Bony Landmarks

AXIAL SKELETON

Skull

Most of the superficial bones of the skull should be easy for you to locate. Pay attention to:

- 1. Nasal bones (commonly broken)
- 2. Mandible (commonly broken). Note the angle of the mandible which is sometimes used in CPR to open the airway.
- 3. Temporomandibular joint (TMJ disease)
- 4. Mastoid process (mastoiditis)
- 5. Zygomatic (cheek bone)

Vertebral Column

1. Spinous processes of vertebra (note especially the vertebral prominens of C7)

Thorax

- 1. Sternum.
 - A. Sternal angle formed by the joining of the manubrium and body. Used to find the location of the 2nd rib.
 - B. Xiphoid process (important in CPR)
- 2. Ribs. The heart is located deep to the attachments of the second to sixth costal cartilages to the sternum.

APPENDICULAR SKELETON

Shoulder

- 1. Clavicle (collar bone) commonly broken
- 2. Scapula
 - A. Spine and borders
 - B. Acromion (point of shoulder)
 - C. Coracoid process

Upper Limb

- 1. Humerus
 - A. Greater and lesser tubercles can be felt while rotating the humerus.
 - B. Medial and lateral epicondyles
- 2. Ulna
 - A Olecranon
 - B. Head of radius can be felt while supinating and pronating the forearm.
 - B. Head of ulna
- 3. Radius distal end is the site for taking the pulse.
- 4. Carpals
- 5. Metacarpals (knuckles)
- 6. Phalanges

Pelvis

- 1. Iliac crest
- 2. Anterior superior iliac spine important landmark for finding the correct site for injections.
- 3. Ischial tuberosity possible site of "pressure sores" (decubitus ulcers).

Lower Limb

- 1. Femur
 - A. Greater trochanter
 - B. Medial and lateral epicondyles
- 2. Patella
- 3. Tibia
 - A. Medial and lateral condyles
 - B. Tibial tuberosity
 - C. Medial malleolus
- 4. Fibula lateral malleolus
- 5. Tarsals note the calcaneus (heel bone)
- 6. Metatarsals
- 7. Phalanges