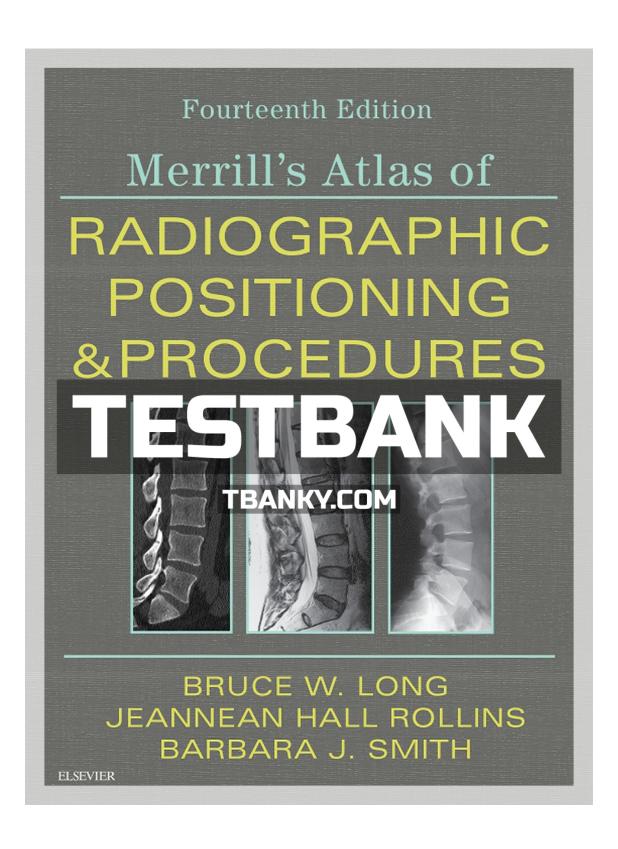
TEST BANK FOR MERRILL'S ATLAS OF RADIOGRAPHIC POSITIONING AND PROCEDURES 14TH EDITION LONG ISBN 9780323567688



Chapter 02: General Anatomy and Radiographic Positioning Terminology Long: Merrill's Atlas of Radiographic Positioning and Procedures, 14th Edition

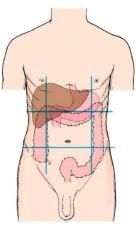
MULTIPLE CHOICE

1.	In the "anatomic position," the palms of the hands are facing: a. backward. b. forward. c. up. d. down. ANS: B
2.	A plane passing through the body parallel with the midsagittal plane is termed: a. coronal. b. sagittal. c. axial. d. oblique. ANS: B
3.	A plane passing vertically through the body from side to side is termed: a. oblique. b. sagittal. c. coronal. d. horizontal. ANS: C
4.	Any plane passing through the body at right angles to its longitudinal axis is termed: a. coronal. b. oblique. c. sagittal. d. horizontal. ANS: D
5.	All of the following are located in the thoracic cavity <i>except</i> : a. trachea. b. spleen. c. lungs. d. esophagus. ANS: B
6.	All of the following are located in the abdominal cavity <i>except</i> : a. kidneys. b. stomach. c. rectum. d. pancreas. ANS: C

- 7. Into how many regions is the abdomen divided?
 - a. Two
 - b. Four
 - c. Six
 - d. Nine

ANS: D

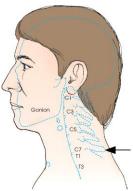
8. The lower, center region on this figure is termed the:



- a. epigastrium.
- b. lumbar.
- c. inguinal.
- d. hypogastrium.

ANS: D

9. The external landmark indicated by the arrow in this figure is the:



- a. mastoid tip.
- b. vertebra prominens.
- c. gonion.
- d. transverse process.

ANS: B

- 10. T9 and T10 are located at the level of the:
 - a. sternal angle.
 - b. xiphoid process.

- c. jugular notch.
- d. vertebra prominens.

ANS: B

- 11. L4 and L5 are located at the level of the:
 - a. costal margin.
 - b. superior iliac spine.
 - c. umbilicus.
 - d. superior aspect of the iliac crests.

ANS: D

- 12. S1 and S2 are located at the level of the:
 - a. costal margin.
 - b. umbilicus.
 - c. superior aspect of the iliac crests.
 - d. anterior superior iliac spines (ASISs).

ANS: D

- 13. All of the following are types of body habitus, *except*:
 - a. atrophic.
 - b. sthenic.
 - c. asthenic.
 - d. hypersthenic.

ANS: A

- 14. Approximately what percentage of the population has a sthenic body habitus?
 - a. 5%
 - b. 10%
 - c. 35%
 - d. 50%

ANS: D

15. Which body habitus is shown in this figure?



- a. Hypersthenic
- b. Hyposthenic
- c. Asthenic
- d. Atrophic

ANS: A

16.	The least-occurring body habitus is the:
	a. hyposthenic.
	b. hypersthenic.c. asthenic.
	d. atrophic.
	ANS: B
17.	The adult skeleton is composed of how many bones?
	a. 185
	b. 200
	c. 206
	d. 208
	ANS: C
18.	Bones are composed of an outer layer of compact bony tissue called the:
	a. compact bone.
	b. periosteum.
	c. spongy tissue.
	d. medullary canal.
	ANS: A
19.	Long bones have a central cylindrical cavity called the:
	a. meniscus.
	b. periosteum.
	c. medullary cavity.
	d. spongy tissue.
	ANS: C
20.	How many specific types of synovial joints are there?
	a. Three
	b. Four
	c. Five
	d. Six
	ANS: D
21.	Some synovial joints contain synovial fluid–filled sacs outside the main joint cavity called:
	a. bursae.
	b. menisci.
	c. ligaments.
	d. fibrous capsules.
	ANS: A
22.	How many saddle joints are there in the body?
	a. One
	b. Two
	c. Three
	d. Four

ANS: A

- 23. Some synovial joints contain a thick cushioning pad of fibrocartilage called the:
 - a. bursae.
 - b. meniscus.
 - c. cartilage.
 - d. fibrous capsule.

ANS: B

- 24. Which specific type of joint allows multiaxial movement?
 - a. Pivot
 - b. Gliding
 - c. Ellipsoid
 - d. Ball and socket

ANS: D

- 25. After birth, a separate bone begins to develop at the *ends* of long bones. Each end is called the:
 - a. diaphysis.
 - b. epiphysis.
 - c. epiphyseal line.
 - d. epiphyseal plate.

ANS: B

- 26. A rounded process at an articular extremity is called a:
 - a. condyle.
 - b. malleolus.
 - c. tubercle.
 - d. styloid.

ANS: A

- 27. A hole in a bone for transmission of blood vessels and nerves is called a:
 - a. groove.
 - b. foramen.
 - c. fissure.
 - d. facet.

ANS: B

- 28. A small, smooth-surfaced process for articulation of bones is called a:
 - a. condyle.
 - b. coronoid.
 - c. facet.
 - d. tuberosity.

ANS: C

29. A term that means the same as *anterior* is:

	a. plantar.b. distal.c. dorsal.d. ventral. ANS: D
30.	The term that may also be used to refer to the posterior surface of the body is: a. dorsal. b. ventral. c. volar. d. plantar. ANS: A
31.	The term that refers to parts away from the head of the body, or angling the central ray toward the feet is: a. caudad. b. cephalad. c. medial. d. proximal. ANS: A
32.	The term that refers to parts nearer the point of attachment, or origin, is: a. distal. b. proximal. c. caudad. d. cephalad. ANS: B
33.	The term used to describe the sole of the foot is: a. ventral. b. posterior. c. plantar. d. dorsal.
34.	ANS: C A large, rounded, elevated process on a bone is called a(n): a. malleolus. b. epicondyle. c. tubercle. d. tuberosity.
35.	ANS: D All of the following terms are used to describe "body positions," except: a. upright. b. axial. c. prone. d. LPO.

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- 36. Which of the following is an x-ray "projection"?
 - a. RPO
 - b. LAO
 - c. Dorsoplantar
 - d. Recumbent

ANS: C

- 37. Which of the following is an x-ray "position"?
 - a. Mediolateral
 - b. Craniocaudal
 - c. Orbitoparietal
 - d. Trendelenburg

ANS: D

- 38. Which of the following is an x-ray "projection"?
 - a. Tangential
 - b. Lordotic
 - c. Right anterior oblique (RAO)
 - d. Right lateral decubitus

ANS: A

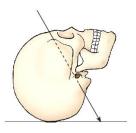
- 39. The path of the central ray stated as it exits the x-ray tube, travels through the patient and strikes the IR defines:
 - a. radiography.
 - b. decubitus.
 - c. position.
 - d. projection.

ANS: D

- 40. If the central ray enters the anterior body surface and exits the posterior body surface, the x-ray projection is termed:
 - a. PA.
 - b. AP.
 - c. lateral.
 - d. axiolateral.

ANS: B

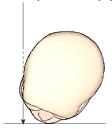
41. The x-ray projection identified in this figure is:



- a. AP.
- b. PA.
- c. AP axial.
- d. AP oblique.

ANS: C

42. Identify the x-ray projection illustrated in this figure.



- a. Tangential
- b. PA axial oblique.
- c. Orbitoparietal
- d. Parietoorbital

ANS: A

- 43. When there is longitudinal angulation of the central ray with the long axis of the body, the projection will always use the term:
 - a. oblique.
 - b. axial.
 - c. lateral.
 - d. decubitus.

ANS: B

- 44. Which of the following terms are used both as an x-ray projection and a body position?
 - 1. Axial
 - 2. Oblique
 - 3. Lateral
 - a. 1 and 2
 - b. 1 and 3
 - c. 2 and 3
 - d. 1, 2, and 3

ANS: C

45. The term used to describe the act of placing the patient appropriately for a radiographic examination is:

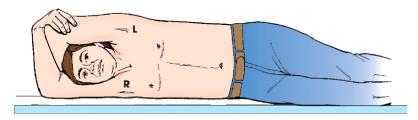
- a. supine.
- b. recumbent.
- c. projection.
- d. position.

ANS: D

- 46. Which of the following terms is used to describe a patient placed "lying on the back"?
 - a. Supine
 - b. Prone
 - c. Lateral
 - d. Recumbent

ANS: A

47. What is the patient position illustrated in this figure?



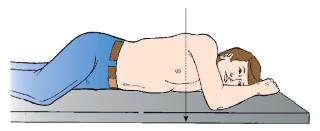
- a. Dorsal recumbent
- b. Right lateral recumbent
- c. Left lateral decubitus
- d. Trendelenburg

ANS: B

- 48. Oblique positions are always named according to the side of the patient that is:
 - a. closest to the x-ray tube.
 - b. the source of pathology.
 - c. closest to the IR.
 - d. farthest from the IR.

ANS: C

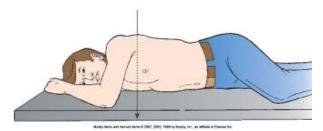
49. The patient in this figure is placed in which position?



- a. RPO
- b. LPO
- c. RAO
- d. LAO

ANS: D

50. The body position depicted below results in which x-ray projection?



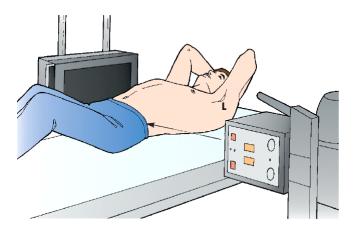
- a. PA oblique
- b. AP oblique
- c. Recumbent
- d. Mediolateral

ANS: A

- 51. Which of the following positioning terms indicates that the patient is lying down and the central ray is horizontal?
 - a. Lateral
 - b. Decubitus
 - c. Recumbent
 - d. Mediolateral

ANS: B

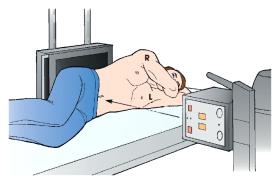
52. The patient in this figure is placed in which of the following positions?



- a. Left lateral decubitus
- b. Right lateral decubitus
- c. Dorsal decubitus
- d. Ventral decubitus

ANS: C

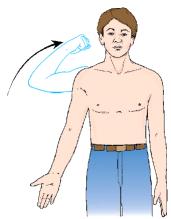
53. The x-ray projection shown in this figure is:



- a. AP.
- b. PA.
- c. right lateral.
- d. right lateral decubitus.

ANS: A

54. The movement shown in this figure is:



- a. adduction.
- b. abduction.
- c. extension.
- d. flexion.

ANS: D

- 55. Movement of a part away from the central axis of the body or body part is termed:
 - a. adduction.
 - b. abduction.
 - c. extension.
 - d. flexion.

ANS: B

- 56. Forced or excessive extension of a limb or part is termed:
 - a. eversion.
 - b. inversion.
 - c. hyperextension.
 - d. hyperflexion.

ANS: C

- 57. Rotation of the arm toward the midline of the body from the anatomic position is termed:
 - a. pronation.
 - b. supination.
 - c. lateral rotation.
 - d. medial rotation.

ANS: D

- 58. If the foot is turned inward at the ankle joint, the body movement is termed:
 - a. inversion.
 - b. eversion.
 - c. flexion.
 - d. extension.

ANS: A

- 59. Movement of a part toward the central axis of the body is termed:
 - a. abduction.
 - b. adduction.
 - c. medial rotation.
 - d. lateral rotation.

ANS: B

- 60. Turning the forearm so that the palm of the hand is up is termed:
 - a. pronation.
 - b. supination.
 - c. abduction.
 - d. adduction.

ANS: B

- 61. A club-shaped process on a bone is called a:
 - a. coronoid.
 - b. trochanter.
 - c. tuberosity.
 - d. malleolus.

ANS: D

- 62. The term that refers to a part on the opposite side of the body is
 - a. distal.
 - b. proximal.
 - c. ipsilateral.
 - d. contralateral.

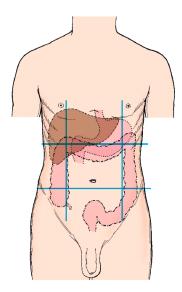
ANS: D

- 63. Which of the following terms is plural?
 - a. Calculi

- CLICK HERE TO ACCESS THE FULL TEST BANK b. Labium c. Vertebra d. Bronchus ANS: A 64. Study of the bones of the body is known as: a. physiology. b. radiology. c. osteology. d. orthopedics. ANS: C 65. Which of the following planes divides the body into superior or inferior portions? a. Horizontal b. Oblique c. Midsagittal d. Midcoronal ANS: A 66. Which plane specifically divides the body into equal right and left halves? a. Axial b. Transverse c. Midcoronal d. Midsagittal ANS: D 67. The plane that divides the body into equal posterior and anterior halves is termed: a. horizontal. b. longitudinal. c. midcoronal. d. midsagittal.

ANS: C

68. The upper, center region on this illustration is termed the:



- a. umbilical.
- b. epigastrium.
- c. hypogastrium.
- d. hypochondrium.

ANS: B

- 69. The vertebra prominens is located at the level of the:
 - a. L2-L3.
 - b. L4-L5.
 - c. C3-C4.
 - d. C7-T1.

ANS: D

- 70. The jugular notch is located at the level of:
 - a. T2-T3.
 - b. T4-T5.
 - c. L2-L3.
 - d. L4-L5.

ANS: A

- 71. For which type of body habitus will the lungs be very short and wide?
 - a. Sthenic
 - b. Asthenic
 - c. Hypersthenic
 - d. Hyposthenic

ANS: C

- 72. For which type of body habitus will the stomach be the lowest?
 - a. Sthenic
 - b. Asthenic
 - c. Hypersthenic
 - d. Hyposthenic

ANS: B

- 73. For which type of body habitus will the diaphragm be very high?
 - a. Sthenic
 - b. Asthenic
 - c. Hyposthenic
 - d. Hypersthenic

ANS: D

- 74. The longest lungs will be found in which type of body habitus?
 - a. Sthenic
 - b. Asthenic
 - c. Hyposthenic
 - d. Hypersthenic

ANS: B

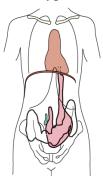
- 75. The lungs will be a moderate length in which body habitus?
 - a. Sthenic
 - b. Asthenic
 - c. Hyposthenic
 - d. Hypersthenic

ANS: A

- 76. The stomach is positioned the highest in which type of body habitus?
 - a. Sthenic
 - b. Asthenic
 - c. Hyposthenic
 - d. Hypersthenic

ANS: D

77. Which type of body habitus is shown in this illustration?



- a. Sthenic
- b. Asthenic
- c. Hyposthenic
- d. Hypersthenic

ANS: B

78.	The appendicular skeleton allows the body to move in various positions. How many bones does it contain? a. 14 b. 80 c. 126 d. 206 ANS: C
79.	Bones provide which of the following? 1. Protection of internal organs 2. Production of red and white blood cells 3. Attachment for the skin and fat layers a. 1 and 2 b. 1 and 3 c. 2 and 3 d. 1, 2, and 3 ANS: A
80.	The red marrow within bones produces cells. 1. adipose 2. red blood 3. white blood a. 1 and 2 b. 1 and 3 c. 2 and 3 d. 1, 2, and 3 ANS: C
81.	What is the name of the tough, fibrous tissue that covers all bony surfaces? a. Endosteum b. Periosteum c. Compact bone d. Spongy bone ANS: B
82.	The tissue lining the medullary cavity of bones is called the: a. endosteum. b. periosteum. c. trabeculae. d. compact bone. ANS: A
83.	The part of the bone where muscles, tendons, or ligaments are attached is called: a. a foramina.b. the meatus.

c. the fossa.

d. a tuberosity.

ANS: D

- 84. Near the center of all long bones is a specific opening in the periosteum called the:
 - a. foramen.
 - b. nutrient foramen.
 - c. medullary cavity.
 - d. epiphyseal plate.

ANS: B

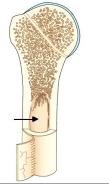
85. The area of the bone indicated by the line on this figure is the:



- a. periosteum.
- b. endosteum.
- c. compact bone.
- d. epiphyseal line.

ANS: D

86. The area of the bone indicated by the arrow on this figure is the:



- a. spongy bone.
- b. compact bone.
- c. medullary cavity.
- d. medullary cavity.

ANS: C

- 87. The piece of cartilage that separates the end of a developing long bone from the central shaft is called the:
 - a. diaphysis.

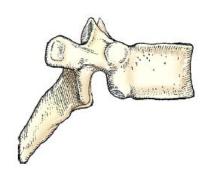
- b. epiphysis.
- c. epiphyseal line.
- d. epiphyseal plate.

ANS: D

- 88. Near the age of 21, full ossification occurs between the ends and the central shaft of long bones. The moderately visible area where the bones join is called the:
 - a. epiphyseal line.
 - b. epiphyseal plate.
 - c. primary center of ossification.
 - d. secondary center of ossification.

ANS: A

89. What is the classification of the bone shown in this illustration?



- a. Long
- b. Short
- c. Irregular
- d. Sesamoid

ANS: C

- 90. The study of joints or articulations is known as:
 - a. arthrology.
 - b. osteology.
 - c. radiology.
 - d. radiography.

ANS: A

- 91. How many specific types of joints are contained within the structural classification of joints?
 - a. (3
 - b. 4
 - c. 6
 - d. 11

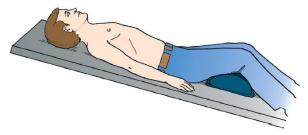
ANS: D

- 92. The syndesmosis, suture, and gomphosis joints belong to which structural joint group?
 - a. Hinge joints
 - b. Fibrous joints
 - c. Synovial joints

	d. Cartilaginous joints
	ANS: B
93.	 Which structural joint group contains joints that are all freely movable? a. Hinge joints b. Fibrous joints c. Synovial joints d. Cartilaginous joints
	ANS: C
94.	Which specific type of joint permits only flexion and extension? a. Hinge joints b. Gliding joints c. Pivot joints d. Saddle joints
	ANS: A
95.	The small, rounded, elevated process on a bone is called a(n): a. malleolus. b. tubercle. c. epicondyle. d. protuberance.
	ANS: B
96.	A tubelike passageway running within a bone is called a: a. fossa. b. groove. c. meatus. d. foramen. ANS: C
97.	Which of the following terms refers to the covering of an organ? a. External b. Internal c. Visceral d. Parietal
	ANS: C
98.	a. Ventralb. Dorsalc. Distald. Proximal
	ANS: B

99. Reference toward the head of the body is termed:

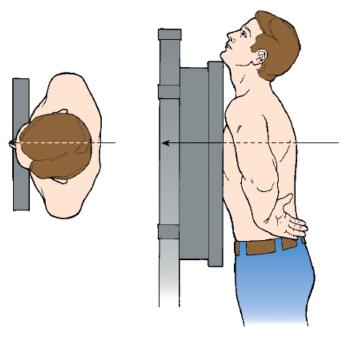
	a. external.b. proximal.c. caudad.d. cephalad. ANS: D
100.	from the center of the body is: a. distal. b. proximal. c. caudad. d. cephalad.
	ANS: A
101.	A serious fracture in which the broken bone or bones project through the skin is called a(n) fracture. a. open b. closed c. displaced d. nondisplaced
	ANS: A
102.	A serious fracture in which the bones are not in anatomic alignment is called: a. impacted. b. compression. c. displaced. d. nondisplaced.
	ANS: C
103.	When a fractured bone retains its normal alignment, it is called: a. greenstick. b. compound. c. displaced. d. nondisplaced.
	ANS: D
104.	When a fractured bone is shattered into many pieces, it is called: a. spiral. b. transverse. c. compression. d. comminuted. ANS: D
105.	
105.	The coaj position in and indudation io.



- a. prone.
- b. Fowler.
- c. Trendelenburg.
- d. anteroposterior.

ANS: B

106. The projection shown in this illustration is:



- a. AP.
- b. PA.
- c. AP axial.
- d. PA axial.

ANS: B

- 107. Movement or positioning of the hand toward the radius or ulna is termed:
 - a. abduction.
 - b. eversion.
 - c. supination.
 - d. deviation.

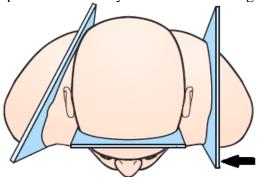
ANS: D

108. Tipping or slanting a body part slightly is termed:

- a. extension.
- b. eversion.
- c. tilting.
- d. oblique.

ANS: C

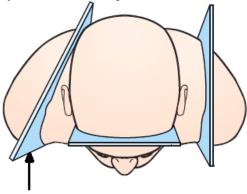
109. The plane indicated by the arrow in this figure is the:



- a. sagittal.
- b. coronal.
- c. oblique.
- d. horizontal.

ANS: A

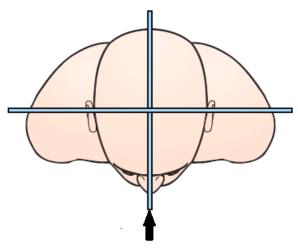
110. The plane indicated by the arrow in this figure is the:



- a. sagittal.
- b. coronal.
- c. oblique.
- d. horizontal.

ANS: C

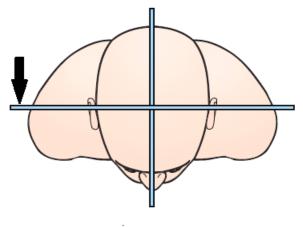
111. The body plane indicated by the arrow in this figure is the:



- a. midcoronal.
- b. midsagittal.
- c. horizontal.
- d. transverse.

ANS: B

112. The body plane indicated by the arrow in this figure is the:



- a. sagittal.
- b. coronal.
- c. midsagittal.
- d. midcoronal.

ANS: D

- 113. When the hand is turned toward the radial side, it is termed:
 - a. radial deviation.
 - b. ulnar deviation.
 - c. abduction.
 - d. adduction.

ANS: A

114. When the hand is turned toward the ulnar side, it is termed:

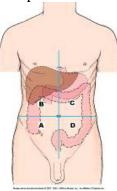
- a. adduction.
- b. abduction.
- c. ulnar deviation.
- d. radial deviation.

ANS: C

- 115. The largest sesamoid bone in the body is the:
 - a. atlas.
 - b. axis.
 - c. patella.
 - d. flabella.

ANS: C

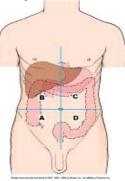
116. The portion of the abdominal cavity labeled as *D* in this figure is the _____ quadrant.



- a. right upper
- b. left upper
- c. right lower
- d. left lower

ANS: D

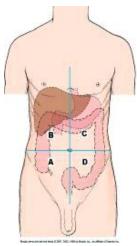
117. The portion of the abdominal cavity labeled as *B* in this figure is the _____ quadrant.



- a. right upper
- b. left upper
- c. right lower
- d. left lower

ANS: A

118. The portion of the abdominal cavity labeled as *C* in this figure is the _____ quadrant.



- a. right upper
- b. left upper
- c. right lower
- d. left lower

ANS: B

- 119. In which quadrant of the abdomen is the appendix usually located?
 - a. RUQ
 - b. RLQ
 - c. LUQ
 - d. LLQ

ANS: B

- 120. The vertebrae located at approximately the same level as the xiphoid process are:
 - a. C7-T1.
 - b. T1-T2.
 - c. T9-T10.
 - d. L2-L3.

ANS: C

- 121. Which structure can be palpated by an imaging professional palpate to locate the level of the pubic symphysis?
 - a. Coccyx
 - b. ASIS
 - c. Iliac crest
 - d. Greater trochanter

ANS: D

- 122. Which bone classification is defined as those that develop in or near tendons?
 - a. Sesamoid
 - b. Irregular
 - c. Short
 - d. Flat

ANS: A

MULTIPLE RESPONSE

- 1. Which two of the following lie in the pelvic cavity? (*Select all that apply.*)
 - a. Kidneys
 - b. Rectum
 - c. Urinary bladder
 - d. Pancreas

ANS: B, C

- 2. Which two terms are used to describe x-ray "projections"? (Select all that apply.)
 - a. AP
 - b. PA axial
 - c. Supine
 - d. RPO

ANS: A, B