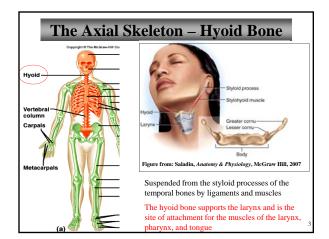
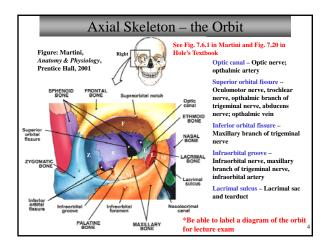


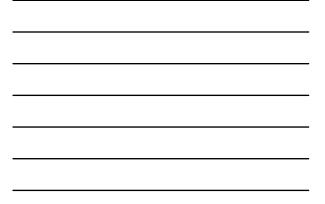
Lecture Overview

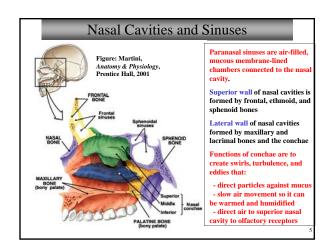
- Axial Skeleton
 - Hyoid bone
 - Bones of the orbit
 - Paranasal sinuses
 - Infantile skull
 - Vertebral column
 - Curves
 - Intervertebral disks
 - Ribs

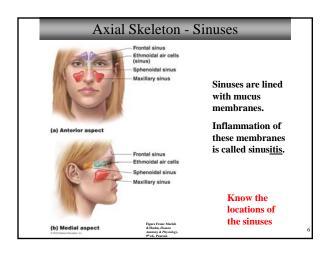




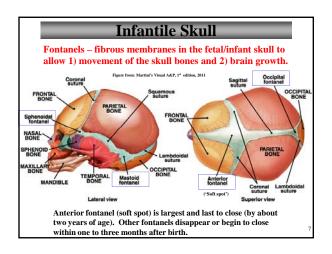




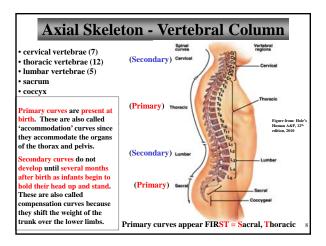




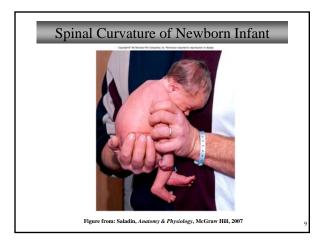


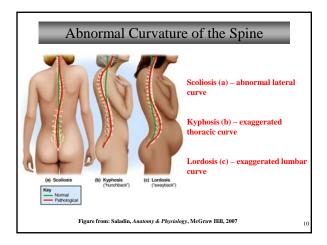




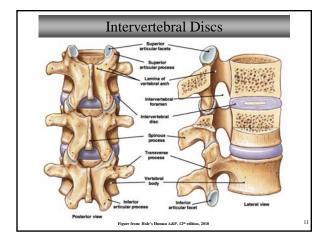




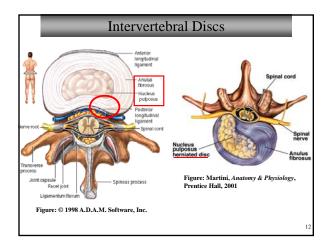




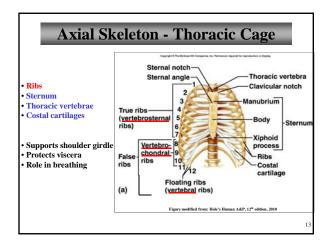








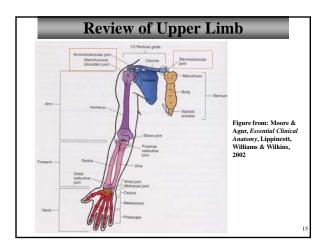




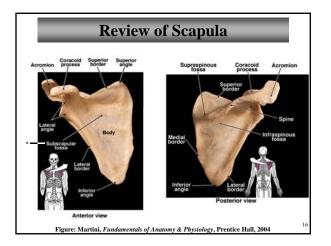


Lecture Overview

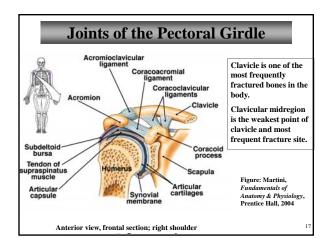
- Appendicular Skeleton
 - Review of pectoral girdle
 - Shoulder joint; dislocations
 - Review of bones of upper limb and hand
 - Review of the pectoral girdle
 - Divisions of the pelvis
 - Male-female pelvic differences
 - Comparison of the pectoral and pelvic girdles
 - Review of bones of the leg and foot
 - Arches of the foot



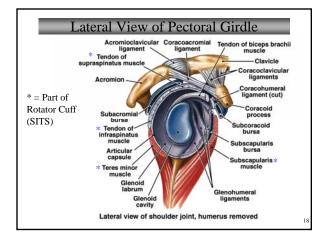




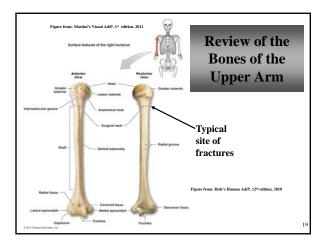




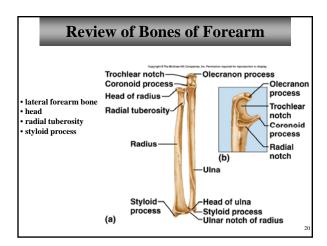




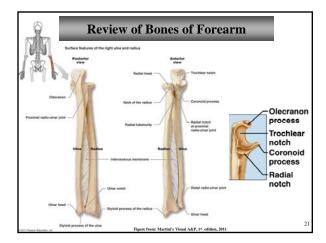




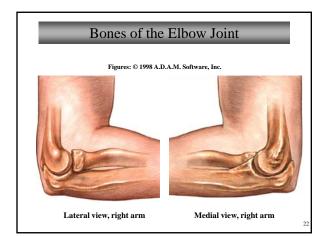




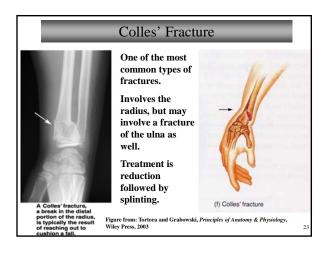


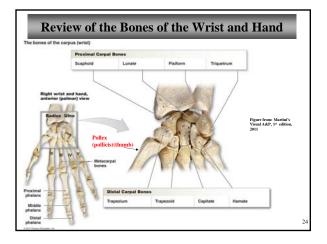




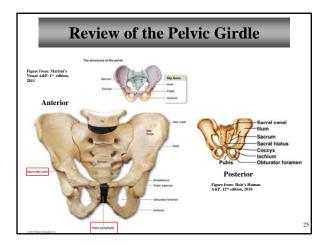




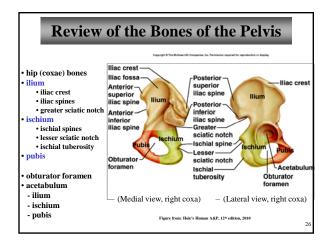




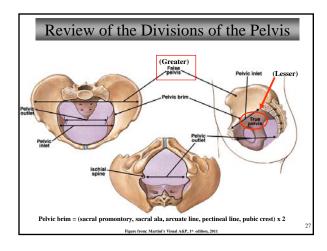




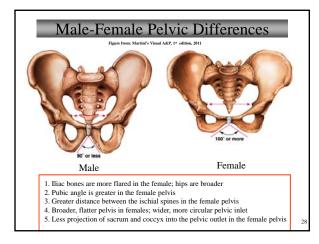






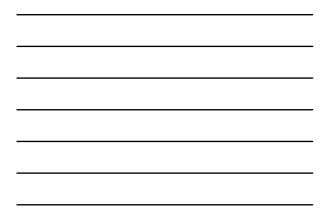


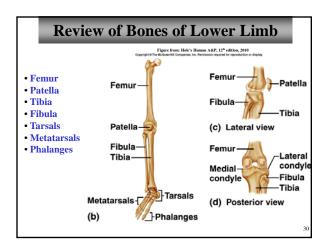




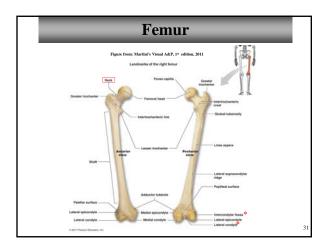


	Clavicle, Scapula)	Pelvic Girdle (Ossa coxae, sacrum, coccyx)
Articulation with vertebral column	None	Direct (sacroiliac joint)
Joint sockets for limbs	Shallow – maximize movement	Deep – maximize strength
Overall characteristic	Maximum movement, reduced strength	Maximum strength, reduced movement

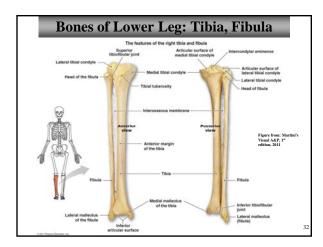




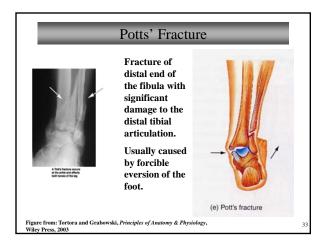




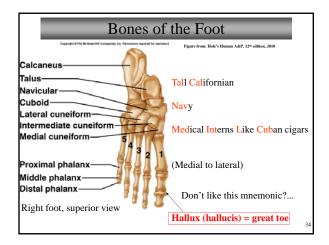




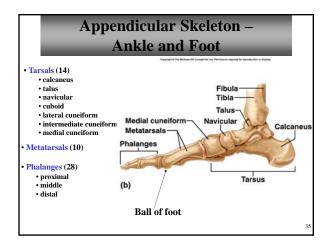




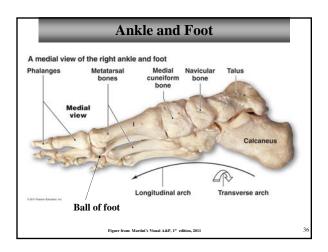




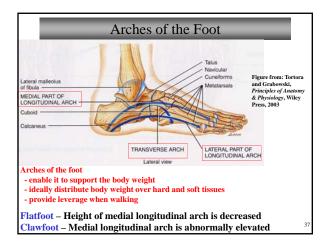




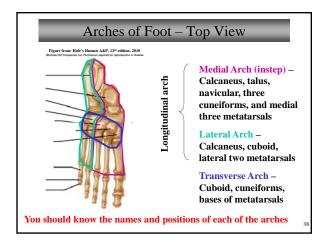


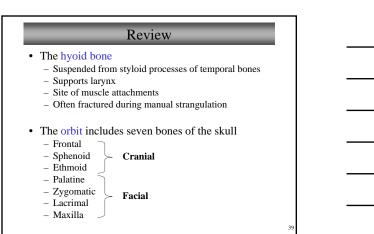












Review

• The paranasal sinuses

- air-filled chambers that connect with the nasal cavity
- Formed by the frontal, sphenoid, ethmoid, and
- maxillary bones
- Produce mucus and serve as resonating chambers

• The infantile skull

- Contains soft spots
 - Fibrous CT membranes
 - Called fontanels
- The anterior fontanel
 - Largest
 - · Last to close (about 18-24 months after birth)

Review

- The vertebral column
 - Primary curves (accommodation)
 - · Thoracic and sacral
 - Present at birth
 - Secondary curves (compensation)
 - · Cervical and lumbar
 - Develop as head is held up and weight-bearing begins

- Intervertebral disks

- · Shock absorbers between vertebral bones
- Permit movement
- Outer fibrocartilage annulus fibrosus
- Inner soft, pulpy core nucleus pulposus

Review

- The thoracic cage
 - Protects the heart, lungs, thymus, and other structures in the thoracic cavity
 - Serves as an attachment point for muscles involved in respiration, positioning the vertebral column, and moving the pectoral girdle and upper limbs
- The thoracic cage consists of the
 - Thoracic vertebrae
 - The ribs
 - The sternum (breastbone)
- True, or vertebrosternal, ribs (7 pairs) are attached to the sternum by costal cartilages
- There are 5 pairs of false ribs
 - Ribs 8-10 are vertebrochondral ribs

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- Ribs 11 and 12 are floating, or vertebral, ribs
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Review

- The pectoral girdle consists of the clavicle and scapula
 - Does not articulate with vertebral column
 - Designed for movement rather than strength
- The pelvic girdle consists of the paired hip bones, or coxae
 - Each coxa is formed by fusion of three bones:
 - IliumIschium
 - IschlunPubis
 - Pubis
 - Articulates with vertebral column via the sacroiliac joint
 - $-\,$ Designed for strength rather than range of movement

Review

- The divisions of the pelvis include
 - True (lesser) pelvis
 - · Encloses the pelvic cavity
 - Bony edge of the true pelvis is the pelvic brim and the enclosed space is called the pelvic inlet
 - False (greater) pelvis
 - · Area above the pelvic brim
 - The pelvic outlet is bounded by the coccyx, ischial tuberosities, and the inferior border of the pubic symphysis

Review

- The arches of the foot
 - Function of arches
 - enable it to support the body weight
 - ideally distribute body weight over hard and soft tissues
 - provide leverage when walking
 - Longitudinal arches
 - Lateral
 - Medial (fallen arches; clawfoot)
 - Transverse arch