

LABORATORY EXERCISE 2

BODY ORGANIZATION AND TERMINOLOGY

Instructional Suggestion

If a dissectible torso (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. 2.2

- | | |
|---------------------|----------------------|
| 1. Frontal sinuses | 4. Oral cavity |
| 2. Orbital cavities | 5. Sphenoidal sinus |
| 3. Nasal cavity | 6. Middle ear cavity |

FIG. 2.3a

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

FIG. 2.3b

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

FIG. 2.4a

- | | |
|---|---|
| 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. 2.4b

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

FIG. 2.5

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

FIG. 2.6a

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|-------------|------------------|--------------|---------------|
| 1. Nasal | 7. Brachial | 13. Digital | 19. Orbital |
| 2. Oral | 8. Antecubital | 14. Genital | 20. Buccal |
| 3. Cervical | 9. Abdominal | 15. Crural | 21. Mental |
| 4. Acromial | 10. Antebrachial | 16. Tarsal | 22. Sternal |
| 5. Axillary | 11. Carpal | 17. Cephalic | 23. Pectoral |
| 6. Mammary | 12. Palmar | 18. Frontal | 24. Umbilical |

- | | | | |
|---------------|--------------|--------------|----------------------------------|
| 25. Inguinal | 26. Coxal | 27. Patellar | 28. Pedal |
| 29. Otic | 33. Brachial | 37. Sacral | 41. Popliteal |
| 30. Occipital | 34. Dorsum | 38. Gluteal | 42. Crural (leg) or sural (calf) |
| 31. Acromial | 35. Cubital | 39. Perineal | 43. Plantar |
| 32. Vertebral | 36. Lumbar | 40. Femoral | |

Laboratory Report Answers

PART A

- | | | | |
|------|------|-------|-------|
| 1. a | 5. b | 9. e | 13. g |
| 2. g | 6. d | 10. h | 14. g |
| 3. a | 7. a | 11. f | |
| 4. a | 8. f | 12. c | |

PART B

- | | |
|-------------------------|---------------------------------|
| 1. visceral pleura | 5. serous fluid (pleural fluid) |
| 2. visceral pericardium | 6. visceral pericardium |
| 3. parietal peritoneum | 7. mediastinum |
| 4. visceral peritoneum | 8. diaphragm |

PART C

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

PART D

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

PART E

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|--------------|--------------|----------------|-------------------|
| 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 F (figure 2.7a and b)

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|----------------------------------|-------------------------|
| 1. Transverse (horizontal) plane | 4. Cross section |
| 2. Coronal (frontal) plane | 5. Oblique section |
| 3. Sagittal plane | 6. Longitudinal section |

PART G

- | | | | |
|------|------|-------|-------|
| 1. f | 5. k | 9. l | 13. j |
| 2. i | 6. m | 10. h | 14. g |
| 3. n | 7. o | 11. d | 15. b |
| 4. c | 8. a | 12. e | |

PART H

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|----|---|----|---|-----|---|-----|---|
| 1. | j | 5. | l | 9. | d | 13. | a |
| 2. | c | 6. | n | 10. | m | 14. | b |
| 3. | f | 7. | h | 11. | i | 15. | g |
| 4. | k | 8. | o | 12. | e | | |



Critical Thinking Application Answers

PART I

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