

Chapter 5

The Skeletal System

Lecture Presentation by Patty Bostwick-Taylor Florence-Darlington Technical College

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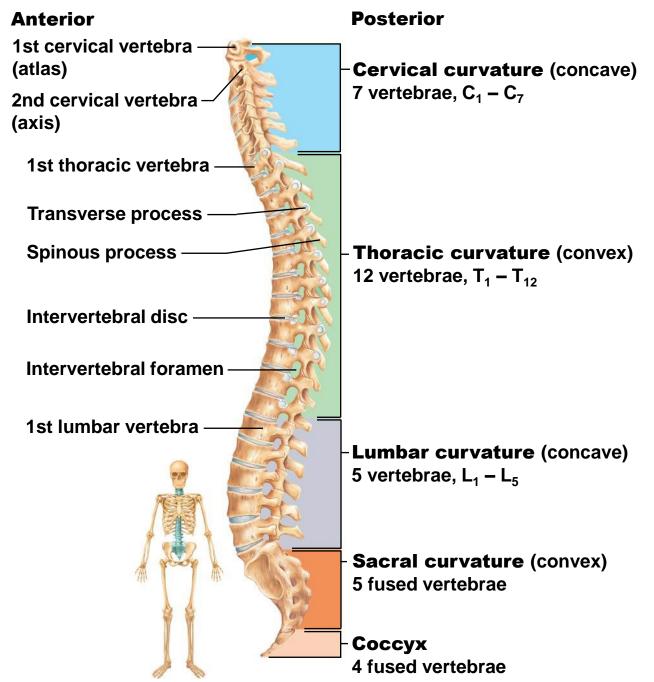
Vertebral Column (Spine)

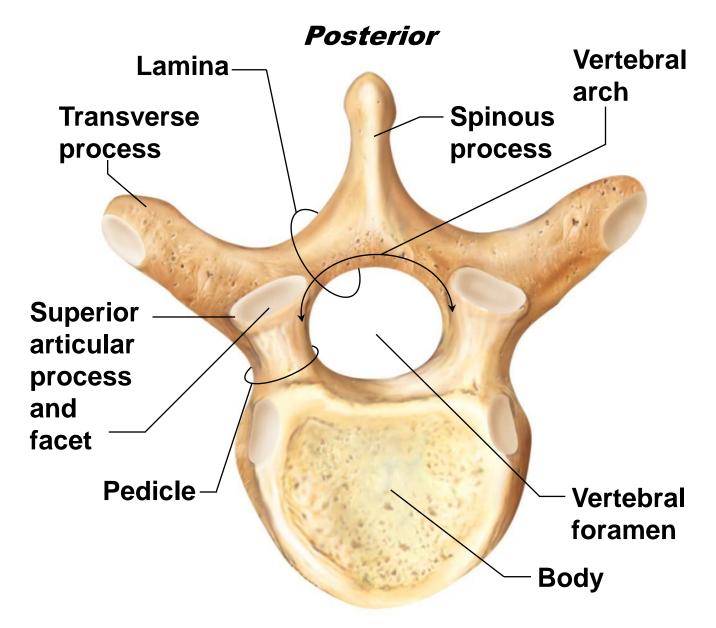
- Vertebral column provides axial support
 Extends from skull to the pelvis
- 26 single vertebral bones are separated by intervertebral discs
 - 7 cervical vertebrae are in the neck
 - 12 thoracic vertebrae are in the chest region
 - 5 lumbar vertebrae are associated with the lower back

Vertebral Column (Spine)

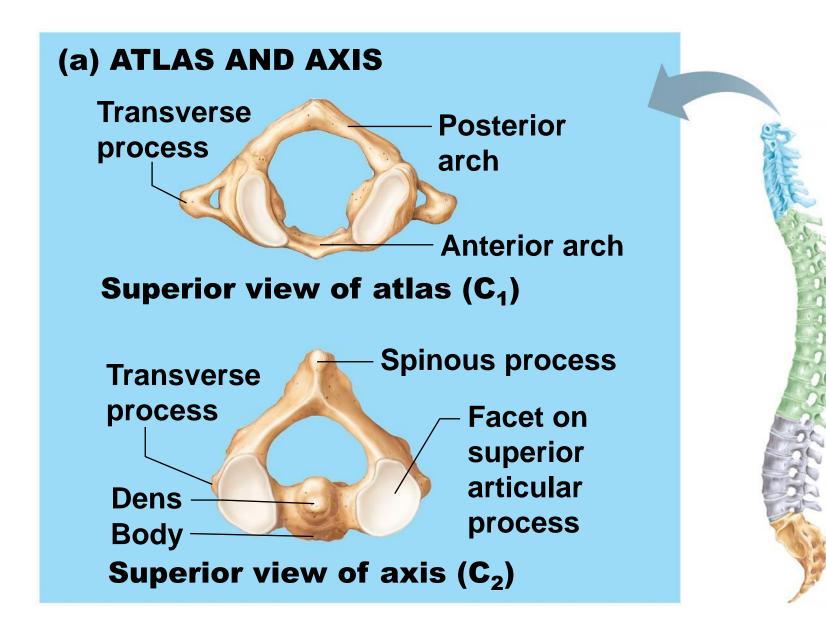
- 9 vertebrae fuse to form two composite bones
 - Sacrum formed by the fusion of 5 vertebrae
 - Coccyx (tailbone) formed by the fusion of 3 to 5 vertebrae

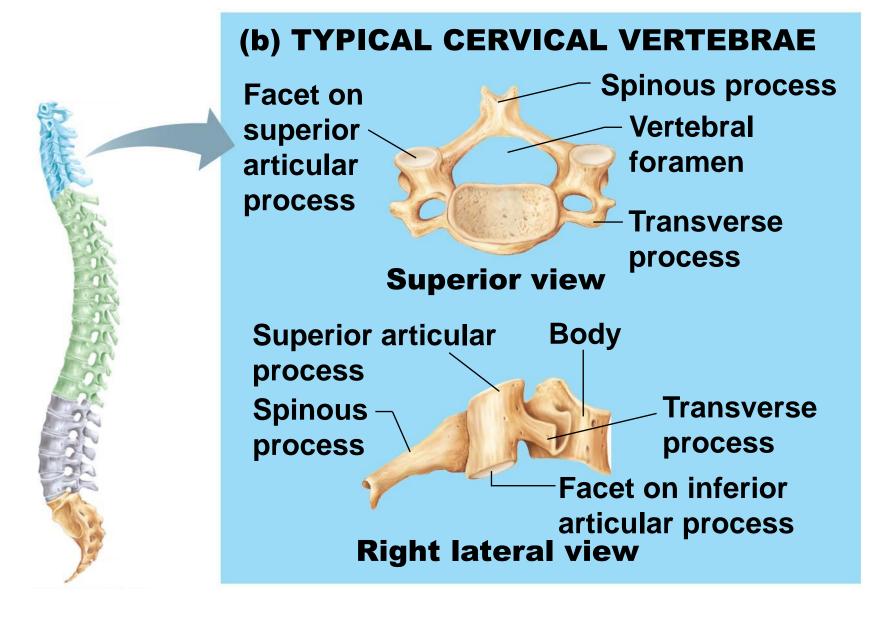
Figure 5.16 The vertebral column.

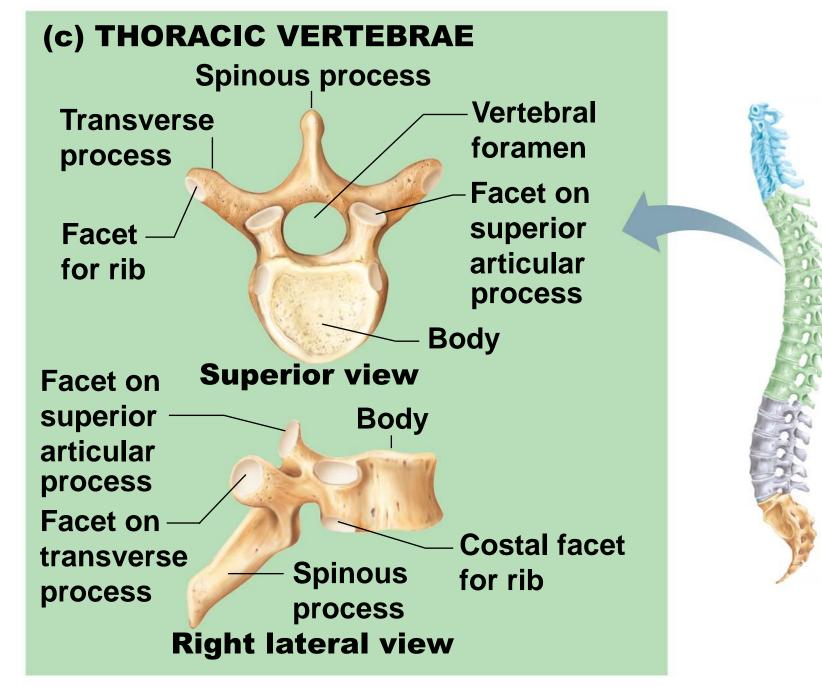


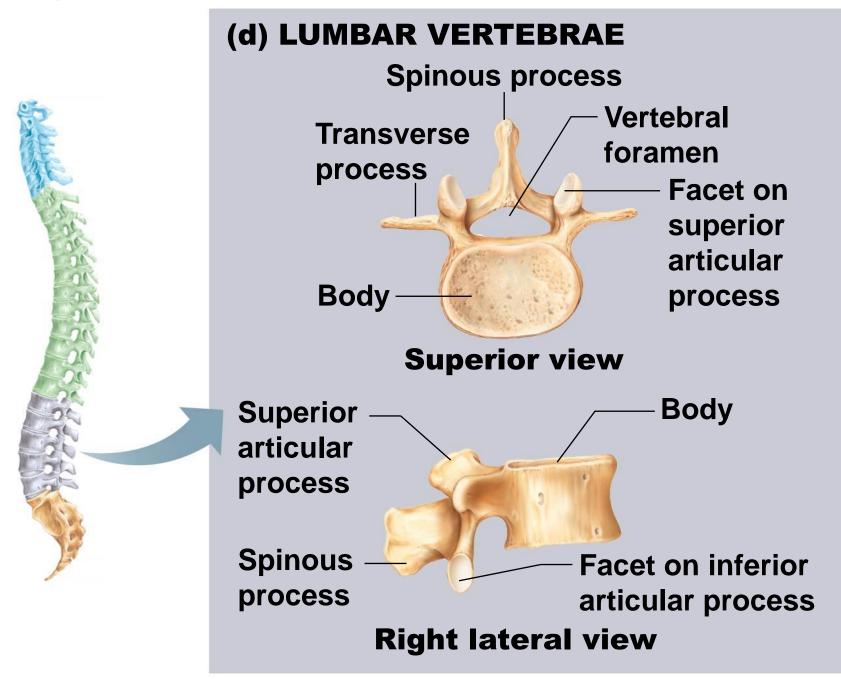


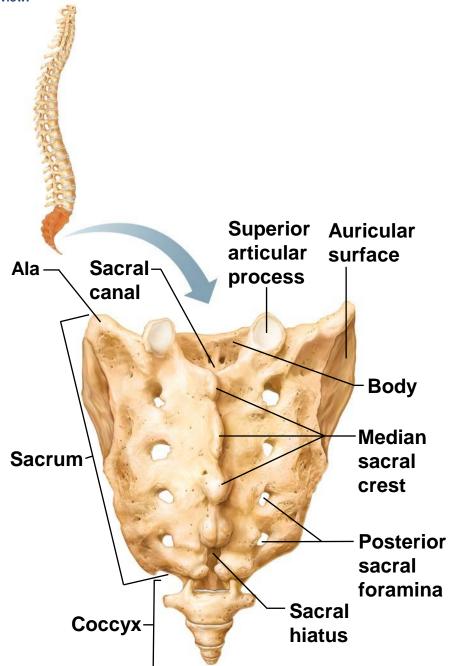
Anterior











The Bony Thorax

- Forms a cage to protect major organs
- Consists of three parts
 - 1. Sternum
 - 2. Ribs
 - True ribs (pairs 1–7)
 - False ribs (pairs 8–12)
 - Floating ribs (pairs 11–12)
 - 3. Thoracic vertebrae

