Illustrations of surgical anatomy, with explanatory references; founded on the work of M. Blandin ... Engraved under the direction of the editor, by Messrs. James and John Johnstone / by John G. M. Burt.

Contributors

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Illustrations

SURGICAL ANATO

with explanatory references;

HOUNDED ON THE WORK OF M. BLANDAN;

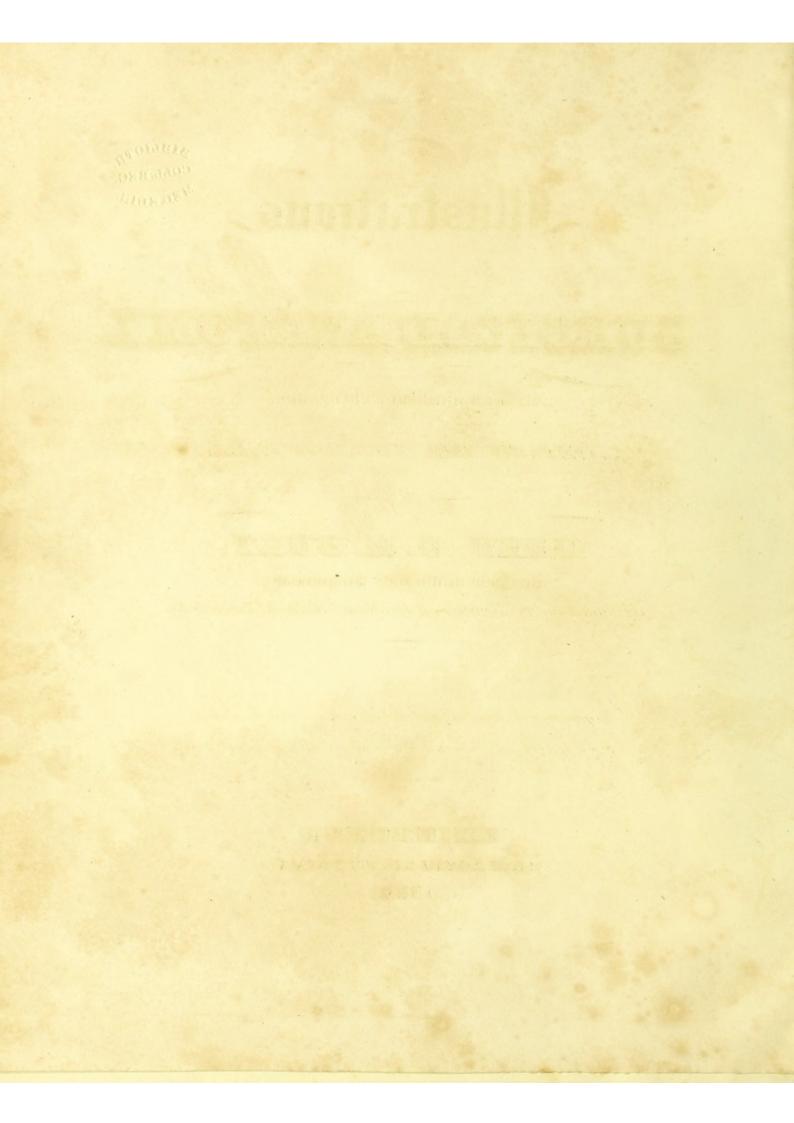
BY .

JOHN G. M. BURT,

Surgeon to the City Dispensary. Extraordinary Member of the Royal Medical Society: &c.

Engraved, under the direction of the Editor. by Mels " James & John Johnstone.

EDINBURGH, MACLACHLAN & STEWART, 1831.



то

SIR JAMES M'GRIGOR, M. D.

DIRECTOR-GENERAL OF THE MEDICAL DEPARTMENT OF THE ARMY

fr. fr. fr.

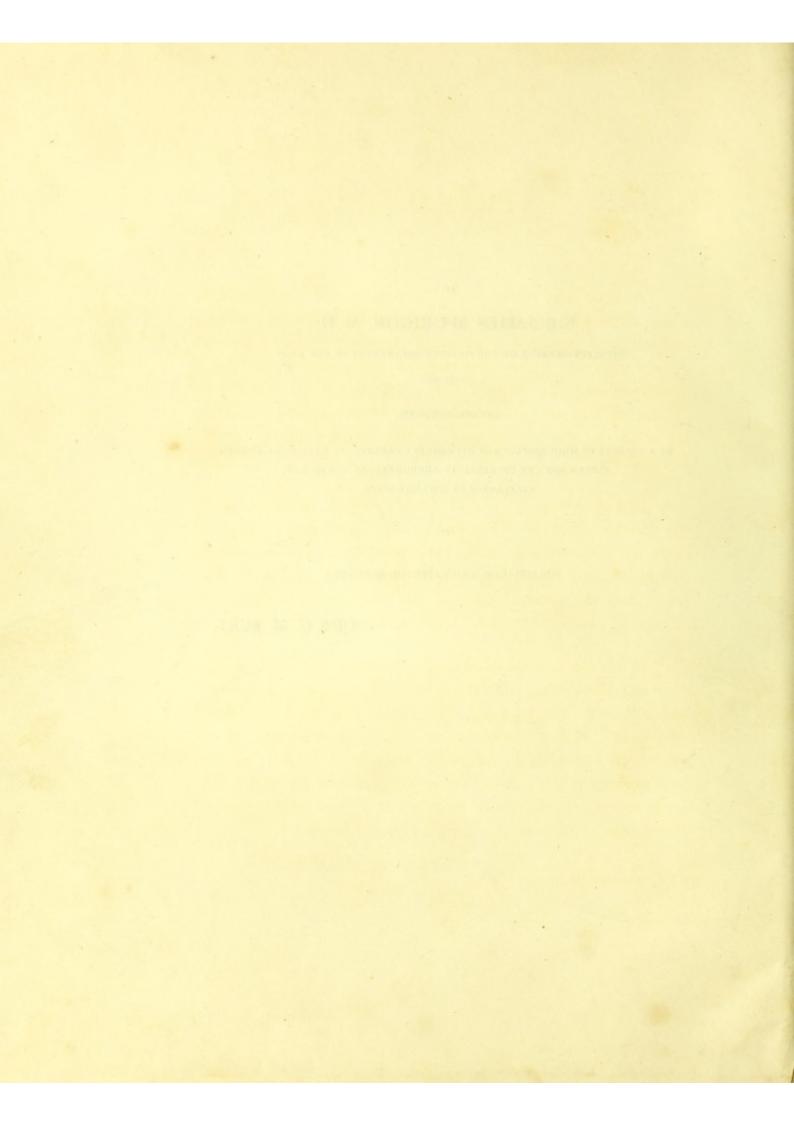
THIS WORK IS DEDICATED,

AS A TRIBUTE OF HIGH RESPECT FOR HIS EMINENT TALENTS, AS WELL AS OF SINCERE ESTEEM FOR THE UNIVERSALLY ACKNOWLEDGED WORTH AND EXCELLENCE OF HIS CHARACTER,

BY

HIS OBLIGED AND FAITHFUL SERVANT,

JOHN G. M. BURT.



PREFACE.

AMONG the many useful and valuable works which have appeared in this country, illustrative of various branches of medical science, it appears rather extraordinary that one upon Surgical Anatomy should still be a desideratum. To supply this want has been the object of the Editor in publishing the following Illustrations, founded on the much and justly-admired work of M. BLANDIN.

In the progress of the undertaking, it occurred to the Editor that M. BLANDIN's arrangement might be materially improved, and some additional Plates added, to render the illustrations more complete ;—this he has done, and also accommodated the letter-press to the most approved nomenclature of our medical schools.

With these explanations he submits the work to the Medical Profession, trusting that it will prove acceptable; and he begs to add, that, from the high character of Messrs J. & J. JOHNSTONE, the engravers, he feels quite confident that the plates will be executed in the best style; while, from the arrangements he has made with them, the expense will be such as to put it within the reach of all who may desire to obtain it.

EDINBURGH, 1st December 1830.

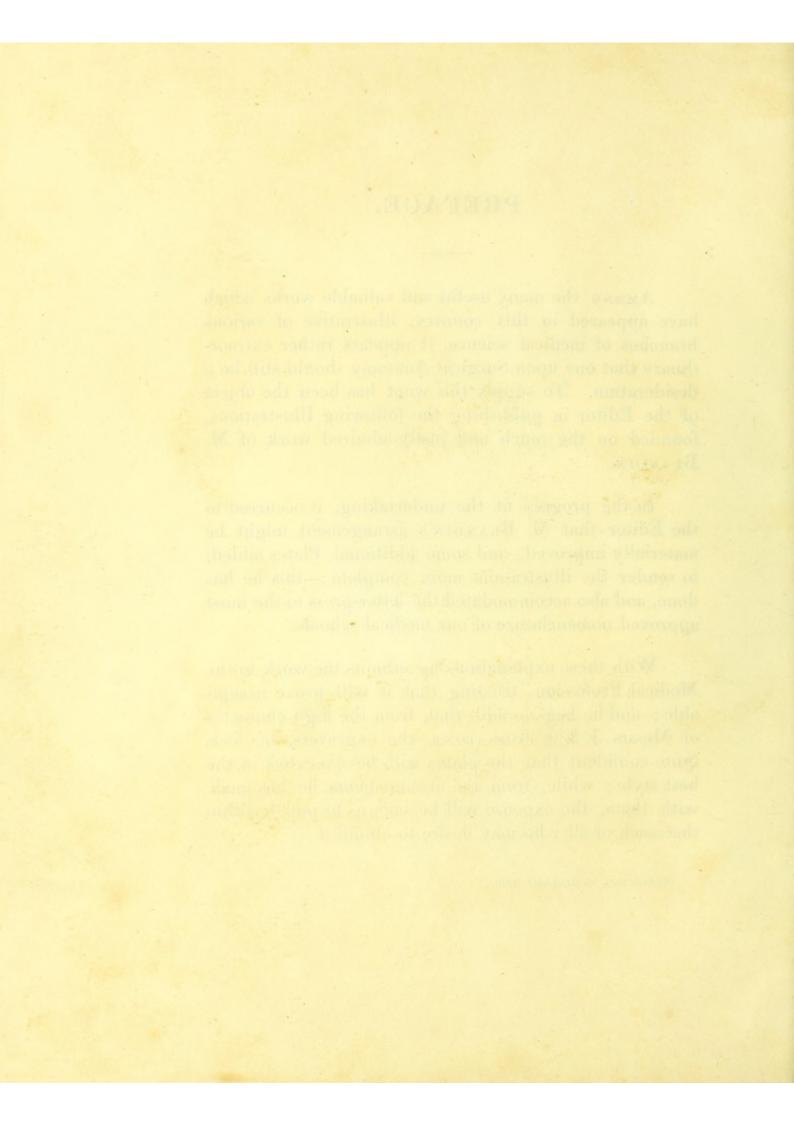






PLATE FIRST.

VIEW OF THE SUPERFICIAL ANATOMY OF THE NECK.

		10 S S S S S S S S S S S S S S S S S S S	and the second second
A. A. A.	Lateral portion of the head, from the occiput to	X.	External ju
	the ear, and from thence to the chin.		below, d
	Clavicle.		high div
C.	Portion of the great pectoral muscle.	Y	mon, bu Terminatio
D.	Portion of the deltoid muscle.	1	
E.	Triangular space formed by the two preceding muscles with the clavicle, and filled with cel-		under th the deep
	lular substance, perforated for the transmission		ing the o
		Z.	Common t
	of the two following vessels :	4.	supra-sci
F.	Acromial artery,		Brachial p
G.	Cephalic vein. Sterno-mastoid muscle.	a.	lary arte
н. н.	Anterior margin of the trapezius.	b.	Cord of
I.	Two digitations of the levator-anguli-scapulæ.	0.	brachial
J. J.	The integuments reflected backwards.		Phrenic ne
K. K.	The platysma myoides also reflected.	c. c.	terior sea
K'.		d.	Supra-scap
L.	Omo-hyoid muscle. Portion of the deep-scated layer of the cervical	e.	Mastoidean
м.	fascia, arising from the middle tendon of the	f. f.	Auricular 1
	preceding muscle, and prolonging itself to the		Three cerv
	clavicle, against which it binds down the supra-	g.	plexus, i
	scapular vessels.		der of th
	Anterior scalenus muscle.	h.	Branch fro
N. N.	Fibres of the posterior scalenus muscle.	n.	twining
0. 0.	Superior digitations of the serratus magnus.		neck.
P.	Subclavian artery, passing out between the scaleni	i.	Deep cervi
Q.	muscles, and giving off, in the present case, as		plexus, 1
	is not uncommon, a large artery, which crosses		Descending
	the brachial plexus, and represents the deep	j. j. j.	vical ple
	branch of the transverse cervical.	k. k.	Descending
	Portion of the first rib, over which we can with	K. K.	plexus.
R.	facility apply a ligature to the subclavian	1.1.	Mastoidean
		m.	Lymphatic
	artery. Branch already pointed out, which is given off by		toid mus
s.	the subclavian artery.	n. n. n.	Supra-clavi
ter.	Artery which arises from the subclavian, and re-	0.	Lymphatic
т.	presents the ordinary tract of the transverse		Lymphatic
	cervical, of which we have in this instance the	р.	gular vei
	superficial branch only.		anterior
	Supra-scapular artery, lying close to the clavicle.	0.0	Superficial
U.	Portion of the axillary vein in front of the ante-	q. q.	terminat
v.	rior scalenus muscle.		verminae
	rior scatchus muscles		

1		Jugular w				
	below.	dividing	on the	sterno-	mastoid	. This
		ivision of				
	mon, b	out not co	nstant.			
	and the second second	Sam Bake		- A		Acres 1

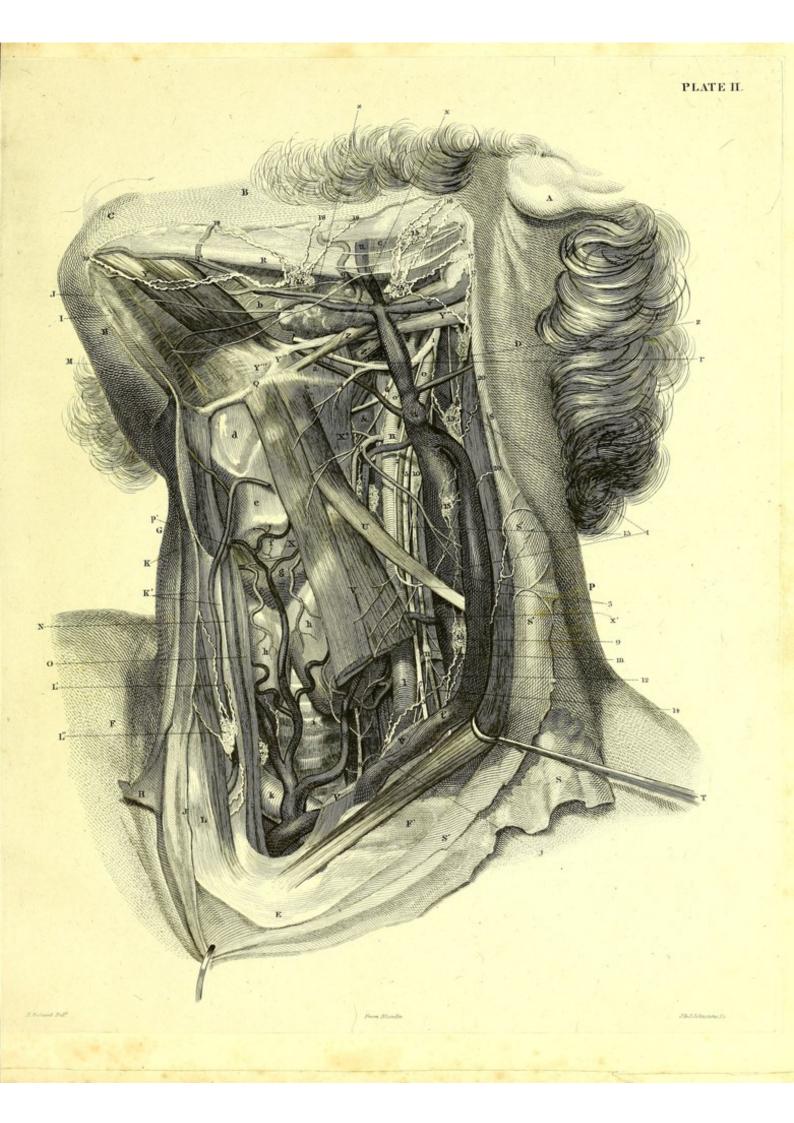
- on of the anterior jugular vein, situated be sterno-mastoid muscle, in front of a layer of the cervical fascia, and join-
- external jugular. trunk of the transverse cervical and tapular veins, lying close to the clavicle. plexus on the outer side of the axil-
- ry. communication of the cervical and plexuses.
- erve, crossing the direction of the an-alenus muscle.
- ular nerve.
- n nerves of the superficial cervical plexus. nerve of the same plexus. vical nerves of the superficial cervical forming a curve on the posterior bor-he sterno-mastoid muscle.
- om the superficial cervical plexus, en-the jugular vein in the middle of the
- ical branch of the superficial cervical passing towards the trapezius. g supra-clavicular filaments of the cer-
- xus. g supra-acromial filaments of the same
- and fascial lymphatic vessels. ganglion exterior to the sterno-mas-scle.

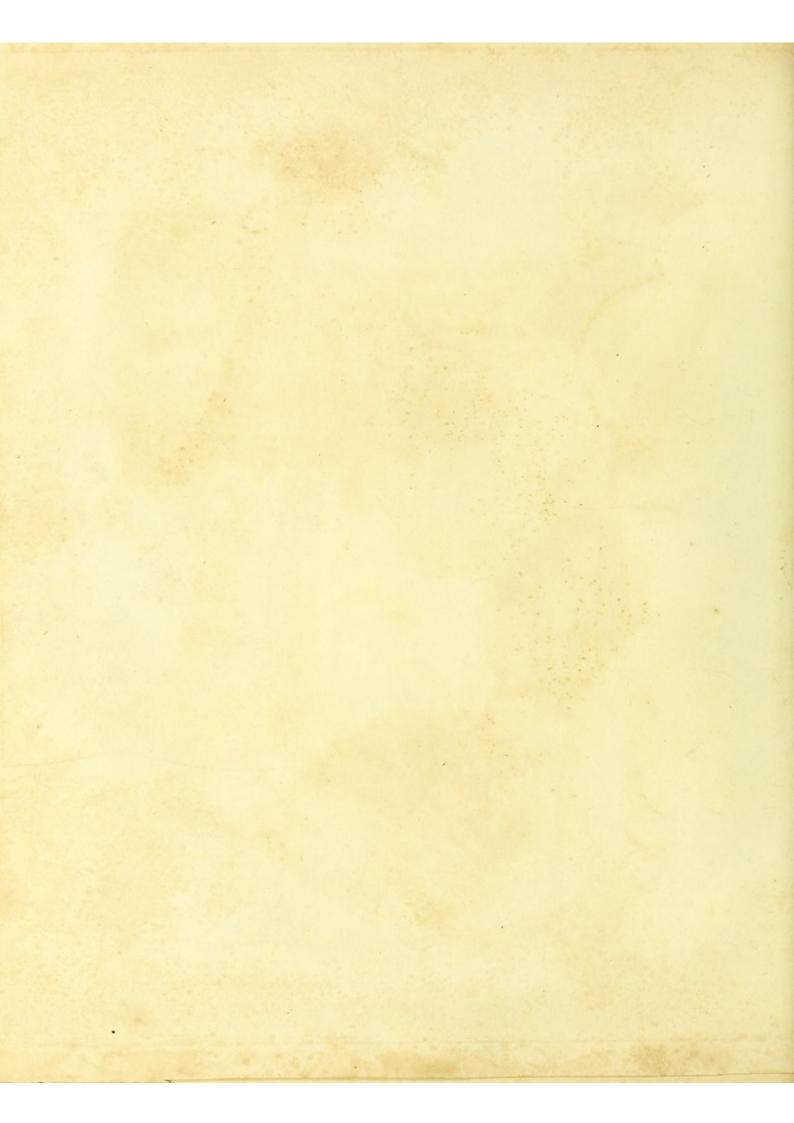
- scle. icular lymphatic ganglia. c vessels of the neck. c vessels which follow the anterior ju-in, and which have their origin at the part of the neck. l lymphatic vessels of the thorax, which is the sume-classical grandia.
- e in the supra-clavicular ganglia.

PLATE SECOND.

VIEW OF THE DEEP-SEATED ANATOMY OF THE NECK.

Portion of the ear. Thyroid cartilage. Α. e. f. B. C. D. E. F. F. Portion of the cheek. Crico-thyroid space, filled by an elastic membrane, exhibiting small vascular openings. Cricoid cartilage. Chin drawn upwards. Portion of the occiput. Superior extremity of the sternum. g. h. h. Thyroid body. Right clavicular region elevated. Left clavicle directed horizontally. Right side of the neck, on which we see in profile i. Trachea. Esophagus inclining to the left. Portion of the brachio cephalic trunk. j. k. G. the relative situations of the different parts. 1. Left common carotid artery. Inferior thyroid artery, passing transversely be-hind the common carotid, and in front of the н. н. The integuments. m. Subcutaneous cellular substance. I. commencement of the asophagus. J. J. Layer formed above by the platysma myoides, and below by the superficial cervical fascia. Place where the cervical fascia, in the upper part single, divides into two principal layers. Division of the common carotid. External carotid artery. n. K. 0. ο'. Internal carotid artery. Anterior and posterior layers of the cervical fascia. Κ'. Superior thyroid artery. р. р'. Inferior extremity of the sterno-mastoid muscle, situated between the two layers of the cervical I., Crico-thyroid artery. Fascial artery. Sub-mental branch of the fascial artery. q. q. fascia. The anterior external jugular vein, slightly de-veloped, and confined between the two layers of the cervical fascia. Lingual artery. Internal jugular vein. Anterior jugular vein. L'. r. t. t'. L". Ganglia and lymphatics situated between the u. Fascial vein. Temporal vein, leaving the parotid. Lingual vein. layers of the cervical fascia. Fatty cushion lying below the upper part of the ν. M. x. x'. Lateral thyroid vein. platysma myoides. Sterno-hyoid muscle. N. Filaments from the cervico-fascial branch of the у. у. Sterno-thyroid muscle. fascial nerve. 0. P. Left side of the neck, where the different organs Mylo-hyoidean filament of the inferior dental and z. z. have been completely laid bare, and are seen spinal nerves. Hypo-glossal, or ninth pair of cerebral nerves. nearly in front. 1. Aypoglossa, or ninu par of cerebar nerves. Its descending branch. Arch formed by the preceding nerve, and the de-scending internal branch of the cervical plexus. Sterno-hyoidean filament of the hypo-glossal Q. Hyoid bone. 2 Inferior maxillary bone. R. 3. S. S. The skin reflected backwards. The platysma myoides also reflected backwards. Hook applied to the sterno-mastoid muscle, and 4. S'. S'. т. nerve. drawn outwards, to display the parts naturally 5. 5. Pneumo-gastric nerve. Superior laryngeal nerve of the left pneumo-gas-tric, dividing itself into two branches. Cardiac branch of the pneumo-gastric nerve. concealed. 6. U. Omo-hyoid muscle. V. V. X. X. Y. Y. Y. Sterno-hyoid and thyroid muscles cut across. 7. Their inferior extremities. Crico-thyroid muscle. Inferior laryngeal or left recurrent nerve, placed in front of the œsophagus. Cervical portion of the great sympathetic. 8. Thyro-hyoid muscle. 9. Anterior belly of the digastric muscle, 10. Termination of the superior cervical ganglion. Middle cervical ganglion, placed on the inferior curvature of the thyroid artery. Posterior belly of the same muscle. 11. Pulley of the muscle. Fibrous lamina, which proceeds from the tendon 12. Communicating filament of the great sympathetic with the cervical nerves. Cardiac nerve, superficial at its origin. Origin of the middle cardiac nerve. of the muscle. z. Stylo-hvoid muscle. 13. Z'. Stylo-glossus muscle. 14. Lymphatic ganglia. Parotidean lymphatic vessels. δι. Portion of the inferior constrictor muscle of the 15, 15, 15, pharynx. Portion of the hyo-glossus muscle. 16. Mastoidean 17. do. a. 18. 19. b. Mylo-hyoid muscle. Fascial do. Portion of the masseter muscle. Thyro-hyoid space. Sub-mental do. с. d. 20. Cervical do.







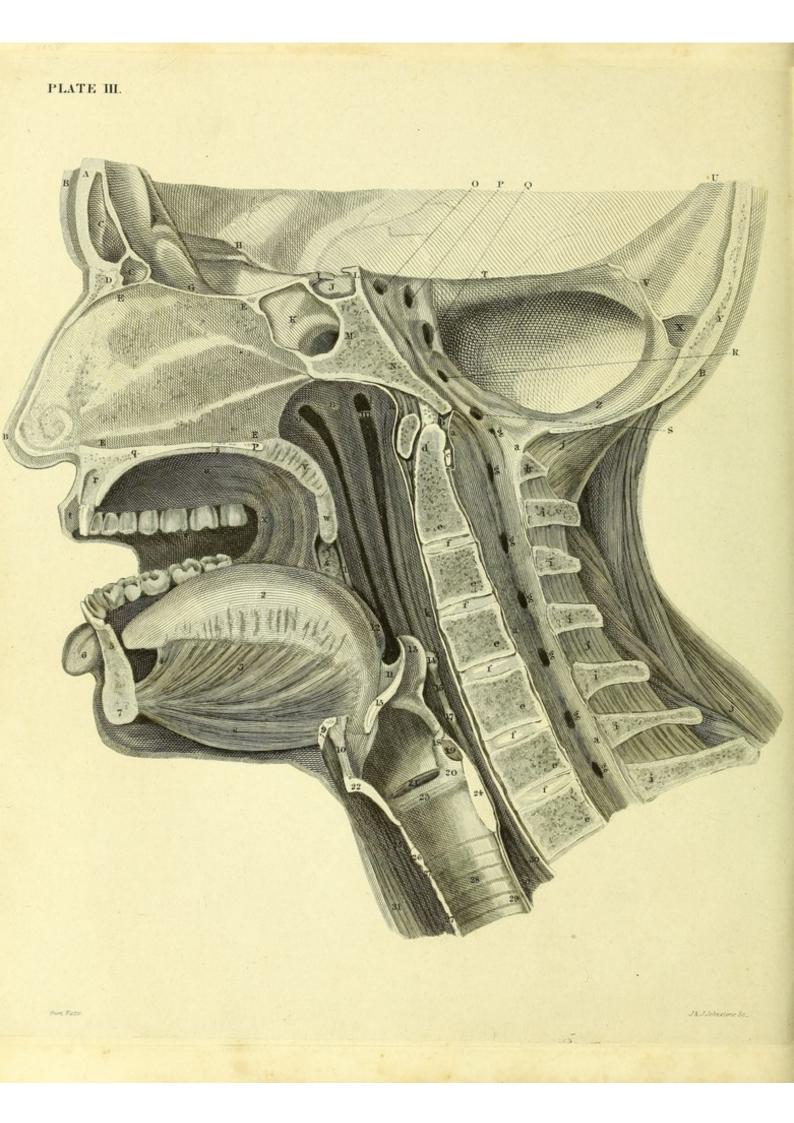


PLATE THIRD.

PERPENDICULAR SECTION OF THE HEAD AND NECK, TO SHOW THE RELATIVE SITUATIONS OF THE CAVITIES OF THE NOSE, MOUTH, LARYNX, AND PHARYNX.

A.	Cut edge of the frontal bone.	0.
B. B. B.	Cut edge of the integuments.	p.
C. C.	Frontal sinuses.	q.
D.	Cut edge of the nasal bone.	
E. E. E. E.	Left surface of the septum narium, covered	r.
	by the pituitary membrane.	
F.	Anterior portion of the falx cerebri.	
G.	Cut edge of the cribriform plate of the eth-	8.
н.	moid bone.	t. u.
n.	Irregular surface of the right orbitar process of the frontal bone.	v.
I.	Anterior clinoid process.	w.
J.	Sella turcica.	x.
K.	Part of the left sphenoidal sinus, with the	y.
	septum which divides it from that of the	z.
	opposite side.	å.
L.	Cut edge of the posterior clinoid process.	1.
M.	Cut edge of the body of the sphenoid bone.	2.
N.	Cut edge of the basilar portion of the occi-	3.
0	pital bone.	4.
0.	Opening for the passage of the nerve of the fifth pair.	5.
P.	Meatus auditorius internus, for the passage	
	of the auditory and fascial nerves.	6.
Q.	Foramen lacerum for the passage of the	7.
	nerve of the eighth pair and lateral sinus.	8.
R.	Foramen condyloideum anterius, for the pas-	9.
	sage of the nerve of the ninth pair.	10.
S.	Round opening of the dura mater, at which	
	the vertebral artery enters the cranium.	11.
T.	Edge of the tentorium.	12.
U.	Posterior portion of the falx cerebri.	13.
v.	Part from which the tentorium has been de-	14.
х.	tached on the left side. Lateral sinus divided.	15.
Y.	Cut edge of the occipital bone.	16.
Z.	Falx cerebelli.	10,
3. 3. 3. 8.	Cut edges of the lining membrane of the	
al as as as	spinal canal.	
b.	Cut edge of the ligament which connects the	17.
	processus dentatus to the occiput.	10.00
с.	Cut edge of the circular ligament which	18.
	connects the processus dentatus to the	19.
	atlas.	20.
d.	Cut edge of the processus dentatus.	21.
e. e. e. e. e. e.	Cut edges of the bodies of the second, third,	22.
11111	fourth, fifth, sixth, and seventh vertebræ.	23.
	Intervertebral substance. Openings for the passage of the first, second,	24.
g.g.g.g.g.g.g.	third, fourth, fifth, sixth, and seventh cer-	25.
	vical nerves.	
h.	Cut edge of the back of the atlas.	
LLLLLL	Cut edges of the spinous processes of the	10
	second, third, fourth, fifth, sixth, and se- venth vertebrae.	26.
j. j. j.	Muscles of the back of the neck.	27. 27.
k. k.	Cut edge of the pharynx.	
1.	Sacculus cocus of the pharynx.	28,
m.	Membrane which sometimes divides the sac-	29.
	culus at this part.	1 States
n.	Eminence caused by a piece of cartilage	30, 30,
	at the extremity of the eustachian tube.	31.

Opening of the eustachian tube. Opening of the eustachan tube. Cut edge of the palatic bone. Cut edge of the palatine process of the su-perior maxillary bone. Part of the cavity for the reception of the fang of the first left incisor tooth of the upper jaw. Cut edge of the palatine membrane. Cut edge of the upper lip. Palate. Cut edge of the soft palate. Uvula. Folds of the membrane of the mouth. Internal lining of the cheek. Glosso-palatine arch. Tonsil. Pharyngo-palatine arch. Cut edge of the tongue. Genio-glossus muscle. Frenum of the tongue. Part of the cavity for the reception of the fang of the first left incisor tooth of the lower jaw. Cut edge of the under lip. Cut edge of the inferior maxillary bone. Genio-hyoideus muscle. Cut edge of the os-hyoides. Ligament which connects the os-hyoides to the thyroid cartilage. Frenum of the epiglottis. Dorsum of the tongue. Epiglottis. Eminence caused by the posterior extremity of the corner of the os-hyoides. Cut edge of the epiglottis. Line denoting the situation of the ligament which connects the posterior extremity of the corner of the os-hyoides to the supethe corner of the os-nyoades to the supe-rior corner of the thyroid cartilage. Situation of the superior corner of the thy-roid cartilage. Corniculum of the larynx. Cut edge of the aretenoid cartilage. Base of the aretenoid cartilage. Versteide of the larger Ventricle of the larynx. Cut edge of the thyroid cartilage, in front. Vocal chord. Cut edge of the broad posterior portion of Cut edge of the broad posterior portion of the cricoid cartilage. Cut edge of the ligament which connects the small anterior portion of the cricoid cartilage to the inferior part of the thy-roid cartilage in front. Cut edge of the small anterior portion of the cricoid cartilage. Cut edges of the cartilaginous rings of the teacher trachea. Internal surface of the trachea. Cut edge of the membranous part of the trachea.

Cut edges of the œsophagus. Muscles in front of the neck.

PLATE FOURTH.

THE EYE.

THIS PLATE IS INTENDED TO ILLUSTRATE THOSE PARTS OF THE EYE MOST COMMONLY CONCERNED IN SURGICAL OPERATIONS.

A. A.

B. B.

C. C.

D.

E. F.

J.

L.

M. N. O.

G. H.

	FIGURE FIRST	G.	The levator palpebræ superioris, the tendón of
Repres	tica, and Iris, being removed.	н.	which is inserted into the tarsal cartilage of the upper eyelid. The levator oculi, the tendon of which is in-
Λ. Λ. Β.	The tunica conjunctiva. The cornea.	Are all	serted into the sclerotica about the eighth of
Б. С.	The iris.	I.	an inch from the margin of the cornea. The depressor oculi.
D. D.	The sclerotica.	K.	The adductor oculi.
E.	The crystalline lens.	L	The conjunctiva lining the eyelids, and cover-
F.	The optic nerve.		ing the anterior surface of the eye-ball, form-
G.	One of the ciliary processes.		ing a pouch by its reflection.
H.	The zonula lucida, or space between the anterior	1.17.19104	ing a posta of its reaction.
	extremities of the ciliary processes and margin of the crystalline lens.	11110	FIGURE FIFTH
L L	The anterior termination of the retina.	Repres	ents the anterior half of the Coats of the
К.	The part of the hyaloid membrane, which forms the canal of Petit, to which the pigmentum nigrum of the choroid coat and ciliary pro-	Eye, move	seen from behind, the Humours being re-
	cesses adhere.	Λ.	The sclerotica.
		B. B.	The choroid coat.
	FIGURE SECOND	C. C.	The ciliary processes.
Danwar	ents one-half of the Coats of the Eye, from	D.	The iris, having its circular aperture called the
tepres	which the humours have been removed.		pupil.
Δ.	The cornea.		FIGURE SIXTH

where the ciliary ligament commences.	Represents the Vitreous and Crystalline Humours, as taken from the Coats of the Eye, represented in Figure Fifth.
The ciliary ligament and processes, to which the	in Figure Fifth.

	iris is attached.	
E.	The iris.	
F.	The optic nerve, which expands within the cho-	

roid coat forming the retina.

FIGURE THIRD

Represents the Eye-ball, from which the Cornea and anterior half of the Sclerotica have been removed, by which the anterior part of the Choroid Coat, the Ciliary Ligament, the Iris, and the Crystalline Lens, are seen anteriorly.

Λ.		The	sc	ero	tica.	
10.	100	1914	1.00			

B. B. C, C,

D.

- B. B. The choroid coat. The ciliary ligament. C.
- D. D. The iris, having one-half torn down.
- E. E.
- The ciliary nerves. The crystalline lens. F.
- G. The anterior part of the vitreous humour which occupies the space between the ciliary processes and margin of the lens.

FIGURE FOURTH

Represents one-half of the right Orbit with its contents, divided perpendicularly.

- A. A. A. A. The bony orbit. The integuments, covering the anterior of the B. B. orbit.
- The upper and lower eyelids. The two black C. D. points at their nasal extremities, represent the orifices of the lateral lacrymal canals, called the punctæ lacrymaliæ.

E. E.	The eye-ball, showing its coats, and humours	
	contained within them.	
F.	The optic nerve.	

Ane	outer an	gue.					
The	punctæ	lacryma	liæ, or	orifice	of a	the	late-
	lacryma						

The hyaloid membrane of the vitreous humour The partod memorane of the vitreous humour covered by a portion of the retina. The part of the hyaloid membrane, which forms the canal of Petit, to which some of the pig-ment of the ciliary processes and choroid coat

The space between the ciliary processes and margin of the lens, occupied by the anterior part of the vitreous humour, upon the hy-

aloid membrane of which, the vessels, for the nourishment of the lens, proceed to the

D. I. The lacrymal sac.

adheres.

capsule.

The crystalline lens.

FIGURE SEVENTH

Represents an Anterior View of the Eyelids and

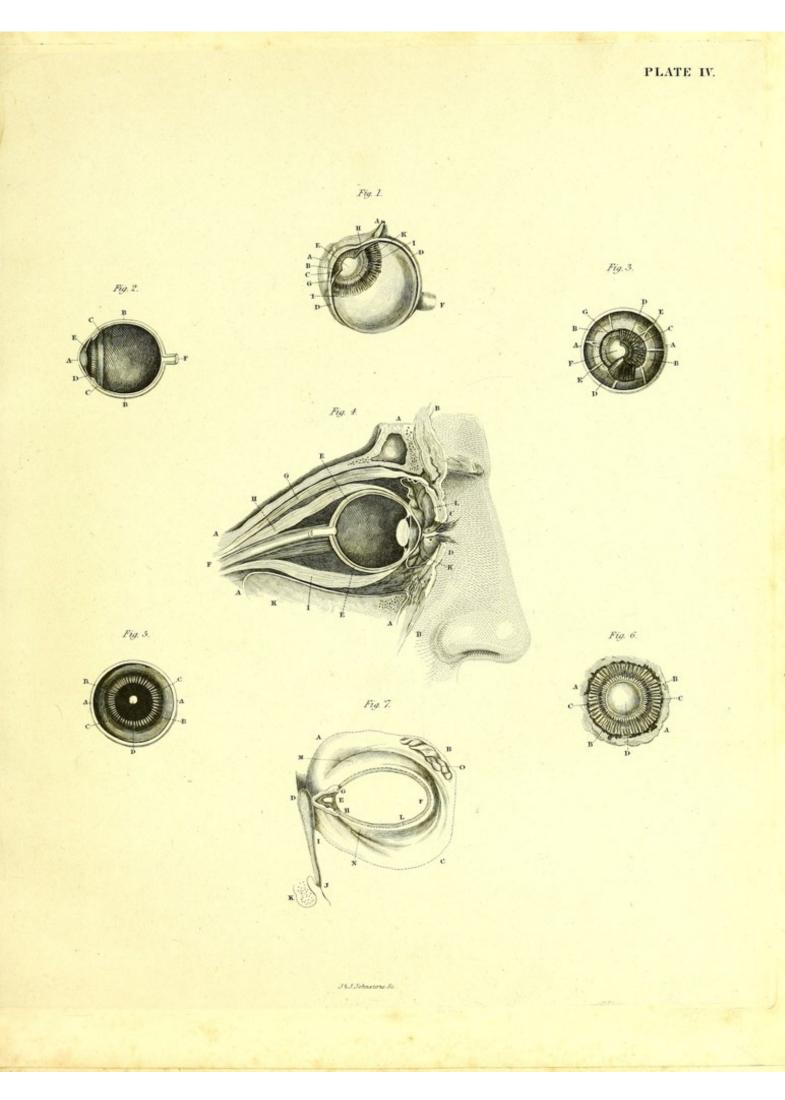
A. B. C. D. The situation of the margin of the bony orbit.

teguments and Orbicularis Palpebrarum.

The inner angle of the eye.

Lacrymal Organs, upon the removal of the In-

- The nasal duct. I. J.
 - The lower orifice of the nasal duct, entering the lower and lateral part of the nose, at the fossa formed by the inferior spongy bone (K), and superior maxillary bone (J).
 - The orifices of the sebaceous ducts, leading from the meibomian glands, represented by a dotted line.
 - The cartilage of the upper eyelid. The cartilage of the lower eyelid. The lacrymal gland.



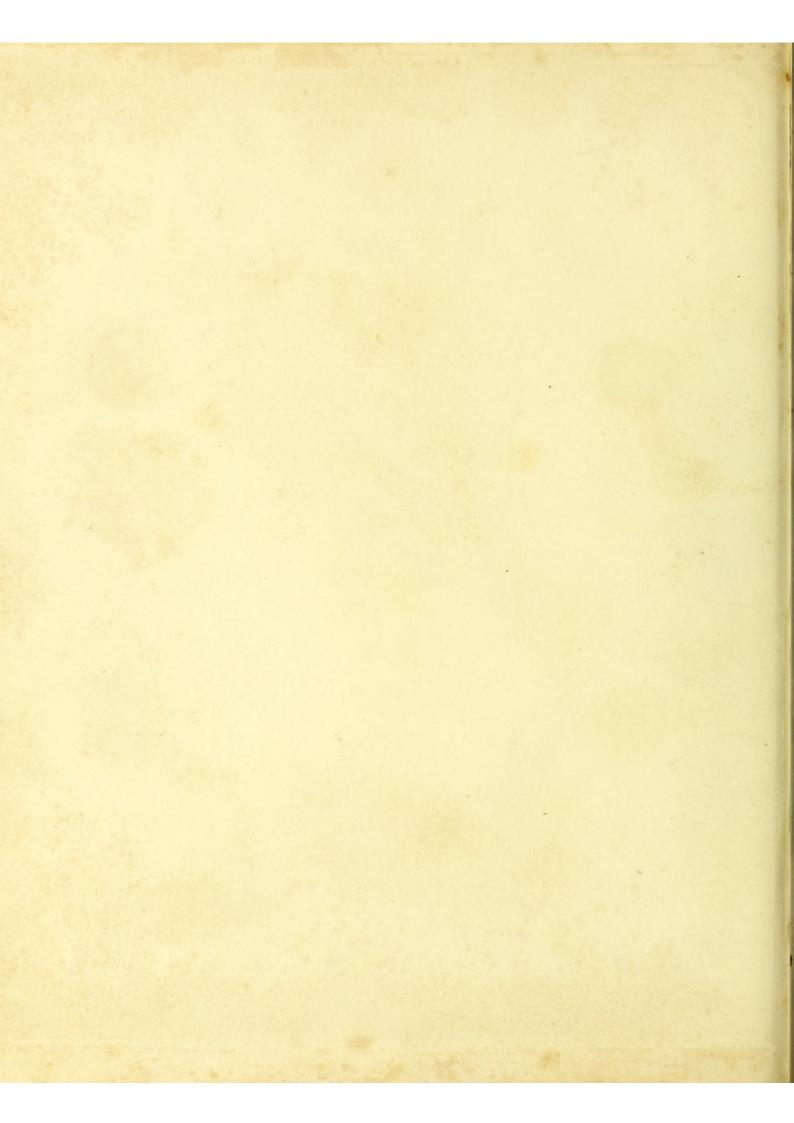
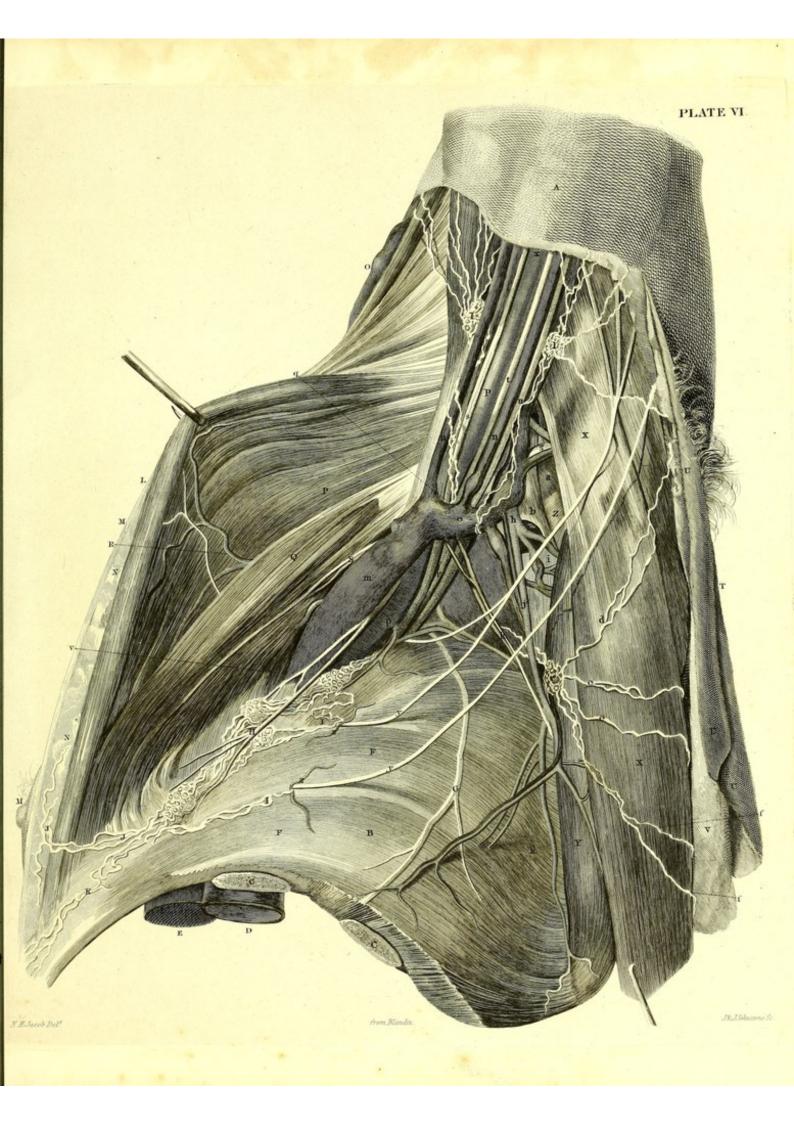


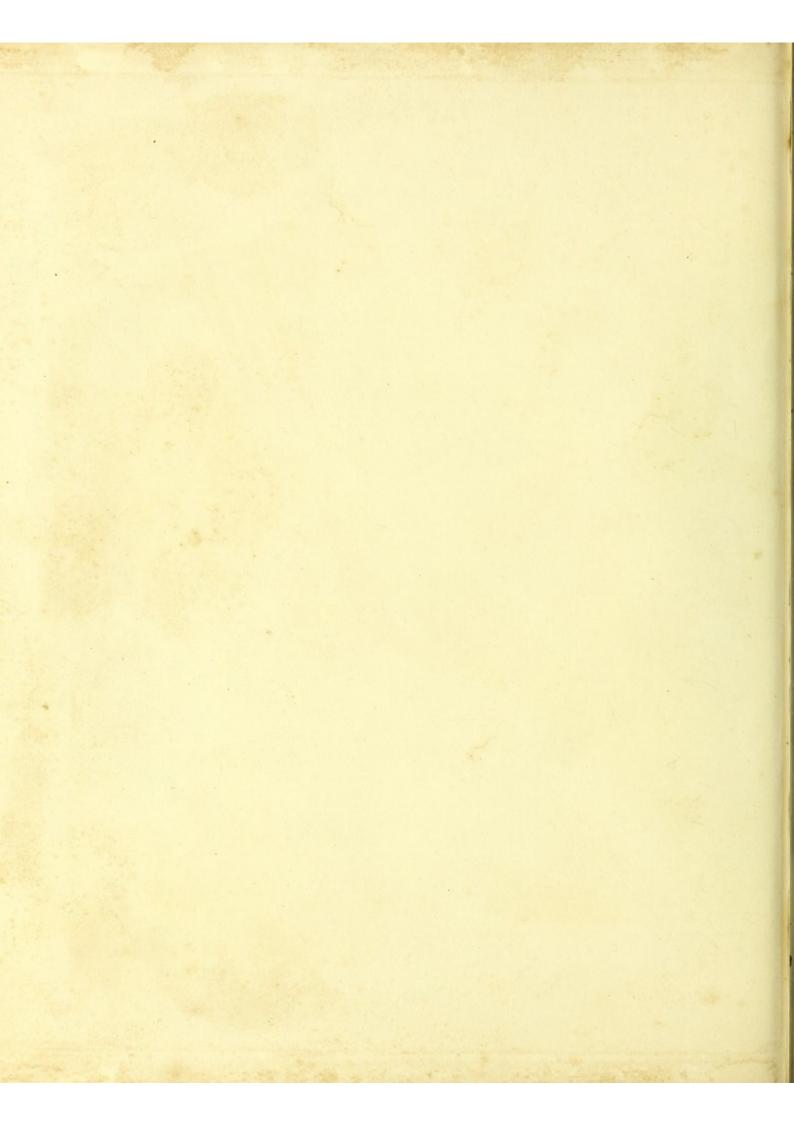


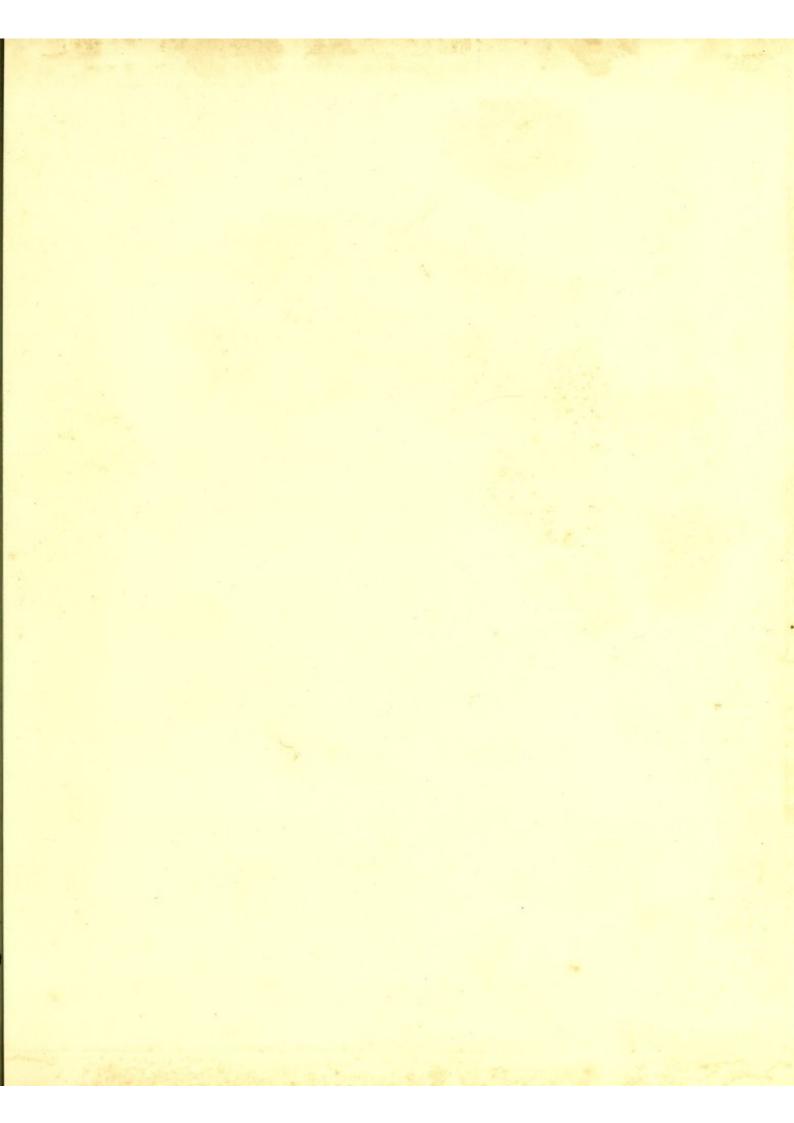
PLATE SIXTH.

THE AXILLA VIEWED FROM BELOW, THE ARM BEING STRONGLY ELEVATED.

Δ.	Portion of the arm.	a.	Situation where the naked fibrous capsule of the
B.	Portion of the costal region of the thorax, form-		shoulder joint is seen, very feeble.
	ing the internal boundary or wall of the axilla.	b.	Tendon of the subscapular muscle, passing on the
0.0			inner side of the joint.
C. C.	The ribs cut obliquely.	c.	Lymphatic ganglion, which receives,
D.	Aorta.	d.	Lymphatics of the neck,
E.	Vena cava inferior.	e. e.	Lymphatics of the back,
F. F.	Two superior digitations of the serratus mag-	f. f.	Lymphatics of the superior part of the loins.
G.	nus. Posterior thoracic, or external respiratory nerve of	g.	Circumflex vessels and nerves, passing between the triceps and humerus.
	Charles Bell, passing over the serratus mag-	h.	Anterior or common scapular vessels.
	nus.	i.	Transverse and dorsal branches of the anterior
H.	Long thoracic artery passing like the preceding		scapular vessels.
	nerve upon the serratus magnus, but carried	j.	Axillary and descending branches of the common
	much farther forward, and encircled with lym-		scapular vessels.
	phatic ganglions, which receive,	k.	Great subscapular nerve which accompanies the
I. I.	Lymphatic vessels passing out between the inter-		descending branch of the common scapular
	costal spaces,		artery.
J. J.	Bundles of the lymphatic vessels of the mamma,	k'.	Posterior angle of the axilla.
K.	Bundles of lymphatic vessels, coming from the	1.1.	Two brachial lymphatic ganglions.
n.	upper part of the anterior abdominal parietes.	m.	Axillary vein, placed in front of the artery, and
L.	Anterior boundary of the axilla, in which we		formed by the union of the following veins :
	find,	n. n.	Two brachial veins,
M. M.	The skin and breast,	0.	Basilic vein.
N. N.	Subcutaneous tissue,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Axillary artery, placed between the vein and the
0.	Portion of the cephalic vein,	p. p.	plexus,
P.			
	Pectoralis major,	q.	Place where the artery is embraced by the bra-
Q.	Pectoralis minor,		chial plexus.
R.	Anterior thoracic vessels and nerve,	r.	Brachial plexus, placed behind the artery.
S.	Vessels and nerve of the pectoralis minor.	5.	Median nerve.
т.	Posterior wall of the axilla, on which the skin	t.	Ulnar nerve.
	has been reflected from the base.	u.	Internal cutaneous and radial nerves united.
U.	Hairy skin from the base of the axilla.	v.	Situation where the bundles of vessels and nerves
V.	Subcutaneous cellular tissue.		occupy the anterior angle of this cavity.
X. X.	Latissimus dorsi, held with a hook.	х.	Situation where the axillary vessels and nerves
Y.	Longissimus dorsi.		are placed in the external angle of the axilla.
Ζ.	Tendon of the long head of the triceps, near its	y. y.	Brachial filaments of the intercostal nerves.
	insertion under the glenoid cavity.	2.2	Small ramifications of the intercostal arteries







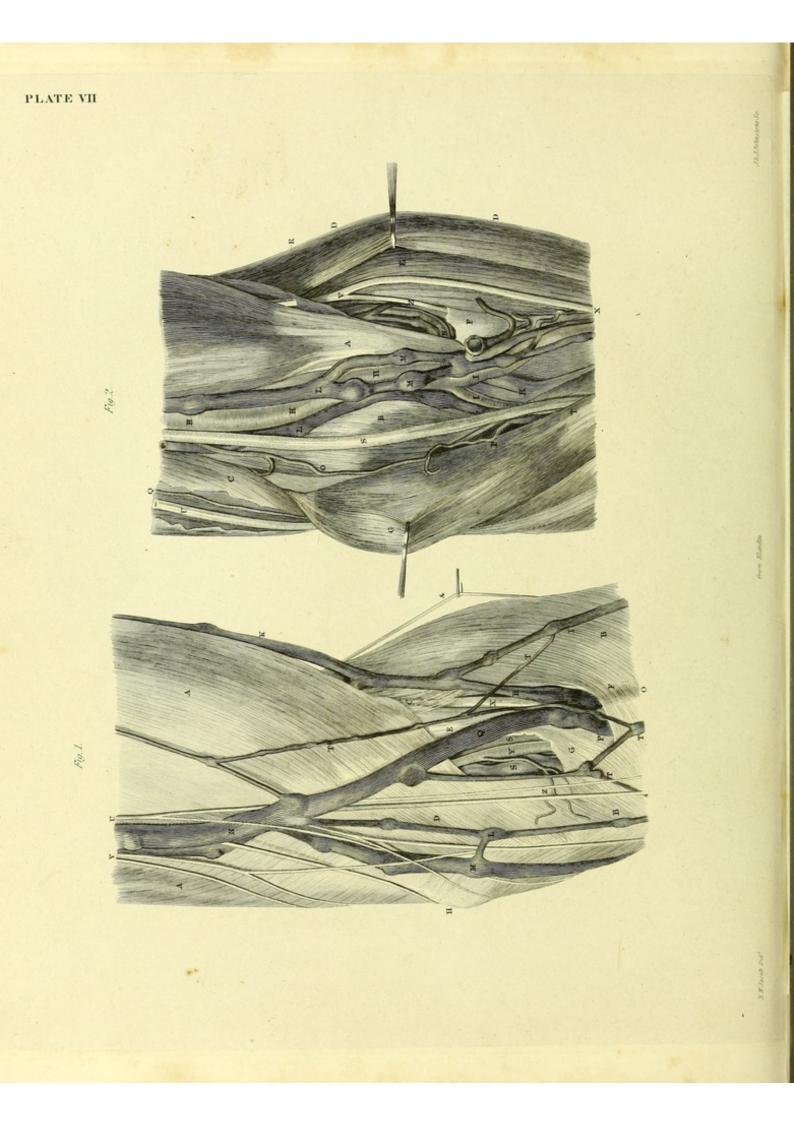


PLATE SEVENTH.

THE ANTERIOR ASPECT OF THE REGION OF THE ELBOW, IN WHICH THE VEINS HAVE BEEN STRONGLY INJECTED, TO SHOW, BY THEIR NODOSITIES, THE COMPARATIVE NUMBER OF VALVES IN THE SUPERFICIAL AND DEEP-SEATED VEINS.

z.

&e ..

G.

N.

O. P.

0.

Ρ.

Q. R. S. T.

U. V.

X.

FIGURE FIRST.

Superficial parts of the Bend of the Arm.

Δ.	A. The termination of the brachial aponeurosis.
B.	
C.	Fibres of the brachial aponeurosis, which have an
	inclination outwards towards the bundle of
	muscles on the outside of the elbow.
D.	Oblique direction inwards of the greater part of
	the aponeurosis.
E.	Place where the tendon of the biceps is partially
	covered by a thin fibrous aponeurosis.
F.	The superficial radial vein, bound down in its small sheath.
G.	Fibrous expansion, detached from the biceps, and
	becoming attached to the internal part of the fascia.
H.	The inner condyle.
I.	The superficial radial vein.
K.	Cephalic vein.
L	The anterior superficial ulnar vein.
M.	The posterior superficial ulnar vein.
N.	Origin of the basilic vein.
0.	The common median vein, very prominent, and
	enclosed in a small sheath.
Р.	Veinous branches which perforate the fascia, and
	which unite the deep-seated radial veins with
	the origin of the median cephalic and basilic.
Q.	The median basilic vein.
R.	The median cephalic vein.
S. 8	Brachial veins, which we perceive by means of an
	aperture in the fascia of the elbow, purposely
100	made to display them.
	T. T. Superficial anormal veins.
U.	Internal cutaneous nerve, dividing itself at the
	elbow into a considerable number of branches,
	entwining the median basilic, and basilic veins.
v.	The filaments of a cutaneous nerve, given off very
	high up by the ulnar nerve, sometimes even by
	the brachial plexus.
х.	The external cutaneous, or musculo-cutaneous
	nerve, issuing from its deep position outside of
	the biceps, passing under the median cephalic
	vein, and slipping, without dividing itself, into
v	the sheath of the median vein.

Υ. The brachial artery, seen between the two veins. Small branch of the brachial, of which one branch remains subfascial, whilst the other becomes subcutaneous, a branch which appears to be the rudiment of the variety in which the ulnar ar-tery passes superficially in this region. Cutaneous branch of the radial nerve.

FIGURE SECOND.

- Deep-seated Parts of the Bend of the Arm. Α.
- Tendon of the biceps. Flattened tendon of the brachialis internus. В.
- C. Internal border of the triceps muscle. Supinator longus muscle.
- D. D. E.
- External radial muscles. F.
 - Small supinator muscle, presenting an aperture perforated by the dorsal branch of the radial nerve.
 - Round pronator muscle, and bundle of muscles
- on the inner side of the elbow. H.H.H. Brachial artery, situated on the outer side of the median nerve, and entwined by its veins.
- Origins of the radial and ulnar arteries. Deep-seated radial and ulnar veins. Brachial veins. I. I. I.
- K. K. L. L.
- M. M.
 - Radial veins, surrounding a portion where we see the brachial artery. Origin of the anterior recurrent of the epicondyle,
 - which passes at this point under the tendon of the biceps. It is not in this case the normal disposition.
 - Anterior arterial arch of the inner condyle, formed by the two following branches, Internal collateral artery of the arm,
 - Anterior recurrent ulnar artery.

 - Artery with the ulnar nerve passing behind the inner condyle. Divided trunk of the musculo-cutaneous nerve, Median nerve, drawn a little to the inner side.

 - Place where the median nerve passes between the two bundles of the round pronator muscles.
 - Ulnar nerve.
 - Radial nerve, dividing into two branches, viz.
 - Anterior branch, Posterior branch, disappearing under the short supinator muscle.

PLATE EIGHTH.

THE FINGERS.

FIGURE FIRST.

ANTERIOR ASPECT OF THE FINGERS.	
No. 1Exterior Surface of the Finger.	F.
A. Line of the last phalangien articulation.	G.
B. Line of the first phalangien articulation.	
C. Line of the metacarpo-phalangien articulation.	H.
No. 2.—Skeleton of the Finger.	I. I. I.
D. E. Lateral articular ligaments. F. Anterior ligament, developed by a sesamoid bone.	К. К.
No. 3 Sheath of the Flexor Tendons laid	and the second
open, to show the Tendons.	
G. Tendon of the flexor digitorum sublimis.	L. L. L
H. Tendon of the flexor digitorum profundus.	1. 2
I. Situation where the flexor tendon becomes flat,	M.
afterwards separating into two bundles, the	0. P.
tendon of the flexor profundus passing between	0. 1.
K. Cut border of the sheath.	
L. The artery and nerve in their natural positions-	Q.Q.Q
the nerve lying on the inner side.	
No. 4 View, with the Sheath entire.	R.
M. Anterior aspect of the sheath.	
N. N. Origin and termination of the sheath.	the state
O. O. Situations where the fibrous membrane of the	entre alla
sheath forms crucial bands.	X. X. X
P. P. Rounded openings in the sheath for the trans- mission of blood-vessels, and situated over the	
metacarpo-phalangien articulation.	
Q. Situations where the sheath is wanting, showing	
the naked tendon of the flexor profundus.	DEDDD
 R. Trunks of the arteries. S. Artery and nerve ;—the nerve is seen outside the 	PERPEN
artery, in consequence of the reflection of the	OF TI MATI
integuments.	
T. Arch formed by the artery on the last phalanx,	a. b.
and the non-formation of the arch by the cor- responding nerve.	10.
	c.
No. 5.— Veins of the Finger.	d.
U. Veinous branch, by which the anterior plexus of	e. e.
veins of the finger communicates with those of the palm of the hand.	f.
X. X. X. Veinous branches situated over the lines of arti-	
culation, and communicating laterally with the	g.
digital plexus.	
	h. 1.
FIGURE SECOND.	k.
POSTERIOR ASPECT OF THE FINGERS.	
No. 1.—Exterior Surface of the Finger.	1.000
A. B. C. Line of the phalangien and metacarpo-phalangien articulations.	
No. 2.—Skeleton of the Finger.	EXTER
D. E. Digital articulations deprived of their posterior	WHIC
ligaments, and showing one of their lateral li-	LATI
gaments.	LINE

No	. 3.—Fibrous Membrane of the Extensor
	Tendons of the Fingers.
	Extensor tendon, narrow at the metacarpo-pha- langien articulation.
	Situation where the extensor tendon divides into

- sundles, viz
- Middle phalangien bundle, Lateral phalangettien bundles, which afterwards reunite.
- Tendons of the lumbricales and interossei muscles.

No. 4 .- Vessels and Nerves.

- Arterial branches, directed obliquely backwards over the lines of the digital articulations. Arterial arch at the root of the nail, into which
- it sends many ramifications.
- Corresponding nerves, among which, for this fin-ger especially, are O. from the radial, and P. from the dorsal branch of the ulnar nerve.
- . Veinous trunks coming from the fingers, and forming the veinous arch of the back of the hand.
- Tendinous expansion, which unites the two extensor tendons.

No. 5 .- Plexus of Veins.

C. Veins communicating laterally between the anterior and posterior veins.

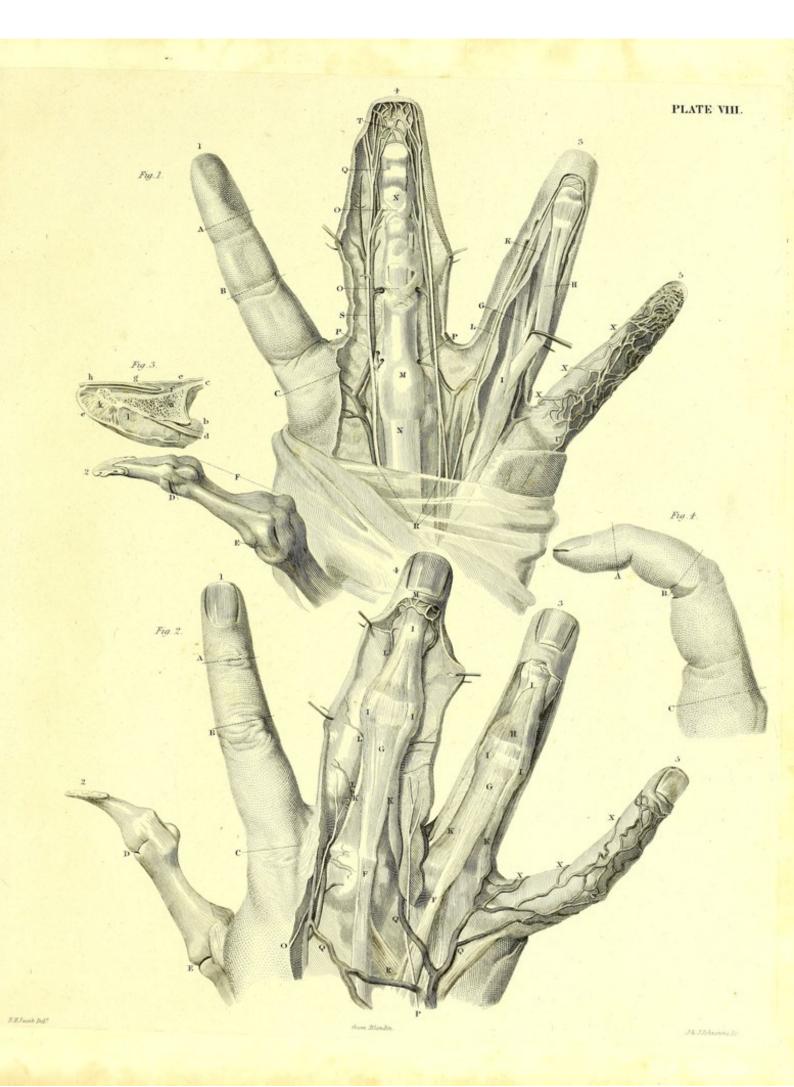
FIGURE THIRD.

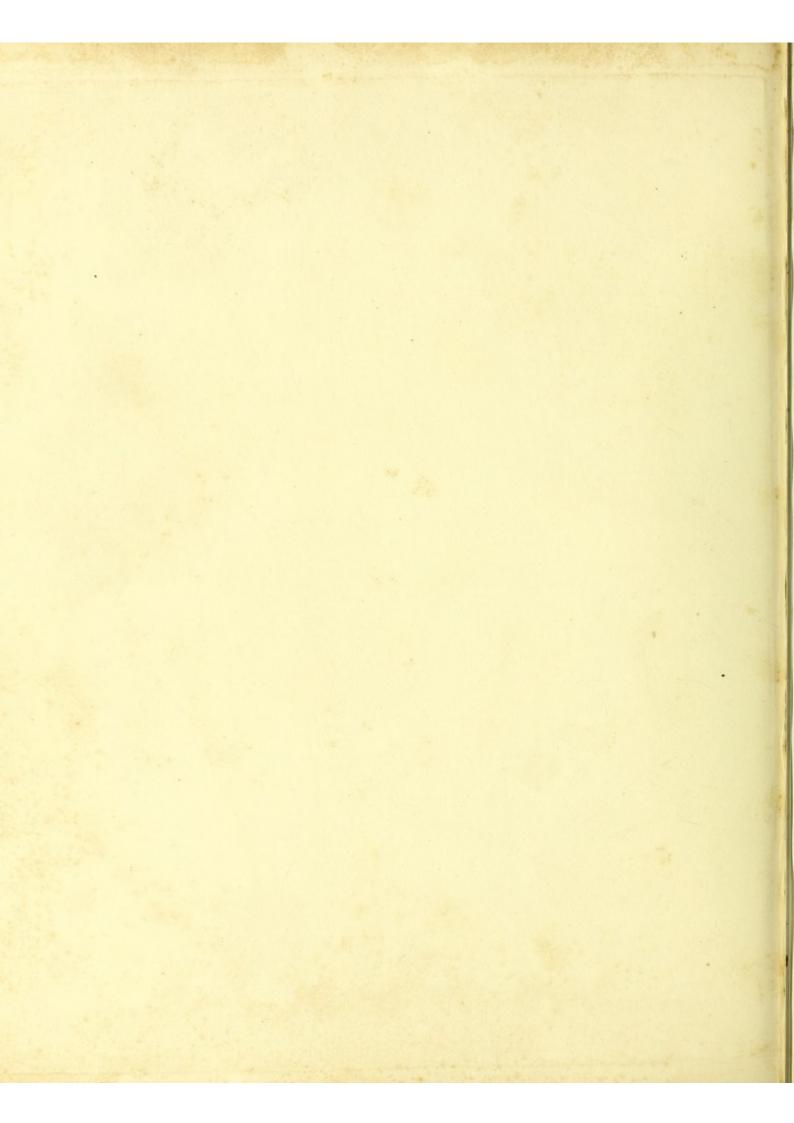
NDICULAR AND LONGITUDINAL SECTION HE LAST PHALANX, TO SHOW THE FOR-ON OF THE NAIL.

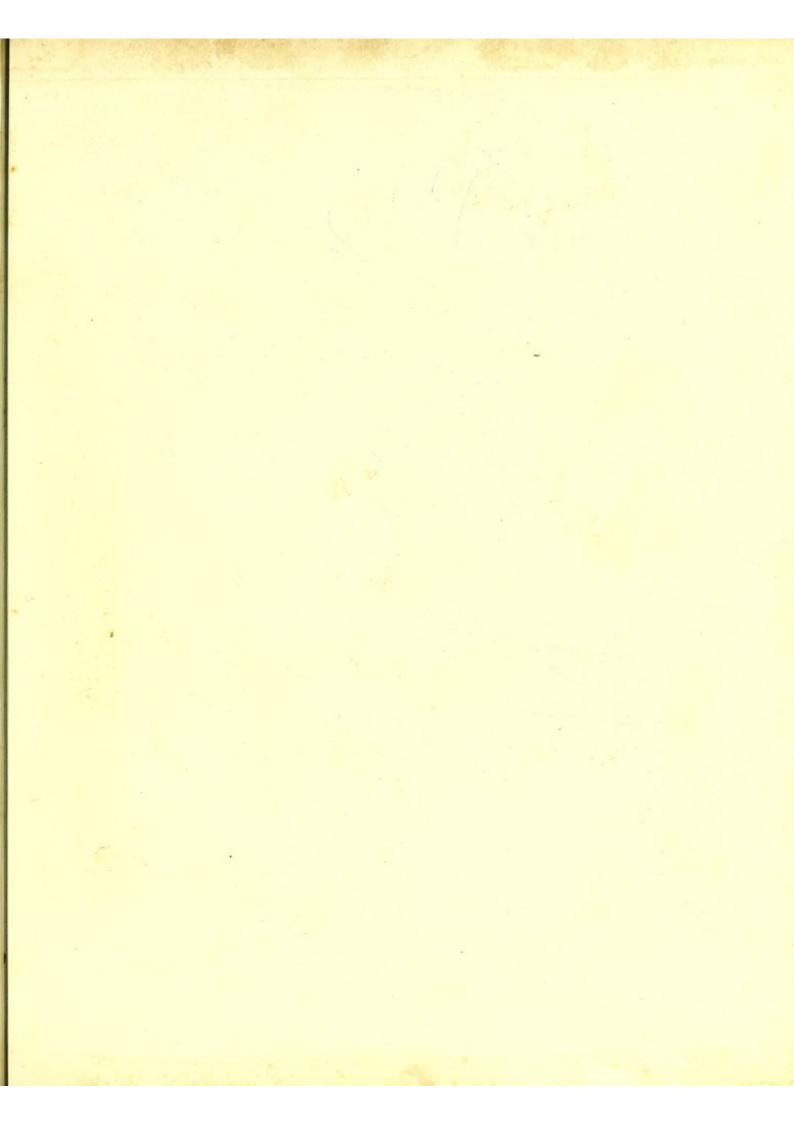
- Section of the bone. Anterior ligament of the last phalangien articulation, in which will be observed a sesamoid bone. Termination of the phalangettien extensor tendon. Termination of the phalangettien flexor tendon. The skin on the anterior and posterior surfaces of the finger. Sinus, formed by the skin, in reflecting itself upon the nail. Point where the reflection of the skin commences on the back of the nail.
 - The nail.
- Cellular tissue of the pulp of the finger. Tendinous fibres, which connect the skin at the extremity of the finger with the anterior surface of the bone.

FIGURE FOURTH.

IOR AND SIDE VIEW OF THE FINGER, H IS BENT AT THE DIFFERENT ARTICU-ONS, TO SHOW, IN THAT POSITION, THE S OF THE ARTICULATIONS A. B. C.







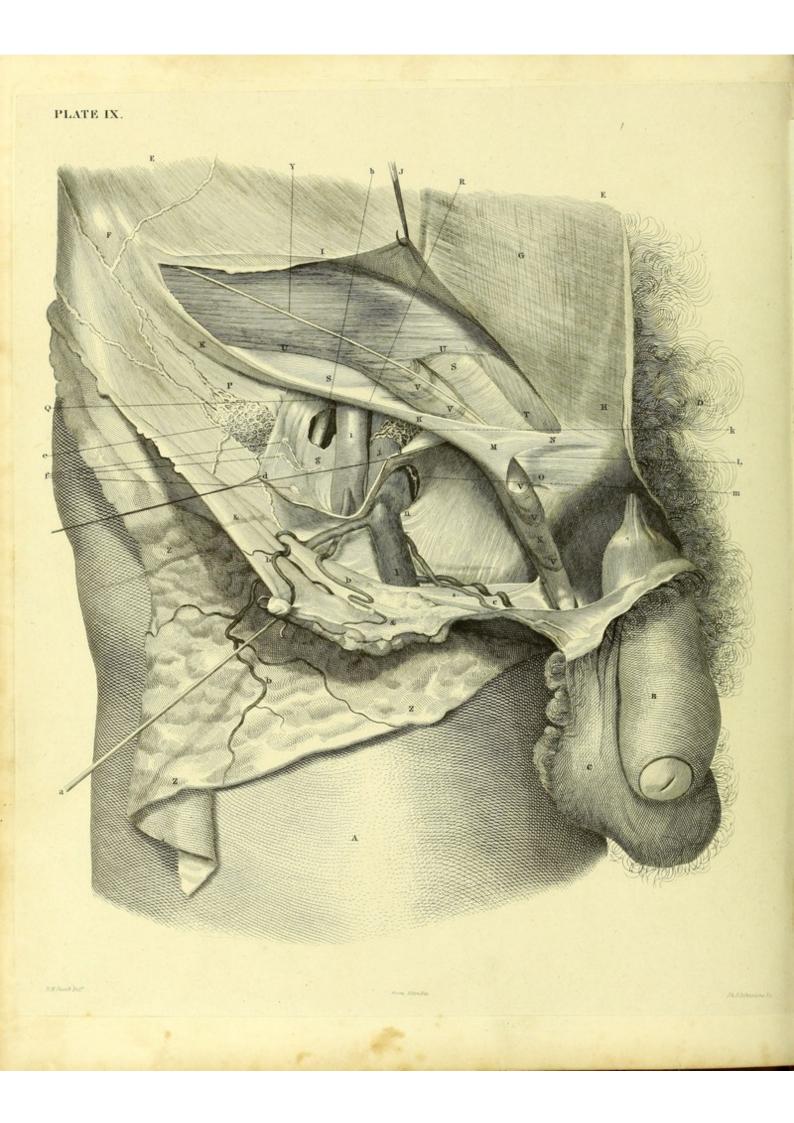


PLATE NINTH.

INGUINAL AND CRURAL CANALS, SEEN EXTERIORLY.

Α.	Portion of the thigh.	V.V.V.V.	V. Loops of the cremaster muscle, formed by
В.	Penis.	The second second second	prolongations on the cord from the inferior
C.	Scrotum.		border of the internal oblique and transver-
D.	Hair of the pubis.		salis muscles,
E. E.	Portion of the anterior parietes of the abdomen.	X.	Spermatic cord.
F.	Anterior and superior spinous process of the	Y.	Ilio-scrotal nerve of the lumbar plexus.
	ilium. Rectus muscle in its sheath.	Z. Z. Z.	Skin and adipose tissue of the parietes of the abdomen reflected downwards.
G. H.			
	Pyramidal muscle, also in its sheath.	&. &.	Aponeurosis of the fascia superficialis.
I. J.	Aponeurosis of the external oblique. Hook raising a portion of the fascia of the ex- ternal oblique, detached above from the cru- ral arch in the situation where it forms the	a.	Cord knitted to the aponeurosis of the fascia superficialis, detached from the parietes of the abdomen, and reflected upon the thigh and hip.
	anterior wall of the inguinal canal.	b. b. b.	Vessels of the integuments of the abdomen.
K. K.	Crural arch.	c.	External superficial vessels of the genitals.
L.	Inguinal ring traversed by the spermatic cord, and giving off from its margin a fibrous ex- pansion to the cord.	d. d.	Anterior parietes of the crural canal, incised and reflected from within outwards to shew the canal.
M.	Fibrous expansion detached from the margin of the inguinal ring,	e.	Large lymphatic ganglion situated over the crural canal.
N.	Internal or superior pillar of the ring.	f.	Openings of the anterior parietes of the crural
0.	External or inferior pillar of the ring.		canal, which are traversed by the lymphatic
P.	Situation where the crural arch connects itself		vessels.
	with the whole thickness of the fascia lata.	g.	External parietes of the crural canal formed
Q.	Situation where the crural arch adheres only	0	by the deep fibres of the fascia lata, sup-
100000	to the superficial fibres of the aponeurosis of the fascia lata, fibres which are here detached		ported upon the psoas and iliacus internus muscles.
	and turned outwards.	h.	Opening made at the external part of the cru-
R.	Passage opened above, which forms the crural arch, and which, in continuing itself back- wards and upwards with the fascia transver-		ral canal, to shew the crural nerve, situated immediately behind it in the sheath of the psoas muscles.
	salis, forms the passage which constitutes the	i.	Femoral artery lying on the outer side of the
	inguinal canal.		femoral vein.
S. S.	Fascia transversalis, which forms the posterior	j.	Femoral vein.
	wall of the inguinal canal in a situation where, of the three muscles of the abdomen,	k.	Lymphatic ganglion in the internal part of the superior opening of the crural canal.
	we find only the external oblique.	1.	Internal saphena vein.
Т.	Situation where the fascia transversalis arises from the external border of the rectus.	m.	Inferior opening of the crural canal, crossed by the internal saphena vein.
U. U.	Inferior conjoined and horizontal edges of the internal oblique and transversalis muscles.	n.	Falciform bundle of fibres, situated at the junc- tion of the saphena and femoral veins.

PLATE TENTH.

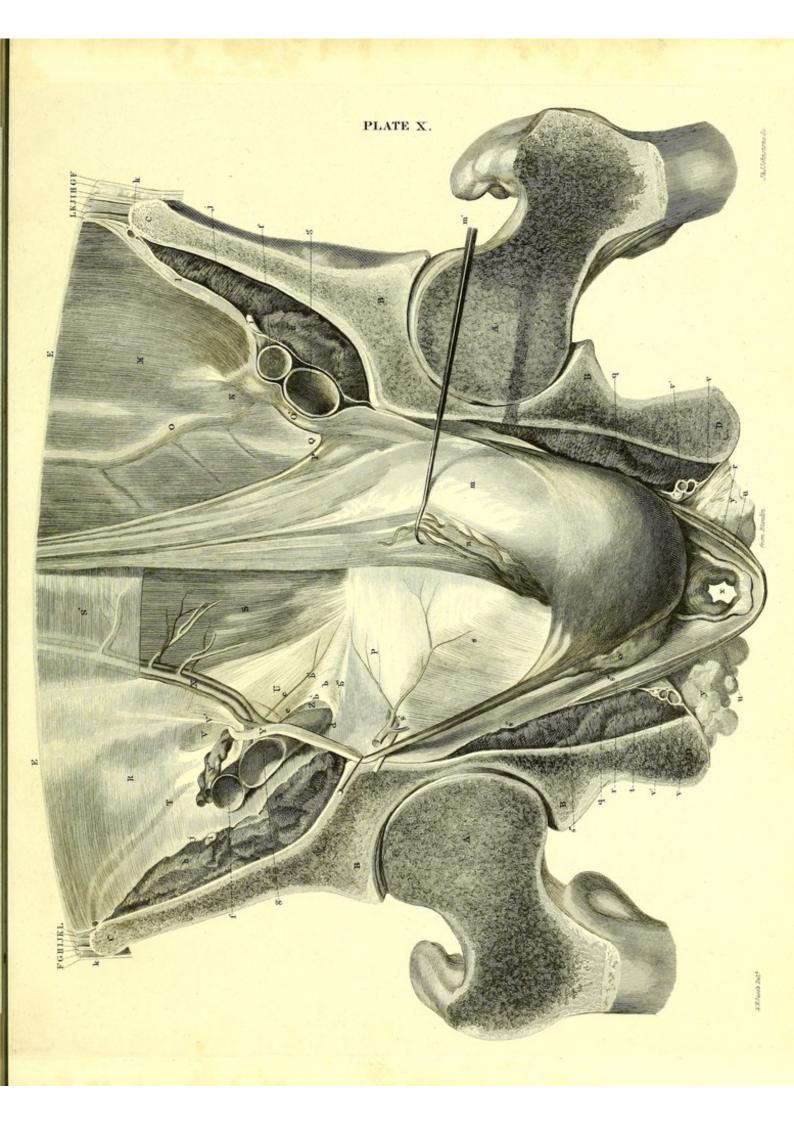
POSTERIOR VIEW OF THE ANTERIOR ABDOMINAL PARIETES, TO SHOW THE SUPERIOR ORIFICES OF THE INGUINAL AND CRURAL CANALS; AND ALSO A PERPENDICULAR AND TRANS-

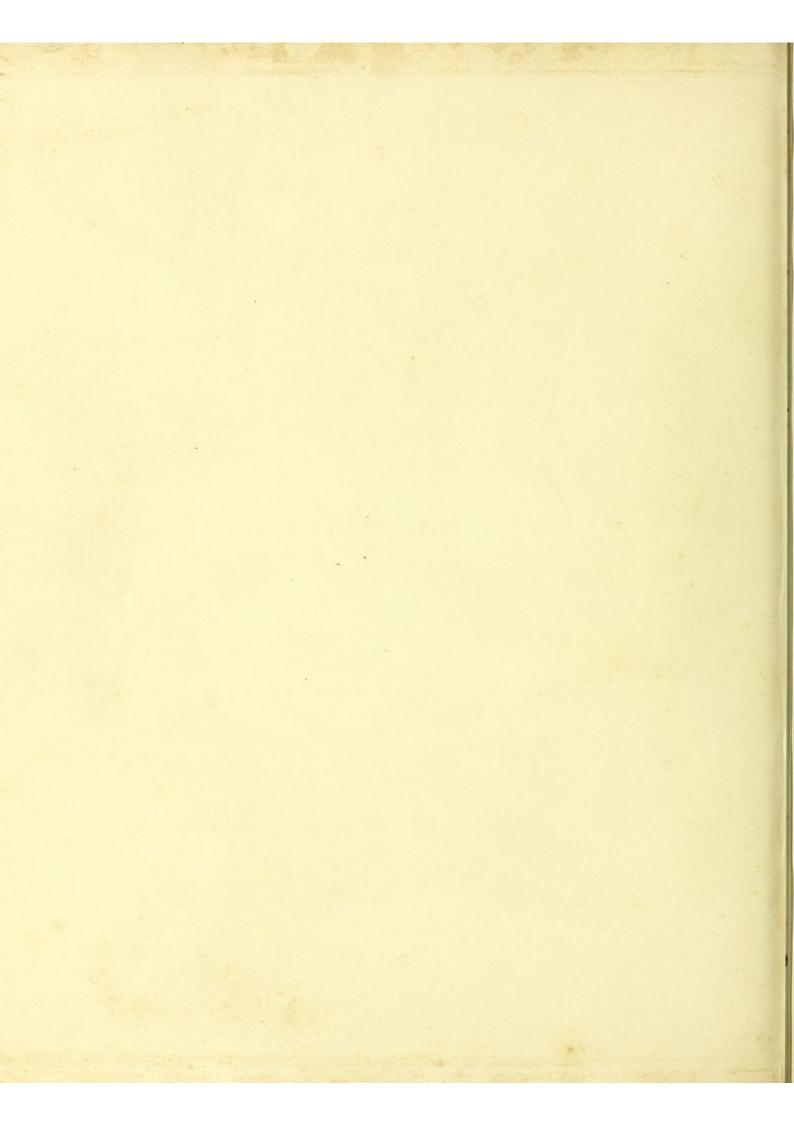
VERSE SECTION OF THE PELVIS, TO SHOW THE INTERNAL ILIAC REGION

AND THE CONNEXION OF THE PERINEAL APONEUROSIS WITH

THE APONEUROSES OF THE CAVITY OF THE PELVIS.

A. A.	Section of the upper part of the femur. Perpendicular section of the iliac bones, from	b".	Portion of the ligament adhering to the crura arch,
	the anterior and superior spine of the ilium to the tuberosities of the ischium.	b***.	Portion of the ligament adhering to the cres of the pubis,
. C.	Anterior superior spines of the ilium.	c.	Branch of the epigastric artery passing a little
D. D.	Tuberosities of the ischia.		above Gimbernaut's ligament.
. E. . F.	Inferior portion of the anterior abdominal parietes, formed by The skin,	d.	Posterior side of the superior orifice of the crural canal, formed by the ascending ra- mus of the pubis.
. G.	Subcutaneous cellular tissue,	e.	Anterior side of the superior orifice of th
I. H. I.	Fascia superficialis, Aponeurosis of the external oblique muscle,		crural canal, formed by the crural arch, or the level of the inguinal canal.
J.	Internal oblique muscle,	f. f.	External iliac artery situated opposite the ex
. K. L.	Transversalis muscle, Transversalis fascia, very thin,		ternal parietes of the superior orifice of th inguinal canal, and giving off the epigas
ſ.	Right side of the abdominal parietes on which		tric and circumflex iliac arterics.
	the peritoneum still remains.	g.g.	External iliac vein giving off the two epigas
i.	Place where the peritoneum in the foctus forces		tric veins.
	itself within the inguinal canal, and where,	h. h. h. h. i. i.	The external iliac and psons muscles united.
).	in the adult, it presents a wrinkled cicatrix. Tract of the epigastric vessels.	j. j.	Crural nerve. Aponeurosis of the iliac fascia.
<u>.</u>	Tract of the vas deferens.	k. k.	External iliac artery enclosed in a small
	Projection of the umbilical artery.		sheath formed by the junction of the ilia
1.	Inguinal fossa outside of the peritoneum.		and transversalis fasciæ.
	Left side of the anterior abdominal parietes,	1.	Cellular tissue under the peritoneum of th
	on which, the peritoneum having been re-		right internal iliac fossa.
	moved, we see distinctly the fascia transver- salis.	m.	The bladder drawn to the right, and falling little down from its wanting the support of
	Situation where the posterior part of the sheath of the rectus muscle is wanting.	1	the rectum. Hook applied to the bladder
	Place where the sheath of the rectus muscle is complete.	m'. n.	Hook applied to the bladder. Plexus of the vesical veins. Seminal vesicle of the left side joined to th
	Place where the aponeurosis of the fascia	0.	vas deferens.
•	transversalis accompanies the aponeurosis of	р.	Ascending ramus of the pubis.
	the iliac fascia, behind the circumflex iliac	q. q.	Internal obturator muscles.
	artery, of which we see the tract.	r. r.	The levator muscles of the anus.
	Place where the aponeurosis of the fascia	5.	Pelvic fascia.
	transversalis forms the posterior margin of the inguinal canal, and goes to unite itself	s'.	Obturator hole traversed by its vessels and nerves.
	to the outer side of the tendon of the rectus	s".	Place where the pelvic fascia lies upon th
	muscle. Upper orifice of the inguinal canal formed by	s'''.	internal obturator muscle. Place where the pelvic fascia lies upon th
•	the transversalis fascia, in the middle of	· ·	levator muscle of the anus.
	which this last aponeurosis becomes funnel-	s"".	Place where the pelvic fascia, on its externa
	shaped in the inguinal canal.		aspect, gives off a fibrous expansion which
°.	Bundle of fibres which form the lower and	1	descends between the two last muscles.
	inner portion of the superior orifice of the	t.	Place where the aponeurosis which covers th
	inguinal canal. Epigastric artery with its two veins placed		internal aspect of the internal obturato muscle divides into two layers, viz.
	within the superior orifice of the inguinal canal, first under the peritoneum, after-	u. u.	Fibrous layer, which covers the inferior aspect of the levator anus,
	wards entering the sheath of the rectus	v. v.	Fibrous layer, which descends on the interna
	muscle.	1.000	aspect of the internal obturator muscle, t
	The vas deferens, reflecting itself at an acute		fix itself to the tuberosity of the ischium.
	angle on the inferior part of the superior	v'. v'.	Pudic vessels and nerves enclosed in a sma
	orifice of the inguinal canal, and on the epigastric vessels.		sheath formed by the preceding aponeurosis Anus and inferior part of the rectum, embrac
r.	The spermatic artery with its two veins pass- ing through the inguinal canal.	x.	ed by the superior and inferior aponeurose and the levator muscle of the anus.
	Superior orifice of the crural canal, formed on the outer side by	у. у.	Fatty cushion placed between the anus an the tuberosity of the ischium in an apo
	The aponeurosis of the iliac fascia, and on the inner side by		neurotic angle, formed partly by the aponeu rosis of the internal obturator muscle, an
	Gimbernaut's ligament,		partly by that which covers the lower part
	Falciform edge of Gimbernaut's ligament,		of the levator muscle of the anus.





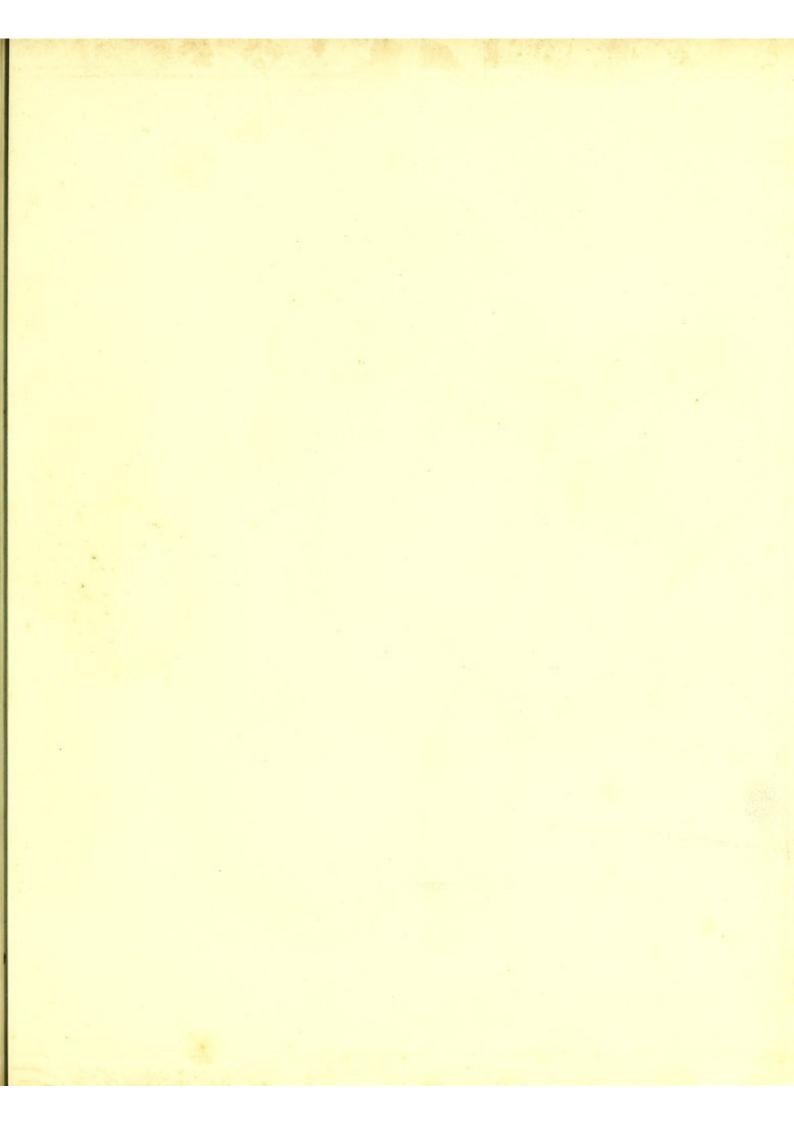




PLATE ELEVENTH.

INTERIOR OF THE PERINEUM AND CAVITY OF THE PELVIS, TO SHOW THEIR APONEUROSES.

Λ. Section of the pubis, a little to the outer side of a. the symphysis. Lateral section of the sacrum and last lumbar b. b. B. B. c. vertebræ. Bundles of lumbar and sacral nerves enclosed in d. C. e. f. the spinal canal. D. D. Section of the spine of the sacrum. g. Last intervertebral ligament. Fleshy mass of the sacro-spinal muscles. E. F. F. G. Aponeurosis of the sacro-spinal muscles. H. Aponeurosis of the great dorsal united to the pos-terior fibres of that of the transverse. h. i. I. I. Subcutaneous tissue. j. k. J. The skin. K. Penis. L. M. Scrotum. 1. Hair of the pubis. Hook applied to the rectus muscle. Epigastric artery. m. N. 0. P. P. n. Crest of the ilium. Iliac muscle. Psoas magnus muscle. 0. 0. Q. R. S. T. Tendon of the psoas minimus muscle. p. End of the aorta. Left common iliac artery. q. U.V.X.Y.Z. r. External iliac artery. Internal iliac or hypogastric artery. Obturator artery. 8. Glutæal artery. Sciatic and internal pudic arteries. 8.

Cord of the umbilical artery. Vesical arteries. End of the inferior vena cava. Left common iliac vein. External iliac vein. Cut trunk of the internal iliac or hypogastric vein. One of the branches of the obturator vein ending in the external iliac, at the middle of the crural arch, a distribution very common, if not constant. The rectum thrown outwards. The bladder also thrown outwards. The left seminal vesicle. The prostate visibly covered by a prolongation of the pelvic aponeurosis which forms its sheath. Superior perineal aponeurosis. Pubo-prostatic ligament formed by the superior perineal aponeurosis. Notch for the passage of veins. Arch of the levators of the anus, formed by the pelvic fascia, and giving rise to the lesser pel-vic fascia. Obturator hole. Obturator nerve. Sacro-sciatic notch, in which we observe the glutæal artery, and near to which we find the glutzeal nerve. Sciatic notch, traversed by the sciatic and internal pudic arteries.

PLATE TWELFTH.

FIGURE FIRST. Crural Hernial Sac removed, to show the hole by

- Tendinous bands, which cross the direction of the B. B. fibres of the aponeurosis of the external oblique near the inguinal ring. C. C. C. Aponeurosis of the external oblique muscle of the abdomen, cut from the crest of the ilium,
- which it descends in the Female. Seat of the pubis. B. C. C. D. E. F. G. H. I. K. L. M. Crural arch extending towards the ilium. Abdominal muscles. Crural arch. Fascia lata. Semilunar edge of the fascia lata. Third insertion of the external oblique. Crural artery. Crural vein.
- Crural sheath.
- Abdominal ring. The orifice by which the crural hernia descends, formed on the outer side by the crural sheath, on the inner by the semicircular insertion of the tendon of the external oblique, and above in part by the crural sheath and in part by the semilunar edge of the fascia lata. The division in the crural hernia is made at the upper and inner part.

FIGURE SECOND

Shows the Crural Sheath.

A.	Pubis.
B.	Ilium.
C. C.	Abdominal muscles drawn up.
D.	Transversalis muscle.
E.	Its tendon.
F.	Seat of the posterior edge of the crural arch.
G. G.	Fascia transversalis.
H.	Inner portion of the same fascia.
I.	Fascia iliaca.
K.	Crural sheath.
L.	Crural artery.
M.	Crural vein.
N.	Saphena major vein.
0.	Anterior crural nerve.
P.	Fascia lata turned back.
Q	Tendon of the external oblique muscle drawn down.

FIGURE THIRD.

Dissection of a Case of	Inguinal Hernia, to show
the Coverings of the	Sac and relative situations
of the Vessels.	

Inguinal ring of the left side. Δ. Α.

- from the linea alba, and from the vicinity of the inguinal ring. Crural arch of the left side. D. E. E. Aponeurotic and membranous sheath, formed by the cremaster muscle, laid open ; the borders of the opening are held asunder by two hooks. Continuation of the sheath formed by the cremas-ter muscle, in which are enclosed the spermatic F. cord and tunica vaginalis of the testicle. Fleshy fibres of the cremaster muscle. Cellular tissue, soft and pliant, which forms an intermediate cushion between the cremaster G. G. Н. Н. muscle and hernial sac. Hernial sac formed by the peritoneum. I. I. K. K. Portion of the omentum contained in the hernial sac. Sheath of the rectus muscle of the left side open-ed and reflected. L. L.
- Portion of the great peritoneal sac, the transpa-rency of which permits us to distinguish the convolutions of the intestines. M.
- The rectus muscle of the left side reflected on the N. right side of the abdomen. 0. P.
- The internal oblique muscle of the left side. Portion of the great peritoneal sac appearing un-der the crural arch of the left side, after having separated the aponeurosis of the fascia lata, and elevated the Fallopian ligament. Skin of the scrotum.

Q. R. Femoral artery.

- Femoral vein. Anterior iliac artery. S. T.
- U. v. v.
- Origin of the epigastric artery. Tract of the epigastric artery of the left side, along the rectus muscle, after having passed behind the hernial sac.
- Origin of the epigastric vein. Tract of the epigastric vein behind the neck of the hernial sac, and along the rectus muscle. X. Y. Y. Saphena vein.

Anterior crural nerve. a.

Z.

b.

с. d.

e. f.

g. h.

i. j.

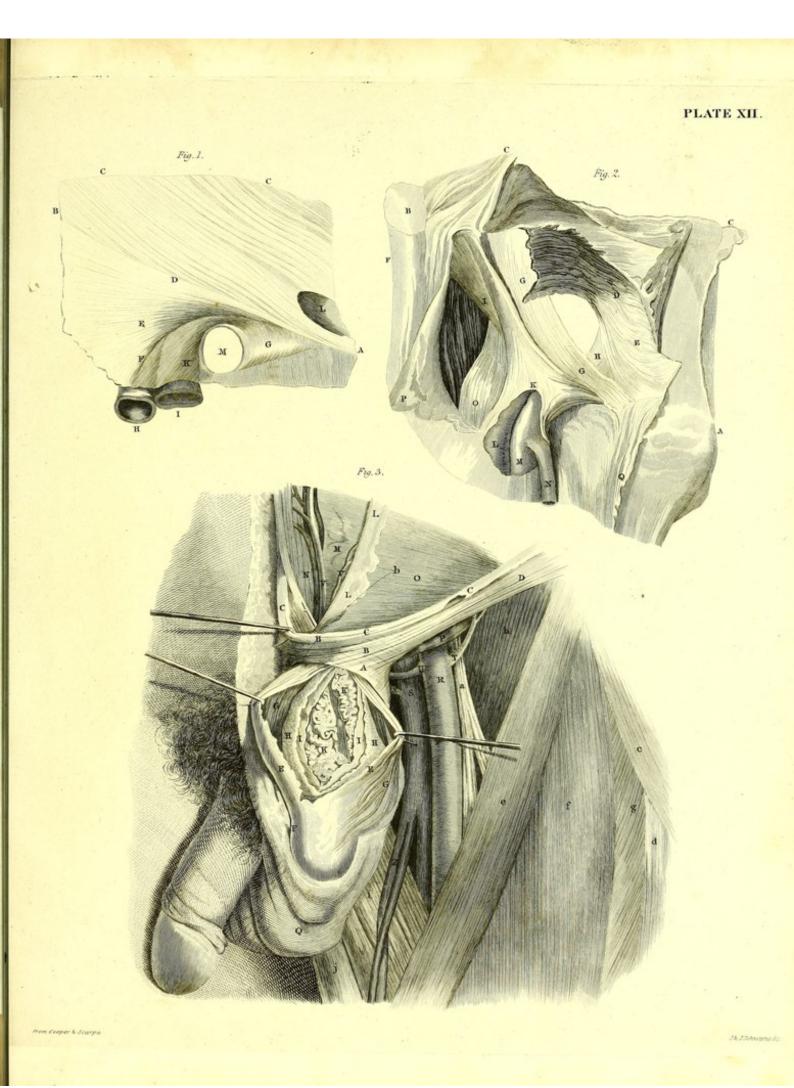
- Curved dotted line, which indicates the direction followed by the viscera in passing through the canal, to form the external inguinal hernia, which is the more common. Glutæus medius muscle.
- Fascia lata.

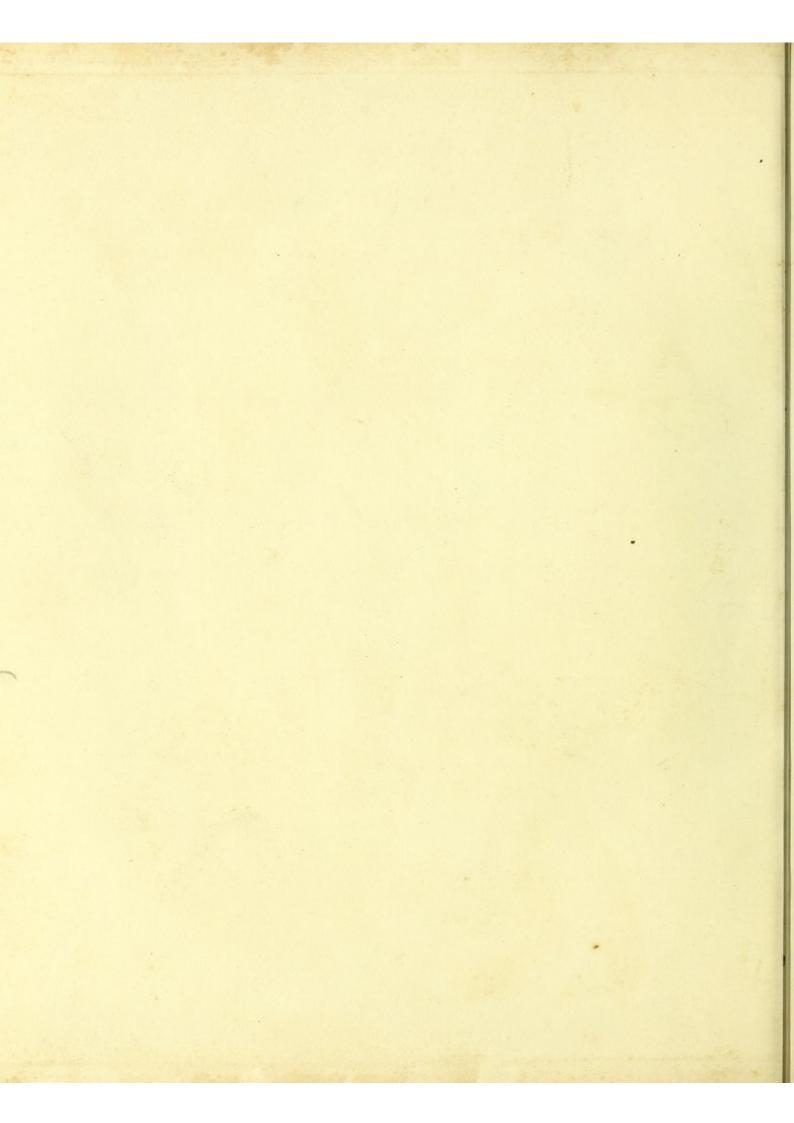
Sartorius muscle.

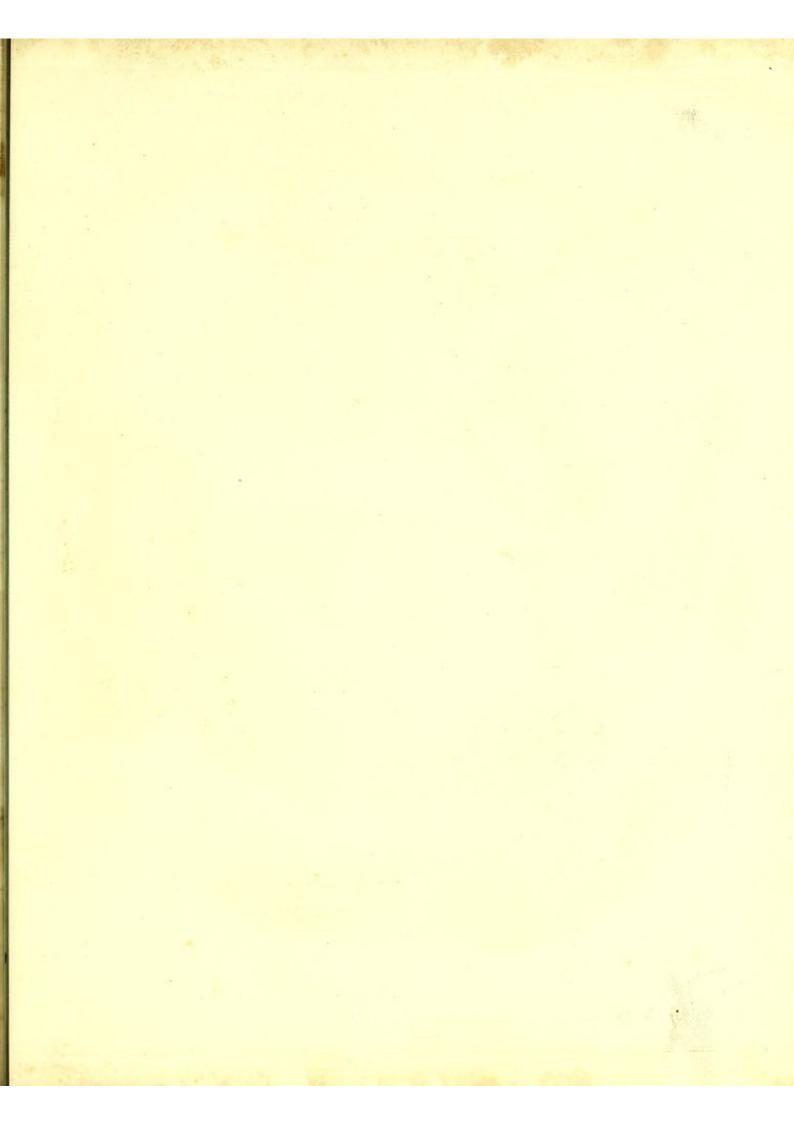
Rectus muscle.

Vastus externus muscle.

- Iliacus internus muscle.
- Tendons of the adductor muscles of the thigh. Gracilis muscle.







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C

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from Blandin

D

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H

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PLATE THIRTEENTH.

VIEW OF THE PERINEUM IN THE MALE.

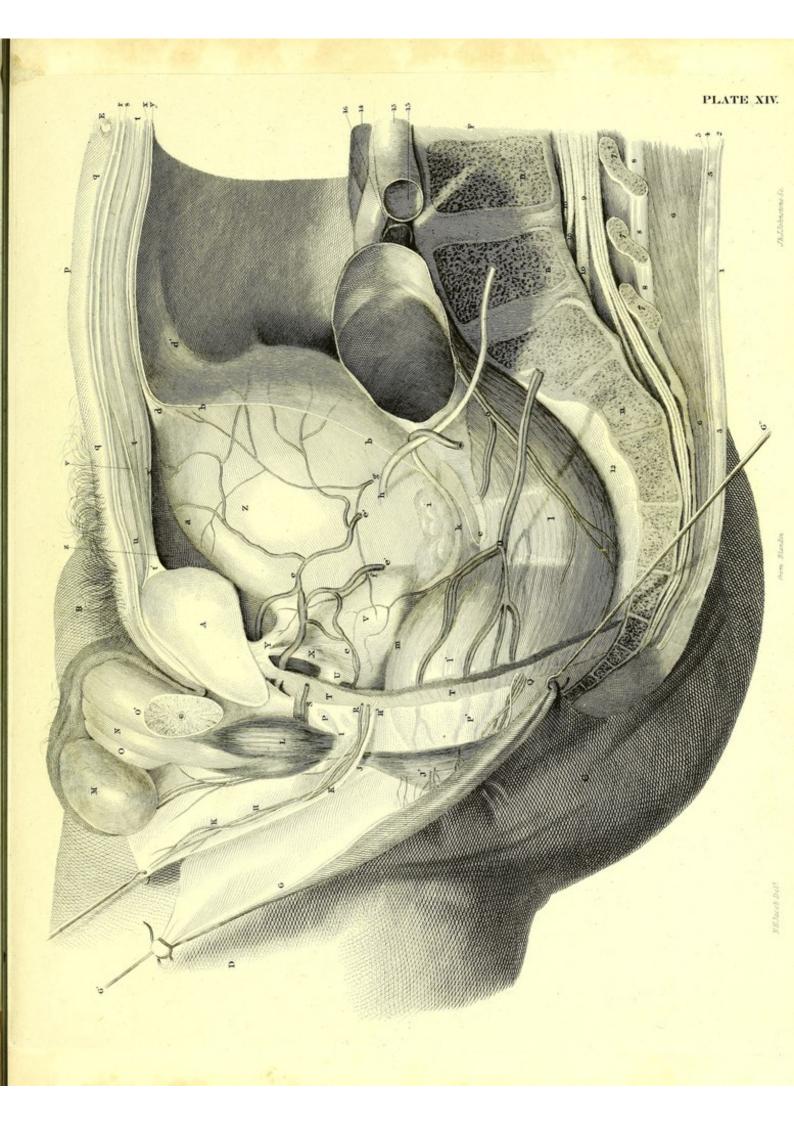
Δ.	Penis.	Q.
B. B.	Testicles and their envelopes.	
C. C.	Portion of the inner sides of the thighs, on	
	which the aponeurosis is exposed.	R.
D. D.	Portion of the glutzeus maximus muscle.	
	Section of the skin and subcutaneous cellu-	R'.
	lar tissue.	
E	Coccyx.	
F. F.	Portion of the skin of the buttock.	
G.	Hook applied to the glutæus maximus mus- cle of the right side, to show the subja-	R".
	cent parts.	
н. н.	Tuberosities of the ischia.	
I.	Portion of the right great sacro-sciatic li- gament.	
J. J.	Rami of the pubis.	S.
K.	Symphysis of the pubis.	S'.
L.	Inferior or superficial aponeurosis of the perineum, detached in front and on the	Т.
	sides, drawn down, twisted on its base,	т.
	and thrown to the left.	
L'.	Place where the inferior perineal aponeuro-	12
	sis connects itself with the middle (R).	U.
L". L".	Lateral border of the inferior aponeurosis of	v.
	the perineum, which was attached to the	V'.
-	corresponding ramus of the arch of the	a la com
	pubis at the middle of the dotted line J.	X. X. 1
L.". L.". L.".	Threads and hook applied on the anterior	Y. Y.
	part of the inferior perineal aponeurosis.	
M.	Superficial artery and nerve of the perineum	
	close to the inferior perineal aponeurosis,	1775-1770
	and displaced by the drawing out of the	Y. Y.
	aponeurosis.	
M [°] .	Dotted line indicating the natural position	
	of these vessels and nerves.	Z. Z.
N.	Cavernous body, with erector penis muscle.	2000
N'.	Cavernous body cut across, and penetrated	Z. Z.
	in the centre by its vessels.	
0.	Spongy portion of the urethra.	
P.	Acceleratores urinæ muscles,	
P.	Posterior insertion of the muscle on the	
	superior aspect of the inferior perineal aponeurosis.	

Transverse muscle of the perineum proceed- ing obliquely in front to the bulb of the	
urethra.	
Anterior portion of the middle perincal aponeurosis,	
Notch below the symphysis of the pubis, formed in part by the middle perineal aponeurosis, and giving passage to the vein, arteries, and nerve of the dorsum	
Notch formed purposely in the middle pe- rineal aponeurosis, to show, above it, the superior branch of the internal pudic artery, and the transverse artery of the perineum.	
Artery of the cavernous body.	
Artery and nerve of the dorsum of the penis.	
Vein of the dorsum of the penis proceeding towards the notch R', of the middle pe- rineal aponeurosis.	
Anus.	
Coccygean extremity of the splincter of the anus.	
Inferior hemorrhoidal vessels and nerves. Posterior portion of the middle perineal aponeurosis, which is here inferior; the inferior aponeurosis existing only in front.	
Place where some fibres of the glutzeus maximus take their origin from the pre- ceding aponeurosis.	
Pelvic aponeurosis, lying on the internal	
aspect of the internal obturator muscle. Angular sinus, formed by the reunion above of the preceding aponcurosis of the in- ternal obturator muscle, and of the pos- terior portion of the middle aponeurosis. The sinus is crossed by the inferior he- morrhoidal vessels and nerves X. X. X. and filled in the fresh state by a fatty	
	formed in part by the middle perineal aponeurosis, and giving passage to the vein, arteries, and nerve of the dorsum of the penis. Notch formed purposely in the middle pe- rineal aponeurosis, to show, above it, the superior branch of the internal pudic artery, and the transverse artery of the perineum. Artery of the cavernous body. Cavernous body. Artery and nerve of the dorsum of the penis. Vein of the dorsum of the penis proceeding towards the notch R'. of the middle pe- rineal aponeurosis. Anus. Sphincter of the anus. Coccygean extremity of the sphincter of the anus. Inferior hemorrhoidal vessels and nerves. Posterior portion of the middle perineal aponeurosis, which is here inferior; the inferior aponeurosis existing only in front. Place where some fibres of the glutæus maximus take their origin from the pre- ceding aponeurosis. Pelvic aponeurosis, lying on the internal aspect of the internal obturator muscle. Angular sinus, formed by the reunion above of the preceding aponeurosis of the in- ternal obturator muscle, and of the pos- terior portion of the middle aponeurosis. The sinus is crossed by the inferior he- morrhoidal vessels and nerves X.X.X.X.

PLATE FOURTEENTH.

SECTION PARALLEL TO THE AXIS OF THE BODY; OF THE PERINEUM, OF THE PELVIC PORTION OF THE ANTERIOR ABDOMINAL PARIETES, AND OF THE POSTERIOR SACRAL REGION; MADE A LITTLE TO THE OUTER SIDE OF THE MESIAL LINE.

Α.	Symphysis of the pubis.		branches, which terminate in the hypogastric
B.	Penis, lying upon the belly.		vein.
C.	Buttock.		Vesico-prostatic arterial branches.
D.	Thigh.		Vesical artery.
E.	Umbilicus.	h.	Ureter crossed superiorly and on the inner side
F.	Section of the inferior part of the spine.		by the vas deferens.
G.	Skin and subcutaneous tissue of the perineum.		Spermatic vesicle slightly raised.
G'.	Cord attached in front to the skin of the peri-	k.	Vas deferens below and on the inner side of the
G".	neum. Hook applied behind to the skin of the peri-	1.	corresponding vesicle.
0.	neum.		Rectum, of which we see principally the part deprived of peritoneum and the longitudinal
H.	Superficial or inferior perineal aponeurosis.		muscular fibres scattered uniformly upon its
H.	Posterior border of the inferior perineal aponeu-		surface.
	rosis, continuous with the inferior aspect of	г.	Inferior portion of the rectum, or anus.
	the middle aponeurosis.	m.	Place where the rectum and prostate are united
I.	Place where the accelerator urinæ muscle in-		by condensed cellular substance.
	serts itself on the superior aspect of the in-	n.	Lesser hemorrhoidal vessels.
	ferior perineal aponeurosis.	0.	Superior hemorrhoidal vessels, branches of the
J.	Place where the sphincter muscle of the anus		inferior mesenteric vessels.
	inserts itself on the inferior aspect of the in-	p.	Hypogastric portion of the anterior abdominal
	ferior perineal aponeurosis.	1.2	parietes, which comprehends,
J'.	Sphincter muscle crossed by small hemorrhoi- dal veins.		The skin, Aponeurosis of the fascia superficialis,
K. K.	Superficial vessels and nerves of the perineum.		Anterior portion of the sheath of the rectus
L.	Accelerator urinæ muscle.	3.	muscle,
M.	Right testicle exposed.	t. t.	Rectus muscle,
N.	Urethra.	ť.	Tendon of the rectus muscle,
0.	Root of the cavernous body untouched.	u.	Pyramidalis muscle enclosed in a small sheath,
0'.	Root of the cavernous body divided.	i hard to be	formed by a redoubling of the anterior part
Р.	Anterior portion of the middle perineal aponeu-		of the sheath of the rectus muscle,
1	rosis.	ν.	Aponeurotic fibres, sometimes wanting, which,
Р.	Posterior portion of the middle perineal aponeu-		when they exist, separate the rectus and py-
	rosis, inferior at this point.		ramidalis muscles, Dectarios postion of the shorth of the sector
Q.	Inferior hemorrhoidal vessels and nerves.	x.	Posterior portion of the sheath of the rectus,
R.	Origin of the superficial vessels and nerves of the perineum.	x'.	Place where the posterior part of that sheath is wanting, the rectus muscle coming in con-
S.	Transverse artery of the perineum, cut at its		tact with the peritoneum, or the bladder,
	origin and visible as far as the bulb, in con-	And the second second	according to circumstances,
	sequence of a slit in the middle perineal apo-	у.	Peritoneum lining the anterior abdominal pa-
	neurosis, which is entire below.	The second second	rietes, and reflecting itself below upon the
Т. Т.	Levator muscle of the anus.	C. Forderleiner T	bladder,
U.	Origin of the membranous portion of the ure-	z.	Space where the bladder, deprived of perito-
	thra.		neum, comes in contact with the anterior
V.	Prostate.	1.	abdominal parietes.
х.	Triangular fleshy fibres, which arise from the pubis under the pubo-prostatic ligaments, em-	2.	Posterior sacral region, which comprehends, The skin,
	bracing laterally the urethra and prostate, on	3. 3.	Subcutaneous cellular substance,
	the envelope of which the fibres terminate.	4.	Aponeurosis, formed by the union of the great
Y.	Pubo-prostatic ligament.		dorsal aponeurosis and the posterior fibres of
Z.	Bladder.		the aponeurosis of the transverse muscle of
а.	Anterior aspect of the bladder where the peri-		the abdomen,
	toneum is wanting, and which comes in con-	5.	Aponeurosis of the sacro-spinalis muscle,
	tact with the pubis and with the abdominal	6. 6.	Origin of the sacro-spinalis, common mass of
	parietes when the bladder is much distended.		the sacro-lumbalis, and longissimus dorsi
b. b.	Cut edge of the peritoneum, which covers the		muscles.
	posterior, and a part of the superior and in-	7. 7. 7.	Sections of the transverse processes of the ver-
	ferior aspects of the bladder.	8. 8. 8.	tebræ. Intervertebral ligaments.
с.	The bottom of the recto-vesical depression of the peritoneum, about two inches and a half	9.	Bundles of lumbar and sacral nerves.
	distant from the surface of the skin.		Apertures for the passage of the spinal nerves.
d.	Urachus, arising from the summit of the blad-		. Sections of the bodies of the vertebræ and sa-
	der, and slipping under the peritoneum of		crum.
	the anterior abdominal parietes.	12.	Cellular tissue which unites the rectum to the
ď'.	Ligament of the right umbilical artery.		anterior aspect of the sacrum, and to the
e. e.	Branches of the prostatic plexus of veins form-	1.000	coccyx.
	ed by the vesical veins and those of the pe-	13.	Termination of the aorta.
	nis, which pass under the symphysis pubis.	14.	Termination of the inferior vena cava.
e'. e'.	Cut ends of two prostatic and vesical veinous	15.	Left common iliac artery.
		16.	Left common iliac vein.



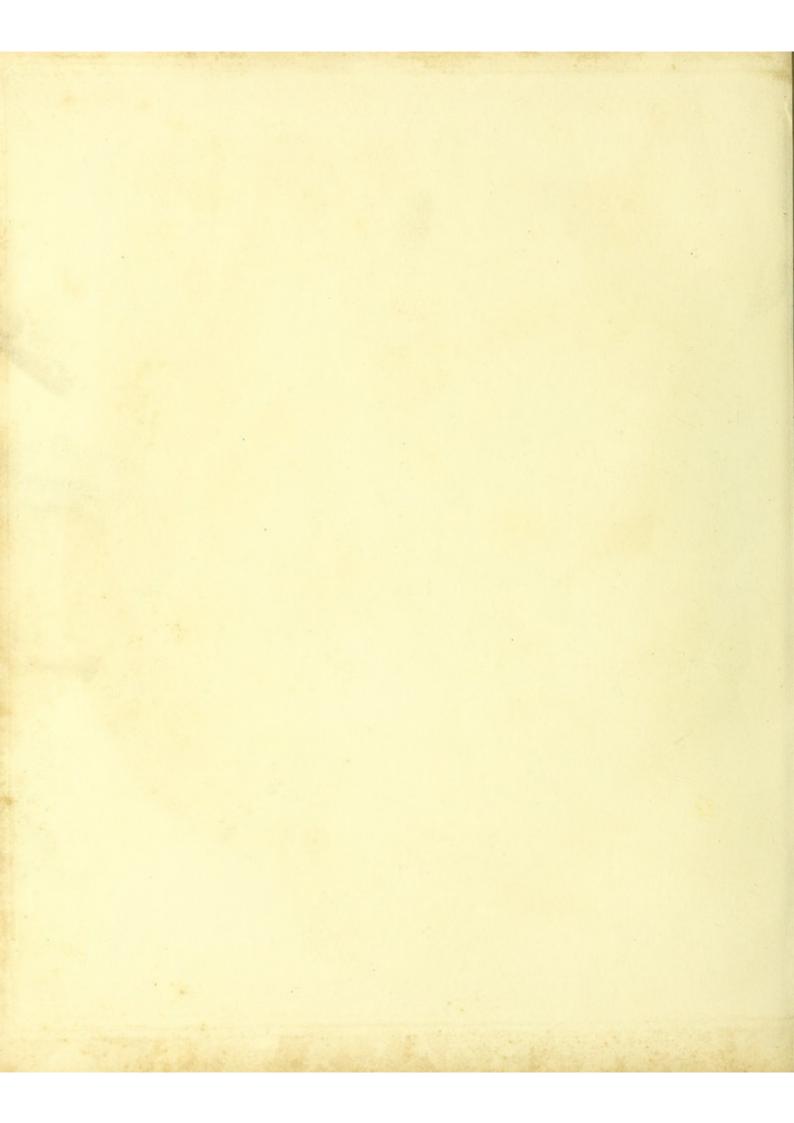


PLATE FIFTEENTH.

GENITO-URINARY ORGANS IN THE FEMALE.

Λ. Δ.	The thighs.	M.
B. B.	Buttocks.	N.
C. C.	Inferior portion of the anterior abdominal parietes.	
D.	Umbilicus.	
E.	Anterior commissure of the vulva.	1. 14
F.	Anus.	0. 0.
G. G.	External labia drawn outwards.	
н.	Clitoris drawn forwards and upwards, and on which we perceive its artery and nerve.	P. P.
I. I.	Rami of the pubis, on which we distinguish the roots of the cavernous bodies of the clitoris and	
	erector muscles.	Q.
J.	Meatus urinarius, of which the prominence, at its lower part, is serviceable for guiding the in-	
	troduction of the catheter.	R.
r.	Vagina.	
J'. K.	Vestibule.	
L. L.	Spincter muscle of the vulva.	R'.
L'. L'.	The two anterior bundles of the sphincter muscle	
	attached to the roots of the clitoris.	S.
L".	Posterior extremity of the sphincter muscle, sepa- rated from the sphincter of the anus by the origin of the inferior perineal aponeurosis.	S'.
L	Fibres of the sphincter of the vulva, which em- brace the meatus urinarius in the form of a sphincter.	

Anterior extremity of the sphincter of the anus. Cut edge of the inferior perineal aponeurosis, and situation where it furnishes points of insertion to the sphincter muscles of the vulva and anus.

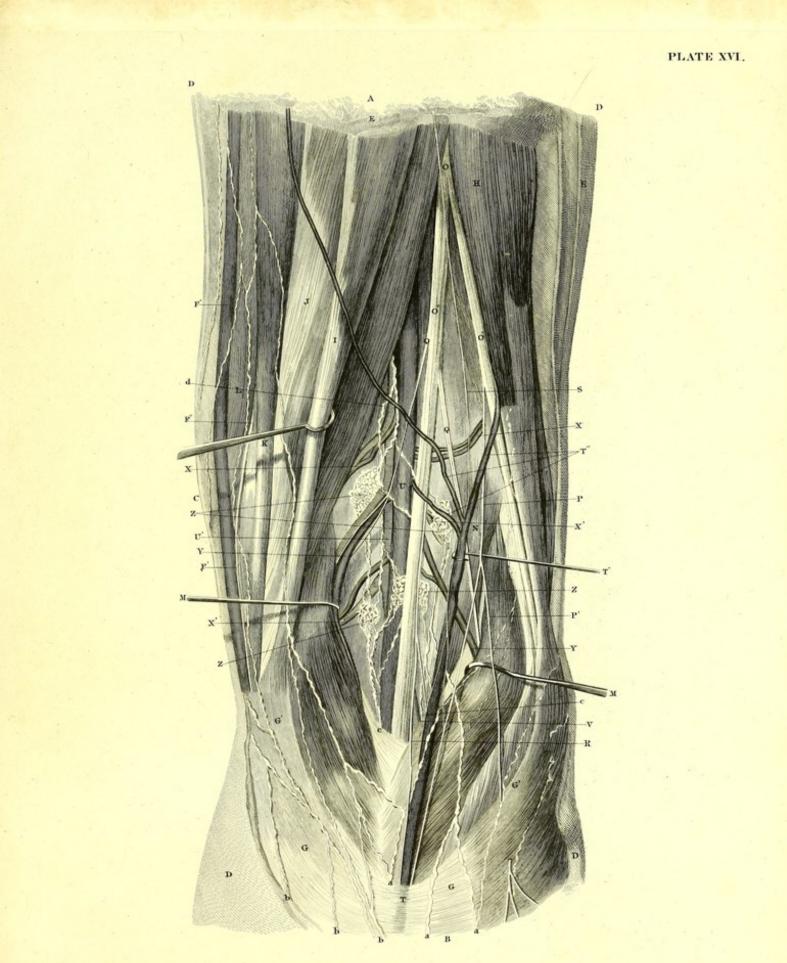
- anus. Anterior part of a depression placed on the side of the anus, and filled with fat. Superficial or vulvar branch of the internal pudic artery and nerve, which sends branches towards the artery and nerve, which sends branches towards the anus, and vagina, and principally to the ex-

- the anus, and vagina, and principally to the ex-ternal labia. Right side of the perineum, on which we have left the lesser aponeurosis, of which we dis-tinguish the transverse fibres. Deep branch of the internal pudic vessels and nerve of the right side, seen only through the middle perineal aponeurosis. The same branch on the left side lying exposed, the aponeurosis having been entirely removed. Transverse artery of the perineum. Arterial arch, placed at the root of the clitoris, which is sometimes cut in the median opera-tion for lithotomy, recommended by M. Du-bois. bois.

PLATE SIXTEENTH.

VIEW OF THE HAM OR POPLITEAL SPACE.

Α.	Inferior portion of the thigh.		into two branches, which anastomose with
B.	Superior portion of the leg.		the external saphena nerve or its branches.
C.	Inner condyle of the femur.	Т.	External saphena vein concealed under the
	The skin in the neighbourhood of the popliteal		aponeurosis.
	space.	T'.	Hook applied to the external saphena vein, to
E. E.	Subcutaneous cellular tissue.		draw it outwards,
F.	Internal saphena vein.	T".	Three terminating branches of the external
F".	Internal saphena nerve.		saphena vcin, one of which passes behind
F".	Place where the internal saphena nerve be-		the thigh, and forms the origin of the deep
	comes superficial, on leaving the sheath of		crural vein ; another, more or less developed,
	the sartorius muscle.	and a local division of the	joins with the popliteal vein ; the third, less
G. G.	Portion of the fascia of the leg.		constant than the others, becomes subcuta-
G'. G'.	Fibrous expansion detached from the tendons		neous, and proceeds on the inner side of the
	of the biceps and semi-tendinous muscles.		thigh to the internal saphena vein.
H.	Biceps muscle.	U.	Popliteal vein.
I.	Semi-tendinous muscle.	U'.	Popliteal artery.
J.	Semi-membranous muscle.	V.	Place where the artery is found, a little on the
К.	Rectus muscle.	aunderweiten eine	outer side of the internal popliteal branch of
L.	Sartorius muscle.	Sur de	the sciatic nerve.
M. M.	Hooks applied to the gastrocnemii muscles.	X. X.	External and internal superior articular vessels.
N.	Plantaris muscle.	X'. X'.	External and internal inferior articular vessels.
0.	End of the sciatic nerve leaving the sheath at	Y. Y.	Vessels and nerves of the muscles of the calf
	the back of the thigh.		of the leg.
0'.	External popliteal nerve.	Z. Z. Z.	Popliteal lymphatic ganglia.
0".	Internal popliteal nerve.	a. a. a.	Lymphatic vessels which follow the tract of the
P.	External branch of the external saphena		external saphena vein, and terminate in the
	nerve.	a strange of the	popliteal ganglia.
Р'.	Cutaneous branch, which detaches itself from the preceding nerve.	b. b. b.	Other lymphatic vessels which follow the in- ternal saphena vein to the ganglia of the
Q. Q.	Twin branches of the internal popliteal nerve.		fold of the groin.
R.	Internal branch of the external saphena nerve.	c. c.	Deep lymphatic vessels of the leg entering the
S.	End of the posterior cutaneous nerve of the		popliteal space.
1000	thigh, accompanying the popliteal portion	d.	Large lymphatic vessels ascending the tract of
	of the external saphena vein, and separated		the femoral vessels.



N.H.Jacob Dat

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