

EXERCISE

9

The Axial Skeleton

Objectives

- ☐ Name the three parts of the axial skeleton.
- ☐ Identify the bones of the axial skeleton, either by examining isolated bones or by pointing them out on an articulated skeleton or skull, and name the important bone markings on each.
- ☐ Name and describe the different types of vertebrae.
- ☐ Discuss the importance of intervertebral discs and spinal curvatures.
- ☐ Identify three abnormal spinal curvatures.
- ☐ List the components of the thoracic cage.
- ☐ Identify the bones of the fetal skull by examining an articulated skull or image.
- ☐ Define fontanelle, and discuss the function and fate of fontanelles.
- ☐ Discuss important differences between the fetal and adult skulls.



Materials

- Intact skull and Beaudene skull
- X-ray images of individuals with scoliosis, lordosis, and kyphosis (if available)
- Articulated skeleton, articulated vertebral column, removable intervertebral discs
- Isolated cervical, thoracic, and lumbar vertebrae, sacrum, and coccyx
- Isolated fetal skull

Pre-Lab Quiz

1. The axial skeleton can be divided into the skull, the vertebral column, and the:
 - a. thoracic cage
 - b. femur
 - c. hip bones
 - d. humerus
2. Eight bones make up the _____, which encloses and protects the brain.
 - a. cranium
 - b. face
 - c. skull
3. How many bones of the skull are considered facial bones? _____
4. Circle the correct underlined term. The lower jawbone, or maxilla / mandible, articulates with the temporal bones in the only freely movable joints in the skull.
5. Circle the correct underlined term. The body / spinous process of a typical vertebra forms the rounded, central portion that faces anteriorly in the human vertebral column.
6. The seven bones of the neck are called _____ vertebrae.
 - a. cervical
 - b. lumbar
 - c. spinal
 - d. thoracic
7. The _____ vertebrae articulate with the corresponding ribs.
 - a. cervical
 - b. lumbar
 - c. spinal
 - d. thoracic
8. The _____, commonly referred to as the breastbone, is a flat bone formed by the fusion of three bones: the manubrium, the body, and the xiphoid process.
 - a. coccyx
 - b. sacrum
 - c. sternum
9. Circle True or False. The first seven pairs of ribs are called floating ribs because they have only indirect cartilage attachments to the sternum.
10. A fontanelle:
 - a. is found only in the fetal skull
 - b. is a fibrous membrane
 - c. allows for compression of the skull during birth
 - d. all of the above

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