







A

SYSTEM

() H

ANATOMICAL PLATES

of th

HUMAN BODY,

Accompanied with Descriptions, and

PHYSIOLOGICAL PATHOLOGICAL AND STREICAL OBSERVATIONS, BY

JOHN LIZARS) F.R.S.E.

ERLION OF THE ROYAL COLLEGE OF STREEDES, CORRESPONDING MEMBER OF THE MEDICAL SOCIETY OF EMPLATION OF PARIS, AS

LECTIBER OF ANATOMY AND SURGERY, EDINBURGH.

Dedicated by Peruission to

THE KING.



EDINBUR GE;

PUBLISHED BY WHALKARS, 3.81 JAMES SQUARE DANIEL LIZARS, 5.37 DAVID STREET: S.HIGHLEY 17 F. FLEET STREET AND WEBB STREET STREET AND DON

AND WICHRRY JUNEA CONTIPPER SACKVILLE STREET DUBLIN

Jean Jean



TABLE OF CONTENTS.

PART I.

,	Г	Ľ	r	R	7	2	C	'n	V	ī	Ž.	S	6	1	K	1	,	Ŧ	١١	3	'n	Ţ	1	T	T	h	Æ	t	۸	۸	ī	S	ī	7	Į	'n.	T	ñ	1	r	n	T	v	

LA	TE I.—General View of the Skeleton,	-	-	-	-	-	-	-	-	-	-	l
	II.—View of the Trunk, with Individual Ven	rtebræ an	d Ribs,		-	-	-	-	-	-	-	2
	III.—View of the Pelvis,		-	-	-	-	-	-	-	-	-	3
	IVStructure of Bone, with Fetal and Adu	lt Skulls,		-	-	-	-	-	-		-	4
	V.—Individual Bones of the Skull, -	-	2	-	÷	-	-	-	-	-	-	5
	VI.—Individual Bones of the Face, -	-	-	-	-	-	-	-	-	-	-	6
	VII.—Bones of the Upper Extremity,	-	-	-	-	-	-	-	-	-	-	7
	VIII.—Bones of the Lower Extremity,	-	-	-		-	-	-	-	-	-	8
					-							
			PAR'	Г П.								
	THE BLOOD-VESSELS	AND	NERV	ES OF	THE	HEA	D ANI	D TRU	JNK.			
PLA	TE I.—View of the Viscera of the Thorax and	Abdome	n, with t	heir Bo	od-vesse	ls and 1	Verves,	- 1		-	_	9
	II.—The Heart displayed, with the peculiar	ities of th	e Fetal	Circulat	ion,	_	_	-	-	-	-	10
	III.—The Trachea and Lungs, with the min	ute Struct	ture of a	n Arter	y and V	ein,	-	-	-	- 1		11
	IV.—Deep View of the Blood-vessels and	Nerves o	of the I	Chorax	and Abo	domen,	with a	display (of some	of the	more	
	deeply-seated Viscera of the latter C	Cavity,	-	-	-	-	-		-	-	-	12
	V Further Developement of the Blood-	vessels a	nd Ner	ves of t	he Abdo	ominal	Cavity,	with a	display o	of the I	Pelvic	
	Viscera of the Female,	-	-	-	-	-	-	-	-	-	-	13
	VI.—Section of the Female Pelvis, to exhibi	it the con	nexion o	f the Vi	scera wi	ith their	Blood-v	essels a	nd Nerv	es,	-	14
	VII.—View of the Superficial Muscles, Blood	l-vessels,	and Ner	ves of th	ne Neck	and Fa	.ce,	-	-	-	-	15
н	VIIIView of the Deeper Muscles, Blood-ve	essels, and	l Nerve	of the	Face an	d Neck,		-	-	-	-	16
	IX.—Further Developement of the Blood-ve	essels and	Nerves	of the I	Pace and	l Neck,	-	-	-	-	4	17
	X.—Still further Display of the Blood-vess	els and N	Terves of	the Fac	e and N	leck,	-	-	-		1	18
		-	D 4 13/7	***	,							
			PART									
	THE BLOOD-VESSELS AND N	ERVES	OF T	'HE U	PPER	AND	LOWI	SR EX	CTREM	ITTES	5.	
PL	ATE XI.—Blood-vessels and Nerves of the Axi	lla, Arm,	Fore-ar	m, and	Hand,	-	-	-	-	-	-	19
	XII.—Deeper View of the Blood-vessels an			Arm, Fo	re-arm,	and Ha	and,	-		-	•	20
	XIII.—Blood-vessels and Nerves of the Bac			•	-	-	-	-	-	-	-	21
	XIV.—Section of the Male Pelvis, exhibiting	ng the cor	nexion	of the V	iscera w	ith thei	r Blood-	vessels :	and Ner	ves,	-	22
	XV.—Blood-vessels and Nerves of the Th									-	-	23
	XVI.—Deep View of the Blood-vessels and	Nerves o	of the T	high, to	gether v	with tho	se of the	Sperm	atic Core	l, Testi:	s, and	
	Penis,	-	-	-	-	-	~	- 1	-	-	•	24
	XVIIBlood-vessels and Nerves on the De						ples,	- 1	-	-	-	25
	XVIII.—Blood-vessels and Nerves on the Ar		-	_			-	-	-	-	-	-
	XIX.—Blood-vessels and Nerves on the Po											124
	XX.—Deeper View of the Blood-vessels a	and Nerve	s on the	Posteri	or Aspe	ct of the	Leg, to	gether	with thos	e on the	Sola	
	of the Foot,	- '	-	-	-	-	-	-	-	-	-	25

PART IV.

MUSCLES OF THE TRUNK, WITH TWO SUPPLEMENTAL PLATES	s, ILLUS	STRAT	CIVE			
PLATE I.—Superficial Abdominal Muscles,	1111			- Pa	uges of the l	Plates 29
II.—The Deeper Abdominal Muscles,	_					30
III.—View of the still more deeply-seated Abdominal Muscles,	_			_		31
IV.—View of the Diaphragm,	-		_		-	32
V.—The Superficial Muscles of the Back and Neck,	-	-	_	-		33
VI View of the Deeper Muscles of the Back, with those of the Neck, -	-	-	-	-	-	34
VII View of the more deeply-seated Muscles of the Back, with those of the Neck,	-	-	-	-	-	3
I.—Supplement, illustrates the Surgical Anatomy of Inguinal and Crural Hernia	ı, accordir	ig to th	at grea	t mast	er of	
Surgery, Sir Astley Cooper, Bart., by whom the Dissection was made,	-	-	-	-		36
II.—Supplement, is an Interior or Abdominal View of the Surgical Anatomy of	Inguinal a	ind Cru	ral Her	nia, fr	om a	
Dissection also by the hand of Str Astley Cooper, Bart	- 0	-	-	-	-	3'
(
PART V.						
MUSCLES AND JOINTS OF THE UPPER AND LOWE	R EXT	REMIT	TIES.			
PL: TE VIII.—Illustrates the Muscles of the Thorax and Shoulder, with the Ligaments of	the Stern	um and	Clavick	e,		31
IX.—Exhibits a View of the Shoulder-joint, with the various Ligaments in the C					iscles	
of the Arm,	_	_			_	3
X.—The Superficial Muscles of the Fore-arm and Hand,	_	_	_	_		40
XI.—The Deep Muscles of the Fore-arm and Hand, with the Ligaments of the	Elbow-join	t, Wrist	-joint,	ind Joir	nts of	
the Fingers,	-	-	-			4
XIIViews of the Superficial and Deep Muscles on the Back of the Fore-arm a	and Hand,	with th	e Ligan	nents o	f the	
Elbow-joint, and Joints of the Fingers,	-	-	-	-	-	42
XIII.—The Superficial Muscles of the Thigh,	-	-	-	-	-	43
XIV View of the Deep Muscles of the Thigh, with the Ligaments of the Hip-joi	int,	-		-	-	4
PART VI.						
MUSCLES AND JOINTS OF THE LOWER EX	TREMIT	ſΥ.				
PLATE XV.—Gluteus Maximus Muscle, with the Contiguous Objects,						4:
XVI.—Gluteus Maximus, Medius, and Minimus Muscles, together with the T	ensor Va	ginæ F	emoris.	Pyrifo	rmis.	
Ohturator Internus and Gemelli, Obturator Externus, and Quadratus Fen		_	_	_	_	40
XVII.—Exterior and Interior View of the Hip-joint, with the insertions of the Ma			Joint.	These	three	
Plates, with Plate XIV. of Part V., illustrate the Surgical Anatomy of L						
Coxarius, of Fracture of the Neck of the Thigh Bone within the Capsular	Ligament	, and of	Amput	ation a	t this	
Joint, as detailed in the Descriptions,	-	-		-		41
XVIII.—Ligaments of the Pelvis,	-	-	-	-	-	48
XIX.—Exhibits an Exterior and an Interior View of the Knee-joint,	-	-	-	-	-	49
XX.—Represents an Anterior and a Postcrior View of the Interior of the Knee-jo	int, togetl	er with	a View	of son	ne of	
the Muscles of the Leg,	-	-	-	-	-	50
XXI.—Exhibits some of the Muscles of the Leg and Foot, together with the Ligam	ents of the	Ankle-j	oint, ar	nd Artic	cula-	
tions of the Toes,	-	-	-	-	-	51
XXII.—Deeper View of the Muscles of the Leg and Foot, together with some of t	he Ligame	nts of t	he Ank	le-joint	and	
Foot,	-			-	-11	52
XXIII.—Still Deeper View of the Muscles of the Leg and Foot, with some of the Lig				-	-	53
XXIV.—Represents an Anterior and Posterior View of the Ankle-joint, together wi	tn the vari	ous Lig.	nments	of the	Foot	
and Toes,	-		-	-	-	54

PART VII.

THE HUMAN BRAIN, FIRST PORT

LATE I General View of the Nervous System, representing the Cerebrum, Cerebellum, Spinal Marrow, and Spinal Nerves,	
with their Blood-vessels,	55
II.—Lateral View of the Cerebrum, Cerebellum, and Cervical Portion of the Spinal Marrow, with the Nerves issuing	
from the latter, and several of the Blood-vessels of the Cerebrum and Cerebellum,	56
IIIView of the Dura Mater, with the Middle Meningeal Artery, and Superior Longitudinal Sinus; together with a	
representation of the Convolutions of the Right Hemisphere, the Tunica Arachnoidea and Pia Mater, and also	
the Blood-vessels,	57
IV.—Section of the Right Hemisphere of the Cerebrum, in level with the Corpus Callosum, so as to exhibit the latter	
with its Arteries, the Falx Cerebri with the Superior and Inferior Longitudinal Sinuses, and the Cineritious	
and Medullary Substances of the Brain,	58
VHorizontal Section of both Hemispheres of the Cerebrum, parallel with the Corpus Callosum, so as to exhibit the	
Centrum Ovale Vieussenii. Perpendicular Section of the Cerebellum, representing the Arbor Vitæ, Fourth	
Ventricle, Valve of Vieussens, and Corpora Quadrigemina. Section of the Medulla Oblongata, to represent	
the Columns of the Spinal Marrow,	
VI.—Lateral Ventricles cut open to show their three Cornua, and the various bodies contained therein, also their	59
Septum and Foramen of Cummunication,	60
VII.—Illustrates various portions of the Brain, as the Septum Lucidum, the Fornix, the Choroid Plexuses, the Velum	
Interpositum of Haller, the Corpora Striata, the Thalami, the Commissura Mollis, the Anterior and Posterior	
Commissures, the Third Ventricle, the Pineal Gland, the Corpora Quadrigemina, the Infundibulum, the Pituitary	
Gland, and the several Cerebral and Cerebellic Nerves,	61
PART VIII.	
THE HUMAN BRAIN, SECOND AND CONCLUDING PORTION.	
LATE VIII.—View of the Corpora Striata, Thalami, Pineal Gland, Corpora Quadrigemina, and the Tentorium Cerebelli,	62
IX.—View of the Corpora Striata, Thalami, Pillars of the Fornix, Anterior and Posterior Commissures, Pineal Gland,	
Corpora Quadrigemina, Inferior Cornu of Lateral Ventricle, Cerebellum, with Division of Superior Longitudi-	
nal into the two Lateral Sinuses,	63
X.—View of the Basis of the Brain, with the different Cerebral and Cerebellic Nerves, together with the Branches of	
the Internal Carotid and Vertebral Arteries,	64
XI.—View of the Interior of the Basis of the Skull lined with the Dura Mater, showing its Duplicatures, the Pituitary	
Gland, and the emergence of the various Cerebral and Cerebellic Nerves; and also the entrance of the Internal	
Carotid and Vertebral Arteries, with the different Sinuses,	65
XII.—Six figures illustrating various portions of the Brain, as the Spinal Cord; Tuber Annulare, and Medulla Oblon-	
gata; section of Cerebellum showing Corpus Dentatum; Section of the Cerebrum and Cerebellum, showing	
the Thalami, Corpora Striata, and Corpus Niger; Spinal Cord, with the Tuber Annulare, Thalami, and Cor-	
pora Quadrigemina; Occipital Bone and Cervical Vertebræ, showing the entrance of the Vertebral Arteries,	66
XIII.—View of the Basis of the Brain, to illustrate the course of the Medullary Fibres,	67
XIV.—Perpendicular Section of the Cerebrum, Cerebellum, and Medulla Oblongata, illustrating the course of the	
Medullary Fibres, the Fifth Ventricle, the Third Ventricle, the Iter à Tertio ad Quartum Ventriculum, the	
Commissura Magna, the Commissura Anterior, Commissura Posterior, the Fornix, the Velum Interpositum,	
the Vena Magna Galleni, the Torcular Herophili, the Superior Longitudinal Sinus, and the Internal Carotid	
Artery, with some of its branches,	00
XV.—View of the Superficies of both Hemispheres, representing the various convolutions,	68
AV.—View of the Superficies of both Treinispheres, representing the various convolutions,	69
PART IX.	
THE ORGANS OF SENSE, &c.	
PLATE I.—View of the Muscles of the Pharynx and Larynx,	70
II.—View of the Pharynx and Larynx,	71

TABLE OF CONTENTS.

	6.1.1	.	1.7				Pages of the	e Plates.
PLATE III View of the Pharynx and Larynx, together with the Muscles	ot the I	ralate, a	and L	igaments	of the	Atlas and	I Den-	70
tata, and Inferior Maxilla,	ale ale a N	- []	- Cale	Dalata an	- d Class	.aca	37	72
1V.—View of the Muscles and Cartilages of the Larynx, together wi	ith the M	i uscies c	n the	r arate, an	u Gian	ius or the	mouth,	
V.—Illustrates various views of the Nostrils,	- M:11	- N		•	-		-	74
VI.—Also represents several views of the Nares, and the Superior	Maxina	ry Nervo	e,	-	-	-		75
VII.—Exhibits the Structure of the Tongue in several views,	-			_	•	-	-	76
VIII.—Represents the Organ of Hearing in Sixteen Views,	1		-	-	-	-	•	77
IX.—Also Illustrates the Organ of Hearing by a multiplicity of Vi	ews,				-	-	-	78
X.—Exhibits Four Views of the Eye,	-	-	-		•		-	79
PART X.				,				
THE ORGANS OF SENSE, AND VISCERA OF	THE	тнон	RAX	AND A	BDO	MEN.		
PLATE X1.—Three views of the Muscles and Nerves of the Eye,	-		-		-	-	-	80
XII.—Exhibits sixteen views of the Blood-vessels, Coats, and Hum	ours of t	he Eye,		~	-	-	-	81
XIII.—Represents four views of the Organ of Touch,	-	-		-	-		-	82
XIV.—View of a Lateral Section of the Thoracic and Abdominal Vi	scera,	-	-	-	_		-	88
XV.—Back view of the Thoracic and Abdominal Viscera,		-	-		-	-	-1	84
XVI.—Illustrates the Liver, Pancreas, Spleen, and Stomach,	-	_	-	-	_			88
XVII.—The structure of the Liver, Gall-bladder, Stomach, and Duoc	denum r	epresent	ed,	-	-	-		86
XVIII.—The structure of the Ileum and Colon represented.	-	-	-		-	-	-	87
PART XI.								
	AND	TOTO N. A	T T2	ODCIAN	ic or	CENE	ND A TINE	037
ABDOMINAL VISCERA, TOGETHER WITH THE MALE	AND	r EMA	TILL	ORGAN	a Or	OENE	MAID	ON.
PLATE XIX.—Illustrates the Structure of the Jejunum and the Kidney,	-	-	-	-	-	-	-	88
I.—View of the Male Organs of Generation,	-	-	-	-	-	-	-	89
11.—View of the Male Organs of Generation,	-	-	-	-	-	-	-	90
IIIExternal View of the Female Organs of Generation,	-	-	-	~	-	-	-	91
IV:-View of the Muscles of the Female Organs of Generation,		-	-	-11	-	-	-	92
V.—View of a Lateral Section of the Female Organs of General	tion,	-	-		-	-	-	93
VI.—Illustrates the Structure of the Urinary Bladder, the Vagin	na, Clito	ris, Ute	rns,O	varium, a	nd Rec	etum,	-	94
PART XII.								
GRAVID UTERUS, AND I	LYMPE	IATIC	s.					
DI ATTE VII. View of the Guarid Heaves in situation							1	95
PLATE VII.—View of the Gravid Uterus in situation,								96
VIII.—View of the Pleasants and several Ove at different parieds								97
IX.—View of the Placenta, and several Ova at different periods,								98
X.—View of the Lymphatic Vessels of the Lympa Extrapity					0.			99
IX.—View of the Lymphatic Vessels of the Upper Extremity,								100
XII View of the Lymphatic Vessels of the Lower Extremity								101
XIII.—View of the Lymphatic Vessels of the Lower Extremity,								,

TO THE KING.

SIRE,

The voice of antiquity, the nature of disease, the casualties of ordinary life, and the hazards of war, all conspire, with the dictates of sound philosophy, in enforcing the claims of Anatomy and Physiology, as the basis of a successful system of Medicine and Surgery. It is natural, and an act of duty in me, therefore, to desire, that labours intended, and, I trust, calculated, to promote the interests of a practical science, in which, not only Your Majesty's Subjects, but likewise, all the nations of the earth, are essentially and deeply concerned, should receive a due portion of countenance and favour from a Monarch, equally distinguished, by anxiety for the welfare of his People, and estimable, even above the dignity of his exalted station, for the judicious and effectual encouragement of every undertaking and institution, the benefits of which, like the influences of the sun, are common to the human race.

To Your Majesty alone, could admiration, sense of propriety, feelings of loyalty, and generous ambition, unite, in prompting me to look for an adequate Patron; because, from Your Majesty alone, could I hope to obtain, at once, the benevolent pardon of all unintended imperfections, the praise which ennobles success, and the sanction which extends utility.

Sire, You will graciously permit me to assign a very imperative reason for presuming to solicit the notice of Your Majesty. I am emboldened, by the highest of all obligations, to avail myself of the appearance of this work, to suggest the necessity for speedily adopting some measures, in behalf of the science, to the advancement of which it is conscientiously devoted. It is impossible for me, or for any other teacher, in this department of professional education, not to regret, most painfully, that, through the increase of certain prejudices, as illiberal as they are alien to true philanthropy, obstacles are daily arising, in

Your Majesty's United Kingdoms, to the prosecution of Anatomy. It is equally impossible not to believe, what ample observations demonstrate, that the magnitude, to which they have already attained, is, in its infallible and invincible operation, signally and seriously injurious to Your Majesty's Subjects, both in the public service, and in all the ranks of private society. Many more of these, than unsuspecting benevolence could have imagined, are doomed, it were easy to prove, to a premature grave, by the consequent deficiency in this requisite science, on the part of those to whom the care of life and health is committed: And, I will state, most respectfully, to Your Majesty, in evidence of this alarming truth, well-known and universally deplored, as it is, in the Schools of Medical Learning, one circumstance, of political importance enough, independently of humane considerations, to justify the freedom which I thus assume.

In France, in Germany, and in Denmark, the prosecution of Anatomy is protected by their respective Governments; and, in them, every facility is afforded for its complete and satisfactory study. Hence, in great degree, it is, that, of late years, such of the medical youth, among Your Majesty's Subjects, as are enabled by their circumstances, proceed to these foreign Kingdoms, in search of information of the most valuable kind,—being compelled thereto by the dread of entering on the practice of their profession, while ignorant of some of its fundamental principles, and of having, through the unavoidable fault of a merely British education, to collect by repeated failures in their treatment of the living, that knowledge which they might have early, and safely, and ably, acquired, from intimacy with the dead.

Sire, I cannot doubt, that, Your Majesty, impressed with a sense of the awful responsibility and agonizing duties of medical men, will be most graciously pleased to recommend the subject of their effective and thorough instruction, in this claimant particular, to the serious attention of Your Majesty's wise and liberal Ministers, with a view to the accomplishment of what science points out as desirable, and what the calamities of mankind decide to be necessary.

That Your Majesty may long live to witness, with delight, the beneficial results of such cogently called-for interference, and to receive, on this account, as for every other act of a patriotic, an enlightened, and a prosperous government, the heartfelt thanks and blessings of a grateful because a fortunate people, is the fervent prayer of,

SIRE.

Your Majesty's

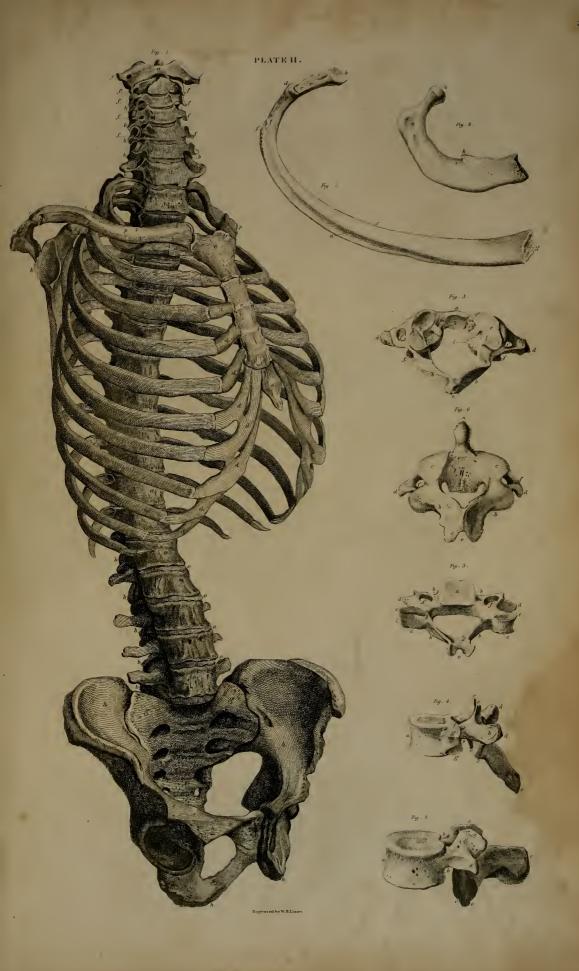
Most devoted, very humble, and faithful

Subject and Servant,

JOHN LIZARS.

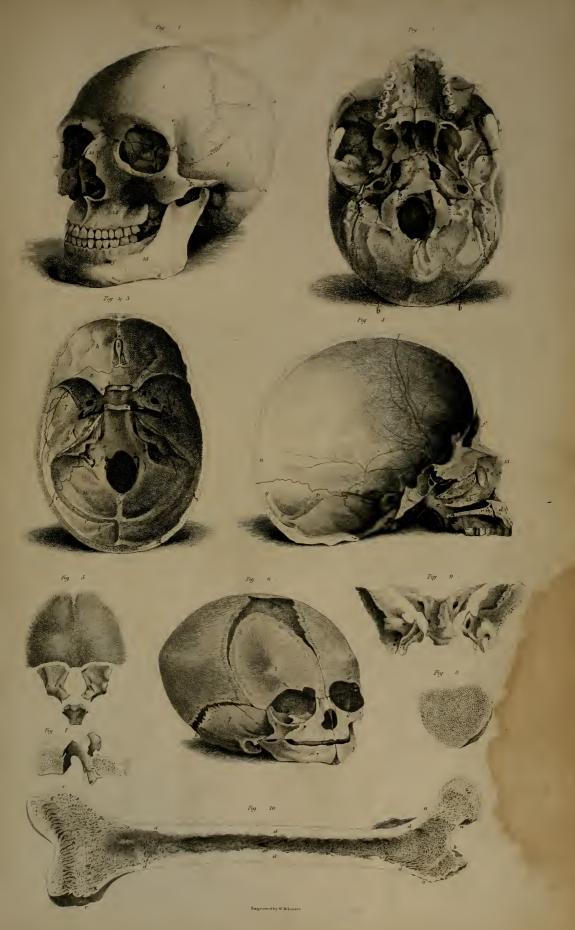




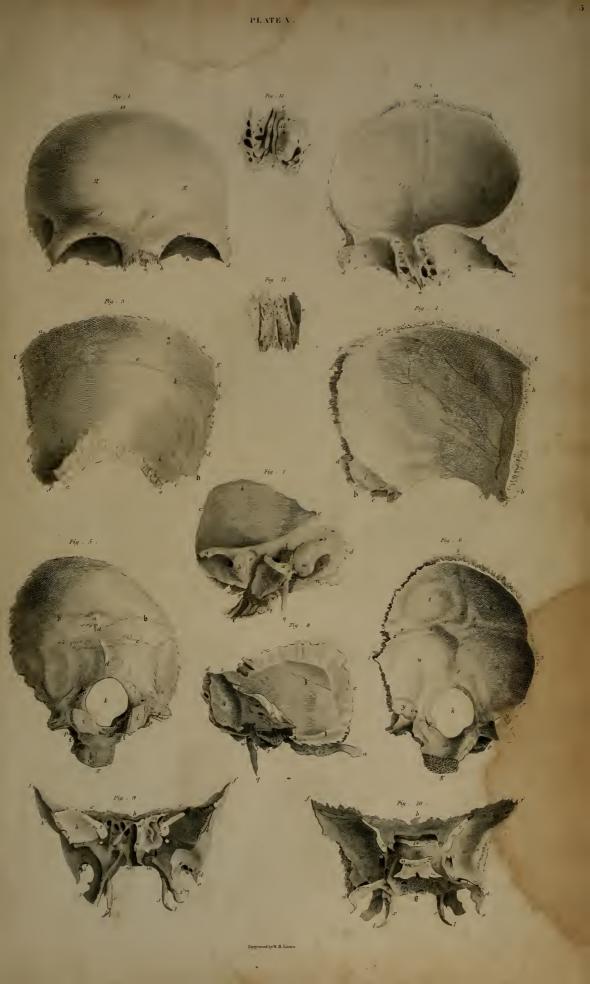


















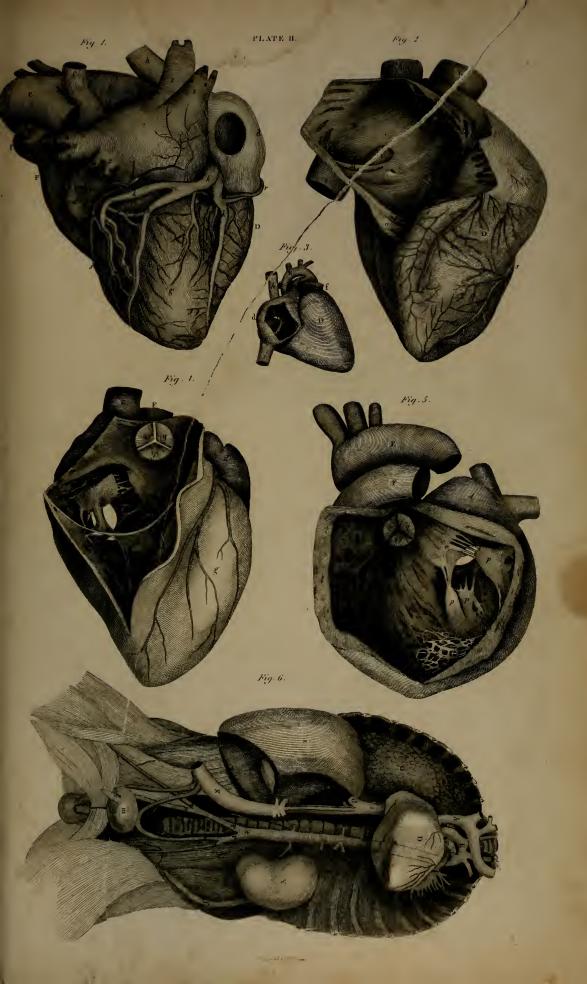






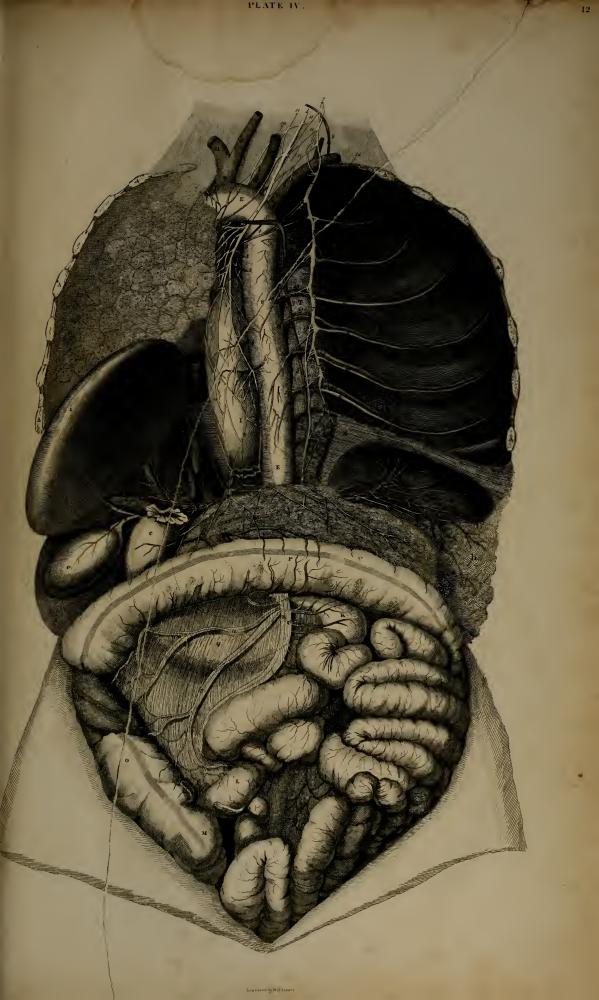




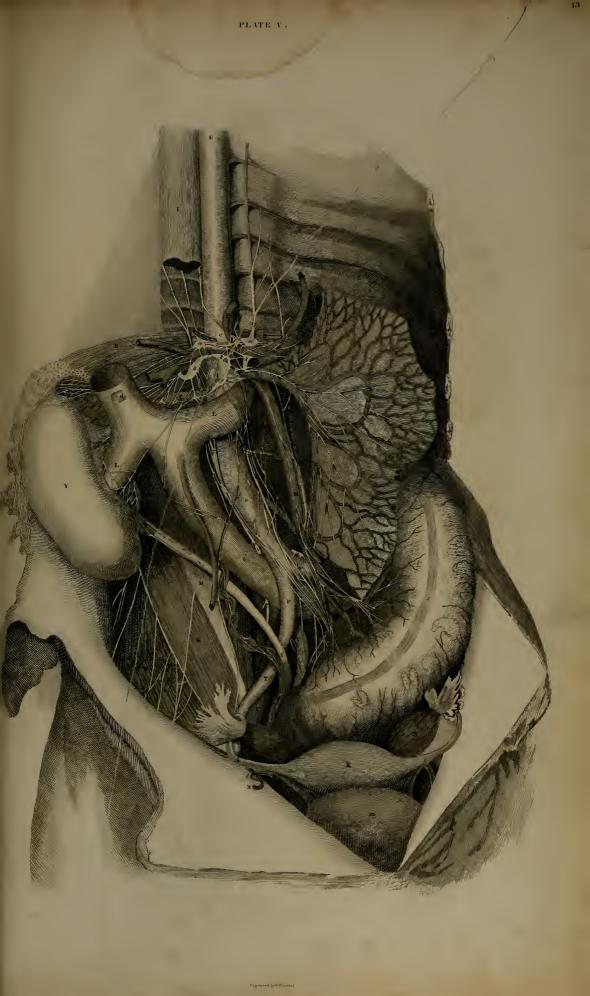






































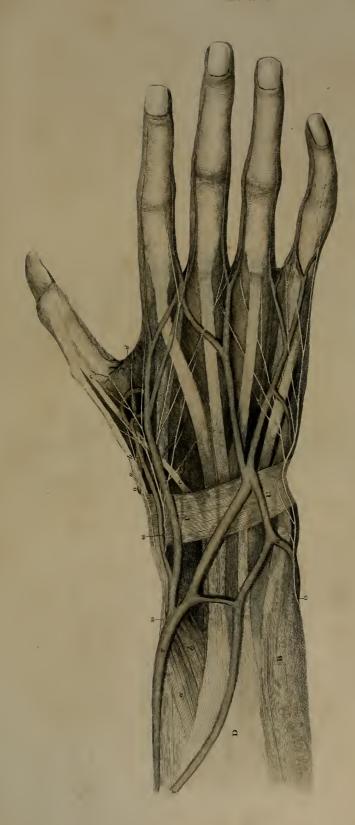
















PLATE XVIII

















































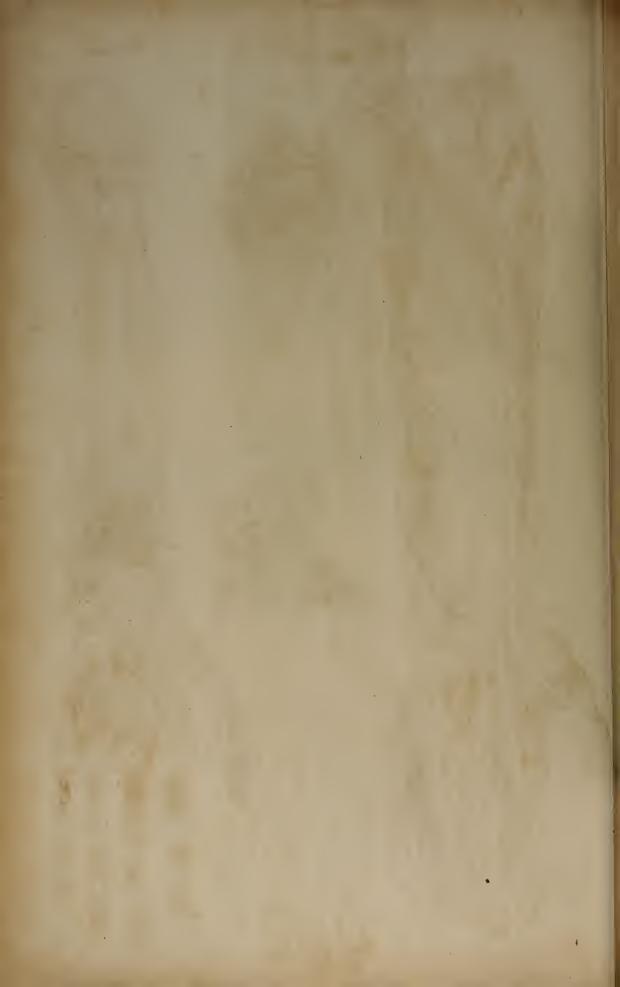








ment by Will time





























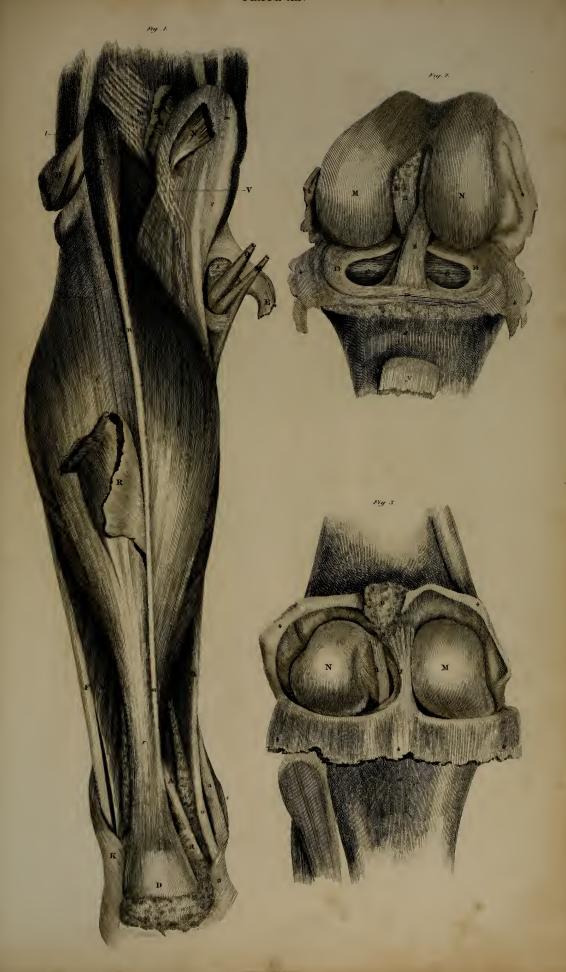
























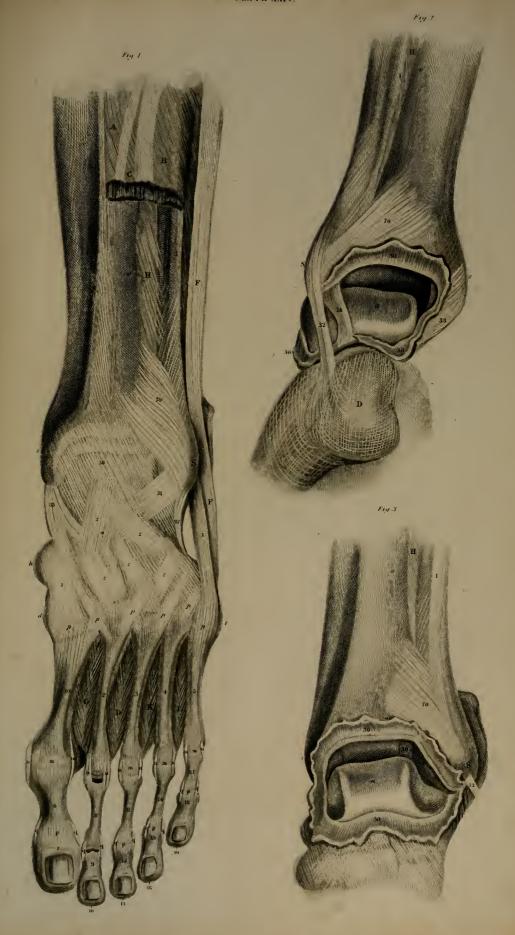












PLATE III.

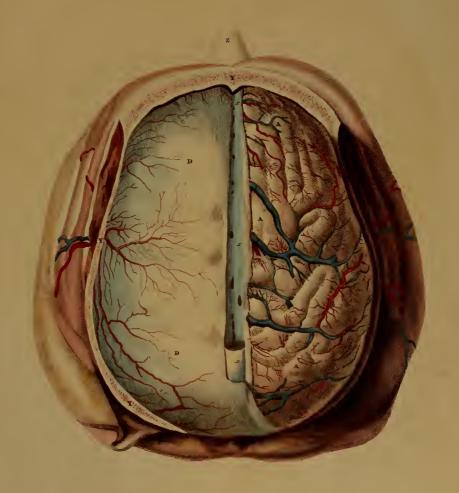




PLATE IV.









PLATE VI.





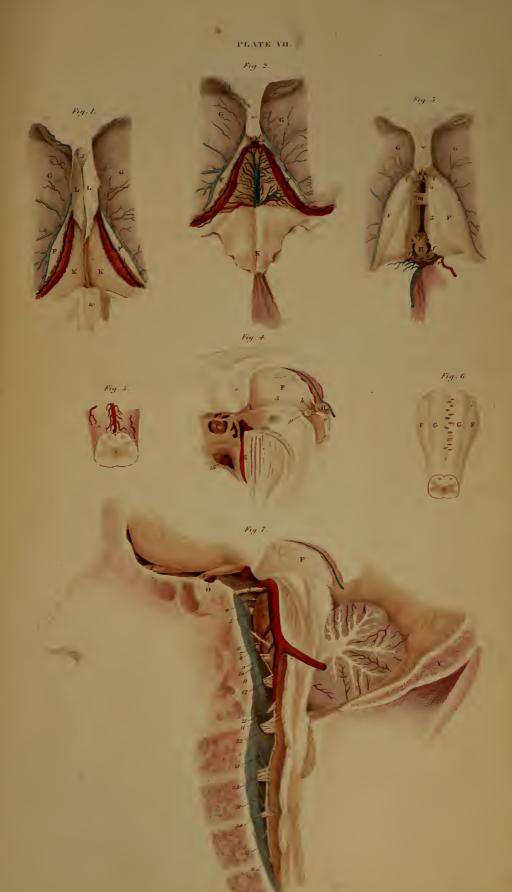




PLATE VIII





PLATE IX





PLATE X









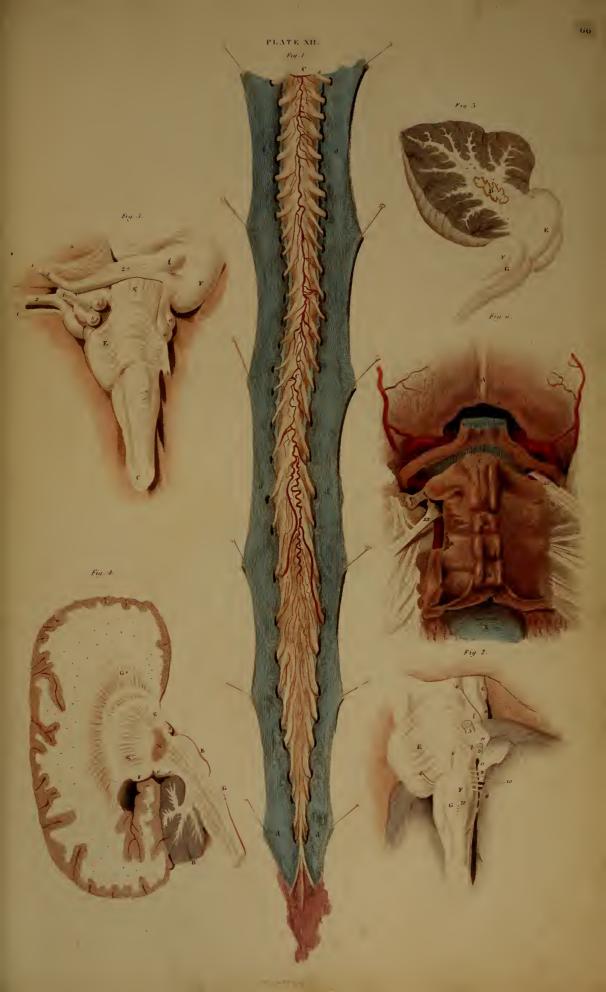




PLATE XIII



















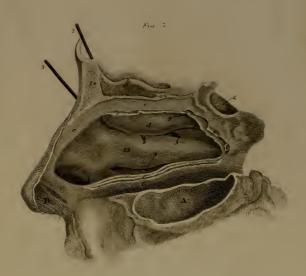


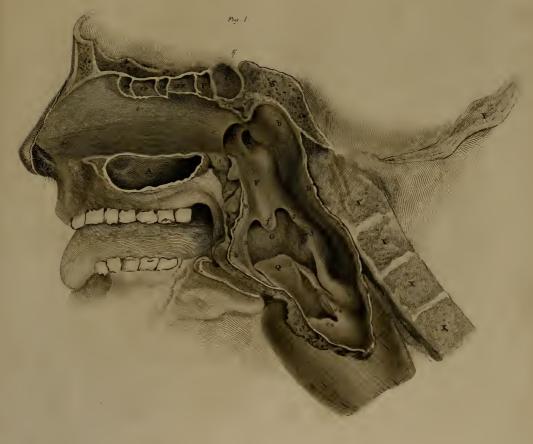






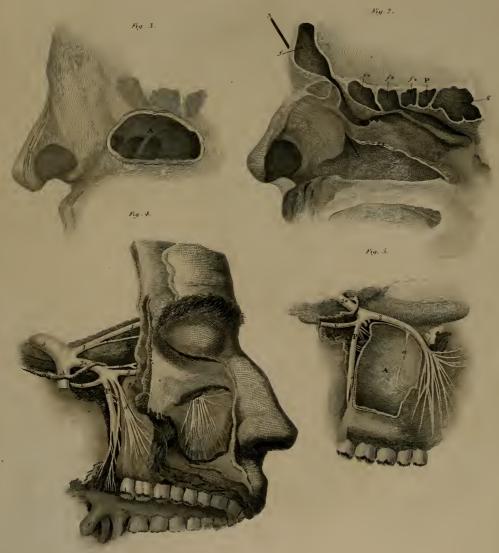




























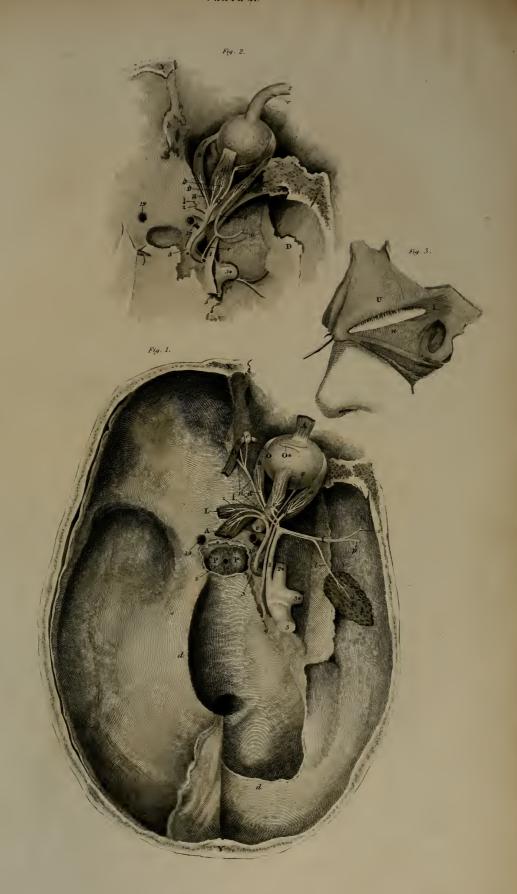








0.0





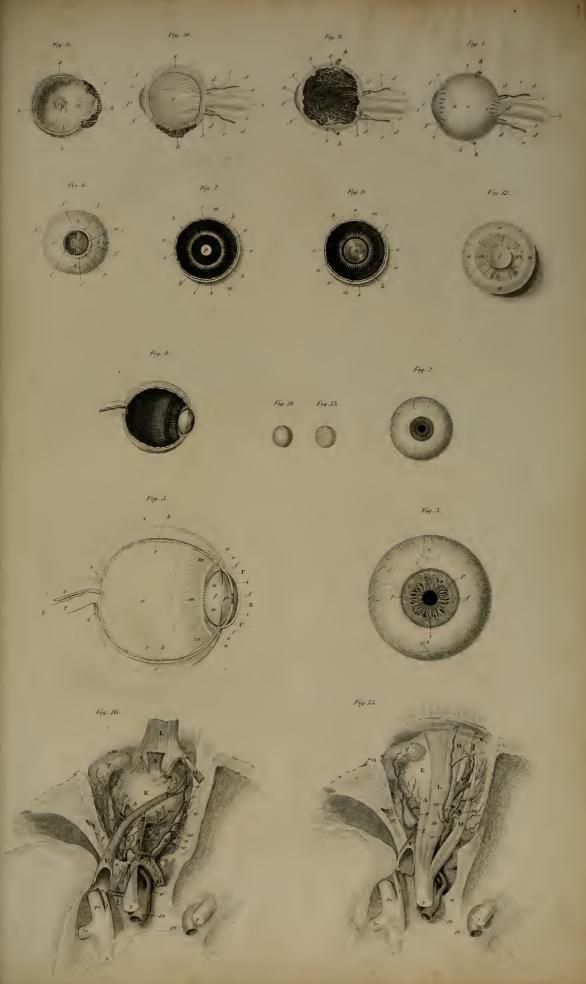










Fig. 4.

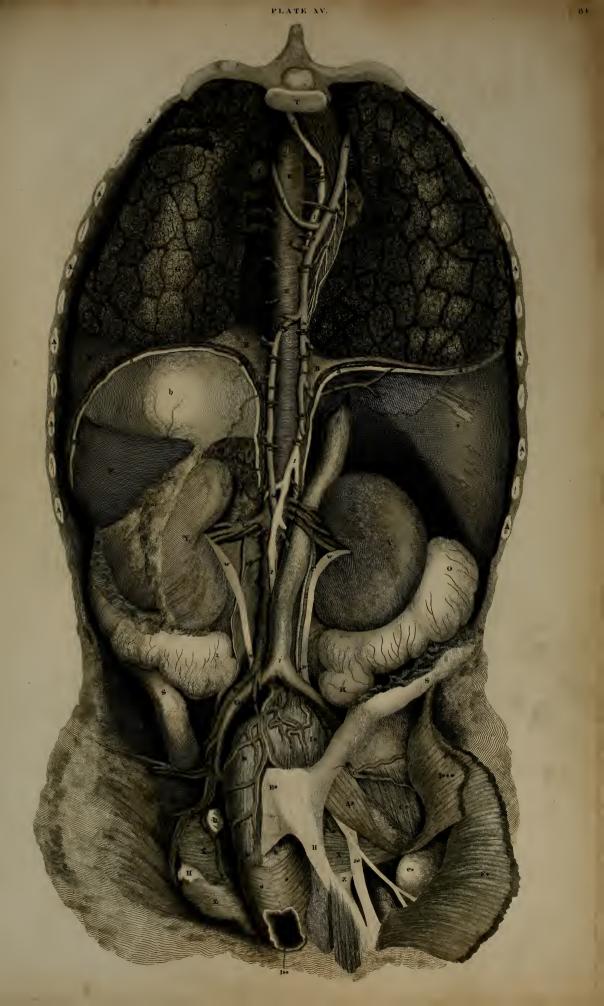


Fig. 2.







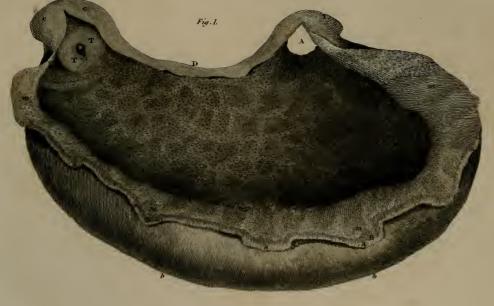








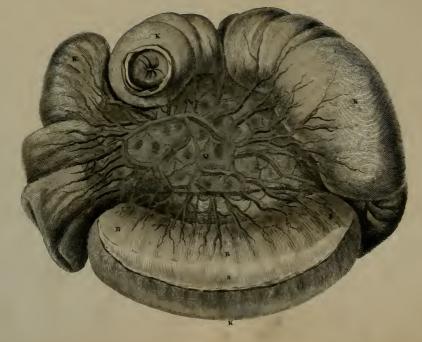




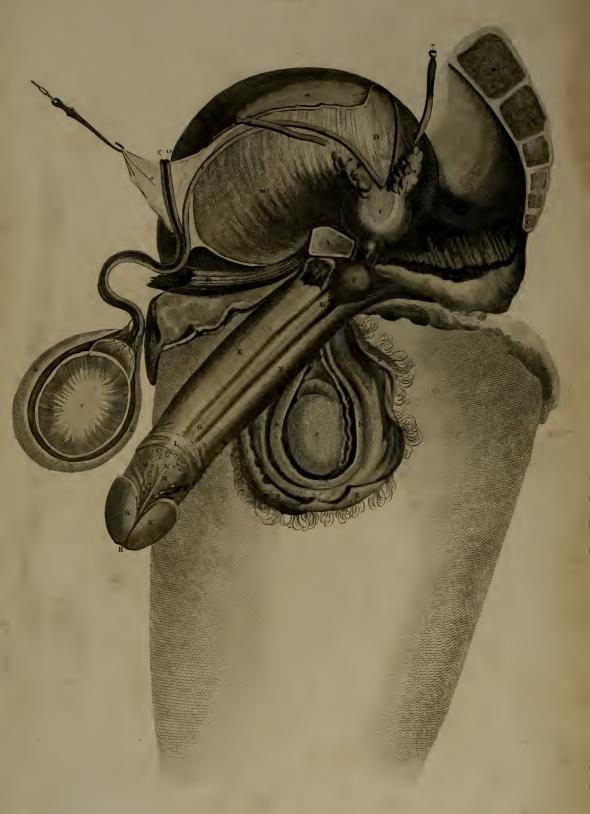








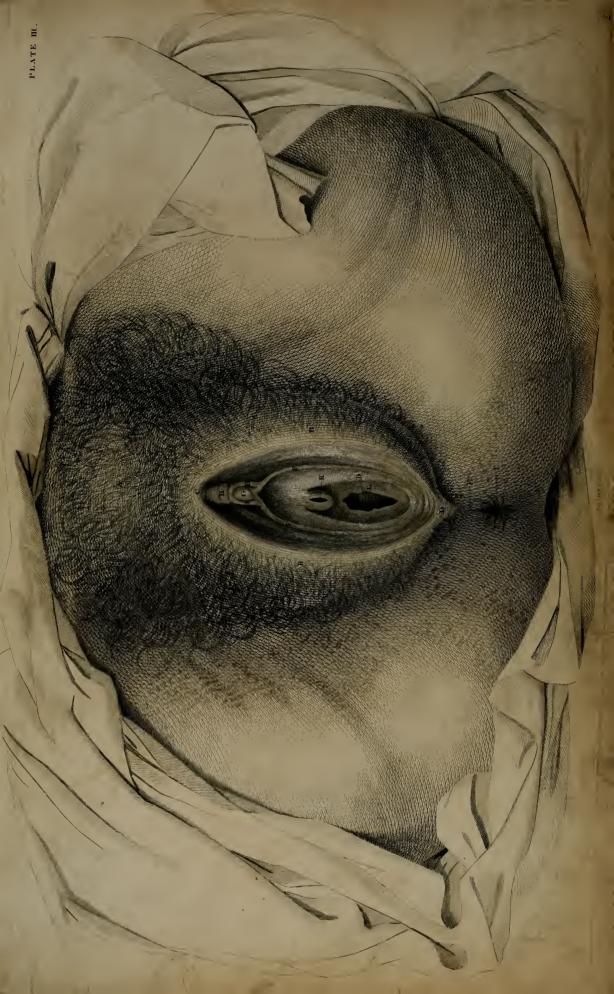




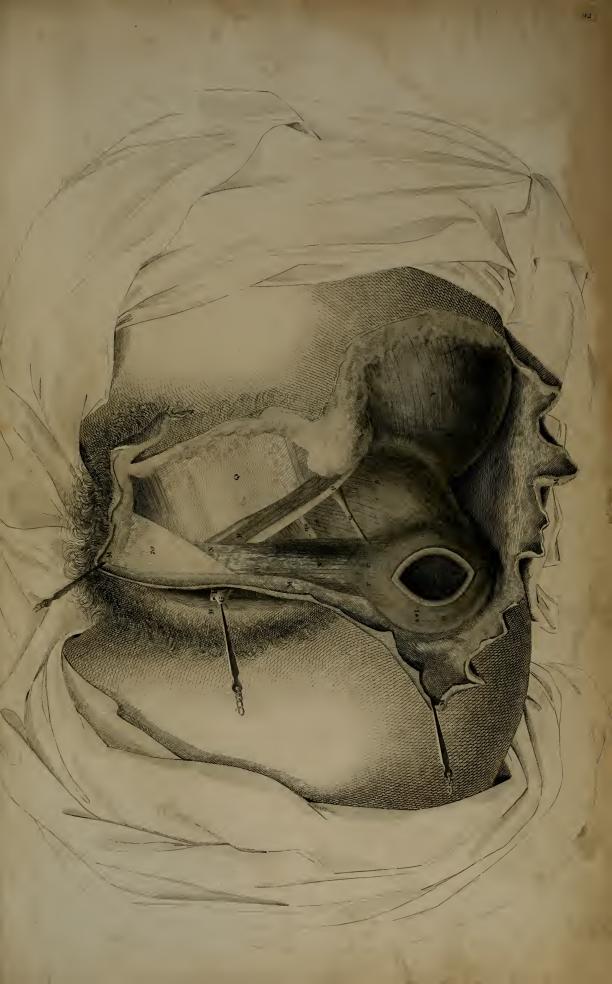






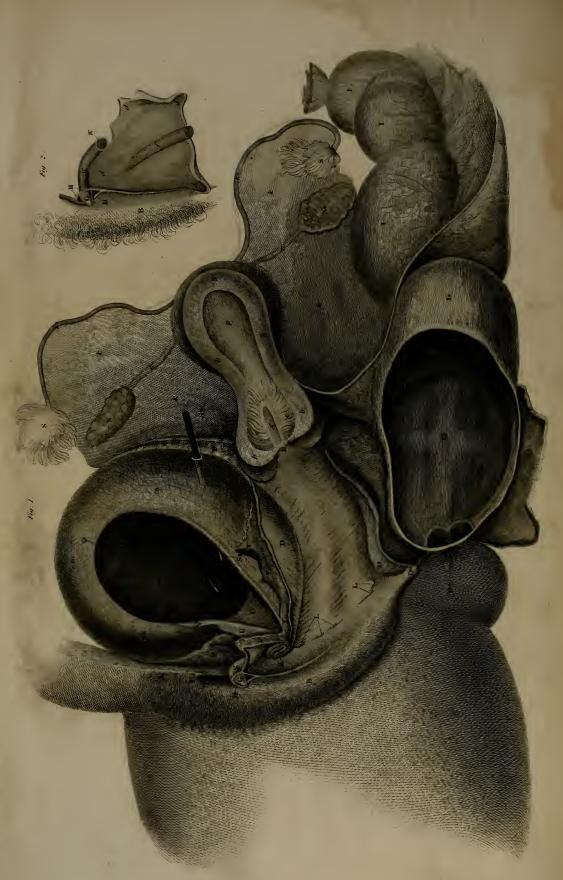










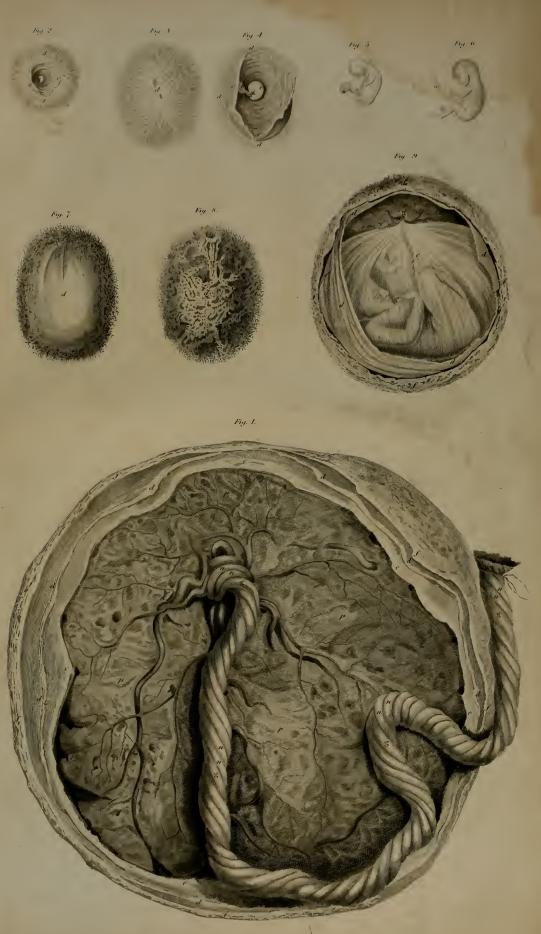




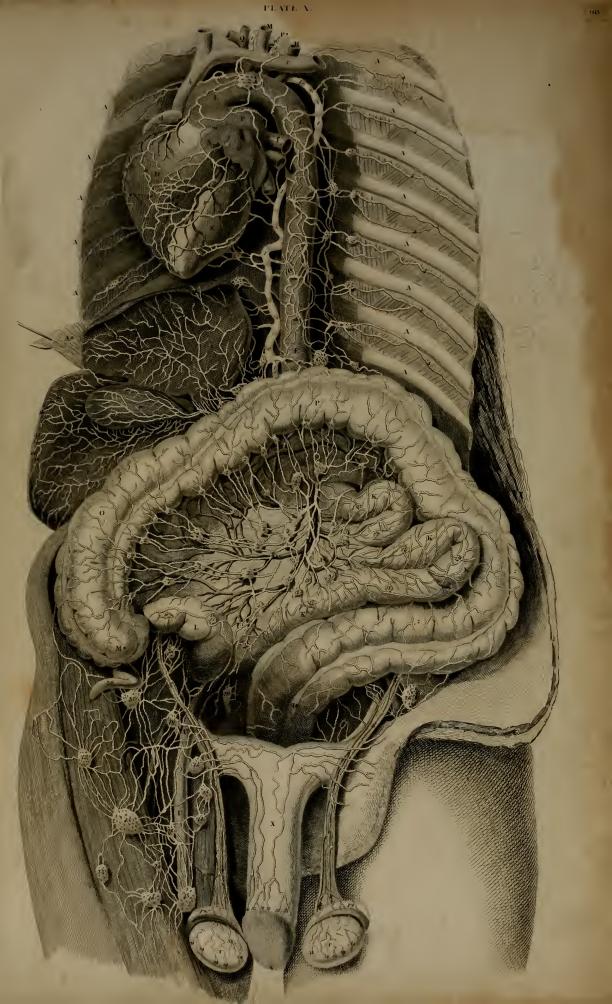


















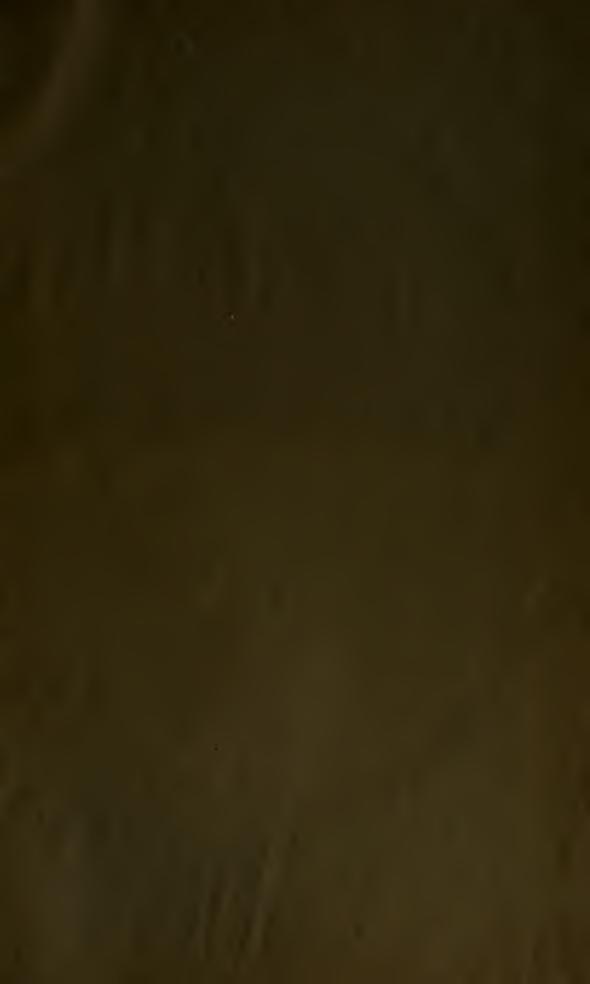




101







3 9999 05493 498 7



