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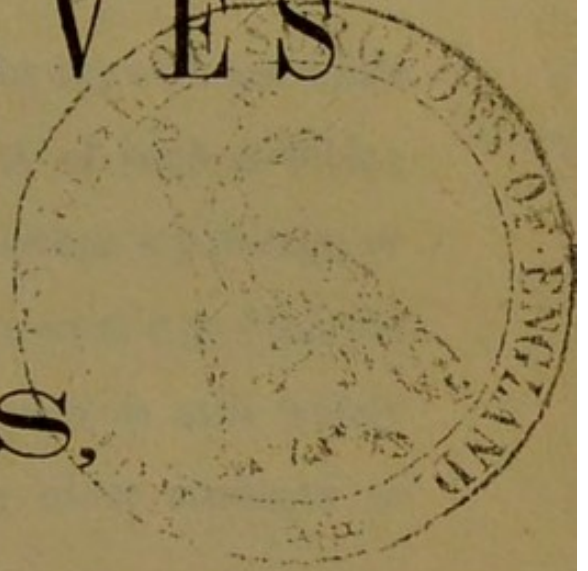
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THE

MOTOR NERVES

OF THE

MUSCLES,



GIVING A TABULAR VIEW OF THE MUSCLES OF THE
BODY, WITH THE NERVES WHICH SUPPLY THEM.

BY

RICHARD HUGHES, M.R.C.S.

London :

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MDCCCLVIII.

MOTOR VEHICLES

MUSCLES

THESE VEHICLES ARE THE RESULT OF THE
RESEARCHES WHICH HAVE BEEN

RICHARD BUCHANAN M.D.

LONDON
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P R E F A C E.

THE main portion of this table was compiled for my own use while a student. I was led to do this by feeling the need of such a table; and being unable to discover that any such existed, either separately, or in text-books of anatomy, I have been induced to collect and publish the rough notes I then made, from the belief that this want is still widely felt, and from the hope that they will be found by other students as useful as they were to myself.

With regard to the arrangement and nomenclature of the muscles, I have thought it better to adopt some system already known and recognised, than to originate one of my own. I have, therefore, in these matters, followed the best and most widely-used text-book,—Dr. QUAIN'S ANATOMY, by Dr. Sharpey and Mr. Ellis.

As this table will fall into the hands of beginners as well as of advanced students, I have thought it best, on the first mention of each nerve (though not afterwards), to carry it up to its derivation from the cerebro-spinal centre, thus — “Posterior Auricular of Facial of 7th Cerebral.”

I have to record my acknowledgements to JOHN WOOD, Esq., M.R.C.S., *Demonstrator of Anatomy at King's College, London*, for kind

suggestions and aid in the progress of this work. I am, however, myself solely responsible for the statements herein contained. I have endeavoured to make these as accurate as possible; but, should any errors have crept in, I shall be very thankful for intimations of them (and, indeed, for suggestions of any improvements), that, in the event of a re-print, they may be corrected.

WARWICK VILLA,

CLIFTONVILLE, BRIGHTON.

THE MOTOR NERVES OF THE MUSCLES.

MUSCLES OF THE HEAD AND FACE.

Occipito-Frontalis.	{	Posterior Auricular of Facial of
Occipital portion,.....	{	7th Cerebral.
Frontal portion,	{	Temporal of Temporo-Facial of
	{	Facial.
Superior Auricular,.....	{	Auriculo-Temporal of 5th Cere-
(Attollens Aures),...	{	bral.*
Posterior Auricular,.....	{	Posterior Auricular of Facial.
(Retrahens Aures),	{	
Anterior Auricular, ...	{	Auriculo-Temporal.*
(Attrahens Aures),...	{	
Orbicularis Palpebra-	{	Temporal and Malar of Temporo-
rum,.....	{	Facial.
Corrugator Supercilii,...		Temporal of Temporo-Facial.
Tensor Tarsi,		Infra-orbital of Temporo-Facial.
Pyramidalis Nasi,		Ditto ditto
Elevator labii superioris	{	
Alæque Nasi,	{	Ditto ditto
Compressor Nari,		Ditto ditto
Depressor alæ Nasi, ...		Ditto ditto

* Having been previously joined by filaments from Facial.

Levator proprius alæ Nasi, (Dilatator Na- ris),	}	Infra-orbital of Temporo-Facial.	
Levator labii superioris proprius,			
Levator anguli oris, ...	}	Ditto	ditto
Zygomaticus Major, ...		Ditto	ditto
Zygomaticus Minor, ...	}	Ditto	ditto
Depressor anguli oris, ..		Supra-maxillary of Cervico-Facial.	
Depressor Labii Infer- ioris, (Quadratus Menti),	}	Ditto	ditto
Levator Labii Inferioris, (Levator Menti), ...		Ditto	ditto
Buccinator,	}	Infra-orbital of Temporo-Facial.*	
Orbicularis Oris,		Ditto	ditto
Risorius (Santorini), ...	}	Buccal of Cervico-Facial.	
Masseter,		Supra-maxillary of Cervico-Facial.	
Temporal,	}	Inferior Maxillary (lesser division).	
External pterygoid, ...		Ditto	ditto
Internal pterygoid,	}	Ditto	ditto
Levator Palpebræ,		3rd Cerebral (superior division).	
Rectus Superior,	}	Ditto	ditto
Rectus Inferior,		Ditto	(inferior division).
Rectus Internus,	}	Ditto	ditto
Obliquus Inferior,		Ditto	ditto
Obliquus Superior,	}	4th Cerebral.	
Rectus Externus,		6th Cerebral.	

* Perhaps also by the buccal of the Inferior Maxillary of the 5th Cerebral; but this I think very questionable.

MUSCLES OF THE NECK.

Platysma myoides,	{	Infra-maxillary of Cervico-Facial. Superficial Cervical of Cervical Plexus.
Sterno-cleido-mastoid,...	{	2nd & 3rd Cervical (anterior branch) Spinal accessory of 8th Cerebral.
Digastric.		
Anterior belly,	{	Mylo-hyoid of Inferior Dental of Inferior Maxillary.
Posterior belly,		Facial.
Stylo-hyoid,		Ditto.
Stylo-glossus,		9th Cerebral (Hypo-glossal).
Stylo-pharyngeus,		Glosso-pharyngeal of 8th Cerebral.
Mylo-hyoid,	{	Mylo-hyoid of Inferior Dental of Inferior Maxillary.
Genio-hyoid,		9th Cerebral (Hypo-glossal).
Hyo-glossus,		Ditto.
Genio-hyo-glossus,		Ditto.
Sterno-hyoid,	{	Descendens Noni of 9th Cerebral (Hypo-glossal).*
Sterno-thyroid,		Ditto.*
Thyro-hyoid,		9th Cerebral (Hypo-glossal).
Omo-hyoid,		Descendens Noni.*
Scalenus Anticus,		Brachial Plexus.
Scalenus Medius,		Ditto.
Scalenus Posticus,		Brachial and Cervical Plexus.
Rectus Capitis Anti- cus Major,	{	1st Cervical (anterior branch).
Ditto Minor,	{	Cervical Plexus.

* At the loop formed by its junction with the Communicans noni of 2nd and 3rd Cervical.

Rectus Lateralis,	1st Cervical (anterior branch).
Longus Colli,	Brachial Plexus.
Constrictor Superior Pharyngis,	{ Glosso-pharyngeal. External laryngeal of superior la- ryngeal of Pneumo-gastric of 8th Cerebral.
Constrictor Medius, ...	{ Glosso-pharyngeal. Pharyngeal branches of Pneumo- gastric and Cervical Plexus.
Constrictor Inferior, ...	Ditto.
Palato-pharyngeus,	{ Branches from Meckel's and Otic Ganglion.
Levator palati mollis, ...	
Circumflexus palati, ...	
Azygos Uvulæ,	
Palato-glossus,	

MUSCLES OF THE BACK.

Trapezius,	{ Spinal accessory. 3rd and 4th Cervical.
Latissimus Dorsi,	{ Long subscapular from brachial plexus. Posterior of Cervical and Dorsal.
Rhomboideus Major, ...	{ Rhomboid of fifth Cervical (from Brachial Plexus).
Ditto Minor, ...	Ditto ditto
Levator Anguli Sca- pulæ,	{ Ditto ditto 2nd, 3rd, and 4th Cervical.
Serratus Posticus Supe- [rior,	{ Exterior of Posterior of Dorsal.
„ „ Inferior,	Ditto

Splenius Capitis,.....	{	External of posterior of 7 lower		
„ Colli,.....		Cervical.		
		Ditto ditto of 5 upper Dorsal.		
	{	Great Occipital of 2nd Cervical.		
Erector Spinæ,				
Sacro-lumbalis,	{	External of posterior of Dorsal		
		and Lumbar.		
Cervicalis Ascendens,	{	Ditto ditto of 4 lower Cervical.		
		Ditto of 6 upper Dorsal.		
Accessorius ad Sacro-	{	Ditto ditto of Dorsal.		
Lumbalem,				
Longissimus Dorsi,...	Do. do. of Dorsal and Lumbar.			
Transversalis Cer-	{	Ditto ditto of 4 lower Cervical.		
vicis (or, Colli), }		Ditto ditto of 6 upper Dorsal.		
Trachelo-Mastoid,	{	Ditto ditto of 4 upper Dorsal.		
		Ditto ditto of 6 lower Cervical.		
Spinalis Dorsi,		Internal of posterior of Dorsal.		
„ Cervicis (or	{	Ditto ditto of 6 lower Cervical.		
Colli),				
Complexus (including	{	Internal of posterior of 6 lower		
Biventer Cervicis),...		Cervical.		
		Ditto ditto of 5 upper Dorsal.		
	{	Great occipital of 2nd Cervical.		
Semi-spinalis Dorsi, ...	{	Internal of posterior of 10 upper		
		Dorsal.		
„ Colli,.....		Ditto ditto of 6 lower Cervical.		
Inter-spinales,		Ditto	ditto	ditto
Inter-transversales, ...	{	External of ditto ditto		
		Ditto ditto of Lumbar.		
Inter-accessorii,		Ditto	ditto	ditto

	{ Internal of posterior of 6 lower Cervical.		
Multifidus Spinæ,	{ Ditto ditto of Dorsal.		
	{ Ditto ditto of Lumbar		
	{ Ditto ditto of 3 upper Sacral.		
Levatores Costarum, ...	{ External of posterior of Dorsal.		
Rectus Capitis Posticus	{ Posterior of 1st Cervical.		
Major,	{		
Minor	{ Ditto ditto		
Obliquus Capitis Supe-	{		
rior,	{ Ditto ditto		
Inferior, {	{ Ditto ditto		
	{ Ditto of 2nd Cervical.		

MUSCLES OF THE UPPER EXTREMITY.

Pectoralis Major,	{ External and internal Anterior Thoracic of outer and inner cords of Brachial Plexus.		
Pectoralis Minor,	{ Internal anterior thoracic from inner cord of ditto.		
Subclavius,	{ 5th and 6th Cervical (in Brachial Plexus).		
Serratus Magnus,	{ Posterior thoracic (external respi- ratory) from 5th and 6th Cer- vical in Brachial Plexus.		
Deltoid,	{ Circumflex of posterior cord of do.		
Supra-spinatus,	{ Supra-scapular of 5th and 6th Cervical in ditto.		
Infra-spinatus,	{ Ditto ditto ditto		

Teres Minor,	Circumflex.		
Teres Major,	{	2nd and 3rd sub-scapular from posterior cord of ditto	
Sub-scapularis,		1st and 2nd sub-scapular.	
Coraco-brachialis,	{	Musculo-cutaneous from outer cord of ditto.	
Biceps,		Ditto	ditto ditto
Brachialis Anticus,	{	Ditto ditto ditto	
		Musculo-spiral from posterior cord of ditto.	
Triceps,		Ditto	ditto ditto
Pronator Radii Teres, ...	{	Median from outer and inner cord of ditto.	
Flexor Carpi Radialis, ..		Ditto	ditto ditto
Palmaris Longus,		Ditto	ditto ditto
Flexor sublimis digito- rum,	{	Ditto ditto ditto	
Flexor carpi ulnaris, ..		Ulnar from inner cord of ditto	
Flexor profundus digi- torum.			
Ulnar origin,		Ditto	ditto ditto
Interosseous origin, ..		Anterior interosseous of Median.	
Flexor Longus Pollicis,		Ditto	ditto ditto
Pronator Quadratus, ...		Ditto	ditto ditto
Supinator Longus,		Musculo-spiral.	
Extensor carpi radialis longior,	{	Ditto	
„ „ brevior, ...		Posterior interosseous of Musculo- Spiral.	
Extensor communis digi- torum,	{	Ditto ditto	

Extensor Minimi Digiti,	{	Posterior interosseous of Musculo-	
		Spiral.	
Extensor carpi ulnaris.		Ditto	ditto
Extensor ossis metacarpi	{	Ditto	ditto
pollicis,			
Extensor primi inter-	{	Ditto	ditto
nodii pollicis,			
Extensor secundi inter-	{	Ditto	ditto
nodii pollicis,			
Extensor Indicis,		Ditto	ditto
Supinator Brevis,		Ditto	ditto

MUSCLES OF THE HAND.

Abductor pollicis,	Median.
Opponens „	Ditto
Flexor brevis „	
Outer head,.....	Ditto
Inner head,.....	Ulnar.
Adductor „	Ditto
Palmaris brevis,	Ditto
Abductor minimi digiti,	Ditto
Flexor brevis „ „	Ditto
Opponens, „ „	Ditto
Interossei (Dorsal and } Palmar,	Ditto
Lumbricales.	
1st,	3rd digital of Median.
2nd,	4th ditto ditto
3rd and 4th,	Ulnar.

MUSCLES OF THE ABDOMEN AND THORAX.

External oblique,	{	Anterior branches of Intercostals of Dorsal.
Internal oblique,	{	Anterior of 6 lower Intercostal. Ilio-inguinal and ilio-hypogastric of Lumbar plexus.
Transversalis,		Anterior of 6 lower Intercostal.
Rectus,	{	Ditto ditto Ilio-hypogastric.
Pyramidalis,		Ditto
Quadratus Lumborum, ..		Posterior of Lumbar.
External Intercostals, ..		Anterior of 6 upper Intercostal.
Internal ,,		Ditto ditto
Triangularis Sterni, ...	{	Ditto ditto (except 1st and 2nd).
Diaphragm,		Phrenic of 3rd, 4th, & 5th Cervical

MUSCLES OF THE PERINÆUM.

External Sphincter Ani,	{	Anterior of 4th Sacral. Inferior Hæmorrhoidal of Pudic of Sacral Plexus.
Elevator Ani,		Anterior of 4th Sacral.
Boccygeus,		Anterior of 4th and 5th Sacral.
Rector Penis,		Perinæal of Pudic.
Accelerator Urinæ,		Ditto ditto
Transversus Perinæi, ...		Ditto ditto
Compressor Urethræ, ...		Ditto ditto

MUSCLES OF THE LOWER EXTREMITY.

Psoas Magnus,	Lumbar Plexus.	
Iliacus,	Anterior Crural of Lumbar Plexus.	
Psoas Parvus,	Lumbar Plexus.	
Gluteus Maximus,	Small Sciatic of Sacral Plexus.	
Gluteus Medius,	Superior Gluteal of Lumbo Sacral.	
Gluteus Minimus,	Ditto	ditto
Pyrriformis,	{ Sacral Plexus (lumbo-sacral and 1st sacral).	
Obturator Internus, ...		Ditto (ditto)
Gemellus Superior,	Ditto	(lower part).
„ Inferior,	Ditto	(ditto)
Quadratus Femoris, ...	Ditto	(ditto)
Obturator Externus, ...	{ Obturator (posterior division) of Lumbar Plexus.	
Tensor Vaginæ Femoris,		Superior Gluteal of Lumbo Sacral.
Sartorius,	Anterior Crural of Lumbar Plexus.	
Rectus,	Ditto	ditto
Vastus Internus,	Ditto	ditto
Vastus Externus,	Ditto	ditto
Crureus,	Ditto	ditto
Gracilis,	Obturator (Anterior division).	
Pectineus,	{ Ditto (ditto)	
Adductor Longus,		Anterior Crural.
Adductor Brevis,	Obturator (Anterior division).	
Adductor Magnus,	Ditto	(posterior division).
Biceps Femoris,	{ Ditto (ditto)	
Semi-tendinosus,		Great Sciatic of Sacral Plexus.
Semi-membranosus, ...	Ditto	ditto
	Ditto	ditto
	Ditto	ditto

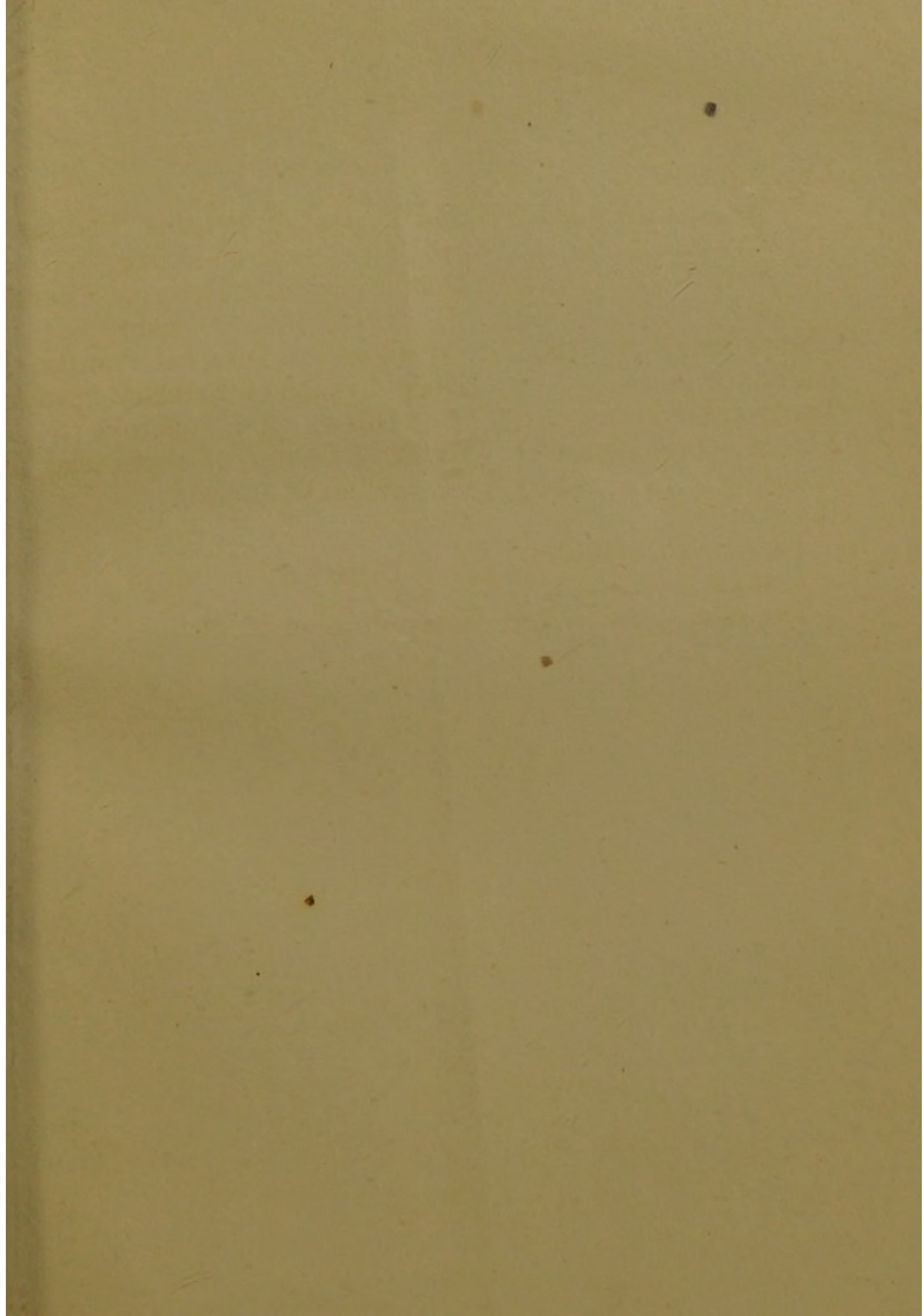
Tibialis Anticus,.....	{	Anterior Tibial of External Popliteal (Peroneal) of Great Sciatic.		
Extensor proprius pollicis,.....	{	Ditto	ditto	ditto
Extensor longus digitorum,	{	Ditto	ditto	ditto
Peroneus Tertius,		Ditto	ditto	ditto
Peroneus Longus,		Musculo-Cutaneous of ditto.		
Peroneus Brevis,.....		Ditto	ditto	ditto
Gastrocnemius,		Internal Popliteal of Great Sciatic.		
Soleus,		Ditto	ditto	ditto
Plantaris,		Ditto	ditto	ditto
Popliteus,		Ditto	ditto	ditto
Flexor longus digitorum	{	Posterior Tibial of Internal Popliteal.		
Flexor longus pollicis,..		Ditto	ditto	
Tibialis Posticus,		Ditto	ditto	

MUSCLES OF THE FOOT.

Extensor brevis digitorum,.....	{	Anterior Tibial.		
Abductor pollicis,	{	Internal Plantar of Posterior Tibial.		
Flexor brevis digitorum,		Ditto	ditto	
Abductor minimi digiti,		External Plantar of ditto.		
Flexor accessorius,.....		Ditto	ditto	

Lumbricales.

1st,	2nd Digital of Internal Plantar.
2nd,	3rd ditto of ditto
3rd,	Deep division of External Plantar.
4th,	Ditto ditto
Flexor brevis pollicis,...	1st digital of Internal Plantar.
Adductor pollicis,	Deep division of External Plantar.
Transversus pedis,	Ditto ditto
Flexor brevis minimi } {	External digital of superficial di-
digiti, }	vision of ditto
Interossei.	
Two in 4th metatarsal } {	Ditto ditto
space, }	
The rest,	Deep division of ditto



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