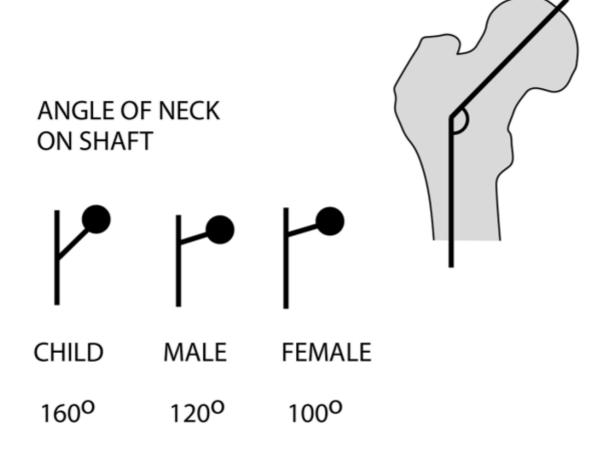
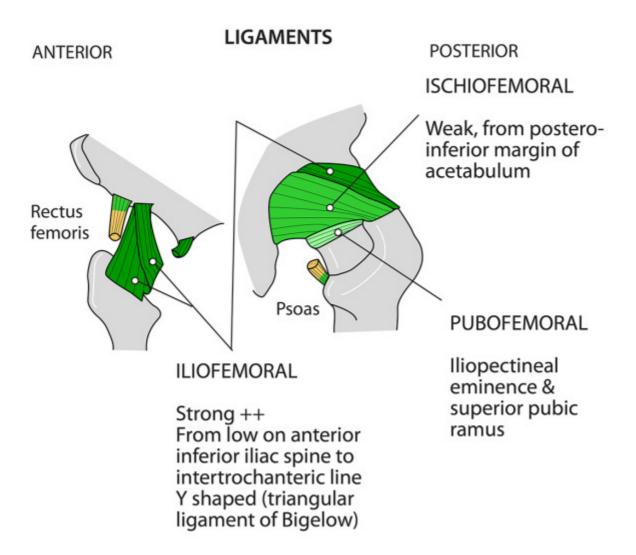
The Hip Joint

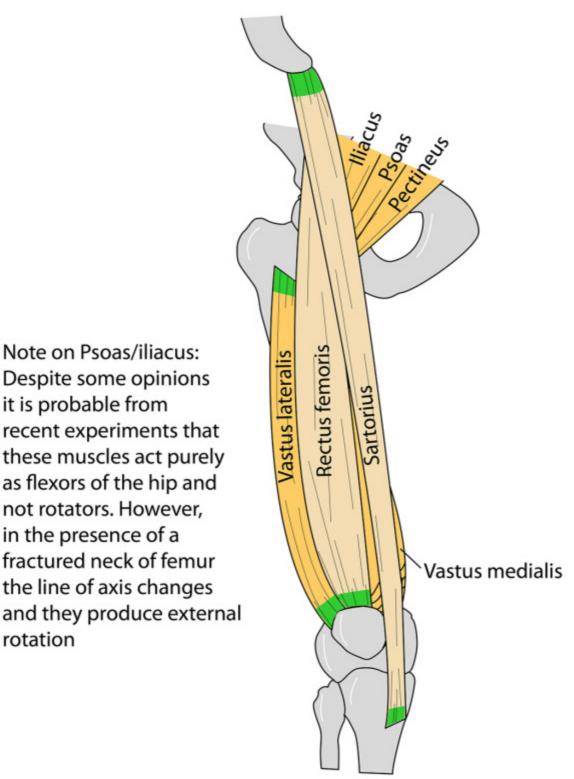
# **HIP JOINT 1**

Ball and socket Synovial Ligamentum teres in fovea





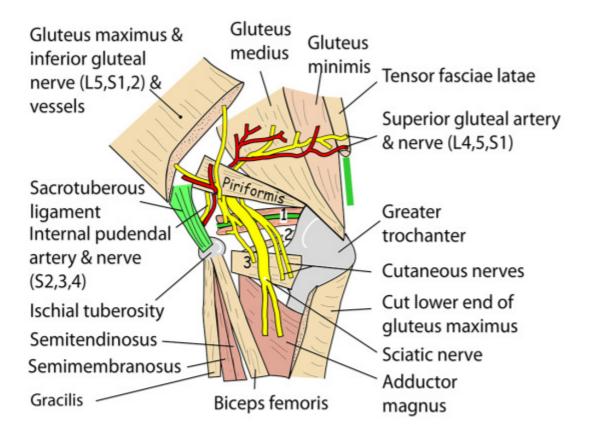
# **ANTERIOR THIGH & HIP FLEXORS**



For more details of these muscles, please see muscle section in the book - Instant Anatomy, by R H Whitaker & N R Borley. 4th edition. Wiley-Blackwell 2010

rotation

## **RIGHT GLUTEAL REGION**



- 1 Gemellus superior, obturator internus, gemellus inferior
- 2 Obturator externus
- 3 Quadratus femoris

For action of the muscles please see section on hip movements. More details can be found in the muscle section in the book - Instant Anatomy, by R H Whitaker & N R Borley. 4th edition. Wiley-Blackwell 2010

### **HIP MOVEMENTS**

### Abduction

Gluteus medius, gluteus minimus, tensor fasciae latae (+/- piriformis)

### Adduction

Adductors brevis, longus, magnus (pectineus, gracilis, iliopsoas)

### Flexion

Psoas, iliacius, rectus femoris, sartorius, (pectineus, tensor fasciae latae). Note soft tissue limitation

### Extension

Gluteus maximus, semitendinosus, semimembranosus, adductor magnus, long head biceps femoris. Note capsule & ligaments limitation

### **External rotation**

Gluteus maximus, (piriformis, obturators internus & externus, gemelli, quadratus femoris

### **Internal rotation**

Anterior fibres of gluteus medius & minimis

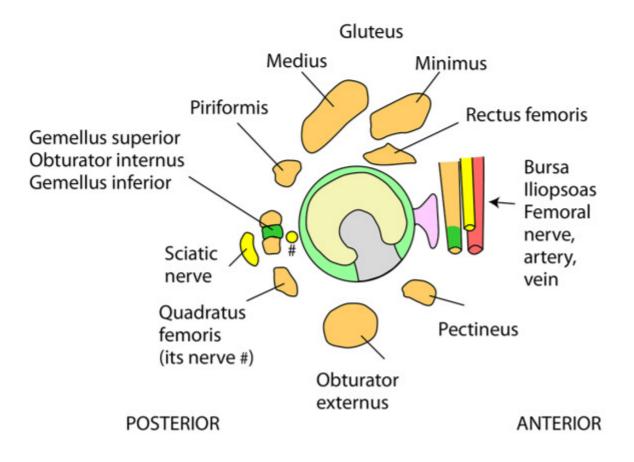
## BURSAE

- Psoas may communicate into hip joint
- Trochanteric
- Ischial

## NERVES

- Femoral (because of rectus femoris)
- Sciatic (because of quadratus femoris)
- Obturator posterior division

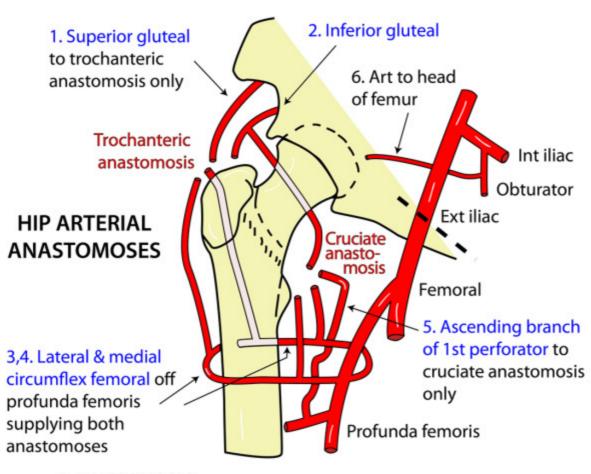
# RELATIONS



#### CAPSULE

#### Strong ++

Anterior: Covers whole neck to intertrochanteric line Posterior: Covers neck half way to intertrochanteric crest Reflects: Back as retinaculum which carries the blood supply



#### 2 ANASTOMOSES

Trochanteric (at greater trochanter): Descending superior gluteal Inferior gluteal Ascending branches of medial & lateral circumflex femoral

#### Cruciate (at lesser trochanter):

Transverse branches of medial & lateral circumflex femoral Descending branch of inferior gluteal Ascending branch of 1st perforating artery

#### Mnemonic:

Upper anastomosis does not receive branch from lowest artery, lower anastomosis does not receive branch from highest artery.

#### BLOOD SUPPLY TO HEAD AND NECK OF FEMUR

