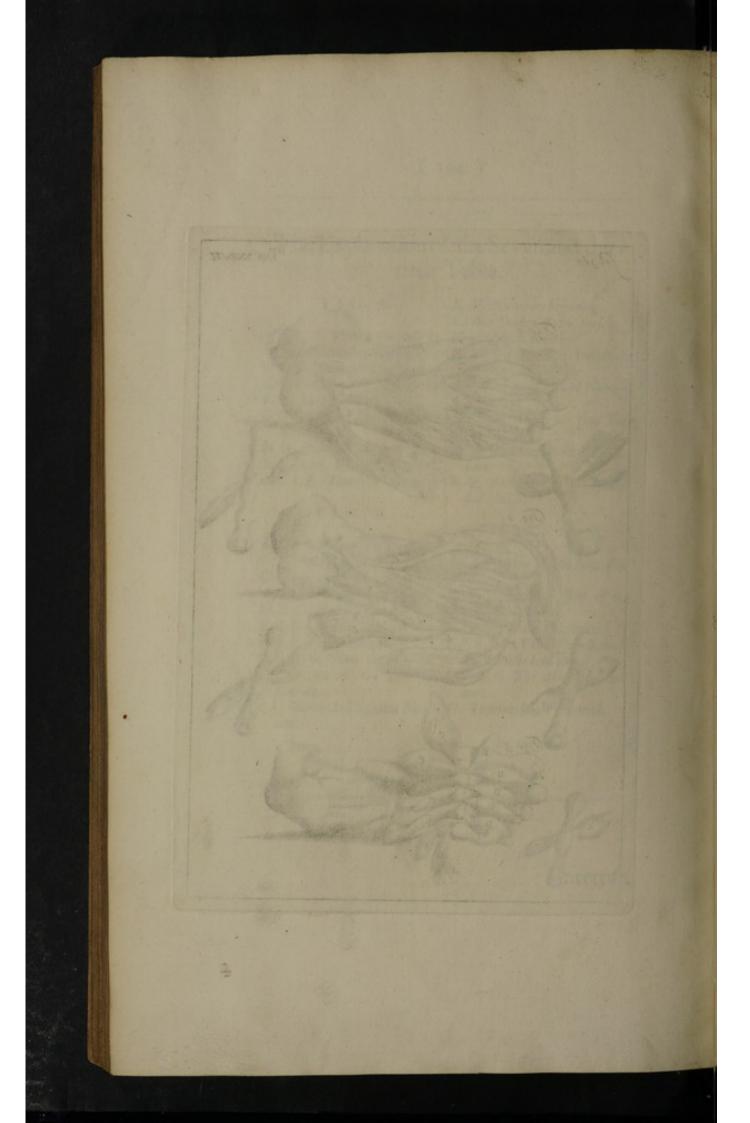
E. Transversalis Placentini.

F. F. F. F. F. Five of the Interoffeal Muscles laid bare.

H. H. Two of the Interoffeal G. G. G. G. The other five laid

I. I. Minimum Digitum Abdu- H. Transversalis Placentini.





Interoffei.

Hese have their names from their habitations; they These move dwelling amongst the Bones; These Muscles do arise lequely.

Fleshy from the sides of the Bones of the Metatarsus, and are inserted by some broad, but short Tendons, into the first Joynts of the Toes outwardly, but inwards to the second Joynts thereof. The outward working, they do abduce the Toes: the inward do adduce them; they both working together, do extend them.

In the Sole of the Foot, which by some is called Vestigium, is a Fleshy Mass observable, the which like a Pillow or Bowlster doth keep warm the Tendons of the Muscles of the Foot, the which some Anatomists, although consusedly, do joyn with the Musculus Transoversalis.

These Muscles you have delineated at Tab. 37. Fig. 3. at C C. C. C. C. D. D. D. D. D. And at F. F. F. F. F. G.G. G. G. G. in the Toes by themselves.

Thus have I concluded the whole Discourse of Muscles; all I shall farther add, is, the Enumeration of them, with their Reductions to their proper Places, Uses, and Offices, being either Relative to the Venters or to the Articulations, having already presented and drawn forth to you every of their Forms and Shapes: as also shewn their Originations and Terminations; leaving you Directions, how to find out every Muscle in its order by a proper Index made for that purpose.

 $F I \mathcal{N} I S$

Fff

This

This Table sheweth the Reduction of the Muscles each to their proper place.

Use and Part.

The Forehead is lifted up by Frontalis.

The Eyebrows, The upper Lifted up by Aperiens Retfus.
Depretted by Claudens Superior.
The nether lifted up by Claudens Inferior.

Rightly Downwards by Deprimens.
The Eyes,

Rightly Downwards by Deprimens.
Outwards by Adducens.
Outwards by Abducens.

Obliquely Downwards externally by Circumagens Exterior.

The Nose is Dilated by Primus Aperiens.

Secundus Aperiens.

Contracted by Primus Constringens.

Secundus Constringens.

(Lifted up by Attollens.

Drawn laterally by Abducens.

Drawn down by Deprimens.

(Purs'd up by Labium Constringens.

The Cheeks are Drawn down by Platy ma Myodes.
Drawn inward by Buccinator.

The nether Mandible is drawn

Upwards by Temporalis.

Downwards by Digastricus.

Laterally by Masser.

Forwardly by Pergoides Externus.

Backwards by Pergoides Internus.

The Ears which are moved

Externally Upwards by Attollens.
Downwards by Deprimens.
Forwards by Adducens.
Backwards by Abducens.
Internally By Externus.
By Internus.

In Constriction, By Lingualis.
In Dilatation Served Backwards by Geneioglossus.
Upwards by Hypsiloglossus.
Upwards by Myloglossus.
Downwards by Ceratoglossus.
Laterally by Styloglossus.

The Os Hyoides is Rightly Upwards by (Geneiohyoideus. Downwards by Sternobyoidens. moved by Obliquely Upwards by Styloceratohyoidens. Downwards by Ceracohyoidens. The Palate is Attolled by Sphenopalatinus.

Depressed by Pterygopalatinus. Dilated by Sphenopharyng aus Primus. Contracted by Cephalopharyng aus. Stylopharyng aus. The Fances area When the Thyrow is Extended by Sternoshyroidesi.
Contracted by Hothyrodesi.
While the Contracted Directly by Throspytenioidesi.
Arytensis is Extended Bightly by Throspytenioidesis.
Extended Bightly by Cricosystenoidesis Possiblesis.
Obliquely laterally by Cricosystenoidesis Lateralis. Dilated When the Thyrow is Contracted by Mastoidens if both move. Splenius or Triangularis. Trigeminus. The Head is Extended by Recti Majores. Retti Minores. Turn'd about by Cobliqui Superiores. Contracted by Scalenus. The Neck is Extended by Spinatus. (Primarily by Dilate in Sereely the Disphragms alone controlled: his proper breathing 2 Coachively Disphragms and Intercoftales Externi. Confiringe S Freely Disphragma alone relaxed.

Jin breathing 2 Conftively Disphragma and Intercollules Interni. Extended as Semissimus Dorsi. which are Serratus Minor retained in Postic. Sacrolumbus. Place by Serratus Major The Thorax (Postici. is moved Contracted as Musculi Retti.

Turn'd about by Transvers.

Abdominis. Secondarily by the Contracted by Quadratus, Lumbal Muscles Extended by Sacer.

The Abdomen is compressed Forwards by Resti.

Downwards by Pyramidales. or Sometimes by Transversi.

The Loyns are Contracted by Quadratus. Extended by Sacer.

The Testicles are raised by Cremasteres.

```
Retains by Sphintler Vesice.

Detrusor Urina.

Excreates by Pyramidalis.

Obliqui Ascendentes Abdominis.
 The Bladder
The Clitoris is Raifed by Musculi Grassiani.

Depressed by Musculus Labiorum uteri contractorum.
The Anus is Purs'd up by Sphintler Ani. Elevated by Levatores Ani.
The Penis is impro-SErected by Erectores or Directores. perly faid to be Accelerated by Accelerates.
                  Variously by Cucullaris.
The Scapula is Backwards by Levator Patientia.
moved
                 Forwardly upwards by Serratus Minor
                Forwardly upwards by Serratus Minor Anticus.
                  Forwards by Pectoralis.
                  Upwards by Octavus Humeri Placentini.
The Os Hameri Downwards by Rotundus.
                  Is carried about External Superscapularis Inferior.
Superscapularis Superior.
Nonus humeri Placentini.
is moved
                                     Internal part by Subscapularis.
                Extended by Gemellus Major.
The Cubite is
                Contracted by Biceps.
               Pronated by Zuadratus.
The Radius is
                Supinated by Brevis.
                Contracted by Flexor Carpi Interior.
The Carpus is
                Extended by Extensor Carpi Exterior.
                                    Flexor Primi
                   Contracted by Flexor Secundi Internodii.
The Fingers are Extended by Secundus Extendentium Digitorum.
                   Moved laterally by Abductor Minimi.
                                         Abductor Indicis.
                                            out Loyar are Exercical by Sour
```

gg

An

An Alphabetical TABLE of the Names of the Muscles, with the Page cited in which each Muscle is treated on.

A. Page	Page
A Periens Palpebram Reclus	Claudens Nasum Externus 30
12	Claudens Nasum Internus 31
Attollens Aurem 21	Coracobyoidens 42
	Ceratogloss 51
Abducens aurem ad Posteriora 24	Cricoathyroideus Anticus 56
	Cephalopharyngaus 59
	Cricoarytenoideus Posticus 62
Abducens Labia 33	Cricoarytenoideus Lateralis 63
Arytenoideus 64	Cremastres 79
Anconæus 103	Cuenllaris 88
Accelerator Penis 80	Cruralis 157
Adducens Pollicem, vel Adductor	Caro Minfenlosa Quadrata 105
Pollicis Major 194	Mufeuli Clitoridis 82
Abductor Minimi Digitorum Ma-	Cervicalis Descendens 151
11115 121	
Abducens Minimum Digitorum	D.
Pedis 195	Detrabens Aurem 22
	Detrufor Urina 86
В.	Diaphragma 87
	Deltois 97
Buccinator 37	Digitorum Secundi & Tertii In-
Biventer 41	ternodii Tensor 128
Biceps Humeri 58	Dorfi Longiffimus 149
Brachieus Internus 100	Dorfi Latiffemus 89
Biceps Femoris 176	Digaftricus 41
Brachiæns Externus, vel Gemel-	
lus Major 101	Figure 1
C.	Extensor Cubiti brevis sive Ge- mellus Minor
Claudens sive Semicircularis Su-	Exerting Panis
perior 12	F . C C . F
Claudens Semicircularis Inferior,	Extensor Carpi Exterior 125
fen Attollens	Extensor Carpi Interior 127
C • 4	Extensores Primi Internodii 135
	Exten-

	(211)	
	Pag	17. Samuel	Page
Extensores Secundi Intern			5
gitorum Extensores Tortii Interna	204	Trade of the second	
Extensores Tertii Interno	an Di	Handle I. C.	60
Externus Tympani auris	205	Hypfilogloffus	53
F.		I.	Vision I
Frontalis		Lucia C	
Flexor Carpi Interior	11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	micir-
Flexor Carpi Exterior	106		14
Flexor Secundi Internodii	Perfo	Internus Tympani Auris	26
ratus	108	Intercostales Interni	76
Flexor Tertii Internodii	Perfo	Interestales interne	77
rans	100	Indicem Abducens	124
Flexor Secundi Internodia		Iliseus Internus	133
licis		Interoffei Pedis	159
Flexor primus primi Inte	ernodii	Iliacus Externus	205
Pollicis	114	Andens Externus	163
Secundus	-	THE STATE OF THE PERSON	
Flexor primus fecundi Inte	115	L.	
Pollicis	116	I alimon InComing Dis.	
Flexores primi Internodia	Goie	Labium Inferius Deprimens	200
Lumbricales	117	Lingualis	35
El a	Inter-	Longus	55
rtexores Digitorum Tertii nodii Perforantes Flexor Pollicis	187	Levatores Ani	70
Flexor Pollicis			83
Flexor Secundi Internodii	Perfo-	Latissimus sive Aniscalptor	89
foratus	IOI	Levator Patientia	149
Flexor primi Internodii I	ioito-	Liquidue	91
rum, fen Lumbricales	193	Livians.	181
	173	155	
G.	10393	M.	
Geniobyoidens	40	Maffeter	38
Gneoglossus	49	Mastoideus	40
Gemellus Major	101	Mylobyo dens Riolani	48
Gemellus Minor	102	Milogloffus	50
Sluteus Major	160	Minimi Digiti Abductor	121
Intens Medius	161	Minimi Digiti Tenfor	129
duteus Minor	162		169
iracilis	171	the later the second	BAR
iasterocnemius Externus	183	N.	1
iasterocnemius Internus		Nonus Humeri Placentini	73
Marie Control	0)	Obliq	95
		Oblig	11110

(213) Page Page Supinator Radii Longus 139 Temporalis Supinator Radii Brevis 39 134 Thyroarytenoides Serratus Posticus Superior 65 137 Trigeminus five Complexus 140 Secundi & Tertii Pollicis Tenfor Transversalis Cervicis 141 132 Triceps Serratus Posticus Inferior 180 138 Tibiens Posticus Splenius five Triangularis 189 139 Transversalis Placentini 196 Spinatus Colli 142 Tibiæus Anticus Sacrolumbus 197 150 Tenfor Pollicis 201 Sacer 152 Triangularis 73 Semispinatus 153 Sartorius 170 V. Semimembranofus 177 Seminervofus 179 Vastus Externus 174 Subpoplitens. 189 Vaftus Internus 175 Spheno-palatinus Transversi Abdominis 9 Zygomaticus Riolani 32

FINIS.

What Faults are committed by the Press, the Reader is des fired to excuse, the Author's Occasions hindring him from so strict a Re-view of the whole Treatise from the Press. What Emilis are committed by the Peak, the Real eist de-field to excell, the Author's Octobious blacking him from to this? a Re-view of the whole Frenile from the Fren.

