

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 1. Classifications of importance for the anatomical structures of the back. Each cell indicates the percentage of 3 and 4 ratings (3+4%) and is color-coded for the level of classification, as indicated in the key.

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Skeleton and Muscles				
Vertebral Column				
Curvatures	100.0	33.3	46.2	100.0
Regional characteristics of vertebrae	100.0	53.3	23.1	100.0
Ligaments	100.0	53.3	30.8	100.0
Intervertebral joints	100.0	46.7	30.8	100.0
Sacro-iliac joints	83.3	60.0	53.8	100.0
Nerve supply	100.0	80.0	61.5	100.0
Blood supply	100.0	73.3	61.5	100.0
Lymphatic drainage	33.3	20.0	46.2	90.5
Back Muscles				
Extrinsic back muscles				
Superficial ¹	33.3	46.7	30.8	100.0
Intermediate ²	16.7	26.7	30.8	100.0
Intrinsic back muscles				
Splenius muscles	16.7	20.0	30.8	95.2
Erector spinae muscles	33.3	20.0	30.8	95.2
Transversospinal muscles	33.3	20.0	30.8	95.2
Neck Muscles				
Sternocleidomastoid	83.3	93.3	30.8	100.0
Anterior prevertebral ³	50.0	20.0	23.1	100.0
Lateral prevertebral ⁴	66.7	20.0	23.1	100.0
Spinal Nerves, Spinal Cord, Meninges				
Spinal Nerve				
Structure: roots, dorsal root ganglion, spinal nerve, rami	100.0	46.2	61.5	100.0
Suboccipital	83.3	13.3	53.8	95.2
Greater occipital	83.3	13.3	53.8	95.2
Lesser occipital	83.3	13.3	53.8	95.2
Spinal Cord				
Dorsal & ventral horns	100.0	46.7	61.5	95.2
White matter	66.7	53.3	61.5	95.2
Gray matter	66.7	53.3	61.5	95.2
Spinal Meninges				
Dura mater	100.0	86.7	76.9	100.0
Epidural space	100.0	86.7	76.9	100.0
Arachnoid mater	83.3	80.0	76.9	100.0
Subarachnoid space	100.0	93.3	76.9	100.0
Arachnoid trabeculae	66.7	73.3	76.9	100.0
Pia mater	66.7	66.7	76.9	95.2

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

1. Superficial back muscles: trapezius, latissimus dorsi, levator scapulae, rhomboids
2. Intermediate back muscles: serratus posterior superior and inferior
3. Anterior prevertebral muscles: longus colli and capitis, anterior scalene, rectus capitis anterior
4. Lateral prevertebral muscles: levator scapulae, middle and posterior scalenes, rectus capitis lateralis

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Table 1 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Blood Vessels				
Arteries				
Anterior spinal	100.0	53.3	46.2	100.0
Posterior spinal	100.0	53.3	38.5	100.0
Segmental medullary	50.0	26.7	38.5	95.2
Great segmental medullary (Ademkiewicz)	83.3	20.0	38.5	100.0
Radicular	50.0	20.0	38.5	90.5
Veins				
Anterior spinal	33.3	13.3	38.5	95.2
Posterior spinal	33.3	13.3	38.5	95.2
Segmental medullary	33.3	0.0	38.5	95.2
Radicular	40.0	0.0	38.5	90.5
Internal vertebral plexus	33.3	0.0	38.5	90.5
External vertebral plexus	33.3	0.0	38.5	90.5
Surface Anatomy				
Vertebra prominens	100.0	80.0	69.2	100.0
Vertebral spines	100.0	100.0	69.2	100.0
Nuchal ligament	100.0	60.0	61.5	100.0
L4 vertebra	100.0	93.3	76.9	100.0
Iliac crest	100.0	100.0	84.6	100.0
Sacro-iliac joint	100.0	93.3	76.9	100.0
Scapula	100.0	93.3	69.2	100.0
Rib 12	100.0	73.3	58.3	95.2
External occipital protuberance	100.0	73.3	46.2	95.2
Occipital artery	83.3	60.0	53.8	95.2
Trapezius muscle	83.3	86.7	61.5	100.0
Latissimus dorsi muscle	66.7	80.0	61.5	100.0
Rhomboid muscles	50.0	53.3	61.5	100.0
Teres major muscle	50.0	60.0	58.3	100.0
Deltoid muscle	66.7	93.3	58.3	100.0

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 2. Classifications of importance for the anatomical structures of the upper limb. Each cell indicates the percentage of 3 and 4 ratings (3+4%) and is color-coded for the level of classification, as indicated in the key.

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: $\geq 75.0\%$ More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: $<25.0\%$				
Skeleton				
Bones of Shoulder and Arm				
Scapula	50.0	100.0	38.5	100.0
Clavicle	50.0	100.0	38.5	100.0
Sternum	66.7	100.0	38.5	100.0
Rib 1	50.0	100.0	38.5	100.0
Humerus	66.7	100.0	38.5	100.0
Bones of Forearm				
Radius	66.7	100.0	53.8	100.0
Ulna	66.7	100.0	53.8	100.0
Interosseous membrane	50.0	73.3	46.2	100.0
Bones of Wrist and Hand				
Carpals	33.3	100.0	38.5	100.0
Metacarpals	33.3	100.0	38.5	100.0
Phalanges, sesamoid bones	33.3	100.0	38.5	100.0
Joints				
Sternoclavicular Joint				
Location, anatomical relationships	50.0	93.3	46.2	100.0
Anatomical structure	33.3	93.3	46.2	100.0
Movements	33.3	86.7	46.2	100.0
Nerve supply	33.3	60.0	38.5	100.0
Blood supply	33.3	53.3	38.5	100.0
Acromioclavicular Joint				
Location, anatomical relationships	33.3	93.3	38.5	100.0
Anatomical structure	16.7	93.3	38.5	100.0
Movements	16.7	86.7	38.5	100.0
Nerve supply	16.7	46.7	38.5	100.0
Blood supply	16.7	46.7	38.5	100.0
Glenohumeral Joint				
Location, anatomical relationships	16.7	93.3	38.5	100.0
Anatomical structure	16.7	100.0	38.5	100.0
Movements	16.7	93.3	38.5	100.0
Nerve supply	16.7	80.0	38.5	100.0
Blood supply	16.7	73.3	38.5	100.0
Elbow Joint				
Location, anatomical relationships	33.3	93.3	30.8	100.0
Anatomical structure	16.7	93.3	30.8	100.0
Movements	16.7	93.3	30.8	100.0
Nerve supply	33.3	73.3	30.8	100.0
Blood supply	16.7	73.3	30.8	100.0
Distal Radio-ulnar and Wrist Joints				
Location, anatomical relationships	16.7	93.3	23.1	100.0
Anatomical structure	16.7	100.0	23.1	100.0
Movements	16.7	100.0	23.1	100.0
Nerve supply	16.7	73.3	30.8	100.0
Blood supply	16.7	73.3	30.8	100.0

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

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Table 2 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: $\geq 75.0\%$ More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: $<25.0\%$				
Joints of the Hand				
Location, anatomical relationships	16.7	93.3	16.7	100.0
Anatomical structure	16.7	100.0	16.7	100.0
Movements	16.7	93.3	16.7	100.0
Nerve supply	50.0	73.3	16.7	100.0
Blood supply	16.7	66.7	16.7	100.0
Fascia				
Location, Structure, Relationships				
Palmar carpal ligament	0.0	53.3	23.1	100.0
Transverse carpal ligament (flexor retinaculum)	0.0	60.0	15.4	100.0
Extensor retinaculum	16.7	40.0	7.7	100.0
Palmar aponeurosis	0.0	40.0	7.7	100.0
Fibrous digital sheath	0.0	53.3	7.7	100.0
Muscles				
Extrinsic Shoulder Muscles				
Attachments	33.3	73.3	30.8	100.0
Action(s)	33.3	86.7	38.5	100.0
Nerve supply	50.0	66.7	38.5	100.0
Blood supply	33.3	60.0	38.5	100.0
Myotomes	33.3	60.0	30.8	90.5
Intrinsic Shoulder Muscles				
Attachments	16.7	73.3	23.1	100.0
Action(s)	33.3	93.3	30.8	100.0
Nerve supply	33.3	86.7	23.1	100.0
Blood supply	33.3	73.3	23.1	100.0
Myotomes	33.3	60.0	23.1	90.5
Arm Muscles				
Attachments	33.3	80.0	30.8	100.0
Action(s)	33.3	93.3	38.5	100.0
Nerve supply	50.0	86.7	30.8	100.0
Blood supply	16.7	73.3	30.8	100.0
Myotomes	16.7	60.0	30.8	90.5
Forearm Muscles				
Attachments	16.7	60.0	23.1	100.0
Action(s)	16.7	73.3	30.8	100.0
Nerve supply	50.0	80.0	23.1	100.0
Blood supply	16.7	60.0	23.1	100.0
Myotomes	33.3	46.7	23.1	90.5
Intrinsic Hand Muscles				
Attachments	16.7	66.7	15.4	100.0
Action(s)	33.3	73.3	23.1	100.0
Nerve supply	50.0	66.7	15.4	100.0
Blood supply	16.7	60.0	15.4	100.0
Myotomes	16.7	46.7	15.4	95.2

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

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Table 2 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Nerves				
Brachial Plexus				
Supraclavicular part				
Roots of brachial plexus	100.0	53.3	69.2	100.0
Trunks of brachial plexus	100.0	53.3	69.2	100.0
Divisions of brachial plexus	100.0	53.3	61.5	100.0
Supraclavicular branches				
Dorsal scapular	100.0	60.0	61.5	100.0
Long thoracic	100.0	73.3	61.5	100.0
Suprascapular	100.0	66.7	61.5	100.0
Subclavian	100.0	66.7	61.5	100.0
Infraclavicular part				
Cords	100.0	53.3	61.5	100.0
Infraclavicular branches				
Lateral pectoral	100.0	60.0	61.5	100.0
Medial pectoral	100.0	60.0	61.5	100.0
Upper subscapular	100.0	60.0	61.5	100.0
Thoracodorsal (middle subscapular)	100.0	60.0	61.5	100.0
Lower subscapular	100.0	53.3	61.5	100.0
Medial cutaneous nerve of arm	100.0	60.0	61.5	100.0
Medial cutaneous nerve of forearm	100.0	60.0	61.5	100.0
Terminal branches				
Musculocutaneous	100.0	93.3	61.5	100.0
Median	100.0	100.0	61.5	100.0
Anterior interosseous	100.0	80.0	61.5	100.0
Ulnar	100.0	100.0	61.5	100.0
Axillary	100.0	100.0	61.5	100.0
Radial	100.0	100.0	61.5	100.0
Radial – superficial branch	100.0	86.7	61.5	100.0
Radial – deep branch	100.0	86.7	61.5	100.0
Cranial Nerves				
Accessory (CN XI)	100.0	80.0	69.2	100.0
Blood Vessels				
Arteries				
Subclavian artery	100.0	86.7	23.1	100.0
Internal thoracic	100.0	46.7	23.1	100.0
Thyrocervical trunk	100.0	40.0	23.1	100.0
Suprascapular	100.0	40.0	23.1	100.0
Dorsal scapular	100.0	40.0	23.1	100.0
Axillary artery	100.0	93.3	23.1	100.0
Superior thoracic	100.0	33.3	23.1	100.0
Thoraco-acromial trunk	100.0	33.3	23.1	100.0
Lateral thoracic	83.3	33.3	23.1	100.0
Subscapular	100.0	40.0	23.1	100.0
Thoracodorsal	100.0	33.3	23.1	100.0
Circumflex scapular	100.0	40.0	23.1	100.0
Circumflex humeral (anterior, posterior)	100.0	46.7	23.1	100.0
Brachial artery	100.0	90.0	100.0	83.3
Profunda brachii artery (deep artery of arm)	80.0	33.3	23.1	95.2
Ulnar collateral (superior, inferior)	100.0	40.0	23.1	95.2

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 2 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Radial artery	100.0	86.7	23.1	95.2
Radial recurrent	100.0	46.7	23.1	95.2
Deep palmar arch	100.0	60.0	23.1	95.2
Palmar metacarpal	80.0	33.3	23.1	90.5
Princeps pollicis	50.0	33.3	23.1	90.5
Radialis indicis	50.0	33.3	23.1	90.5
Ulnar artery	100.0	93.3	23.1	95.2
Ulnar recurrent (anterior, posterior)	83.3	50.0	23.1	95.2
Common interosseous	33.3	28.6	23.1	95.2
Anterior interosseous	33.3	28.6	23.1	95.2
Posterior interosseous	33.3	28.6	23.1	95.2
Superficial palmar arch	100.0	64.3	23.1	95.2
Common palmar digital	50.0	35.7	23.1	95.2
Proper palmar digital	50.0	35.7	23.1	95.2
Veins				
Dorsal venous network	66.7	46.7	30.8	90.5
Cephalic	66.7	73.3	30.8	95.2
Basilic	66.7	80.0	30.8	95.2
Median cubital (antecubital)	50.0	73.3	30.8	90.5
Brachial (paired)	50.0	66.7	30.8	95.2
Axillary	66.7	53.3	30.8	95.2
Subclavian	83.3	73.3	30.8	95.2
Lymphatics				
Major groups of lymph nodes	16.7	35.7	61.5	71.4
Axillary nodes	16.7	35.7	53.8	71.4
Anatomical Spaces				
Axilla	16.7	80.0	23.1	100.0
Quadrangular space	16.7	40.0	23.1	100.0
Triangular space	16.7	33.3	23.1	100.0
Triceps hiatus	16.7	33.3	15.4	100.0
Cubital fossa	33.3	66.7	23.1	100.0
Cubital tunnel	33.3	40.0	23.1	100.0
Carpal tunnel	50.0	93.3	46.2	100.0
Ulnar canal (of Guyon)	16.7	53.3	7.7	100.0
Surface Anatomy				
Dermatomes	100.0	86.7	53.8	100.0
Cutaneous distribution of named nerves	100.0	66.7	38.5	100.0
Coracoid process	83.3	93.3	30.8	100.0
Acromion	83.3	93.3	30.8	100.0
Scapular spine	66.7	80.0	30.8	100.0
Inferior scapular angle	66.7	85.7	30.8	100.0
Acromioclavicular joint	66.7	86.7	30.8	100.0
Glenohumeral joint	66.7	100.0	30.8	100.0
Tubercles of humerus	83.3	93.3	30.8	100.0
Medial epicondyle	66.7	86.7	30.8	100.0
Distal radius and styloid process	83.3	93.3	30.8	100.0
Distal ulna and styloid process	25.0	92.9	30.8	93.3

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 2 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Pisiform	16.7	80.0	15.4	95.2
Hamate (hamulus)	16.7	86.7	16.7	95.2
Scaphoid	16.7	93.3	15.4	95.2
Trapezium	16.7	86.7	15.4	95.2
Lunate	16.7	80.0	15.4	95.2
Capitate	16.7	80.0	15.4	95.2
Metacarpals	33.3	93.3	23.1	95.2
Phalanges	33.3	93.3	23.1	95.2
Brachial artery	83.3	93.3	30.8	95.2
Radial artery	83.3	100.0	30.8	95.2
Ulnar artery	83.3	100.0	30.8	95.2
Superficial palmar arterial arch	83.3	80.0	30.8	95.2
Deep palmar arterial arch	83.3	73.3	30.8	95.2
Cephalic vein	66.7	86.7	30.8	95.2
Basilic vein	66.7	80.0	30.8	95.2
Median cubital vein	50.0	80.0	30.8	90.5
Palpable lymph nodes	33.3	73.3	30.8	85.7

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 3. Classifications of importance for the anatomical structures of the lower limb. Each cell indicates the percentage of 3 and 4 ratings (3+4%) and is color-coded for the level of classification, as indicated in the key.

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: $\geq 75.0\%$ More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: $<25.0\%$				
Skeleton				
Bones of Hip and Thigh				
Hip bone	50.0	100.0	92.3	100.0
Femur	33.3	100.0	92.3	100.0
Patella	33.3	100.0	84.6	100.0
Bones of Leg and Foot				
Tibia	33.3	100.0	61.5	100.0
Fibula	33.3	100.0	61.5	100.0
Interosseous membrane	16.7	87.5	61.5	100.0
Tarsals	33.3	100.0	53.8	100.0
Metatarsals	33.3	100.0	53.8	100.0
Phalanges, sesamoid bones	16.7	93.8	53.8	100.0
Joints				
Hip Joint				
Location, anatomical relationships	33.3	93.8	69.2	100.0
Anatomical structure	33.3	93.8	69.2	100.0
Movements	33.3	93.8	69.2	100.0
Nerve supply	66.7	68.8	76.9	100.0
Blood supply	66.7	81.3	69.2	100.0
Knee Joint				
Location, anatomical relationships	50.0	93.8	53.8	100.0
Anatomical structure	50.0	100.0	53.8	100.0
Movements	50.0	93.8	53.8	100.0
Nerve supply	83.3	62.5	53.8	100.0
Blood supply	66.7	68.8	53.8	100.0
Ankle Joint				
Location, anatomical relationships	33.3	93.8	30.8	100.0
Anatomical structure	33.3	93.8	30.8	100.0
Movements	33.3	93.8	30.8	100.0
Nerve supply	66.7	68.8	30.8	100.0
Blood supply	50.0	68.8	30.8	100.0
Joints of the Foot				
Location, anatomical relationships	16.7	93.8	23.1	100.0
Anatomical structure	16.7	93.8	23.1	100.0
Movements	16.7	93.8	23.1	100.0
Nerve supply	66.7	57.1	20.0	100.0
Blood supply	50.0	64.3	30.0	100.0
Fascia				
Location, Structure, Relationships				
Fascia lata	33.3	50.0	30.8	100.0
Iliotibial tract (band)	33.3	43.8	30.8	100.0
Saphenous opening	16.7	31.3	30.8	95.2
Crural fascia (deep fascia of leg)	20.0	18.8	30.8	95.2
Flexor retinaculum	20.0	37.5	23.1	95.2
Extensor retinacula	20.0	37.5	23.1	95.2
Plantar aponeurosis	20.0	50.0	25.0	95.2
Fibrous digital sheath	20.0	31.3	25.0	95.2

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

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Table 3 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Muscles				
Gluteal Muscles				
Attachments	16.7	56.3	69.2	100.0
Action(s)	16.7	62.5	76.9	100.0
Nerve supply	16.7	31.3	69.2	100.0
Blood supply	33.3	31.3	69.2	100.0
Myotomes	33.3	25.0	53.8	95.2
Thigh Muscles				
Attachments	50.0	73.3	61.5	100.0
Action(s)	50.0	75.0	69.2	100.0
Nerve supply	66.7	46.7	61.5	100.0
Blood supply	66.7	40.0	61.5	100.0
Myotomes	66.7	33.3	61.5	90.5
Leg Muscles				
Attachments	50.0	68.8	46.2	100.0
Action(s)	50.0	81.3	46.2	100.0
Nerve supply	66.7	43.8	53.8	100.0
Blood supply	66.7	43.8	46.2	100.0
Myotomes	66.7	37.5	46.2	90.5
Intrinsic Foot Muscles				
Attachments	16.7	43.8	23.1	100.0
Action(s)	16.7	43.8	23.1	100.0
Nerve supply	33.3	37.5	23.1	100.0
Blood supply	33.3	25.0	23.1	100.0
Myotomes	33.3	25.0	23.1	90.5
Nerves				
Lumbar Plexus				
Ilio-inguinal nerve	83.3	62.5	84.6	95.2
Genitofemoral nerve	83.3	62.5	84.6	95.2
Lateral femoral cutaneous nerve	83.3	68.8	84.6	95.2
Obturator nerve	83.3	75.0	84.6	95.2
Femoral nerve	83.3	81.3	84.6	95.2
Saphenous nerve	83.3	75.0	84.6	95.2
Sacral Plexus				
Superior and inferior gluteal	83.3	53.3	84.6	100.0
Posterior femoral cutaneous nerves	83.3	40.0	84.6	100.0
Sciatic nerve	83.3	80.0	84.6	100.0
Common fibular nerve	83.3	60.0	84.6	100.0
Superficial fibular nerve	83.3	53.3	84.6	100.0
Deep fibular nerve	83.3	46.7	84.6	100.0
Lateral sural cutaneous nerve	83.3	33.3	84.6	100.0
Tibial nerve	83.3	53.3	84.6	100.0
Medial and lateral plantar nerves	83.3	46.7	84.6	100.0
Medial sural cutaneous nerve	100.0	40.0	84.6	100.0
Pudendal nerve	100.0	46.7	84.6	100.0

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 3 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Blood Vessels				
Arteries				
Superior and inferior gluteal	66.7	31.3	84.6	100.0
Femoral	83.3	75.0	84.6	95.2
Superficial circumflex iliac	50.0	25.0	84.6	95.2
External pudendal	50.0	18.8	84.6	100.0
Profunda femoris	50.0	18.8	84.6	100.0
Medial circumflex femoral	50.0	25.0	84.6	100.0
Lateral circumflex femoral	50.0	31.3	84.6	100.0
Cruciate arterial anastomosis	50.0	18.8	76.9	100.0
Perforating	50.0	18.8	76.9	100.0
Popliteal	100.0	68.8	76.9	100.0
Genicular (superior, inferior), genicular anastomosis	75.0	25.0	76.9	100.0
Anterior tibial	83.3	31.3	76.9	100.0
Malleolar arterial branches	50.0	12.5	76.9	100.0
Tarsal arterial branches	50.0	18.8	76.9	100.0
Dorsalis pedis	83.3	43.8	76.9	100.0
Posterior tibial	100.0	56.3	69.2	100.0
Fibular	66.7	31.3	69.2	100.0
Medial and lateral plantar	66.7	18.8	69.2	100.0
Veins				
Superior and inferior gluteal	66.7	37.5	69.2	95.2
Femoral	83.3	75.0	69.2	95.2
Profunda femoris	83.3	37.5	61.5	95.2
Great saphenous	83.3	62.5	61.5	95.2
Popliteal	83.3	75.0	53.8	100.0
Small saphenous	66.7	31.3	53.8	95.2
Dorsal venous arch	66.7	31.3	53.8	90.5
Lymphatics				
Major groups of lymph nodes	16.7	6.3	69.2	76.2
Anatomical Spaces				
Femoral triangle	80.0	87.5	33.3	95.2
Popliteal fossa	80.0	87.5	16.7	100.0
Surface Anatomy				
Dermatomes	100.0	81.3	50.0	100.0
Cutaneous distribution of named nerves	80.0	68.8	50.0	100.0
Sciatic nerve	100.0	93.8	50.0	100.0
Tibial nerve	100.0	87.5	41.7	100.0
Common fibular nerve	100.0	87.5	50.0	100.0
Iliac crest	83.3	93.8	50.0	100.0
Anterior superior iliac spine	100.0	93.8	50.0	100.0
Greater trochanter	100.0	100.0	41.7	100.0
Patella	60.0	100.0	33.3	100.0
Femoral epicondyles	40.0	93.8	33.3	100.0
Tibial epicondyles	40.0	93.8	33.3	100.0
Medial & lateral malleoli	80.0	100.0	33.3	100.0
Fibular head & neck	60.0	100.0	25.0	100.0

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 3 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Surface Anatomy (continued)				
Calcaneus	40.0	87.5	25.0	100.0
Talus	40.0	86.7	25.0	100.0
Navicular	40.0	87.5	25.0	100.0
Cuboid	40.0	87.5	25.0	100.0
Cuneiforms (medial, middle, lateral)	40.0	87.5	25.0	100.0
Metatarsals	20.0	87.5	25.0	100.0
Phalanges and sesamoids	20.0	93.8	25.0	100.0
Piriformis muscle	20.0	75.0	41.7	100.0
Tendon of obturator internus muscle	20.0	50.0	41.7	100.0
Gracilis muscle	20.0	62.5	33.3	100.0
Tendons of semitendinosus & semimembranosus mm.	25.0	75.0	33.3	100.0
Biceps femoris muscle	60.0	75.0	33.3	100.0
Gastrocnemius muscle	60.0	81.3	33.3	100.0
Calcaneal (Achilles) tendon	60.0	93.8	33.3	100.0
Femoral artery	100.0	100.0	41.7	100.0
Popliteal artery	100.0	93.8	33.3	100.0
Dorsalis pedis artery	100.0	93.8	33.3	100.0
Femoral vein	100.0	93.8	33.3	100.0
Great saphenous vein	100.0	81.3	33.3	100.0
Saphenous opening	60.0	43.8	33.3	95.2
Lesser saphenous vein	60.0	43.8	33.3	100.0
Palpable lymph nodes	20.0	25.0	41.7	85.7

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 4. Classifications of importance for the anatomical structures of the thorax. Each cell indicates the percentage of 3 and 4 ratings (3+4%) and is color-coded for the level of classification, as indicated in the key.

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: $\geq 75.0\%$ More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: $<25.0\%$				
Anatomical Structures and Organs				
Skeleton of Thoracic Wall				
Location, structure, relationships	100.0	85.7	53.8	90.5
Function in respiration	100.0	85.7	53.8	90.5
Nerve supply	100.0	64.3	53.8	85.7
Blood supply	100.0	64.3	53.8	85.7
Muscles of Thoracic Wall				
Location, structure, relationships	66.7	71.4	38.5	85.7
Function in respiration	66.7	71.4	38.5	85.7
Nerve supply	66.7	57.1	38.5	81.0
Blood supply	66.7	57.1	38.5	81.0
Thoracic Apertures				
Location, structure, relationships	66.7	57.1	46.2	76.2
Diaphragm	66.7	92.9	46.2	76.2
Specific apertures: caval, esophageal, aortic	66.7	42.9	46.2	76.2
Function	66.7	64.3	46.2	76.2
Nerve supply	66.7	57.1	46.2	76.2
Breast				
Location, structure, relationships	33.3	64.3	92.3	57.1
Mammary glands & lactiferous ducts	33.3	28.6	92.3	57.1
Nerve supply	33.3	21.4	92.3	57.1
Blood supply	33.3	14.3	92.3	57.1
Lymphatic drainage	33.3	28.6	92.3	57.1
Mediastinum				
Location, structure, relationships	83.3	78.6	46.2	76.2
Divisions & major contents	83.3	64.3	46.2	76.2
Pericardium and Pericardial Sac				
Location, structure, relationships	83.3	100.0	46.2	66.7
Nerve supply	66.7	85.7	46.2	66.7
Heart and Great Vessels				
Location, structure, relationships	100.0	100.0	76.9	81.0
Chambers	100.0	100.0	76.9	81.0
Valves	100.0	100.0	76.9	81.0
Nerve supply	100.0	85.7	76.9	81.0
Blood supply (coronary arteries, cardiac veins)	100.0	100.0	76.9	81.0
Lymphatic drainage	66.7	42.9	76.9	76.2
Pleura				
Location, structure, relationships	83.3	100.0	38.5	71.4
Nerve supply	66.7	58.3	38.5	71.4
Lungs				
Location, structure, relationships	100.0	100.0	76.9	66.7
Lobes & segments	83.3	85.7	76.9	66.7
Function	100.0	100.0	76.9	66.7
Nerve supply	100.0	57.1	76.9	66.7
Blood supply	100.0	85.7	76.9	66.7
Lymphatic drainage	66.7	42.9	76.9	61.9

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 4 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Trachea and Bronchi				
Location, structure, relationships	100.0	86.7	53.8	81.0
Nerve supply	100.0	53.3	53.8	76.2
Blood supply	100.0	53.3	53.8	76.2
Lymphatic drainage	66.7	40.0	53.8	71.4
Esophagus (Thoracic Part)				
Location, structure, relationships	83.3	80.0	53.8	76.2
Nerve supply	66.7	33.3	53.8	71.4
Blood supply	66.7	40.0	53.8	71.4
Lymphatic drainage	33.3	33.3	53.8	66.7
Thymus				
Location, structure, relationships	50.0	40.0	23.1	66.7
Function	50.0	20.0	23.1	61.9
Blood supply	50.0	20.0	23.1	61.9
Lymphatic drainage	33.3	13.3	23.1	61.9
Nerves, Plexuses, Ganglia				
Nerves (Course, Branches, Composition)				
Intercostal nerves	100.0	80.0	23.1	85.7
Phrenic nerve	100.0	86.7	23.1	85.7
Vagus nerve	100.0	80.0	30.8	85.7
Recurrent laryngeal nerve	100.0	80.0	23.1	85.7
Thoracic sympathetic chain	100.0	53.3	23.1	85.7
Thoracic splanchnic nerves	83.3	40.0	23.1	85.7
Plexuses				
Esophageal plexus	83.3	26.7	23.1	81.0
Aortic plexus	100.0	40.0	23.1	81.0
Cardiac plexus	100.0	33.3	23.1	81.0
Ganglia				
Thoracic sympathetic ganglia	100.0	46.7	30.8	76.2
Blood Vessels				
Arteries				
Aorta	100.0	100.0	76.9	85.7
Intercostal arteries (and veins)	100.0	80.0	69.2	85.7
Bronchial arteries (and veins)	100.0	73.3	61.5	85.7
Brachiocephalic trunk	100.0	80.0	61.5	85.7
Subclavian arteries	100.0	93.3	69.2	85.7
Internal thoracic (mammary)	83.3	57.1	69.2	85.7
Coronary arteries	100.0	92.9	61.5	85.7
Veins				
Esophageal veins (and arteries)	83.3	46.7	53.8	76.2
Brachiocephalic veins	100.0	53.3	53.8	76.2
Superior vena cava	100.0	93.3	61.5	76.2
Inferior vena cava	100.0	93.3	61.5	76.2
Azygos venous system	100.0	46.7	61.5	76.2
Pulmonary trunk and pulmonary arteries	100.0	80.0	61.5	76.2
Cardiac veins	100.0	60.0	61.5	85.7
Pulmonary veins	83.3	80.0	61.5	85.7
Lymphatics				
Major groups of lymph nodes	20.0	21.4	33.3	66.7
Thoracic duct	66.7	30.8	25.0	81.0

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 4 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Surface Anatomy				
Dermatomes	100.0	66.7	69.2	90.5
Ribs, costal cartilages, intercostal spaces, costal margin	100.0	100.0	76.9	90.5
Sternum (manubrium, body, sternal angle, xiphoid)	100.0	100.0	76.9	90.5
Clavicle	100.0	100.0	76.9	95.2
Jugular notch	83.3	86.7	69.2	85.7
Scapula	83.3	92.9	69.2	95.2
Breast	66.7	80.0	84.6	81.0
Heart	100.0	100.0	84.6	81.0
Heart valves	100.0	93.3	84.6	81.0
Pericardium, percardial sac	83.3	100.0	76.9	81.0
Trachea	100.0	93.3	76.9	81.0
Pleura	100.0	100.0	76.9	81.0
Lungs and lobes	100.0	93.3	84.6	81.0
Thoracic aorta (ascending, arch, descending)	100.0	92.9	76.9	81.0
Mediastinal subdivisions	100.0	66.7	76.9	81.0
Subclavian vein	100.0	100.0	76.9	85.7
Palpable lymph nodes	66.7	60.0	76.9	81.0

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 5. Classifications of importance for the anatomical structures of the abdomen. Each cell indicates the percentage of 3 and 4 ratings (3+4%) and is color-coded for the level of classification, as indicated in the key.

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: $\geq 75.0\%$ More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: $<25.0\%$				
Anatomical Structures and Organs				
Anterior/Lateral Abdominal Wall				
Location, structure, relationships	50.0	73.3	92.3	81.0
Muscles of anterolateral abdominal wall	50.0	53.3	92.3	85.7
Function	50.0	53.3	92.3	81.0
Nerve supply	66.7	33.3	92.3	81.0
Blood supply	66.7	40.0	92.3	81.0
Fascia of Abdominal Wall, Peritoneum				
Location, structure, relationships	50.0	60.0	100.0	81.0
Nerve supply	66.7	33.3	100.0	76.2
Diaphragm				
Location, structure, relationships	100.0	86.7	76.9	76.2
Function	100.0	86.7	76.9	76.2
Nerve supply	100.0	86.7	76.9	76.2
Blood supply	83.3	66.7	76.9	76.2
Inguinal Region, Inguinal Canal (including Contents)				
Location, structure, relationships	16.7	86.7	84.6	85.7
Function	16.7	86.7	84.6	85.7
Nerve supply	16.7	60.0	84.6	85.7
Posterior Abdominal Wall				
Location, structure, relationships	16.7	53.3	84.6	76.2
Muscles	16.7	40.0	84.6	76.2
Function	16.7	40.0	84.6	76.2
Nerve supply	33.3	26.7	84.6	76.2
Blood supply	33.3	26.7	84.6	76.2
Esophagus (Abdominal)				
Location, structure, relationships	33.3	86.7	38.5	71.4
Function	33.3	86.7	38.5	71.4
Nerve supply	33.3	53.3	38.5	71.4
Blood supply	33.3	40.0	38.5	66.7
Lymphatic drainage	16.7	26.7	38.5	71.4
Stomach				
Location, structure, relationships	33.3	93.3	69.2	61.9
Function	33.3	93.3	69.2	61.9
Nerve supply	50.0	46.7	69.2	61.9
Blood supply	50.0	66.7	69.2	61.9
Lymphatic drainage	0.0	26.7	69.2	61.9
Small Intestine				
Location, structure, relationships	33.3	100.0	69.2	61.9
Function	33.3	100.0	69.2	61.9
Nerve supply	50.0	33.3	69.2	61.9
Blood supply	50.0	60.0	69.2	61.9
Lymphatic drainage	0.0	33.3	61.5	61.9

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 5 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Large Intestine				
Location, structure, relationships	33.3	100.0	92.3	61.9
Function	33.3	100.0	92.3	61.9
Nerve supply	50.0	46.7	92.3	61.9
Blood supply	0.0	66.7	75.0	83.3
Lymphatic drainage	0.0	35.7	40.0	52.4
Pancreas				
Location, structure, relationships	50.0	93.3	46.2	66.7
Function	50.0	100.0	46.2	66.7
Nerve supply	50.0	46.7	46.2	66.7
Blood supply	50.0	60.0	46.2	66.7
Lymphatic drainage	33.3	26.7	46.2	66.7
Liver				
Location, structure, relationships	66.7	93.3	84.6	66.7
Function	66.7	100.0	84.6	66.7
Lobes & segments	50.0	80.0	53.8	66.7
Nerve supply	66.7	40.0	84.6	66.7
Blood supply	66.7	73.3	84.6	66.7
Lymphatic drainage	50.0	20.0	76.9	66.7
Gallbladder, Biliary Tree				
Location, structure, relationships	50.0	93.3	53.8	66.7
Function	50.0	100.0	53.8	66.7
Nerve supply	33.3	40.0	53.8	66.7
Blood supply	50.0	53.3	53.8	66.7
Lymphatic drainage	16.7	20.0	53.8	66.7
Spleen				
Location, structure, relationships	50.0	93.3	53.8	66.7
Function	50.0	100.0	53.8	66.7
Nerve supply	50.0	33.3	53.8	66.7
Blood supply	50.0	66.7	53.8	66.7
Lymphatic drainage	33.3	20.0	53.8	66.7
Kidneys, Ureters, Adrenal Glands				
Location, structure, relationships	66.7	93.3	84.6	66.7
Function	66.7	100.0	84.6	66.7
Nerve supply	66.7	40.0	84.6	66.7
Blood supply	66.7	73.3	84.6	66.7
Lymphatic drainage	50.0	20.0	76.9	66.7
Nerves, Plexuses, Ganglia				
Nerves (Course, Branches, Composition)				
Phrenic	100.0	73.3	61.5	90.5
Obturator	83.3	53.3	76.9	90.5
Femoral	100.0	66.7	92.3	90.5
Lumbosacral trunk	83.3	46.7	69.2	90.5
Ilio-inguinal and iliohypogastric	83.3	33.3	84.6	90.5
Genitofemoral	66.7	46.7	84.6	90.5
Lateral cutaneous nerve of thigh	100.0	33.3	92.3	90.5
Vagus nerve, vagal trunks	100.0	60.0	61.5	90.5
Abdominal sympathetic chain	100.0	26.7	61.5	81.0
Thoracic splanchnic	100.0	26.7	61.5	76.2
Lumbar splanchnic	0.0	27.3	60.0	42.9
Pelvic splanchnic	66.7	23.1	50.0	71.4

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 5 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Plexuses				
Esophageal	66.7	14.3	23.1	61.9
Celiac	83.3	14.3	30.8	61.9
Renal	66.7	7.1	30.8	61.9
Superior mesenteric	66.7	21.4	38.5	61.9
Intermesenteric	66.7	14.3	30.8	61.9
Inferior mesenteric	66.7	14.3	30.8	61.9
Superior hypogastric	66.7	14.3	30.8	61.9
Hypogastric nerves	66.7	14.3	38.5	61.9
Inferior hypogastric	66.7	14.3	38.5	61.9
Myenteric (Auerbach)	66.7	14.3	30.8	61.9
Lumbar	83.3	21.4	30.8	66.7
Ganglia				
Celiac	83.3	7.1	23.1	61.9
Superior mesenteric	83.3	7.1	23.1	61.9
Aorticorenal	66.7	0.0	23.1	61.9
Inferior mesenteric	83.3	0.0	23.1	61.9
Lumbar sympathetic	83.3	0.0	23.1	71.4
Prevertebral sympathetic	83.3	0.0	23.1	71.4
Intrinsic parasymphathetic	83.3	0.0	23.1	61.9
Blood Vessels				
Arteries				
Abdominal aorta	100.0	93.3	92.3	76.2
Celiac trunk	83.3	86.7	84.6	71.4
Left gastric	66.7	60.0	84.6	71.4
Common hepatic	66.7	66.7	84.6	71.4
Gastrooduodenal	66.7	60.0	84.6	71.4
Superior pancreaticoduodenal	66.7	46.7	84.6	71.4
Right gastro-omental (gastro-epiploic)	66.7	46.7	84.6	71.4
Right gastric	66.7	53.3	84.6	71.4
Hepatic artery proper	66.7	66.7	84.6	71.4
Cystic	66.7	60.0	84.6	71.4
Splenic	66.7	93.3	84.6	71.4
Pancreatic arterial branches	66.7	53.3	84.6	71.4
Left gastro-omental (gastro-epiploic)	66.7	53.3	84.6	71.4
Short gastric arteries	66.7	60.0	84.6	71.4
Superior mesenteric	66.7	93.3	92.3	71.4
Inferior mesenteric	66.7	93.3	92.3	71.4
Renal	83.3	86.7	92.3	71.4
Gonadal	66.7	66.7	92.3	71.4
Veins				
Inferior vena cava	100.0	93.3	100.0	71.4
Hepatic portal vein	100.0	93.3	92.3	71.4
Portosystemic anastomoses	100.0	80.0	92.3	71.4
Lymphatics				
Major groups of lymph nodes	16.7	40.0	53.8	66.7
Thoracic duct	33.3	33.3	46.2	71.4
Cisterna chyli	16.7	13.3	46.2	66.7

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 5 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Surface Anatomy				
Abdominal regions and quadrants	80.0	100.0	100.0	81.0
Umbilicus	83.3	93.3	100.0	85.7
Linea alba	83.3	73.3	100.0	85.7
Semilunar line	66.7	40.0	100.0	85.7
Dermatomes	66.7	66.7	100.0	81.0
Dermatomal localization of referred pain	100.0	73.3	100.0	81.0
Cutaneous distribution of ilio-inguinal nerve (cremasteric reflex)	83.3	73.3	100.0	81.0
Xiphoid process	66.7	86.7	100.0	85.7
Anterior superior iliac spine	100.0	92.9	100.0	95.2
Iliac crest	100.0	93.3	100.0	95.2
Pubic symphysis and tubercle	83.3	93.3	100.0	95.2
Inguinal ligament	66.7	80.0	92.3	95.2
Superficial inguinal ring	83.3	66.7	92.3	90.5
Deep inguinal ring	66.7	66.7	92.3	90.5
Inferior epigastric artery	66.7	66.7	100.0	90.5
Liver and gallbladder	66.7	100.0	100.0	76.2
Stomach	83.3	93.3	100.0	76.2
Appendix	66.7	100.0	100.0	76.2
Transverse colon	66.7	100.0	100.0	76.2
Kidneys and ureters	66.7	100.0	100.0	76.2
Spleen	66.7	100.0	100.0	76.2

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 6. Classifications of importance for the anatomical structures of the pelvis and perineum. Each cell indicates the percentage of 3 and 4 ratings (3+4%) and is color-coded for the level of classification, as indicated in the key.

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: $\geq 75.0\%$ More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: $<25.0\%$				
Anatomical Structures and Organs (Both Sexes)				
Pelvic Skeleton (Bones and Ligaments)				
Location, structure, anatomical relationships	33.3	71.4	100.0	95.2
Nerve supply	33.3	50.0	100.0	95.2
Pelvic Floor Musculature				
Location, structure, anatomical relationships	16.7	28.6	100.0	85.7
Function	16.7	28.6	100.0	85.7
Nerve supply	16.7	21.4	100.0	85.7
Pelvic Fascia				
Location, structure, anatomical relationships	0.0	7.1	100.0	90.5
Function	0.0	14.3	100.0	90.5
Urogenital Diaphragm				
Location, structure, anatomical relationships	0.0	14.3	100.0	71.4
Function	0.0	21.4	100.0	71.4
Nerve supply	0.0	14.3	100.0	71.4
Sigmoid Colon				
Location, structure, anatomical relationships	33.3	80.0	92.3	66.7
Nerve supply	33.3	33.3	92.3	66.7
Blood supply	33.3	73.3	92.3	66.7
Lymphatic drainage	16.7	13.3	84.6	61.9
Rectum				
Location, structure, anatomical relationships	33.3	86.7	92.3	66.7
Function	33.3	86.7	92.3	66.7
Nerve supply	33.3	53.3	92.3	66.7
Blood supply	33.3	73.3	92.3	66.7
Lymphatic drainage	16.7	13.3	84.6	61.9
Anal Canal				
Location, structure, anatomical relationships	16.7	80.0	92.3	71.4
Function	16.7	86.7	92.3	66.7
Nerve supply	16.7	46.7	92.3	66.7
Blood supply	16.7	60.0	92.3	66.7
Lymphatic drainage	0.0	13.3	84.6	61.9
Ureters, Urinary Bladder, Urethra				
Location, structure, anatomical relationships	50.0	80.0	100.0	81.0
Function	50.0	80.0	100.0	76.2
Nerve supply	50.0	46.7	100.0	76.2
Blood supply	50.0	53.3	100.0	76.2
Lymphatic drainage	33.3	26.7	92.3	76.2
Nerves, Plexuses, Ganglia (Both Sexes)				
Nerves (Course, Branches, Composition)				
Sciatic	100.0	66.7	100.0	95.2
Gluteal (superior, inferior)	66.7	40.0	100.0	95.2
Femoral	100.0	60.0	100.0	95.2
Pudendal	100.0	40.0	100.0	95.2
Obturator	66.7	46.7	100.0	95.2
Lumbosacral trunk	100.0	40.0	100.0	95.2

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics; AFAB, assigned female at birth; AMAB, assigned male at birth

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 6 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Nerves (continued)				
Hypogastric nerves	66.7	26.7	100.0	95.2
Pelvic splanchnic	66.7	26.7	100.0	95.2
Sacral splanchnic	66.7	20.0	100.0	95.2
Sacral sympathetic chain	66.7	20.0	100.0	95.2
Plexuses				
Lumbar	83.3	28.6	100.0	90.5
Sacral and coccygeal	66.7	26.7	100.0	90.5
Ganglia				
Sacral sympathetic	83.3	26.7	100.0	95.2
Blood Vessels (Both Sexes)				
Arteries				
Abdominal aorta	83.3	85.7	84.6	76.2
Inferior mesenteric	66.7	66.7	84.6	71.4
Superior rectal	60.0	50.0	84.6	71.4
Common iliac	60.0	80.0	92.3	85.7
Internal iliac	66.7	66.7	92.3	85.7
Superior gluteal	66.7	53.3	92.3	85.7
Inferior gluteal	66.7	46.7	92.3	85.7
Middle rectal	66.7	46.7	92.3	85.7
Veins				
Left renal	66.7	73.3	84.6	71.4
Inferior vena cava	83.3	86.7	84.6	71.4
Internal iliac	83.3	53.3	84.6	81.0
Common iliac vein and tributaries	83.3	60.0	84.6	81.0
Internal pudendal vein and tributaries	66.7	46.7	84.6	76.2
Lymphatics (Both Sexes)				
Major groups of lymph nodes	0.0	7.7	60.0	66.7
Surface Anatomy (Both Sexes)				
Sacral hiatus	50.0	53.3	100.0	95.2
Sacro-iliac joints	83.3	80.0	100.0	95.2
Iliac crest	83.3	100.0	100.0	95.2
Anterior superior iliac spine	83.3	93.3	100.0	95.2
Coccyx	66.7	85.7	100.0	95.2
L4 vertebra	83.3	100.0	100.0	95.2
Superficial inguinal ring	50.0	73.3	100.0	95.2
Sigmoid colon	50.0	93.3	100.0	95.2
Anus	50.0	93.3	100.0	90.5
Ureters, bladder, urethra	50.0	86.7	100.0	90.5
Peritoneum (pelvic)	50.0	73.3	100.0	90.5
Urogenital diaphragm	50.0	60.0	100.0	85.7
Ischio-anal fossa	50.0	60.0	100.0	85.7
Palpable lymph nodes	33.3	33.3	100.0	85.7

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics; AFAB, assigned female at birth; AMAB, assigned male at birth

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 6 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Female Reproductive Structures (AFAB)				
Vagina (including Vestibule and Glands)				
Location, structure, anatomical relationships	33.3	100.0	100.0	76.2
Function	33.3	93.3	100.0	71.4
Nerve supply	33.3	66.7	100.0	71.4
Blood supply	33.3	66.7	100.0	71.4
Lymphatic drainage	16.7	26.7	100.0	71.4
Labia (Minora, Majora) and Perineal Body				
Location, structure, anatomical relationships	16.7	86.7	100.0	61.9
Function	16.7	86.7	100.0	61.9
Nerve supply	16.7	46.7	100.0	61.9
Blood supply	16.7	46.7	100.0	61.9
Lymphatic drainage	0.0	13.3	100.0	61.9
Uterus				
Location, structure, anatomical relationships	66.7	100.0	100.0	66.7
Function	50.0	100.0	100.0	66.7
Ligaments of the uterus (incl. round ligaments)	50.0	60.0	100.0	66.7
Nerve supply	66.7	53.3	100.0	66.7
Blood supply	50.0	53.3	100.0	66.7
Lymphatic drainage	33.3	20.0	100.0	66.7
Uterine (Fallopian) Tubes				
Location, structure, anatomical relationships	33.3	100.0	100.0	61.9
Function	33.3	100.0	100.0	61.9
Nerve supply	33.3	40.0	100.0	61.9
Blood supply	50.0	53.8	100.0	55.6
Lymphatic drainage	0.0	20.0	100.0	57.1
Ovaries				
Location, structure, anatomical relationships	33.3	100.0	100.0	57.1
Function	33.3	100.0	100.0	57.1
Nerve supply	33.3	40.0	100.0	57.1
Blood supply	33.3	53.3	100.0	57.1
Lymphatic drainage	16.7	26.7	100.0	57.1
Blood Vessels (AFAB)				
Arteries				
Uterine	66.7	60.0	92.3	85.7
Ovarian	66.7	60.0	92.3	85.7
Surface Anatomy (AFAB)				
Female				
Uterine (Fallopian) tube	50.0	100.0	100.0	76.2
Uterus	50.0	100.0	100.0	76.2
Vagina	50.0	100.0	100.0	76.2
Labia minora and majora, perineal body	50.0	86.7	100.0	76.2
Clitoris	50.0	53.3	100.0	76.2

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics; AFAB, assigned female at birth; AMAB, assigned male at birth

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 6 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Male Reproductive Structures (AMAB)				
Prostate				
Location, structure, anatomical relationships	33.3	73.3	30.8	66.7
Function	33.3	73.3	30.8	66.7
Nerve supply	33.3	33.3	30.8	66.7
Blood supply	33.3	33.3	30.8	61.9
Lymphatic drainage	0.0	16.7	50.0	100.0
Seminal Gland				
Location, structure, anatomical relationships	33.3	26.7	30.8	61.9
Function	33.3	26.7	30.8	61.9
Nerve supply	33.3	13.3	30.8	61.9
Blood supply	33.3	13.3	30.8	61.9
Lymphatic drainage	16.7	6.7	30.8	61.9
Spermatic Cord, Vas Deferens				
Location, structure, anatomical relationships	33.3	53.3	30.8	66.7
Nerve supply	33.3	40.0	30.8	66.7
Blood supply	33.3	26.7	30.8	66.7
Lymphatic drainage	16.7	6.7	30.8	66.7
Scrotum, Testis, Epididymis				
Location, structure, anatomical relationships	33.3	100.0	30.8	61.9
Function	33.3	86.7	30.8	61.9
Nerve supply	33.3	60.0	30.8	61.9
Blood supply	33.3	80.0	30.8	61.9
Lymphatic drainage	16.7	26.7	30.8	61.9
Penis				
Location, structure, anatomical relationships	33.3	93.3	46.2	66.7
Function	33.3	93.3	46.2	66.7
Nerve supply	33.3	46.7	46.2	66.7
Blood supply	33.3	73.3	46.2	66.7
Lymphatic drainage	16.7	26.7	46.2	66.7
Male Blood Vessels (AMAB)				
Arteries				
Testicular	66.7	71.4	76.9	71.4
Veins				
Left testicular (pampiniform venous plexus)	66.7	53.3	76.9	71.4
Right testicular (pampiniform venous plexus)	66.7	53.3	76.9	71.4
Prostatic venous plexus	66.7	40.0	76.9	76.2
Male Surface Anatomy (AMAB)				
Prostate	50.0	93.3	38.5	76.2
Seminal gland	50.0	53.3	38.5	76.2
Spermatic cord, ductus (vas) deferens	50.0	64.3	38.5	76.2
Scrotum, testis, epididymis	50.0	100.0	38.5	76.2
Penis	50.0	93.3	38.5	76.2

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics; AFAB, assigned female at birth; AMAB, assigned male at birth

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 7. Classifications of importance for the anatomical structures of the head and neck. Each cell indicates the percentage of 3 and 4 ratings (3+4%) and is color-coded for the level of classification, as indicated in the key.

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
ANATOMICAL STRUCTURES & ORGANS				
Skull (including Cranial Foraminae and Fossae)				
Location, structure, relationships	66.7	93.3	50.0	76.2
Nerve supply	66.7	53.3	50.0	76.2
Blood supply	66.7	66.7	50.0	76.2
Lymphatic drainage	50.0	6.7	50.0	71.4
Cervical Spine				
Location, structure, relationships	100.0	93.3	41.7	95.2
Nerve supply	100.0	66.7	41.7	95.2
Blood supply	83.3	66.7	41.7	95.2
Lymphatic drainage	66.7	13.3	41.7	90.5
Cranial & Cervical Meninges (including Dural Infoldings and Spaces)				
Location, structure, relationships	100.0	80.0	58.3	85.7
Scalp and Face				
Location, structure, relationships	100.0	86.7	50.0	71.4
Nerve supply	100.0	73.3	41.7	71.4
Blood supply	83.3	60.0	41.7	71.4
Lymphatic drainage	66.7	13.3	41.7	66.7
Muscles of Facial Expression				
Location, structure, relationships	66.7	80.0	50.0	71.4
Function	66.7	80.0	50.0	71.4
Nerve supply	66.7	86.7	50.0	71.4
Blood supply	66.7	60.0	50.0	71.4
Lymphatic drainage	33.3	20.0	50.0	71.4
Ear, Ossicles, Pharyngotympanic Tube				
Location, structure, relationships	66.7	93.3	41.7	57.1
Function	66.7	93.3	41.7	57.1
Nerve supply	66.7	60.0	41.7	57.1
Blood supply	66.7	46.7	41.7	57.1
Lymphatic drainage	33.3	6.7	41.7	57.1
Eye, Eyelids, Conjunctiva, Lacrimal Gland				
Location, structure, relationships	66.7	86.7	41.7	57.1
Function	66.7	86.7	41.7	57.1
Nerve supply	66.7	60.0	33.3	57.1
Blood supply	66.7	46.7	33.3	57.1
Lymphatic drainage	33.3	13.3	33.3	57.1
Extra-Ocular Muscles				
Location, structure, relationships	66.7	93.3	41.7	66.7
Function	66.7	100.0	41.7	66.7
Nerve supply	66.7	100.0	41.7	66.7
Blood supply	66.7	100.0	41.7	66.7
Lymphatic drainage	66.7	46.7	41.7	66.7
Intrinsic Eye Muscles (Ciliary Muscle, Constrictor Pupillae, Sphincter Pupillae)				
Location, structure, relationships	50.0	80.0	33.3	66.7
Function	66.7	80.0	33.3	61.9
Nerve supply	66.7	80.0	33.3	61.9
Blood supply	50.0	46.7	33.3	61.9

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 7 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Nasal Cavity and Paranasal Sinuses				
Location, structure, relationships	66.7	93.3	33.3	61.9
Nerve supply	66.7	33.3	33.3	66.7
Blood supply	66.7	60.0	25.0	66.7
Lymphatic drainage	33.3	6.7	25.0	66.7
Oral Cavity and Tongue				
Location, structure, relationships	100.0	93.3	33.3	61.9
Function	100.0	100.0	33.3	61.9
Nerve supply	100.0	80.0	33.3	61.9
Blood supply	83.3	60.0	25.0	61.9
Lymphatic drainage	60.0	26.7	25.0	61.9
Salivary Glands				
Location, structure, relationships	50.0	86.7	33.3	57.1
Nerve supply	50.0	40.0	33.3	57.1
Blood supply	50.0	33.3	25.0	57.1
Lymphatic drainage	33.3	20.0	25.0	57.1
Tonsils				
Location, structure, relationships	83.3	80.0	33.3	57.1
Nerve supply	100.0	40.0	33.3	57.1
Blood supply	83.3	40.0	25.0	57.1
Lymphatic drainage	66.7	13.3	25.0	57.1
Soft Palate				
Location, structure, relationships	83.3	80.0	33.3	57.1
Function	83.3	80.0	33.3	57.1
Nerve supply	100.0	35.7	33.3	57.1
Blood supply	83.3	26.7	25.0	57.1
Lymphatic drainage	50.0	6.7	25.0	57.1
Pharynx				
Location, structure, relationships	100.0	100.0	41.7	61.9
Function	83.3	93.3	41.7	57.1
Nerve supply	100.0	46.7	33.3	57.1
Blood supply	83.3	46.7	25.0	57.1
Lymphatic drainage	50.0	20.0	25.0	57.1
Esophagus (Cervical)				
Location, structure, relationships	66.7	100.0	50.0	81.0
Function	66.7	100.0	50.0	76.2
Nerve supply	66.7	53.3	25.0	76.2
Blood supply	66.7	66.7	25.0	76.2
Lymphatic drainage	33.3	20.0	25.0	76.2
Epiglottis, Larynx, Trachea				
Location, structure, relationships	100.0	100.0	41.7	71.4
Function	100.0	100.0	41.7	71.4
Nerve supply	100.0	60.0	25.0	71.4
Blood supply	83.3	46.7	25.0	71.4
Lymphatic drainage	50.0	20.0	25.0	76.2
Laryngeal Cartilages and Vocal Cords				
Location, structure, relationships	100.0	100.0	30.8	81.0
Function	100.0	100.0	23.1	81.0
Nerve supply	100.0	64.3	23.1	76.2
Blood supply	100.0	42.9	23.1	71.4

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 7 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Thyroid and Parathyroid Glands				
Location, structure, relationships	83.3	100.0	61.5	66.7
Blood supply	83.3	50.0	61.5	66.7
Lymphatic drainage	50.0	21.4	61.5	66.7
Carotid Sheath and Contents				
Location, structure, relationships	100.0	92.9	30.8	76.2
Nerve supply	100.0	71.4	23.1	76.2
Blood supply	100.0	71.4	23.1	76.2
Fascial Spaces of Neck				
Location, structure, relationships	83.3	57.1	16.7	76.2
Nerves, Plexuses, Ganglia				
Nerves (Course, Branches, Composition)				
Cranial Nerves				
Olfactory nerve (CN I) and bulb	83.3	100.0	61.5	76.2
Optic (CN II)	83.3	92.9	61.5	76.2
Oculomotor (CN III)	83.3	100.0	61.5	76.2
Trochlear (CN IV)	83.3	100.0	61.5	76.2
Facial (CN VII)	83.3	100.0	61.5	76.2
Trigeminal nerve (CN V)	83.3	100.0	61.5	76.2
Ophthalmic (CN V1)	83.3	92.9	61.5	76.2
Maxillary (CN V2)	83.3	92.9	61.5	76.2
Mandibular (CN V3)	83.3	92.9	61.5	76.2
Abducens (CN VI)	83.3	100.0	61.5	76.2
Facial motor branches	83.3	100.0	61.5	76.2
Nerve to stapedius	66.7	85.7	61.5	76.2
Chorda tympani	66.7	78.6	61.5	76.2
Vestibulocochlear (CN VIII)	83.3	85.7	61.5	76.2
Glossopharyngeal (CN IX)	83.3	100.0	61.5	76.2
Vagus (CN X)	83.3	100.0	61.5	85.7
Superior laryngeal	83.3	100.0	61.5	85.7
Recurrent laryngeal	83.3	92.9	61.5	85.7
Accessory (CN XI)	83.3	92.9	61.5	85.7
Hypoglossal (CN XII)	83.3	100.0	61.5	85.7
Cervical Nerves				
Cervical nerves of brachial plexus	100.0	78.6	61.5	90.5
Nerves of cervical plexus	100.0	71.4	53.8	90.5
Cervical sympathetic chain	100.0	71.4	53.8	85.7
Plexuses				
Cervical	100.0	35.7	25.0	85.7
Ganglia				
Sensory ganglia				
Trigeminal	83.3	33.3	25.0	81.0
Geniculate	83.3	33.3	25.0	81.0
Parasympathetic ganglia				
Submandibular	66.7	20.0	25.0	81.0
Pterygopalatine	66.7	20.0	25.0	81.0
Ciliary	66.7	26.7	25.0	81.0
Sympathetic ganglia				
Superior cervical	100.0	26.7	25.0	81.0
Inferior cervical (cervicothoracic; stellate)	100.0	20.0	25.0	81.0

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 7 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Blood Vessels				
Arteries				
Common carotid	100.0	100.0	33.3	81.0
Internal carotid (ICA)	100.0	100.0	33.3	76.2
ICA – Petrous part	100.0	46.7	33.3	76.2
ICA – Cavernous part	83.3	53.3	33.3	76.2
ICA – Intracranial (cranial) part	83.3	66.7	33.3	76.2
Ophthalmic	66.7	73.3	33.3	76.2
Anterior and middle cerebral	66.7	85.7	33.3	76.2
External carotid artery	80.0	86.7	33.3	81.0
Superior thyroid	83.3	53.3	33.3	81.0
Ascending pharyngeal	83.3	53.3	33.3	81.0
Lingual	66.7	60.0	33.3	81.0
Facial	66.7	60.0	33.3	81.0
Occipital	66.7	60.0	33.3	81.0
Posterior auricular	66.7	46.7	33.3	81.0
Maxillary artery	66.7	53.3	33.3	81.0
Middle meningeal	66.7	66.7	33.3	81.0
Superficial temporal	66.7	73.3	33.3	81.0
Carotid body and sinus	80.0	86.7	41.7	85.7
Subclavian artery	80.0	86.7	33.3	85.7
Vertebral	83.3	86.7	33.3	90.5
Spinal branches	83.3	73.3	33.3	90.5
Posterior inferior cerebellar	66.7	80.0	33.3	90.5
Basilar artery	66.7	80.0	33.3	90.5
Anterior inferior cerebellar	66.7	80.0	33.3	90.5
Posterior cerebral	66.7	80.0	33.3	90.5
Internal thoracic (mammary)	60.0	73.3	33.3	90.5
Thyrocervical trunk	60.0	53.3	33.3	90.5
Inferior thyroid	66.7	53.3	33.3	90.5
Dorsal scapular	66.7	46.7	33.3	90.5
Veins				
Subclavian vein and tributaries	100.0	86.7	41.7	90.5
Internal jugular	100.0	93.3	41.7	90.5
External jugular	100.0	86.7	41.7	90.5
Dural venous sinuses	66.7	66.7	33.3	81.0
Diploic	50.0	40.0	33.3	76.2
Emissary	50.0	26.7	33.3	76.2
Lymphatics				
Major groups of lymph nodes	50.0	21.4	27.3	66.7
Cervical (superficial, deep, supraclavicular, retropharyngeal)	50.0	40.0	33.3	66.7
Cranial (occipital, mastoid, parotid, facial, lingual, submental, submandibular)	50.0	26.7	25.0	66.7

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics

Essential Anatomy: Anesthesiology, Emergency Medicine, and Obstetrics and Gynecology Residents

Table 7 (continued)

Anatomical Structures	AN	EM	OB	OR
KEY: 3+4% Essential: ≥75.0% More Important: 50.0-74.9% Less Important: 25.0-49.9% Not Important: <25.0%				
Surface Anatomy				
Scalp and face	83.3	93.3	50.0	76.2
Skull and major bones	83.3	100.0	50.0	76.2
Temporal bone	66.7	93.3	50.0	76.2
Occipital groove	66.7	80.0	50.0	76.2
Mastoid process	66.7	86.7	50.0	76.2
Temporomandibular joint	83.3	93.3	50.0	81.0
Hyoid bone	66.7	73.3	50.0	81.0
Clavicle	83.3	93.3	50.0	90.5
Vertebra prominens (C7 spinous process)	83.3	86.7	50.0	90.5
Thyroid and cricoid cartilages	83.3	100.0	50.0	90.0
Trachea	100.0	100.0	50.0	90.0
Thyrohyoid membrane	66.7	80.0	50.0	76.2
Cricothyroid & cricotracheal ligaments	66.7	73.3	50.0	76.2
Thyroid gland	83.3	93.3	66.7	76.2
Salivary glands (parotid, submandibular)	66.7	86.7	50.0	76.2
Fascial spaces of neck	66.7	66.7	50.0	76.2
Carotid bifurcation	83.3	86.7	50.0	76.2
External jugular vein	100.0	93.3	50.0	81.0
Internal jugular vein	100.0	93.3	50.0	81.0
Scalene muscles	100.0	100.0	50.0	85.7
Sternocleidomastoid muscle	100.0	60.0	50.0	85.7
Palpable lymph nodes	66.7	53.3	50.0	76.2

Abbreviations: AN, anesthesiology; EM, emergency medicine; OB, obstetrics and gynecology; OR, orthopedics