

## Musculoskeletal Anatomy Topics

### Bones and Landmarks:

#### Location

#### Muscles attaching

#### Position relative to other landmarks

#### Pathological significance

### Head and Neck

External occipital protuberance

Superior nuchal line

Frontal bone

Parietal bone

Temporal bone

Mastoid process

Occipital bone

Styloid process temporal bone

Mylohyoid line inner mandible

Zygomatic process

Temporal process

Angle of mandible

Ramus of mandible

Mandibular condyle

Coronoid process of mandible

Maxilla

Thyroid cartilage

Spinous processes

Transverse processes

Hyoid

Greater cornu of hyoid

### Thorax, Trunk

Clavicle

Ribs

Manubrium

Sternal angle

Sternum

Xiphoid process

Costal cartilages

## **Scapula and Upper Limb**

Acromion process  
Spine of scapula  
Coracoid process  
Superior angle of scapula  
Root of spine of scapula  
Inferior angle of scapula  
Medial border of scapula  
Lateral border of scapula  
Infraspinous fossa  
Supraspinous fossa  
Subscapular fossa  
Infraglenoid tubercle of scapula  
Supraglenoid tubercle of scapula  
Greater tubercle  
Bicipital groove  
Lesser tubercle  
Deltoid tuberosity  
Medial epicondyle  
Lateral epicondyle  
Lateral supracondylar ridge  
Medial supracondylar ridge  
Lateral humeral shaft  
Medial humeral shaft  
Olecranon process  
Olecranon fossa  
Ulnar shaft (medial border)  
Styloid process  
Radial Head  
Radial Shaft (lateral border)  
Styloid process  
Dorsal/Lister's tubercle  
Scaphoid  
Tubercle of scaphoid  
Anatomic snuffbox  
Trapezium  
Capitate  
Lunate  
Trapezoid  
Triquetrum  
Hamate  
Pisiform  
Hook of Hamate  
Metacarpals  
Phalanges

## **Pelvis and Lower Limb**

Iliac fossa  
Iliac crest  
Sacroiliac joint  
ASIS  
AIIS  
Pubic tubercle  
Pubic crest  
Pubic symphysis  
Sacrum  
Sacral tubercles  
Median sacral crest  
Coccyx  
Ischial tuberosity  
PSIS  
Adductor tubercle  
Greater trochanter  
Lesser trochanter  
Lateral condyle  
Medial condyle  
Adductor tubercle  
Apex of patella  
Base of patella  
Lateral tibial condyle  
Medial tibial condyle  
Tibial tuberosity  
Anterior border of tibia  
Medial malleolus  
Lateral malleolus  
Distal tibiofibular joint  
Fibula  
Proximal tibiofibular joint  
Head of fibula  
Calcaneus  
Talus  
Navicular  
Cuboid  
Medial cuneiform  
Intermediate cuneiform  
Lateral cuneiform  
Metatarsals 1-5  
Proximal phalanges 1-5  
Middle phalanges 1-5  
Distal phalanges 1-5  
Sustentaculum tali  
Styloid process base of 5<sup>th</sup> metatarsal

## **Muscles**

### **Origins**

### **Insertions**

### **Actions**

### **Nerve innervations**

Sternocleidomastoid

Trapezius

Levator Scapula

Suboccipital Group

Splenius Capitis

Splenius Cervicis

Semispinalis Capitis

Masseter

Temporalis

Medial Pterygoid

Suprahyoid Group

Geniohyoid

Mylohyoid

Infrahyoid Group

Anterior Scalene

Middle Scalene

Posterior Scalene

Rhomboid Major

Rhomboid Minor

Pectoralis Major

Pectoralis Minor

Serratus Anterior

Supraspinatus

Infraspinatus

Teres Minor

Subscapularis

Deltoid

Teres Major

Latissimus Dorsi

Coracobrachialis

Biceps

Triceps

Brachialis

Extensor Carpi Radialis Longus

Extensor Carpi Radialis Brevis

Extensor Carpi Ulnaris

Anconeus

Extensor Digitorum

Extensor Indicis  
Flexor Carpi Radialis  
Flexor Carpi Ulnaris  
Palmaris Longus  
Flexor Digitorum Superficialis  
Flexor Digitorum Profundus  
Pronator Teres  
Pronator Quadratus  
Flexor Pollicis longus  
Hypothenar eminence  
Thenar  
Palmar Interossei  
Dorsal Interossei  
Intercostals  
Rectus Abdominus  
External Obliques  
Internal Obliques  
Psoas Major  
Superficial Spinal Muscles (longissimus, iliocostalis, spinalis)  
Quadratus Lumborum  
Gluteus Maximus  
Gluteus Medius  
Gluteus Minimus  
Piriformis  
Quadratus Femoris  
Tensor Fascia Lata  
Sartorius  
Rectus Femoris  
Vastus Medialis  
Vastus Lateralis  
Pectineus  
Adductor Longus  
Adductor Brevis  
Adductor Magnus  
Gracilis  
Biceps Femoris  
Semitendinosus  
Semimembranosus  
Popliteus  
Tibialis Anterior  
Tibialis Posterior  
Gastrocnemius  
Soleus  
Extensor Digitorum Longus  
Extensor Hallucis Longus  
Fibularis Longus

Fibularis Brevis  
Fibularis Tertius  
Flexor Digitorum Longus  
Flexor Hallucis Longus  
Extensor Digitorum Brevis  
Dorsal Interossei  
Palmar Interossei

## **Ligaments**

### **Attachments**

#### **Function**

Iliolumbar ligament  
Dorsal sacroiliac ligaments  
Sacrotuberous ligament  
Sacrospinous ligament  
Inguinal ligament  
Knee lateral collateral ligament  
Knee medial collateral ligament  
ACL  
PCL  
Patellar ligament/tendon  
Anterior talofibular ligament  
Posterior talofibular ligament  
Calcaneofibular ligament  
Deltoid ligament  
Nuchal Ligament  
Superior glenohumeral ligament  
Middle glenohumeral ligament  
Inferior glenohumeral ligament  
Transverse humeral ligament  
Coracohumeral ligament  
Coracoacromial ligament  
Annular ligament  
Anterior radioulnar ligament  
Posterior radioulnar ligament  
Palmar radiocarpal ligament  
Palmar ulnocarpal ligament  
Dorsal radiocarpal ligament  
Dorsal ulnocarpal ligament  
Transverse carpal ligament  
Dorsal carpal ligament