

# BACK

## Skeleton and Muscles of the Back

<b>Vertebral Column (Location, Structure, Relationships)</b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Curvatures	5.73	5.40	6.17	6.48	5.81	5.88
Features of a typical vertebra (e.g., spinous process, pedicles, laminae)	5.87	5.60	6.11	6.45	5.90	5.95
Regional characteristics of vertebrae (e.g., cervical transverse foraminae)	5.40	4.60	5.83	6.03	5.83	5.81
Ligaments of the vertebral column (e.g., ligamentum flavum, interspinous)	5.67	5.60	6.06	6.03	5.82	5.84
Craniovertebral joints (atlanto-occipital)	5.13	5.40	6.06	5.72	5.72	5.71
Vertebral joints (atlanto-axial, uncovertebral (Luschka), zygapophysial/facet)	5.47	5.40	6.22	6.17	5.69	5.74
Intervertebral discs (anulus fibrosus, nucleus pulposus)	5.33	5.20	5.83	6.17	5.70	5.72
Sacro-iliac joints	5.60	4.80	5.67	5.79	5.73	5.71
Nerve supply	5.27	4.80	5.72	5.34	5.82	5.73
Vascular supply	4.00	4.20	5.17	4.14	5.49	5.27
Lymphatic drainage	6.07	5.60	6.28	6.72	4.81	5.13
<b>Back Muscles (Actions, Nerve Supply, Blood Supply, Relationships)</b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Extrinsic Back Muscles - Superficial Group (Trapezius, latissimus dorsi, levator scapulae, rhomboids)	5.20	3.80	5.28	5.72	5.67	5.61
Extrinsic Back Muscles - Intermediate group (Serratus posterior superior & inferior)	5.47	4.20	5.72	5.90	5.57	5.58
Intrinsic Back Muscles - Superficial group (Splenius capitis and cervicis)	5.60	4.60	6.17	6.48	5.54	5.65

Intrinsic Back Muscles - Intermediate group (Erector spinae muscles)	4.73	4.20	5.67	5.38	5.68	5.59
Intrinsic Back Muscles - Deep group: (Transversospinal group (e.g., semispinalis, multifidus))	4.40	4.40	5.28	5.38	5.49	5.40
Intrinsic Back Muscles - Suboccipital group (e.g., rectus capitis posterior major)	6.13	5.80	6.61	6.55	5.49	5.68
<b>Spinal Nerves, Spinal Cord, Spinal Meninges of the Back</b>						
<b>Spinal Nerve (Course, Branches, and Composition/Function)</b>	<b>A/AG n=16</b>	<b>A/D n=5</b>	<b>A/M-O n=21</b>	<b>A/PT n=33</b>	<b>C n=272</b>	<b>Total</b>
Nerve rootlets/roots (ventral/anterior, dorsal/posterior)	6.13	5.40	6.72	6.48	6.16	6.20
Spinal (dorsal/posterior root) ganglion	6.33	5.60	6.61	6.72	6.11	6.19
Spinal nerve	6.07	5.80	6.56	6.52	6.22	6.25
Rami (ventral/anterior, dorsal/posterior)	6.20	5.80	6.61	6.48	6.06	6.13
Cauda equina	6.07	6.20	6.56	6.59	6.22	6.26
<b>Spinal Cord (Location, Structure, Relationships)</b>	<b>A/AG n=16</b>	<b>A/D n=5</b>	<b>A/M-O n=21</b>	<b>A/PT n=33</b>	<b>C n=272</b>	<b>Total</b>
Dorsal and ventral horns	6.07	6.20	6.33	6.55	5.95	6.03
White matter	6.07	6.20	6.33	6.55	5.88	5.98
Gray matter	5.73	5.80	6.06	6.31	5.88	5.92
Cervical enlargement	5.73	5.60	6.06	6.31	5.87	5.90
Lumbar enlargement	5.87	5.60	6.00	6.38	5.90	5.94
Conus medullaris	6.20	6.00	6.28	6.45	5.97	6.04
<b>Spinal Meninges (Location, Structure, Relationships)</b>	<b>A/AG n=16</b>	<b>A/D n=5</b>	<b>A/M-O n=21</b>	<b>A/PT n=33</b>	<b>C n=272</b>	<b>Total</b>
Extradural (epidural) space	6.13	6.00	6.28	6.48	5.98	6.04
Dura mater	6.00	6.00	6.22	6.45	5.97	6.02
Arachnoid mater	6.00	6.00	6.28	6.41	5.94	6.00
Subarachnoid space	5.40	5.20	5.89	5.66	5.95	5.88
Arachnoid trabeculae	5.87	6.00	6.22	6.21	5.64	5.74
Pia mater	5.47	4.60	6.06	5.59	5.72	5.70

Denticulate ligaments	5.80	4.60	6.00	5.83	5.52	5.57
Filum terminale (internum, externum)	4.27	5.20	4.88	4.38	5.65	5.43
<b>Blood Vessels of the Back</b>						
<b>Arteries of the Back (Course, Relationships, Branches)</b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Anterior spinal a.	4.27	5.20	4.88	4.34	4.36	4.39
Posterior spinal a.	4.00	4.00	4.00	3.55	4.31	4.21
Segmental medullary aa.	4.13	3.80	4.18	3.79	4.04	4.03
Great anterior segmental medullary a. (Ademkiewicz)	3.93	3.80	4.00	3.55	4.34	4.23
Radicular aa	3.93	3.40	3.76	3.62	4.09	4.02
<b>Veins of the Back (Course, Relationships, Tributaries)</b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Anterior spinal v.	3.93	3.40	3.76	3.55	3.97	3.92
Posterior spinal vv.	3.80	3.40	3.59	3.24	3.98	3.88
Segmental medullary vv.	3.73	3.20	3.53	3.24	3.91	3.81
Radicular vv.	3.93	4.80	4.18	3.86	3.90	3.93
Internal vertebral venous plexus	3.80	4.20	4.29	3.76	3.93	3.93
External vertebral venous plexus	5.67	5.60	5.33	6.32	3.95	4.32
<b>Surface Anatomy of the Back</b>						
Vertebra prominens (C7 spinous process)	5.20	5.60	5.39	6.21	5.72	5.72
Vertebral spinous processes	4.80	4.40	5.28	6.07	5.75	5.69
Nuchal ligament (ligamentum nuchae)	5.00	5.60	5.44	6.21	5.34	5.41
L4 vertebra	5.47	5.60	5.83	6.54	5.74	5.79
Iliac crest	5.33	5.00	5.44	6.11	5.76	5.74
Posterior superior iliac spine (PSIS)	5.20	5.40	5.06	6.29	5.69	5.68
Sacro-iliac joint	5.73	5.60	5.78	6.43	5.68	5.75
Scapula	5.33	5.40	5.00	5.96	5.69	5.65
Rib 12	5.20	5.80	5.06	6.18	5.56	5.57
External occipital protuberance	5.40	4.60	4.67	5.18	5.45	5.37
Occipital artery	5.40	5.20	5.67	6.36	5.07	5.22

Trapezius	5.40	5.00	5.67	6.39	5.47	5.55
Latissimus dorsi	5.67	5.60	5.44	6.00	5.43	5.49
Triangle of auscultation	N/A	N/A	N/A	N/A	5.14	5.14

## LOWER LIMB

### Skeleton of the Lower Limb

<b>Bones of the Hip and Thigh</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Hip bone (innominate, os coxae)	N/A	N/A	N/A	N/A	4.85	4.85
Femur	5.20	5.60	6.76	6.59	N/A	6.24
Patella	5.07	5.60	6.59	6.76	5.29	5.48
<b>Bones of the Leg and Foot</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Tibia	4.87	5.00	6.65	6.55	5.39	5.53
Fibula	5.27	5.60	6.65	6.62	5.34	5.51
Interosseous membrane	5.20	5.00	6.65	6.62	5.35	5.51
Tarsals	4.73	5.00	6.06	6.14	5.34	5.41
Metatarsals	5.07	5.40	6.41	6.41	5.00	5.21
Phalanges and sesamoids	5.00	5.60	6.35	6.24	5.16	5.31

### Joints of the Lower Limb

<b>Hip Joint</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Location, structure, relationships	4.87	5.00	6.29	5.97	5.14	5.25
Movements	5.33	5.60	6.76	6.45	5.07	5.30
Nerve supply	5.13	5.60	6.65	6.59	5.29	5.47
Blood supply	5.07	5.20	5.53	5.62	5.26	5.30
<b>Knee Joint</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Location, structure, relationships	5.27	5.60	5.59	5.45	5.43	5.44
Movements	5.40	5.60	6.76	6.62	5.09	5.33
Nerve supply	5.20	5.60	6.65	6.62	5.29	5.48
Blood supply	5.13	5.60	5.53	5.59	5.24	5.29
<b>Ankle Joint</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>

Location, structure, relationships	5.13	5.60	5.47	5.66	5.45	5.46
Movements	5.13	5.60	6.71	6.34	5.03	5.24
Nerve supply	5.07	5.60	6.65	6.34	5.25	5.41
Blood supply	4.93	5.20	5.53	5.52	5.18	5.22
<b><i>Joints of the Foot</i></b>	<b><i>A/AG</i></b> <i>n=16</i>	<b><i>A/D</i></b> <i>n=5</i>	<b><i>A/M-O</i></b> <i>n=21</i>	<b><i>A/PT</i></b> <i>n=33</i>	<b><i>C</i></b> <i>n=272</i>	<b><i>Total</i></b>
Location, structure, relationships	4.93	5.20	5.47	5.48	5.41	5.39
Movements	4.87	5.20	6.59	5.97	4.96	5.13
Nerve supply	4.80	5.00	6.47	5.97	5.15	5.27
Blood supply	4.87	4.60	5.41	5.48	5.14	5.16
<b>Fascia of the Lower Limb</b>						
Fascia lata	4.87	4.80	5.29	5.28	5.30	5.27
Iliotibial tract (band)	4.13	4.80	5.76	5.83	4.91	5.00
Femoral sheath	4.73	5.40	5.94	6.03	4.64	4.84
Crural fascia (deep fascia of leg)	4.40	5.40	5.65	5.17	4.67	4.76
Intermuscular septae of thigh and leg	4.27	4.40	5.71	5.24	4.54	4.65
Flexor retinaculum	3.87	3.80	5.35	5.10	4.26	4.37
Extensor retinacula	4.00	5.20	5.59	5.34	4.19	4.37
Plantar aponeurosis	4.00	4.80	5.59	5.28	4.27	4.42
<b>Muscles of the Lower Limb</b>						
<b><i>Gluteal Muscles (gluteus maximus, medius, minimus, tensor fasciae latae, piriformis, obturator internus, gemelli, quadratus femoris)</i></b>	<b><i>A/AG</i></b> <i>n=16</i>	<b><i>A/D</i></b> <i>n=5</i>	<b><i>A/M-O</i></b> <i>n=21</i>	<b><i>A/PT</i></b> <i>n=33</i>	<b><i>C</i></b> <i>n=272</i>	<b><i>Total</i></b>
Attachments	4.67	5.20	6.00	5.31	4.28	4.49
Action(s)	4.93	5.20	6.56	6.17	4.45	4.73
Nerve supply	5.33	5.60	6.69	6.69	5.18	5.40
Blood supply	5.20	5.60	6.50	6.38	5.23	5.40
<b><i>Thigh Muscles – Anterior (quadriceps, sartorius, iliopsoas)</i></b>	<b><i>A/AG</i></b> <i>n=16</i>	<b><i>A/D</i></b> <i>n=5</i>	<b><i>A/M-O</i></b> <i>n=21</i>	<b><i>A/PT</i></b> <i>n=33</i>	<b><i>C</i></b> <i>n=272</i>	<b><i>Total</i></b>
Attachments	5.13	4.60	5.81	5.76	5.40	5.43
Action(s)	5.13	5.40	6.56	6.14	4.91	5.12

Nerve supply	5.47	5.60	6.75	6.55	5.23	5.43
Blood supply	5.40	5.60	6.75	6.21	5.34	5.49
<b>Thigh Muscles – Medial (adductors, gracilis, pectineus, obturator externus)</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Attachments	5.33	4.60	5.69	5.69	5.49	5.49
Action(s)	5.00	5.40	6.56	6.17	5.02	5.20
Nerve supply	5.40	5.60	6.69	6.55	5.23	5.43
Blood supply	5.40	5.60	6.69	6.21	5.32	5.47
<b>Thigh Muscles – Posterior (hamstrings, biceps femoris short head)</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Attachments	5.27	4.60	5.62	5.62	5.45	5.45
Action(s)	5.33	5.40	6.62	6.17	5.00	5.20
Nerve supply	5.47	5.60	6.81	6.55	5.25	5.45
Blood supply	5.40	5.60	6.75	6.21	5.33	5.48
<b>Leg Muscles – Anterior (tibialis anterior, EHL, EDL, fibularis tertius)</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Attachments	5.27	4.60	5.62	5.59	5.47	5.46
Action(s)	5.07	5.40	6.44	6.17	4.99	5.17
Nerve supply	5.40	5.60	6.69	6.48	5.19	5.39
Blood supply	5.40	5.60	6.69	6.14	5.25	5.41
<b>Leg Muscles – Posterior (gastrocnemius, soleus, plantaris, popliteus, tibialis, posterior, FHL, FDL)</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Attachments	5.33	4.60	6.00	5.66	5.38	5.42
Action(s)	5.00	5.40	6.69	6.17	5.00	5.19
Nerve supply	5.40	5.60	6.81	6.48	5.21	5.41
Blood supply	5.40	5.60	6.75	6.14	5.28	5.43
<b>Leg Muscles – Lateral (fibularis/peroneus longus and brevis)</b>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Attachments	5.27	4.60	5.62	5.66	5.42	5.43

Action(s)	4.87	5.40	6.56	6.24	4.95	5.14
Nerve supply	5.27	5.60	6.69	6.45	5.21	5.40
Blood supply	5.20	5.60	6.81	6.03	5.24	5.39
<b><i>Intrinsic Foot Muscles – Dorsum (EHB, EDB)</i></b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Attachments	4.93	4.60	5.75	5.69	5.38	5.39
Action(s)	4.53	4.00	6.25	5.55	4.91	5.00
Nerve supply	4.87	4.00	6.50	6.00	5.06	5.19
Blood supply	4.87	4.00	6.50	5.72	5.15	5.23
<b><i>Intrinsic Foot Muscles – Plantar (adductor hallucis, FDB, abductor digiti minimi, quadratus plantae, lumbricals, FHB, adductor hallucis, flexor digiti minimi brevis, interossei)</i></b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Attachments	4.73	4.00	5.50	5.31	5.25	5.23
Action(s)	4.53	4.80	6.31	5.52	4.88	4.99
Nerve supply	4.87	4.40	6.31	5.97	5.11	5.22
Blood supply	4.93	4.80	6.31	5.79	5.17	5.27
<b>Nerves and Plexuses of the Lower Limb</b>						
<b><i>Lumbar Plexus</i></b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Ilio-inguinal n.	4.80	3.80	5.50	5.28	5.28	5.25
Genitofemoral n.	5.20	5.60	5.93	5.97	4.86	5.03
Lateral femoral cutaneous n.	5.20	5.00	6.07	5.93	5.60	5.62
Obturator (motor, sensory branches) n.	5.13	4.80	6.47	5.90	5.52	5.57
Femoral (motor, sensory branches) n.	5.53	4.80	6.87	6.21	5.74	5.81
Saphenous n.	5.53	5.60	6.93	6.59	5.75	5.87
<b><i>Sacral Plexus</i></b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Superior and inferior gluteal nn.	5.33	5.00	6.47	5.90	5.85	5.85
Posterior femoral cutaneous n.	5.40	5.60	6.73	6.14	5.75	5.81
Sciatic n.	5.13	4.60	5.80	5.83	5.56	5.56

Common fibular n.	5.80	5.60	6.93	6.72	5.54	5.72
Superficial fibular (motor, sensory branches) n.	5.80	5.60	6.93	6.52	5.90	5.99
Deep fibular (motor, sensory branches) n.	5.67	5.60	6.87	6.14	5.77	5.85
Sural n.	5.73	5.60	6.87	6.03	5.68	5.77
Tibial (motor, sensory branches) n.	5.33	4.60	6.33	5.76	5.68	5.69
Medial and lateral plantar (motor, sensory branches) nn.	5.73	5.60	6.80	6.48	5.69	5.81

### Blood Vessels of the Lower Limb

<i>Arteries of the Lower Limb (Course, Relationships, Branches)</i>	<b>A/AG</b> <i>n=16</i>	<b>A/D</b> <i>n=5</i>	<b>A/M-O</b> <i>n=21</i>	<b>A/PT</b> <i>n=33</i>	<b>C</b> <i>n=272</i>	<b>Total</b>
Superior and inferior gluteal aa.	5.47	4.60	6.53	5.93	5.81	5.82
Femoral a.	5.07	4.60	6.25	5.39	5.66	5.63
Superficial circumflex iliac a.	5.60	5.80	6.56	6.36	4.72	5.01
External pudendal artery a.	4.67	4.60	6.06	4.46	5.39	5.30
Profunda femoris (deep artery of thigh) a.	4.73	4.00	5.69	4.86	4.81	4.84
Medial circumflex femoral a.	5.33	5.00	6.25	5.50	4.63	4.82
Lateral circumflex femoral a.	5.40	4.40	6.31	5.11	4.86	4.97
Obturator a.	5.40	4.40	6.31	5.14	4.75	4.89
Cruciate anastomosis	5.33	4.80	6.44	5.54	4.77	4.94
Perforating aa.	4.87	4.20	5.94	4.50	4.79	4.82
Popliteal a.	4.47	4.40	5.88	4.39	4.59	4.63
Genicular, genicular anastomosis a.	5.40	5.20	6.56	5.82	4.57	4.82
Anterior tibial a.	4.93	3.60	5.81	4.82	5.24	5.19
Posterior tibial a.	5.47	5.60	6.50	5.96	4.65	4.90
Fibular a.	5.47	5.60	6.50	5.96	5.00	5.18
Malleolar branches	5.13	4.20	6.31	5.79	5.13	5.23
Tarsal branches	4.67	3.40	5.38	3.96	4.82	4.75
Dorsalis pedis a.	4.47	3.40	5.38	3.93	4.59	4.55
Medial and lateral plantar aa.	5.40	5.60	6.50	5.82	4.59	4.84
Plantar arterial arch	4.80	4.60	6.12	5.14	5.17	5.19



<b><i>Veins of the Lower Limb (Course, Relationships, Tributaries)</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Femoral v.	4.73	4.40	6.19	5.21	4.62	4.75
Profunda femoris v.	5.60	5.80	6.06	5.93	4.62	4.86
Popliteal v.	5.47	4.40	5.38	5.04	5.21	5.20
Great saphenous v.	5.53	4.80	6.00	5.79	4.83	5.00
Small saphenous v.	5.53	5.60	6.50	6.07	5.03	5.22
Dorsal venous arch v.	5.07	5.60	6.38	5.39	5.15	5.23
<b>Lymphatics of the Lower Limb</b>						
Inguinal nodes (superficial and deep)	4.80	5.60	5.62	5.04	4.78	4.85
Popliteal nodes	4.60	5.00	5.12	4.61	4.64	4.66
<b>Anatomical Spaces of the Lower Limb</b>						
Femoral triangle and sheath	4.00	4.00	4.88	4.14	3.47	3.63
Femoral canal	5.33	5.60	5.69	5.72	3.40	3.83
Saphenous opening	4.60	5.20	5.44	5.34	4.74	4.83
Subsartorial (adductor) canal (Hunter)	3.80	4.20	5.31	4.59	4.58	4.58
Adductor hiatus	4.13	4.20	5.12	4.76	4.34	4.40
Popliteal fossa	4.27	4.60	5.62	5.55	4.46	4.61
Tarsal tunnel	4.73	5.00	5.62	5.69	4.38	4.58
<b>Surface Anatomy of the Lower Limb</b>						
Dermatomes	4.60	4.40	5.56	5.14	4.80	4.85
Myotomes	4.47	5.00	5.94	6.17	4.51	4.73
Cutaneous distribution of named nerves	4.33	4.60	5.38	5.86	5.63	5.56
Sciatic nerve	4.40	4.80	5.69	5.97	5.42	5.42
Tibial nerve	5.13	5.60	5.38	6.69	5.48	5.57
Common fibular nerve	5.13	5.60	5.56	6.55	5.62	5.68
Iliac crest	5.20	5.60	5.56	6.52	5.54	5.62
Anterior superior iliac spine (ASIS)	5.27	5.60	5.88	6.52	5.50	5.60
Pubic tubercle	5.40	5.60	5.88	6.52	5.53	5.63
Greater trochanter	5.00	5.60	5.50	6.10	5.53	5.56
Femoral epicondyles	5.07	5.60	5.69	6.48	5.22	5.35

Patella	4.80	5.20	5.62	6.21	5.40	5.45
Patellar ligament (tendon)	5.00	5.60	5.69	6.66	5.24	5.38
Tibial epicondyles	5.00	5.60	5.88	6.55	5.32	5.45
Tibial tuberosity	4.60	4.80	5.38	6.03	5.27	5.30
Anterolateral tibial tubercle (Gerdy's)	4.87	5.60	5.56	6.38	5.18	5.29
Medial and lateral malleolus	4.20	4.40	4.69	5.66	5.25	5.20
Fibular head & neck	5.13	5.60	5.56	6.52	5.09	5.25
Calcaneus	4.80	5.60	5.44	6.21	5.36	5.42
Talus	4.93	5.60	5.62	6.28	5.28	5.37
Navicular	4.73	4.40	5.38	6.21	5.18	5.25
Cuboid	4.47	4.40	5.38	6.10	5.13	5.19
Cuneiform (3)	4.47	4.40	5.38	6.07	5.08	5.14
Metatarsals	4.47	4.40	5.25	6.00	5.04	5.10
Phalanges	4.47	4.60	5.25	5.97	5.02	5.08
Gracilis	4.60	4.20	5.25	5.90	5.12	5.16
Semitendinosus and semimembranosus tendons	4.73	4.40	5.06	6.07	5.03	5.10
Biceps femoris tendon	4.93	5.40	5.38	6.21	5.03	5.15
Quadriceps tendon	4.93	5.40	5.38	6.24	5.16	5.26
Gastrocnemius	4.93	5.40	5.69	6.38	5.20	5.32
Calcaneal tendon (Achilles)	5.00	5.40	5.44	6.38	5.24	5.34
Femoral artery	5.00	5.60	5.69	6.45	5.22	5.35
Popliteal artery	5.20	5.60	5.50	6.38	5.24	5.35
Dorsalis pedis artery	5.07	5.40	5.62	6.52	5.53	5.60
Posterior tibial artery	5.07	5.60	5.75	6.41	5.46	5.54
Femoral vein	4.73	5.60	5.31	6.14	5.44	5.46
Great saphenous vein	4.93	5.40	5.31	6.41	5.37	5.44
Saphenous nerve	5.13	5.60	5.19	6.34	5.31	5.39
Lesser saphenous vein	4.73	5.00	5.62	5.93	5.22	5.28
Palpable lymph nodes	4.53	5.40	5.06	5.69	5.23	5.23

## THORAX

### Walls and Regions of the Thorax

<b><i>Skeleton of Thoracic Wall (Bones, Joints, Intercostal Spaces)</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Location, structure, relationships	4.80	5.20	5.06	5.31	5.00	5.02
Function in respiration	N/A	N/A	N/A	N/A	4.78	4.78
Nerve supply	5.87	6.00	6.18	6.23	N/A	6.12
Blood supply	5.93	5.80	6.00	6.33	5.29	5.46
<b><i>Muscles of Thoracic Wall</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Location, structure, relationships	5.73	5.80	5.76	5.60	5.40	5.46
Function in respiration	5.67	5.80	5.76	5.40	5.25	5.32
Nerve supply	5.87	6.00	5.94	6.27	4.93	5.16
Blood supply	5.60	6.00	6.06	6.30	5.27	5.43
<b><i>Thoracic (Respiratory) Diaphragm</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Location, structure, relationships	5.87	5.40	5.94	5.63	5.39	5.46
Function in respiration	5.80	5.20	5.59	5.37	5.15	5.22
Nerve supply	6.00	6.20	6.06	6.53	4.89	5.17
Blood supply	6.00	6.20	6.35	6.57	5.37	5.57
<b>Organs and Systems of the Thorax</b>						
<b><i>Breast</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Location, structure, relationships	6.00	6.20	6.24	6.47	5.49	5.65
Mammary glands and lactiferous ducts	5.93	5.00	5.47	5.40	5.32	5.36
Nerve supply	5.80	5.80	6.06	5.90	4.92	5.12
Blood supply	5.60	5.60	5.82	5.37	4.73	4.90
Lymphatic drainage	5.33	5.20	5.59	4.80	4.34	4.50
<b><i>Mediastinum</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Location, structure, relationships	5.73	5.40	5.65	4.97	4.61	4.75
Divisions and major contents: superior and inferior (anterior, middle, posterior)	5.80	5.80	6.18	5.47	4.45	4.71
<b><i>Pericardium and Pericardial Sac</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>

Location, structure, relationships	6.27	6.20	5.94	6.27	4.48	4.82
Transverse pericardial sinus	5.73	6.20	5.76	6.00	5.14	5.29
Oblique pericardial sinus	6.13	6.40	5.88	6.13	4.99	5.21
Nerve supply	5.87	5.80	5.76	4.93	5.06	5.13
Blood supply	5.53	5.00	5.59	4.90	4.64	4.76
<b>Fascia of the Thorax (Location, Structure, Relationships)</b>	<b>A/AG n=16</b>	<b>A/D n=5</b>	<b>A/M-O n=21</b>	<b>A/PT n=33</b>	<b>C n=272</b>	<b>Total</b>
Clavipectoral	5.67	5.60	5.82	5.73	4.61	4.83
Endothoracic	5.67	4.40	5.53	5.87	4.79	4.96
<b>Heart</b>	<b>A/AG n=16</b>	<b>A/D n=5</b>	<b>A/M-O n=21</b>	<b>A/PT n=33</b>	<b>C n=272</b>	<b>Total</b>
Location, structure, relationships	4.20	4.20	4.71	4.27	4.87	4.76
Chambers	4.47	4.80	5.18	4.03	4.41	4.42
Valves	6.07	6.40	6.82	6.76	4.33	4.78
Conducting system (location and function of nodes, conducting fibers)	6.07	6.40	6.82	6.76	5.81	5.96
Nerve supply	6.07	6.40	6.76	6.66	5.74	5.90
Blood supply (coronary arteries, cardiac veins)	5.93	6.40	6.76	6.48	5.76	5.89
Lymphatic drainage	6.07	6.40	6.65	6.55	5.71	5.85
<b>Pleura</b>	<b>A/AG n=16</b>	<b>A/D n=5</b>	<b>A/M-O n=21</b>	<b>A/PT n=33</b>	<b>C n=272</b>	<b>Total</b>
Location, structure, relationships	6.07	6.40	6.65	6.72	5.69	5.86
Nerve supply	4.53	4.60	5.71	4.48	5.79	5.60
<b>Lungs</b>	<b>A/AG n=16</b>	<b>A/D n=5</b>	<b>A/M-O n=21</b>	<b>A/PT n=33</b>	<b>C n=272</b>	<b>Total</b>
Location, structure, relationships	6.07	6.40	6.76	6.52	4.90	5.21
Lobes and segments	5.80	6.40	6.24	6.07	5.73	5.80
Function	6.07	6.40	6.82	6.72	5.56	5.76
Nerve supply	5.73	6.40	6.47	6.59	5.83	5.93
Blood supply	5.93	6.40	6.76	6.72	5.71	5.87
Lymphatic drainage	5.47	5.60	6.06	5.90	5.86	5.85
<b>Trachea and Bronchi</b>	<b>A/AG n=16</b>	<b>A/D n=5</b>	<b>A/M-O n=21</b>	<b>A/PT n=33</b>	<b>C n=272</b>	<b>Total</b>
Location, structure, relationships	5.67	6.20	6.35	6.17	5.54	5.65

Nerve supply	5.67	4.80	6.06	5.07	5.46	5.46
Blood supply	6.00	6.40	6.65	6.59	5.00	5.29
Lymphatic drainage	5.73	5.00	5.71	5.69	5.60	5.61
<b><i>Esophagus (thoracic part)</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Location, structure, relationships	5.40	4.80	5.65	5.34	5.33	5.35
Nerve supply	5.53	4.60	5.94	4.55	5.20	5.19
Blood supply	6.07	5.60	6.53	6.38	4.88	5.16
Lymphatic drainage	5.80	5.60	5.76	5.14	5.36	5.38
<b><i>Thymus</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Location, structure, relationships	5.33	4.80	5.65	5.10	5.04	5.09
Function	4.80	4.60	5.82	4.48	4.95	4.94
Blood supply	5.47	5.80	5.47	5.38	4.70	4.85
Lymphatic drainage	5.73	5.80	5.47	5.48	4.83	4.98
<b>Nerves, Plexuses, and Ganglia of the Thorax</b>						
<b><i>Nerves (Course, Branches, Composition/Function)</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Intercostal n.	4.67	3.80	4.65	4.14	4.79	4.70
Phrenic n.	4.13	4.20	4.53	3.79	4.58	4.48
Vagus n. (CN X)	5.87	5.80	6.41	5.69	4.45	4.74
Left recurrent laryngeal n.	6.07	6.40	6.65	6.24	5.14	5.37
Right recurrent laryngeal n.	6.07	6.60	6.71	6.55	5.31	5.54
Thoracic parasympathetic visceral branches (vagal)	6.13	6.60	6.41	5.52	5.46	5.56
Thoracic sympathetic trunk	6.07	6.40	6.35	5.34	4.99	5.16
Rami communicantes (gray and white)	5.47	5.60	5.71	5.07	4.88	4.98
Thoracic sympathetic visceral branches (cervical, thoracic)	5.93	6.20	6.41	5.59	4.88	5.08
Thoracic splanchnics (greater, lesser, least)	5.53	5.80	5.94	5.07	4.89	5.00
<b><i>Plexuses and Ganglia (Course, Branches, Composition/Function)</i></b>	<b><i>A/AG n=16</i></b>	<b><i>A/D n=5</i></b>	<b><i>A/M-O n=21</i></b>	<b><i>A/PT n=33</i></b>	<b><i>C n=272</i></b>	<b><i>Total</i></b>
Esophageal	5.40	5.60	5.82	4.90	4.60	4.74

Aortic	5.67	5.60	6.06	4.93	4.67	4.82
Cardiac	5.60	6.00	5.53	4.62	4.57	4.69
Pulmonary	5.53	5.80	5.53	4.90	4.50	4.65
<b>Blood Vessels of the Thorax</b>						
<b>Arteries of the Thorax (Location, Function, Relationships)</b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Aorta (thoracic part)	5.67	5.80	5.53	5.00	4.57	4.73
Anterior intercostal a.	5.67	5.80	5.53	4.83	4.63	4.76
Posterior intercostal a.	6.07	6.40	6.71	6.69	4.64	5.01
Bronchial a.	5.60	5.80	5.59	5.62	5.52	5.54
Brachiocephalic trunk	5.73	5.60	5.76	5.66	4.89	5.05
Left common carotid a.	5.33	5.80	5.76	5.31	4.86	4.98
Right common carotid a.	6.00	6.40	6.41	6.17	4.82	5.10
Left subclavian a.	6.07	6.40	6.71	6.59	5.01	5.30
Right subclavian a.	6.07	6.40	6.71	6.59	5.50	5.70
Internal thoracic (mammary) a.	6.07	6.20	6.71	6.59	5.48	5.68
Right coronary a.	6.07	6.20	6.71	6.59	5.46	5.66
Left coronary a.	6.07	6.20	6.29	5.69	5.46	5.56
Pulmonary trunk and arteries	6.07	6.40	6.53	6.34	4.94	5.21
Esophageal a.	6.07	6.40	6.53	6.41	5.37	5.57
<b>Veins of the Thorax (Course, Relationships, Tributaries)</b>	<b>A/AG <i>n=16</i></b>	<b>A/D <i>n=5</i></b>	<b>A/M-O <i>n=21</i></b>	<b>A/PT <i>n=33</i></b>	<b>C <i>n=272</i></b>	<b>Total</b>
Internal jugular v.	6.07	6.40	6.65	6.34	5.36	5.56
Subclavian v.	5.53	5.40	5.65	5.00	5.26	5.27
Brachiocephalic veins	6.07	5.80	6.53	6.59	4.76	5.08
Superior vena cava	6.07	6.20	6.53	6.34	5.41	5.59
Inferior vena cava	6.07	6.20	6.47	6.28	5.38	5.56
Azygos venous system	6.07	6.40	6.53	6.48	5.18	5.42
Esophageal v.	6.07	6.40	6.53	6.52	5.41	5.61
Cardiac (small, middle, great) vv.	6.07	5.80	6.29	5.76	5.42	5.53
Coronary sinus	6.00	5.40	5.59	4.90	4.82	4.93
Pulmonary veins	5.87	6.20	6.12	5.93	4.57	4.85
Intercostal v.	6.00	6.40	6.18	6.07	4.82	5.08

Bronchial v.	6.07	6.40	6.41	6.10	5.01	5.25
<b>Lymphatics of the Thorax</b>						
Bronchopulmonary (hilar) nodes	5.87	5.40	5.71	5.34	5.06	5.16
Inferior tracheobronchial (carinal) nodes	5.27	5.00	5.71	4.69	4.72	4.80
Superior tracheobronchial (carinal) nodes	4.80	5.60	5.18	3.71	4.67	4.63
Paratracheal nodes	4.80	5.20	4.94	3.64	3.46	3.63
Posterior mediastinal nodes	4.80	5.20	4.94	3.64	3.42	3.60
Thoracic duct	4.80	5.00	4.94	3.64	3.41	3.59
<b>Surface Anatomy of the Thorax</b>						
Dermatomes	4.87	4.60	4.71	3.64	3.40	3.57
Referred pain from thoracic organs	5.33	6.40	6.06	5.46	3.41	3.85
Ribs, costal cartilages, intercostal spaces, costal margin	5.47	6.20	6.18	6.14	3.68	4.13
Sternum (manubrium, body, xiphoid process)	5.93	6.00	6.24	6.18	5.55	5.66
Sternal angle	5.87	6.20	6.00	6.36	5.51	5.63
Clavicle	5.60	6.20	6.00	6.29	5.47	5.58
Jugular notch	5.80	6.00	6.00	6.25	5.43	5.55
Breast	5.80	6.20	6.24	6.21	5.41	5.55
Nipple	5.73	6.00	5.94	6.14	5.47	5.57
Mediastinal subdivisions	5.73	6.00	5.71	5.89	5.25	5.36
Heart (surfaces, borders, locations of valves)	5.73	6.00	5.65	5.82	4.91	5.08
Pericardium, pericardial sac	5.40	5.60	5.35	5.89	4.83	4.98
Trachea	5.80	6.20	5.88	6.43	4.85	5.10
Pleura (including costodiaphragmatic recess)	5.60	6.00	5.71	6.14	5.37	5.47
Lungs (lobes)	5.80	6.20	5.47	6.11	5.19	5.32
Aortic arch	5.80	6.20	5.71	6.14	5.36	5.47
Subclavian vein	5.80	6.20	5.71	6.36	5.19	5.35
Palpable lymph nodes	5.87	6.20	5.71	6.46	5.42	5.55

## Summary of Parent-Child expansions

Parent	Children
Anatomist	Anatomy Graduate, Dentistry, Medicine - Osteopathic, Physical Therapy
Clinician	ALL children selected

## Color Key

Not Important (1-2.5)	
Less Important (2.5-4)	
More Important (4-5.5)	
Essential (5.5-7)	