Radiographic Positioning and Related Anatomy 8th Edition Bontrager Test Bank

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Chapter 02: Chest

Test Bank

MULTIPLE CHOICE

	1.	The two mo	ost common	landmarks	for	chest	positioning	are t	the
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- a. top of shoulders and xiphoid process.
- b. jugular notch and top of shoulders.
- c. lower margin of thyroid cartilage and vertebra prominens.
- d. jugular notch and vertebra prominens.

ANS: D REF: 70

- 2. The vertebra prominens corresponds to the level of:
 - a. C7
 - b. C5.
 - c. T2.
 - d. C4-5.

ANS: A REF: 70

- 3. The xiphoid process is a reliable positioning landmark for determining the lower margin of the lungs for chest positioning.
 - a. True
 - b. False

ANS: B REF: 70

- 4. The upper margin of the lungs is at the level of the:
 - a. jugular notch.
 - b. vertebra prominens.
 - c. laryngeal prominence.
 - d. sternal angle.

ANS: B REF: 70

- 5. What is the name of the structure that serves as a common passageway for both food and air?
 - a. Epiglottis
 - b. Larynx
 - c. Pharynx
 - d. Esophagus

ANS: C REF: 71

- 6. The jugular notch is located on the:
 - a. sternum.
 - b. thyroid cartilage.
 - c. seventh cervical vertebra.
 - d. scapula.

ANS: D REF: 70

7.	 What is the correct anatomic name for the Adam's apple? a. Sternum b. Epiglottis c. Cricoid cartilage d. Laryngeal prominence 				
	ANS: D	REF: 72			
8.	What is the name food or fluid? a. Uvula b. Epiglottis c. Hyoid bone d. Oropharynx	for the structure that serves as a lid over the larynx to prevent aspiration of			
	ANS: B	REF: 71			
9.	Which of the folloa. Larynxb. Esophagusc. Trachead. Hyoid bone	wing structures is considered to be most posterior?			
	ANS: B	REF: 71			
10.	The lower concave a. base. b. apex. c. hilum. d. costophrenic a	e area of the lung is termed the:			
	ANS: A	REF: 76			
11.	Which of the folloa. Epiglottis b. Hyoid bone c. Carina d. Vocal cords	wing structures is considered to be most inferior?			
	ANS: C	REF: 74			
12.	The internal promis termed the: a. carina. b. hilum. c. thyroid cartilagd. costophrenic a				
	ANS: A	REF: 74			
13.	The inner layer of a. parietal pleura b. pericardial sac				

- c. pulmonary pleura.
- d. pleural cavity.

ANS: C REF: 75

- 14. Air or gas that escapes into the pleural cavity results in a condition known as:
 - a. air bronchogram.
 - b. pneumothorax.
 - c. hemidiaphragm.
 - d. hemothorax.

ANS: B REF: 75

- 15. Which of the following structures is NOT considered as a mediastinal structure?
 - a. Thymus gland
 - b. Aorta
 - c. Trachea
 - d. Epiglottis

ANS: D REF: 77

- 16. The laryngeal prominence is a positioning landmark located at the level of:
 - a. T1.
 - b. C7.
 - c. C5.
 - d. C3.

ANS: C REF: 72

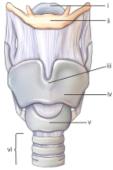
17. Part i refers to the:



- a. hyoid bone.
- b. larynx.
- c. laryngeal prominence.
- d. epiglottis.

ANS: D REF: 72

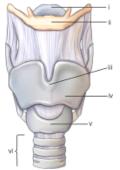
18. Part **ii** refers to the:



- hyoid bone. a.
- b. larynx.
- upper thyroid cartilage.
- upper border of trachea.

ANS: A REF: 72

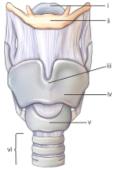
19. Part iii refers to the:



- thyroid cartilage.
- b. carina.
- c. laryngeal prominence.
- d. hyoid bone.

ANS: C REF: 72

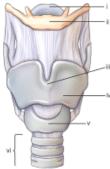
20. Part iv refers to the:



- laryngeal prominence.
- carina.
- c. thyroid cartilage.d. cricoid cartilage.

ANS: C REF: 72

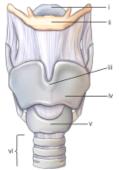
21. Part v refers to the:



- a. trachea.
- b. larynx.
- c. thyroid cartilage.
- d. cricoid cartilage.

ANS: D REF: 72

22. Part vi refers to the:



- a. trachea.
- b. larynx.
- c. thyroid cartilage.
- d. esophagus.

ANS: A REF: 72

- 23. The thyroid gland is located at the approximate level of:
 - a. C1-3.
 - b. the carina.
 - c. the epiglottis.
 - d. C5-7.

ANS: D REF: 72-73

- 24. The thymus gland is at its maximum size at:
 - a. age 40.
 - b. age 21.
 - c. puberty.
 - d. birth.

ANS: C REF: 77

- 25. The heart is located in the anterior chest at the level of:
 - a. T2-5.

	b. the thymus glanc. the arch of the ad. T5-8.	
	ANS: D	REF: 77
26.	The asthenic body to a. 35 b. 50 c. 5 d. 10	ype makes up approximately% of the population.
	ANS: D	REF: 78
27.	centered: a. to level of T4.	
	ANS: B	REF: 84
28.	should occur? a. The image rece b. The CR should	chest on an older or hypersthenic male patient, which of the following ptor generally should be placed lengthwise. be centered 3 inches (8 cm) below the jugular notch. be centered to the mammillary (nipple) line. ove should occur.
	ANS: B	REF: 84
29.	Which one of the forseries to be taken? a. Chronic asthmatb. Small pneumottc. Pneumoconiosid. Primary tubercu	norax S
	ANS: B	REF: 80 86
30.	Pleurisy may be dea. pleural effusion b. empyema. c. pneumothorax. d. silicosis.	monstrated radiographically by associated:
	ANS: A	REF: 86
31.	What is a common distress syndrome (a. Enlargement of b. Fluid in apices	

	c. Elevated diaphrd. Air bronchogran	
	ANS: D	REF: 87
32.	• •	habitus typically requires that the image receptor be placed crosswise ise for a posteroanterior (PA) chest?
	ANS: A	REF: 90
33.	a. exposure factors	s that radiographic grids must be used in chest radiography for: s using 80 kV or below. s using 100 kV or greater.
	ANS: B	REF: 79
34.	Geriatric patients go a. True b. False	enerally require higher central ray (CR) centering than younger patients.
	ANS: A	REF: 79
35.		tor placed approximately 3 inches (7.6 cm) above the shoulders is a ering technique for adult chest radiography.
	ANS: B	REF: 70
36.	inches (5 cm) above a. True b. False	nes indicate the upper border of the collimation field should be about 2 ethe vertebra prominens.
	ANS: B	REF: 90
37.	An electrocardiogra a. True b. False	phy and echocardiography are the same procedure.
	ANS: B	REF: 85
38.	a. The right lung cb. The left bronchc. The right bronch	statements is NOT true? contains three lobes. us is more horizontal than the right bronchus. hus is shorter than the left bronchus. vergence of the left bronchus is greater than that of the right

	ANS: B	REF: 74
39.	A well-inspired average above the diagra. 8 b. 7 c. 10 d. 12	erage adult chest PA projection will have a minimum of posterior ribs ohragm.
	ANS: C	REF: 78
40.	Which of the follow radiography? a. Necklace b. Bra c. T-shirt d. Glasses	ving objects does NOT have to be removed or moved before a chest
	ANS: D	REF: 79
41.	 a. 100 kV, 200 mz b. 120 kV, 800 mz c. 125 kV, 400 mz 	ving technical factors is ideal for adult chest radiography? A, 1/20 sec, 60-inch (153 cm) source image receptor distance (SID) A, 1/40 sec, 72-inch (183 cm) SID A, 1/40 sec, 40-inch (102 cm) SID A, 1/60 sec, 60-inch (153 cm) SID
	ANS: B	REF: 90
42.	adult. Which of thea. Use higher kV tb. Perform chest p	on the second inspiration rather than on first.
	ANS: C	REF: 80
43.	ribs owing to the di	ned lateral chest radiograph demonstrates some separation of the posterior vergent x-ray beam. But a separation of greater than cm indicates on from a true lateral.
	ANS: D	REF: 82
44.	PA?	v disadvantage of performing an AP projection of the chest rather than a exposure to the lungs e ribs

bronchus.

- c. AP projection requires more kV as compared with the PA projection
- d. Increased magnification of the heart

ANS: D REF: 80

- 45. Of the following factors, which one is most crucial to demonstrate possible air and fluid levels in the chest?
 - a. 72-inch (183 cm) SID
 - b. High-kV technique
 - c. Patient in erect or decubitus position
 - d. Using high mA and short exposure time

ANS: C REF: 80

- 46. A PA chest radiograph reveals that the pendulous breasts of the patient are obscuring the base of the lungs. What should be done to lessen the effects of the breast shadow?
 - a. Ask patient to lift breasts up and outward.
 - b. Use a higher kV (beyond 125) to penetrate tissue.
 - c. Have patient take a deeper inspiration before exposure.
 - d. Take an AP rather than PA projection.

ANS: A REF: 81

- 47. A PA chest radiograph reveals that the left sternoclavicular joint is closer to the spine than the right joint. What specific positioning error has been committed?
 - a. Left tilt
 - b. Rotation into the left anterior oblique (LAO) position
 - c. Right tilt
 - d. Rotation into the right anterior oblique (RAO) position

ANS: B REF: 81

- 48. Which of the following factors must be applied to minimize distortion of the heart?
 - a. 72-inch (183 cm) SID
 - b. High-kV technique
 - c. Performing study erect
 - d. Using high mA and short exposure time

ANS: A REF: 50

- 49. Of the following positioning actions, which one will remove the majority of the scapulae from the lung fields?
 - a. Roll shoulders forward.
 - b. Depress shoulders.
 - c. Elevate chin.
 - d. None of the above is correct.

ANS: A REF: 94

- 50. Scoliosis and kyphosis may produce asymmetry of the sternoclavicular joints and rib cage as demonstrated on a PA chest radiograph.
 - a. True
 - b. False

ANS: A REF: 90

- 51. For an average size female patient, where is the CR placed for a PA projection of the chest?
 - a. 7 inches (18 cm) below the vertebra prominens
 - b. 3 inches (7.6 cm) below the jugular notch
 - c. 8 inches (20 cm) below the vertebra prominens
 - d. 2 inches (5 cm) above the shoulders

ANS: A REF: 83

- 52. A condition characterized as an irreversible dilation or widening of bronchi or bronchioles that may result from repeated pulmonary infection or obstruction is termed:
 - a. asthma.
 - b. bronchitis.
 - c. bronchiectasis.
 - d. dyspnea.

ANS: C REF: 85

- 53. What type of CR angle is required for the AP semiaxial projection for the lung apices?
 - a. 5° to 10°
 - b. 10 to 15 caudal degrees
 - c. 15° to 20°
 - d. 20 to 25 caudal degrees

ANS: C REF: 96

- 54. Which chest oblique position will best demonstrate the air-filled trachea, heart, and great vessels?
 - a. 45° RAO
 - b. 60° RAO
 - c. 45° LAO
 - d. 60° LAO

ANS: D REF: 97

- 55. A patient enters the emergency department (ED) to be treated for severe trauma. The physician orders an AP supine chest to evaluate the lungs. What can the technologist do to reduce the magnification of the heart?
 - a. Place the cassette crosswise.
 - b. Use a short exposure time.
 - c. Increase super optical device (SOD) as much as possible.
 - d. Increase SID as much as possible.

ANS: D REF: 80

- 56. An ambulatory patient comes to radiology with a clinical history of possible pneumonia. The patient complains of pain in the center of her chest. What positioning routine should be performed on this patient?
 - a. PA and left lateral projections
 - b. PA and right and left lateral projections

c. PA and both decubitus projections

d. AP and right lateral projections

ANS: A REF: 82 | 88 | 92

- 57. A patient is in the intensive care unit with multiple injuries. The attending physician is concerned about a pleural effusion in the left lung. The patient had surgery recently and cannot stand. Which position/projection would be best to rule out the pleural effusion?
 - a. AP supine
 - b. Right lateral decubitus
 - c. Apical lordotic
 - d. Left lateral decubitus

ANS: D REF: 95

- 58. A patient enters the ED with a possible pneumothorax in the left lung. Because of trauma, the patient cannot stand or sit erect. Which of the following positions would best demonstrate this condition?
 - a. AP supine
 - b. Right lateral decubitus
 - c. Left posterior oblique (LPO) and right posterior oblique (RPO)
 - d. Left lateral decubitus

ANS: B REF: 95

- 59. A patient comes to radiology for a routine chest study. On the PA projection, the radiologist sees a possible calcification near a rib, but she cannot tell whether the calcification is in the lung or on the rib. What additional projections would assist with the diagnosis?
 - a. Apical lordotic
 - b. Right lateral
 - c. Inspiration/expiration PA
 - d. Both lateral decubitus

ANS: C REF: 80

- 60. A patient enters the ED with a possible hemothorax in the right lung. With help, the patient can sit erect on a cart. Which of the following routines would best demonstrate this condition?
 - a. Erect PA and erect right lateral on cart
 - b. Right lateral decubitus
 - c. Left lateral decubitus
 - d. RPO and LAO erect

ANS: A REF: 86 | 88

- 61. A patient comes to radiology with a possible mass beneath the right clavicle. The PA and left lateral projections are inconclusive. Which additional projection can be taken to demonstrate this possible mass?
 - a. AP erect
 - b. Right lateral
 - c. AP and lateral of upper airway
 - d. AP lordotic

	ANS: D	REF: 96
62.	*	e radiographs of the chest, the elongated (widened) aspect of the thorax is com the image receptor.
	ANS: A	REF: 97
63.	Contrary to common horizontal dimensional a. True b. False	n belief, the vertical dimension of an average PA chest is greater than the on.
	ANS: B	REF: 84
64.	A small pneumothor projections. a. True b. False	orax may be detected by performing inspiration and expiration PA
	ANS: A	REF: 88
65.	The CR is centered (35 × 43 cm) image a. True b. False	to midsternum for the AP apical lordotic projection with a 14- \times 17-inch receptor (IR).
	ANS: A	REF: 96
66.		he lateral projection of the upper airway, exposure should be made during attion rather than at the end of the inspiration.
	ANS: A	REF: 100
67.	a. Elongates the cb. Prevents overlac. Separates the h	nologist slightly angle the CR caudad for most AP projections of the chest? arina p of the chin on the upper airway eart from the great vessels es from obscuring apices of the lungs
	ANS: D	REF: 94
68.	As a general rule, t radiography. a. True b. False	ne use of high kV (110 k) requires the use of a grid during chest
	ANS: A	REF: 79

- 69. Which positioning line must be placed perpendicular to the plane of the IR for an AP projection of the upper airway?
 - a. Mentomeatal
 - b. Midcoronal
 - c. Acanthiomeatal
 - d. Orbitomeatal

ANS: C REF: 101

- 70. Which of the following is NOT a form of occupational lung disease?
 - a. Silicosis
 - b. Tuberculosis
 - c. Anthracosis
 - d. Asbestosis

ANS: B REF: 87

- 71. Which of the following is a condition in which all or part of a lung is collapsed, requiring an increase in manual exposure factors?
 - a. Pleural effusion
 - b. Pneumothorax
 - c. Bronchiectasis
 - d. Atelectasis

ANS: D REF: 85

MATCHING

Select the exposure factor adjustments needed for the pathologic indication(s) using manual exposure settings (no AEC). Increases or decreases in manual exposure factors are compared with the ideal exposure factors that would be used on a normal, healthy individual.

- a. Increase (+)
- b. Decrease (-)
- c. No change (0)
- 1. Advanced bronchiectasis
- 2. Pneumothorax
- 3. Severe pulmonary edema
- 4. Severe emphysema
- 5. Cystic fibrosis (severe)
- 6. Pneumonia
- 7. Silicosis (severe)
- 8. Bronchitis
- 9. Epiglottitis
- 10. Large pleural effusion
- 11. Pleurisy
- 12. Tuberculosis (primary or secondary)
- 13. Advanced respiratory distress syndrome (RDS)
- 14. Mild chronic obstructive pulmonary disease (COPD)
- 15. Aspiration in upper airway (mechanical obstruction)

- 16. Malignant lung neoplasia
- 17. Pulmonary emboli

ANS:	C	REF:	88
ANS:	C	REF:	88
ANS:	A	REF:	88
ANS:	В	REF:	88
ANS:	A	REF:	88
ANS:	C	REF:	88
ANS:	C	REF:	88
ANS:	C	REF:	88
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Match the correct disease or condition with the descriptions of radiographic appearance. (Use each choice only once.)

- a. Tuberculosis
- b. Emphysema
- c. Pneumothorax
- d. Hemoptysis
- e. COPD (chronic obstructive pulmonary disease)
- f. Pneumonia
- g. Atelectasis
- h. Pleurisy
- i. Malignant lung cancer
- j. Pulmonary edema
- 18. Lung displaced from chest wall and no lung markings visible on radiograph
- 19. Patchy infiltrate with increased radiodensity
- 20. Increased lung dimensions (barrel-chested)
- 21. Increased diffuse radiodensity in hilar regions and air-fluid levels
- 22. Severe cases appear as emphysema
- 23. Slight shadows in early stages, larger radiopaque masses in advanced stages
- 24. Collapse of all or part of lung
- 25. Inflammation of pleura (possible air/fluid levels)
- 26. A contagious disease caused by airborne bacteria
- 27. Coughing up blood

18.	ANS:	C	REF:	88
19.	ANS:	F	REF:	88
20.	ANS:	В	REF:	88
2.1	ANS:	J	REF:	88

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22.	ANS:	E	REF:	88
23.	ANS:	I	REF:	88
24.	ANS:	G	REF:	88
25.	ANS:	H	REF:	88
26.	ANS:	A	REF:	88
27.	ANS:	D	REF:	88