

LABORATORY EXERCISE 2 BODY ORGANIZATION AND TERMINOLOGY

Instructional Suggestions

If a dissectible human torso model (manikin) is not available, you might want to have students consult the figures in various sections of the textbook, particularly the body sections in the reference plates following chapter 1, to gain some understanding of the organizational pattern of the human body.

Figure Labels

FIG. 2.1

- | | |
|--------------------------|------------------------------------|
| 1. Thoracic cavity | 4. Pelvic cavity |
| 2. Abdominal cavity | 5. Cranial cavity |
| 3. Abdominopelvic cavity | 6. Vertebral canal (spinal cavity) |

FIG. 2.2a

- | | |
|--------------------|--------------------------------------|
| 1. Visceral pleura | 4. Visceral pericardium (epicardium) |
| 2. Pleural cavity | 5. Pericardial cavity |
| 3. Parietal pleura | 6. Parietal pericardium |

FIG. 2.2b

- | | |
|------------------------|------------------------|
| 7. Visceral peritoneum | 9. Parietal peritoneum |
| 8. Peritoneal cavity | |

FIG. 2.5

- | | |
|---------------------------------------|----------------------------------|
| 1. Sagittal plane (midsagittal plane) | 3. Transverse (horizontal) plane |
| 2. Coronal (frontal) plane | |

FIG. 2.6a

- | | |
|---|---|
| 1. Epigastric region | 6. Left hypochondriac region |
| 2. Right hypochondriac region | 7. Left lumbar region |
| 3. Right lumbar region | 8. Left iliac region (left inguinal region) |
| 4. Umbilical region | 9. Hypogastric region |
| 5. Right iliac region (right inguinal region) | |

FIG. 2.6b

- | | |
|--------------------------------|-------------------------------|
| 10. Right upper quadrant (RUQ) | 12. Left upper quadrant (LUQ) |
| 11. Right lower quadrant (RLQ) | 13. Left lower quadrant (LLQ) |

FIG. 2.7a

- | | | | |
|-------------|------------------|-------------|--------------|
| 1. Nasal | 6. Mammary | 11. Carpal | 16. Tarsal |
| 2. Oral | 7. Brachial | 12. Palmar | 17. Cephalic |
| 3. Cervical | 8. Antecubital | 13. Digital | 18. Frontal |
| 4. Acromial | 9. Abdominal | 14. Genital | 19. Orbital |
| 5. Axillary | 10. Antebrachial | 15. Crural | 20. Buccal |

- | | | | |
|-------------|---------------|--------------|--------------|
| 21. Mental | 23. Pectoral | 25. Inguinal | 27. Patellar |
| 22. Sternal | 24. Umbilical | 26. Coxal | 28. Pedal |
- FIG. 2.7b**
- | | | | |
|---------------|--------------|--------------|----------------------------------|
| 29. Otic | 33. Brachial | 37. Sacral | 41. Popliteal |
| 30. Occipital | 34. Dorsum | 38. Gluteal | 42. Sural (calf) or crural (leg) |
| 31. Acromial | 35. Cubital | 39. Perineal | 43. Plantar |
| 32. Vertebral | 36. Lumbar | 40. Femoral | |

Laboratory Report Answers

PART A

- | | | |
|------|------|-------|
| 1. a | 5. b | 9. d |
| 2. d | 6. c | 10. e |
| 3. a | 7. a | 11. d |
| 4. a | 8. c | 12. a |

PART B

- | | | | |
|------|------|------|-------|
| 1. c | 4. g | 7. e | 10. b |
| 2. d | 5. j | 8. f | 11. a |
| 3. h | 6. i | 9. k | |

PART C

- | | | | |
|--------------|--------------|----------------|-------------------|
| 1. inferior | 4. anterior | 7. distal | 10. (correct) |
| 2. (correct) | 5. (correct) | 8. (correct) | 11. contralateral |
| 3. (correct) | 6. (correct) | 9. superficial | 12. deep |

PART D

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|------|------|-------|
| 1. e | 5. l | 9. d |
| 2. k | 6. j | 10. h |
| 3. b | 7. g | 11. f |
| 4. i | 8. c | 12. a |

PART E

- | | | |
|------|------|-------|
| 1. h | 5. l | 9. d |
| 2. c | 6. f | 10. a |
| 3. i | 7. k | 11. b |
| 4. j | 8. g | 12. e |



Critical Thinking Application Answers

PART F

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|-------------------------|---------------|
| 1. LUQ | 4. RUQ |
| 2. RLQ | 5. LUQ or LLQ |
| 3. any or all quadrants | 6. LUQ |