

BACK

Skeleton and Muscles of the Back

Vertebral Column (Location, Structure, Relationships)	C/ M -A /E M n= 3	C/ M -A /A n= 94	C/ M -A /I M n= 1	C/ M -A /E M n= 1	C/ M -A /A C n= 18	C/ M -A /A C n= 1	C/ M -A /C C n= 1	C/ M -A /A C n= 2	C/ M -A /A C n= 10	C/ M -A /A C n= 2	C/ M -A /A C n= 9	C/ M -A /A C n= 5	C/ M -A /R A P M n= 19	C/ M -A /I M /C C M n= 1	T ot al
Curvatures	6. 00	5. 43	6. 00	5. 00	5. 06	5. 00	4. 00	7. 00	5. 60	7. 00	6. 33	6. 00	5. 58	6. 00	5. 52
Features of a typical vertebra (e.g., spinous process, pedicles, laminae)	6. 00	5. 68	6. 00	5. 00	5. 56	5. 00	4. 00	7. 00	5. 90	7. 00	6. 33	6. 00	5. 89	6. 00	5. 77
Regional characteristics of vertebrae (e.g., cervical transverse foraminae)	6. 00	5. 58	6. 00	5. 00	5. 44	5. 00	4. 00	7. 00	5. 80	7. 00	6. 33	6. 00	5. 79	6. 00	5. 67
Ligaments of the vertebral column (e.g., ligamentum flavum, interspinous)	6. 00	5. 71	6. 00	5. 00	5. 78	5. 00	4. 00	7. 00	6. 00	7. 00	6. 33	6. 00	5. 74	6. 00	5. 79
Craniovertebral joints (atlanto-occipital)	6. 00	5. 20	6. 00	5. 00	4. 94	5. 00	4. 00	5. 00	5. 00	5. 50	6. 33	5. 50	5. 53	6. 00	5. 28
Vertebral joints (atlanto-axial, uncovertebral (Luschka), zygapophysial/facet)	6. 00	5. 11	6. 00	5. 00	4. 89	5. 00	4. 00	5. 00	5. 10	5. 50	5. 67	6. 00	5. 37	6. 00	5. 19
Intervertebral discs (anulus fibrosus, nucleus pulposus)	6. 00	5. 08	6. 00	5. 00	4. 94	5. 00	4. 00	4. 00	4. 90	6. 00	5. 67	6. 00	5. 32	6. 00	5. 16
Sacro-iliac joints	6. 00	5. 13	6. 00	5. 00	4. 83	5. 00	4. 00	4. 00	4. 60	6. 00	6. 33	6. 00	5. 37	6. 00	5. 20
Nerve supply	6. 00	5. 46	6. 00	5. 00	5. 28	5. 00	4. 00	7. 00	5. 70	7. 00	6. 33	6. 00	5. 53	6. 00	5. 55
Vascular supply	6. 00	5. 30	6. 00	5. 00	5. 17	5. 00	4. 00	7. 00	5. 60	5. 50	6. 33	6. 00	5. 21	6. 00	5. 39
Lymphatic drainage	6. 00	4. 13	6. 00	5. 00	4. 22	5. 00	4. 00	4. 00	3. 40	4. 00	5. 33	5. 50	4. 37	6. 00	4. 29

Back Muscles (Actions, Nerve Supply, Blood Supply, Relationships)	C/ M -A /E M n=	C/ M -A /A n=	C/ M -A /I M n=	C/ M -A /E M /S M n=	C/ M -A /A C C M n=	C/ M -A /C /A /C I n n=	C/ M -A /A /C C M n=	C/ M -A /A /N C C n=	C/ M -A /A /O A n=	C/ M -A /A /P M n=	C/ M -A /A /P A n=	C/ M -A /A /P C A n=	C/ M -A /R A A A P M n=	C/ M -A /I M /C C M n=	T o t a l
Extrinsic Back Muscles - Superficial Group (Trapezius, latissimus dorsi, levator scapulae, rhomboids)	6.00	4.85	6.00	5.00	4.61	5.00	4.00	3.00	4.30	6.50	5.67	5.00	5.32	6.00	4.93
Extrinsic Back Muscles - Intermediate group (Serratus posterior superior & inferior)	6.00	4.92	6.00	5.00	4.61	5.00	4.00	3.00	4.60	5.00	5.67	5.75	5.32	6.00	4.99
Intrinsic Back Muscles - Superficial group (Splenius capitis and cervicis)	6.00	4.63	6.00	5.00	4.50	5.00	4.00	3.00	4.10	6.00	5.22	5.00	5.05	6.00	4.72
Intrinsic Back Muscles - Intermediate group (Erector spinae muscles)	6.00	4.99	6.00	5.00	4.67	5.00	4.00	5.00	4.70	6.00	5.67	5.00	5.63	6.00	5.09
Intrinsic Back Muscles - Deep group: (Transversospinal group (e.g., semispinalis, multifidus))	6.00	4.57	6.00	5.00	4.50	5.00	4.00	2.00	3.90	5.50	5.33	5.00	4.95	6.00	4.66
Intrinsic Back Muscles - Suboccipital group (e.g., rectus capitis posterior major)	6.00	4.54	6.00	5.00	4.50	5.00	4.00	2.00	3.90	5.50	5.33	5.00	4.95	6.00	4.64

Spinal Nerves, Spinal Cord, Spinal Meninges of the Back

Spinal Nerve (Course, Branches, and Composition/Function)	C/ M -A /E M n=	C/ M -A /A n=	C/ M -A /I M n=	C/ M -A /E M /S M n=	C/ M -A /A C C M n=	C/ M -A /C /A /C I n n=	C/ M -A /A /C C M n=	C/ M -A /A /N C C n=	C/ M -A /A /O A n=	C/ M -A /A /P M n=	C/ M -A /A /P A n=	C/ M -A /A /P C A n=	C/ M -A /R A A A P M n=	C/ M -A /I M /C C M n=	T o t a l
	3	94	1	1	18	=1	1	2	10	2	9	5	19	1	

C/M-A/EM/SM: Clinician / Medicine - Allopathic / Emergency Medicine / Sports Medicine Page 2

C/M-A/A/CI: Clinician / Medicine - Allopathic / Anesthesiology / Clinical Informatics

C/M-A/A/PCA: Clinician / Medicine - Allopathic / Anesthesiology / Pediatric Cardiac Anesthesiology

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Nerve rootlets/roots (ventral/anterior, dorsal/posterior)	6. 00	6. 28	7. 00	4. 00	6. 28	7. 00	5. 00	6. 50	6. 60	6. 50	6. 67	6. 50	6. 17	7. 00	6. 31
Spinal (dorsal/posterior root) ganglion	6. 00	6. 25	7. 00	4. 00	6. 33	7. 00	5. 00	6. 50	6. 40	6. 50	6. 56	6. 50	6. 17	7. 00	6. 28
Spinal nerve	6. 00	6. 34	7. 00	4. 00	6. 33	7. 00	5. 00	6. 50	6. 60	6. 50	6. 67	6. 50	6. 44	7. 00	6. 37
Rami (ventral/anterior, dorsal/posterior)	6. 00	6. 20	7. 00	4. 00	6. 28	7. 00	5. 00	6. 50	6. 20	6. 50	6. 67	6. 50	6. 06	7. 00	6. 22
Cauda equina	6. 00	6. 35	7. 00	4. 00	6. 44	7. 00	5. 00	6. 50	6. 60	6. 50	6. 67	6. 50	6. 22	7. 00	6. 37
Spinal Cord (Location, Structure, Relationships)	C/ M -A /E M n= 3	C/ M -A /A n= 94	C/ M -A /I M n= 1	C/ M -A /E M /S M n= 1	C/ M -A /A C C M n= 18	C/ M -A /A /C C M I n =1	C/ M -A /A C M n= 1	C/ M -A /A /N C n= 2	C/ M -A /A /O A n= 10	C/ M -A /A /P M n= 2	C/ M -A /A /P A n= 9	C/ M -A /A /P C A n= 5	C/ M -A /R A A P M n= 19	C/ M -A /I M /C C M n= 1	T o t a l
Dorsal and ventral horns	6. 00	6. 09	7. 00	4. 00	6. 22	7. 00	5. 00	5. 50	5. 90	6. 50	6. 67	6. 50	6. 00	7. 00	6. 12
White matter	6. 00	6. 01	7. 00	4. 00	6. 22	7. 00	5. 00	5. 50	5. 90	6. 50	6. 44	6. 50	5. 94	7. 00	6. 06
Gray matter	6. 00	6. 01	7. 00	4. 00	6. 22	7. 00	5. 00	5. 50	5. 90	6. 50	6. 44	6. 50	5. 94	7. 00	6. 06
Cervical enlargement	6. 00	5. 90	7. 00	4. 00	6. 28	7. 00	5. 00	5. 50	5. 40	6. 50	6. 33	6. 00	5. 83	7. 00	5. 94
Lumbar enlargement	6. 00	5. 98	7. 00	4. 00	6. 28	7. 00	5. 00	6. 50	5. 50	6. 50	6. 33	6. 50	5. 89	7. 00	6. 02
Conus medullaris	6. 00	6. 14	7. 00	4. 00	6. 28	7. 00	5. 00	6. 50	6. 40	7. 00	6. 67	6. 50	5. 83	7. 00	6. 18

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Spinal Meninges (Location, Structure, Relationships)	C/ M -A /E M n=3	C/ M -A /A n=94	C/ M -A /I M n=1	C/ M -A /E M /S M n=1	C/ M -A /A C C M n=18	C/ M -A /C /A /C I n=1	C/ M -A /A /C C M n=1	C/ M -A /A /N C C n=2	C/ M -A /A /O A n=10	C/ M -A /A /P M n=2	C/ M -A /A /P A n=9	C/ M -A /A /P C A n=5	C/ M -A /R A A P M n=19	C/ M -A /I M /C C M n=1	T o t a l
Extradural (epidural) space	6.00	6.38	7.00	4.00	6.56	7.00	5.00	6.50	6.60	6.50	6.67	6.50	6.22	7.00	6.40
Dura mater	6.00	6.34	7.00	4.00	6.56	7.00	5.00	6.50	6.60	6.50	6.67	6.50	6.22	7.00	6.37
Arachnoid mater	6.00	6.33	7.00	4.00	6.56	7.00	5.00	6.50	6.60	6.50	6.67	6.50	6.22	7.00	6.37
Subarachnoid space	6.00	6.38	7.00	4.00	6.56	7.00	5.00	6.50	6.60	6.50	6.67	6.50	6.22	7.00	6.40
Arachnoid trabeculae	6.00	5.88	7.00	4.00	6.33	7.00	5.00	6.50	5.80	6.50	6.33	5.25	5.94	7.00	5.96
Pia mater	6.00	5.98	7.00	4.00	6.33	7.00	5.00	6.50	6.20	6.50	6.44	5.25	5.94	7.00	6.05
Denticulate ligaments	6.00	5.68	7.00	4.00	6.22	7.00	5.00	5.50	5.60	6.50	5.56	5.25	5.83	7.00	5.76
Filum terminale (internum, externum)	6.00	5.91	7.00	4.00	6.22	7.00	5.00	5.50	6.00	6.50	6.56	5.25	5.89	7.00	5.98
Blood Vessels of the Back															
Arteries of the Back (Course, Relationships, Branches)	C/ M -A /E M n=3	C/ M -A /A n=94	C/ M -A /I M n=1	C/ M -A /E M /S M n=1	C/ M -A /A C C M n=18	C/ M -A /C /A /C I n=1	C/ M -A /A /C C M n=1	C/ M -A /A /N C C n=2	C/ M -A /A /O A n=10	C/ M -A /A /P M n=2	C/ M -A /A /P A n=9	C/ M -A /A /P C A n=5	C/ M -A /R A A P M n=19	C/ M -A /I M /C C M n=1	T o t a l

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Anterior spinal a.	5. 00	4. 71	6. 00	3. 00	4. 89	2. 00	5. 00	5. 50	4. 80	6. 00	4. 33	5. 00	4. 21	6. 00	4. 68
Posterior spinal a.	5. 00	4. 63	6. 00	3. 00	4. 78	2. 00	5. 00	5. 50	4. 30	6. 00	4. 33	5. 00	4. 21	6. 00	4. 60
Segmental medullary aa.	5. 00	4. 15	6. 00	3. 00	4. 22	2. 00	5. 00	5. 50	3. 70	4. 50	4. 11	5. 00	4. 11	6. 00	4. 19
Great anterior segmental medullary a. (Ademkiewicz)	5. 00	4. 96	6. 00	3. 00	5. 39	2. 00	5. 00	5. 50	5. 00	6. 50	4. 78	5. 00	4. 53	6. 00	4. 96
Radicular aa	5. 00	4. 29	6. 00	3. 00	4. 39	2. 00	5. 00	5. 50	4. 00	5. 00	4. 33	5. 00	3. 89	6. 00	4. 30
Veins of the Back (Course, Relationships, Tributaries)	C/ M -A /E M n= 3	C/ M -A /A n= 94	C/ M -A /I M n= 1	C/ M -A /E M /S M n= 1	C/ M -A /A /C /A /C M n= 18	C/ M -A /C /A /C M I n =1	C/ M -A /A /C /N C n= 1	C/ M -A /A /O A n= 2	C/ M -A /A /P M n= 10	C/ M -A /A /P A n= 2	C/ M -A /A /P A n= 9	C/ M -A /A /P C A n= 5	C/ M -A /R A A P M n= 19	C/ M -A /I M /C C M n= 1	T ot al
Anterior spinal v.	5. 00	4. 03	6. 00	3. 00	4. 00	2. 00	5. 00	4. 00	4. 10	5. 00	4. 33	4. 00	3. 89	6. 00	4. 07
Posterior spinal vv.	5. 00	4. 04	6. 00	3. 00	4. 00	2. 00	5. 00	5. 50	4. 10	5. 00	4. 33	4. 00	3. 79	6. 00	4. 08
Segmental medullary vv.	5. 00	3. 96	6. 00	3. 00	3. 89	2. 00	5. 00	5. 50	3. 90	5. 00	4. 22	4. 00	3. 79	6. 00	4. 01
Radicular vv.	5. 00	3. 91	6. 00	3. 00	4. 00	2. 00	5. 00	4. 00	3. 90	5. 00	4. 22	4. 00	3. 68	6. 00	3. 96
Internal vertebral venous plexus	5. 00	4. 01	6. 00	3. 00	4. 11	2. 00	5. 00	5. 50	4. 10	5. 00	4. 33	4. 00	3. 68	6. 00	4. 07
External vertebral venous plexus	5. 00	4. 05	6. 00	3. 00	4. 11	2. 00	5. 00	5. 50	4. 10	5. 00	4. 33	4. 00	3. 68	6. 00	4. 09
Surface Anatomy of the Back															
Vertebra prominens (C7 spinous process)	4. 67	5. 59	6. 00	2. 00	5. 61	5. 00	6. 00	6. 50	4. 90	7. 00	6. 22	6. 00	5. 32	6. 00	5. 56
Vertebral spinous processes	4. 67	5. 71	6. 00	2. 00	5. 44	5. 00	6. 00	6. 50	5. 70	7. 00	6. 22	6. 00	5. 53	6. 00	5. 68
Nuchal ligament (ligamentum nuchae)	4. 67	5. 03	6. 00	2. 00	4. 89	5. 00	6. 00	6. 50	3. 90	5. 00	6. 22	6. 00	5. 00	6. 00	5. 04

L4 vertebra	4. 67	5. 66	6. 00	2. 00	5. 56	5. 00	6. 00	6. 50	5. 00	7. 00	6. 22	6. 00	5. 63	6. 00	5. 63
Iliac crest	4. 67	5. 71	6. 00	2. 00	5. 67	5. 00	6. 00	6. 50	5. 50	7. 00	6. 33	6. 00	5. 53	6. 00	5. 70
Posterior superior iliac spine (PSIS)	4. 67	5. 52	6. 00	2. 00	5. 39	5. 00	6. 00	6. 50	4. 70	7. 00	6. 33	6. 00	5. 42	6. 00	5. 50
Sacro-iliac joint	4. 67	5. 43	6. 00	2. 00	5. 44	5. 00	6. 00	6. 50	4. 40	7. 00	6. 33	5. 75	5. 37	6. 00	5. 42
Scapula	4. 67	5. 46	6. 00	2. 00	5. 50	5. 00	6. 00	6. 50	4. 20	7. 00	6. 22	5. 75	5. 47	6. 00	5. 44
Rib 12	4. 67	5. 32	6. 00	2. 00	5. 22	5. 00	6. 00	6. 50	3. 90	7. 00	6. 11	5. 75	5. 37	6. 00	5. 30
External occipital protuberance	4. 67	5. 04	6. 00	2. 00	4. 89	5. 00	6. 00	6. 50	3. 80	7. 00	5. 44	5. 50	5. 11	6. 00	5. 02
Occipital artery	4. 67	4. 74	6. 00	2. 00	4. 83	5. 00	6. 00	6. 50	3. 30	5. 50	5. 44	5. 00	5. 05	6. 00	4. 78
Trapezius	4. 67	4. 85	6. 00	2. 00	4. 83	5. 00	6. 00	6. 50	3. 30	6. 00	5. 56	5. 00	5. 32	6. 00	4. 88
Latissimus dorsi	4. 67	4. 86	6. 00	2. 00	4. 83	5. 00	6. 00	6. 50	3. 30	6. 00	5. 56	5. 00	5. 32	6. 00	4. 89
Triangle of auscultation	4. 67	4. 77	6. 00	2. 00	4. 83	5. 00	6. 00	6. 50	3. 50	4. 50	6. 11	5. 00	5. 05	6. 00	4. 84

Included Disciplines

Parent	Included Children
Clinician	Dentistry, Medicine - Allopathic, Medicine - Osteopathic, Physical Therapy, Physician Assistant
	None (all children excluded)

Excluded Disciplines

Parent	Excluded Children
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Color Key

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