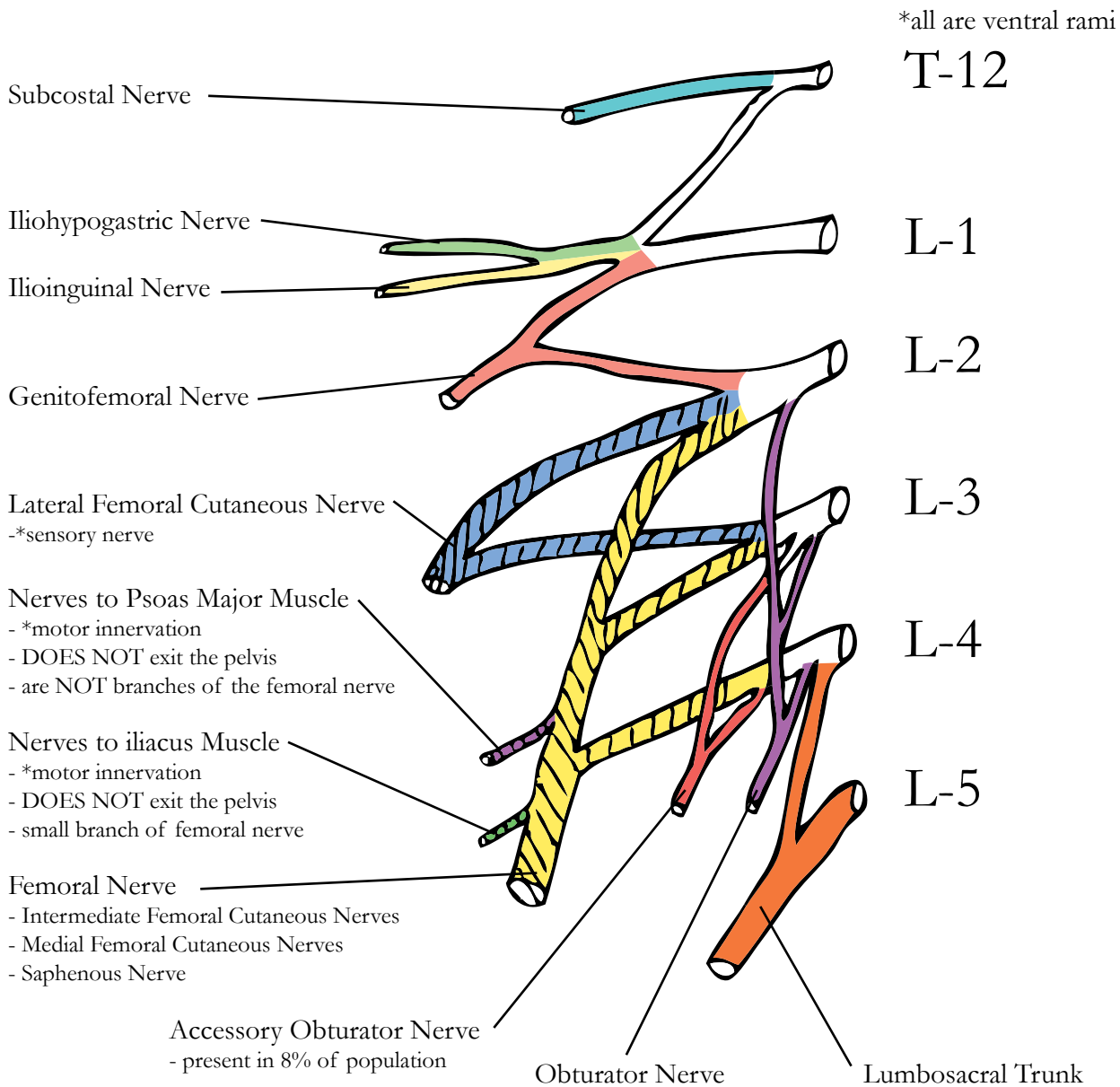


# Lumbar Plexus



\*all are sensorimotor nerves unless otherwise noted.

- Shaded - dorsal division

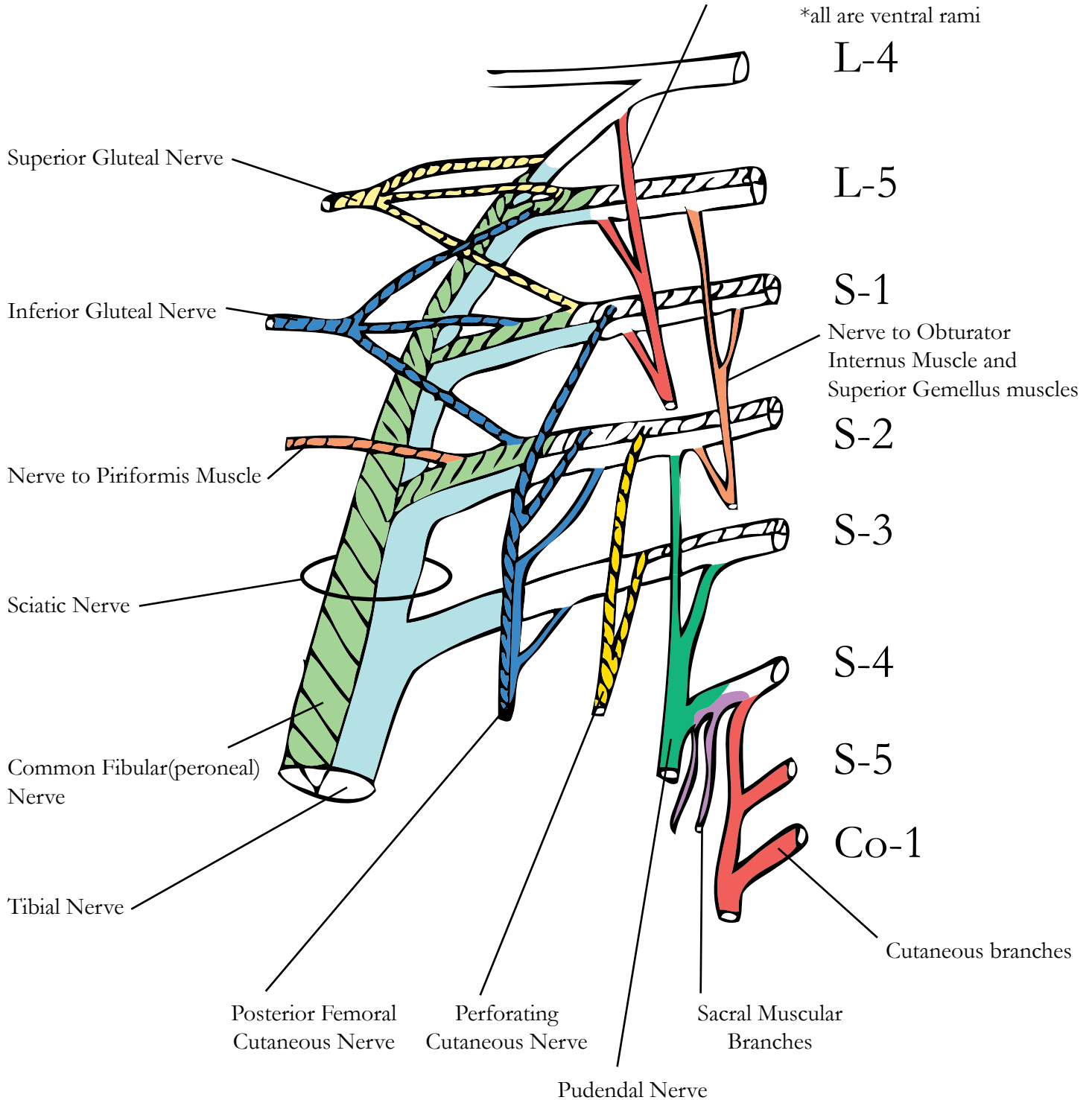
- Rami L-1 through L-3 with contributions from ventral rami of T-12 and L-4

- lies within the psoas major muscle just anterior to transverse processes of vertebral bodies

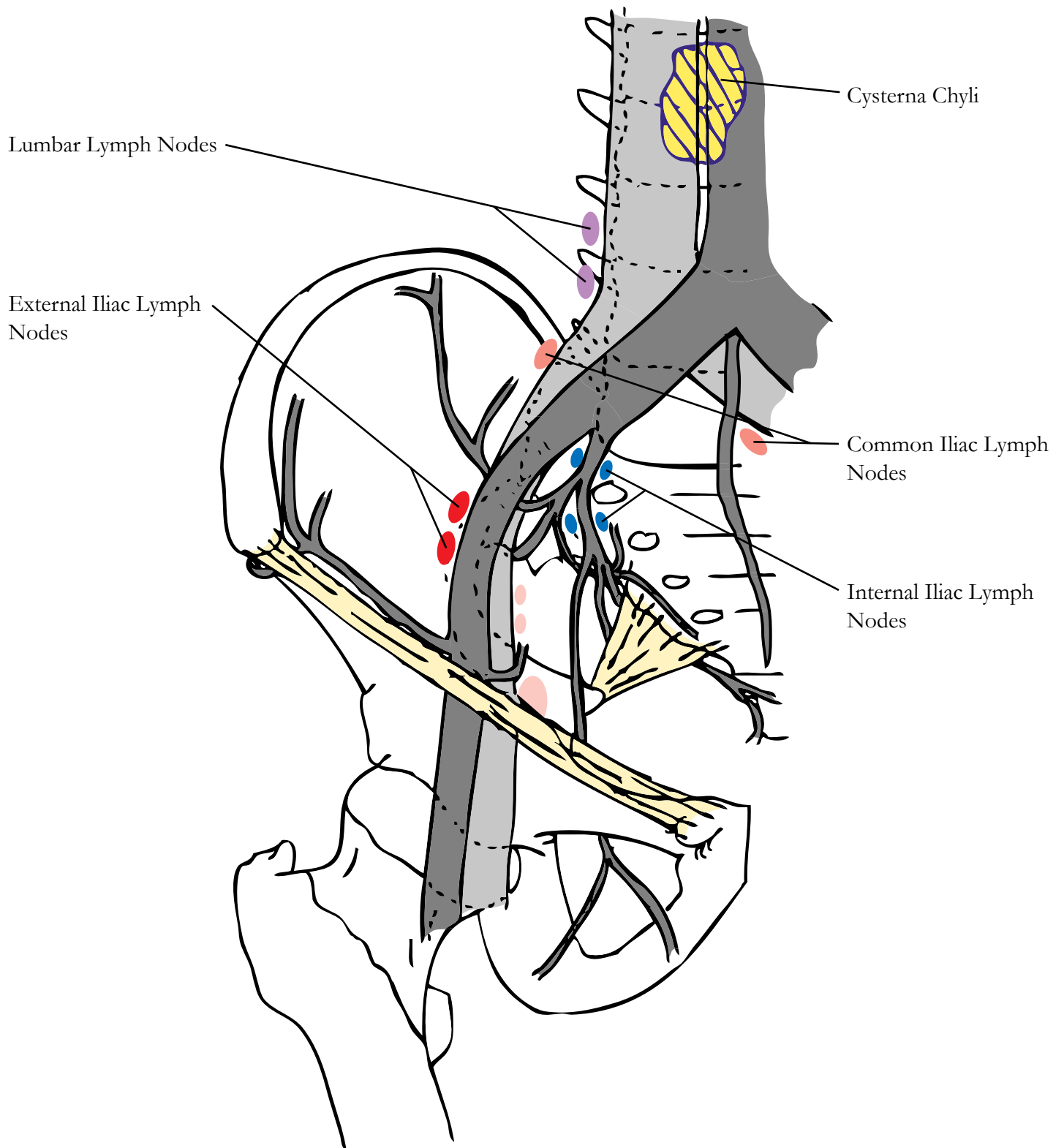
# Sacrococcygeal Plexus

Nerve to Quadratus Femoris  
and Inferior Gemellus Muscles

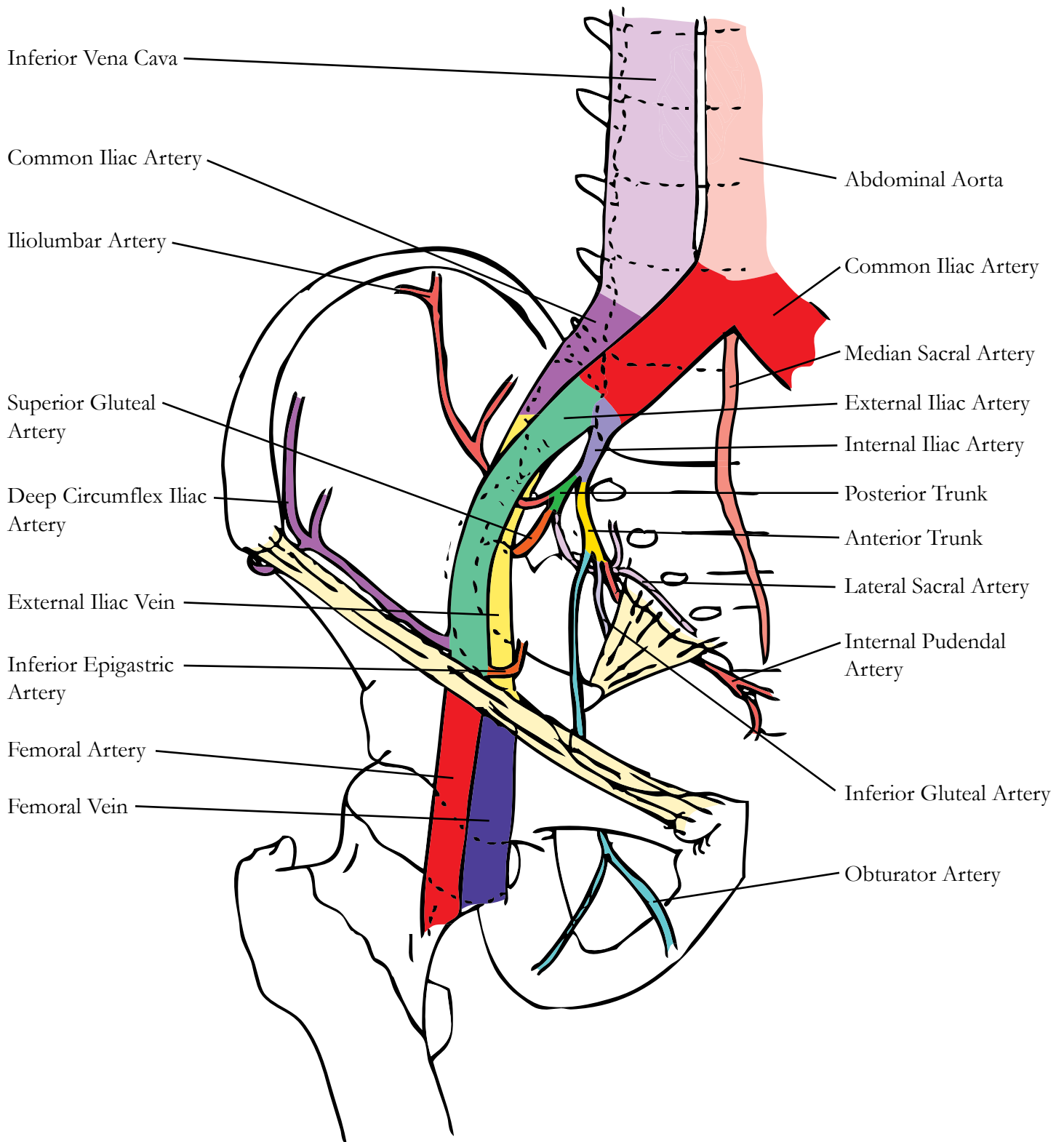
\*all are ventral rami



# Pelvic Lymph - Anterior View

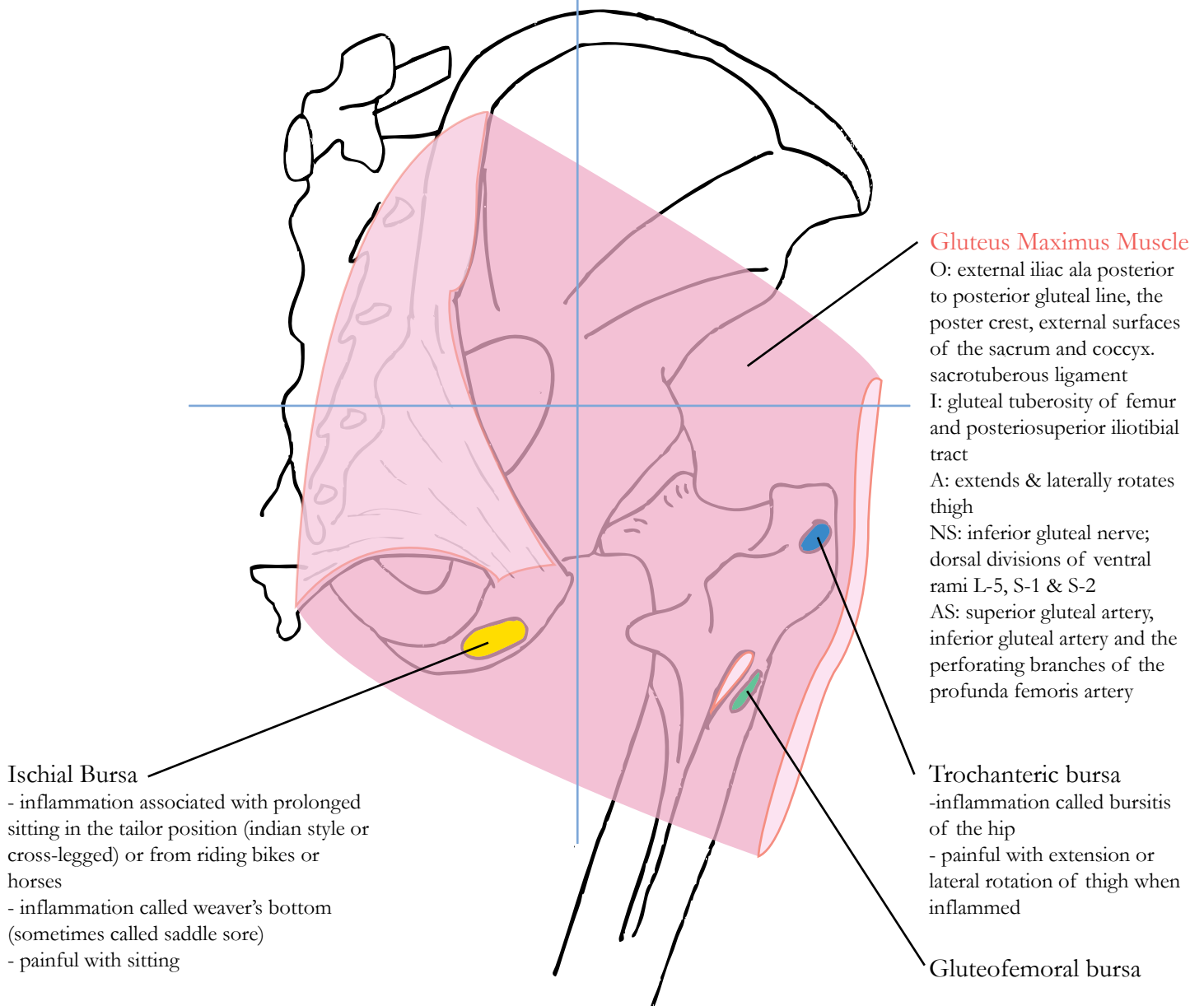


# Pelvic Vessels - Anterior View

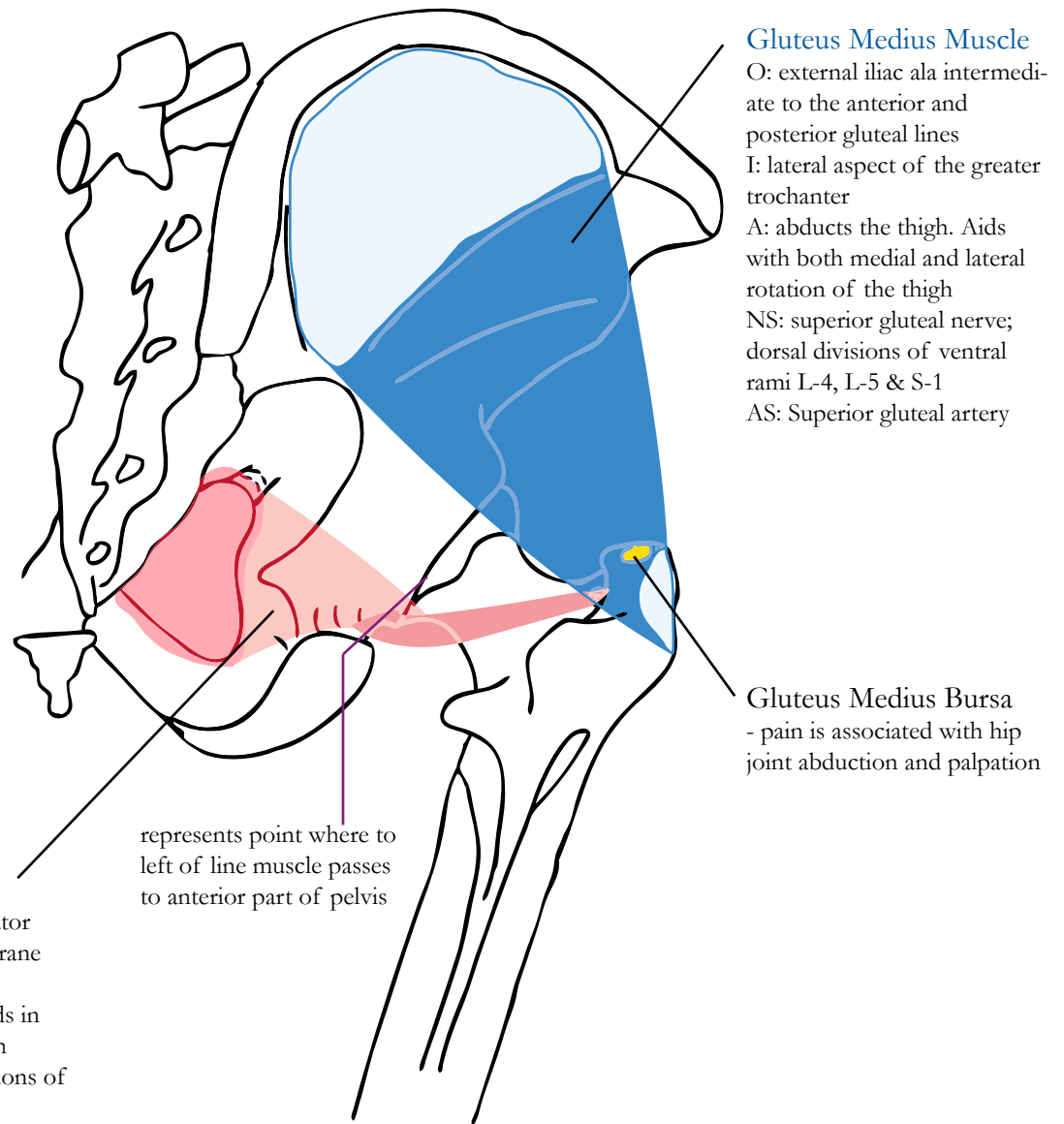


# Gluteal Region - Posterior View

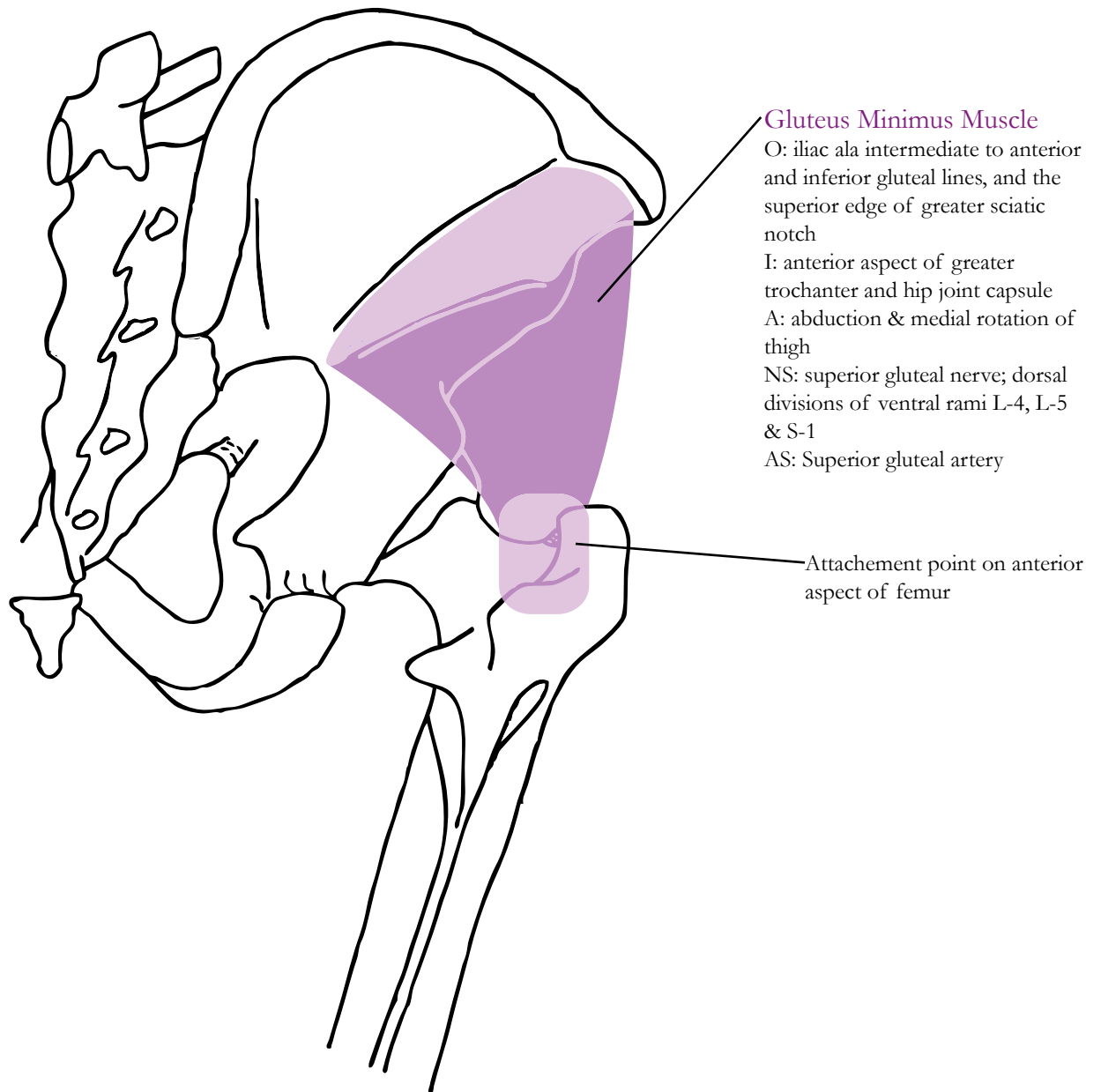
Quadrant for intramuscular Gluteal injections  
- injections here to miss major neurovascular structures of this region, especially the Sciatic nerve



# Gluteal Region - Posterior View



# Gluteal Region - Posterior View



# Gluteal Region

## Posterior View

### Piriformis Muscle

- O: pelvic surface of the sacrum (S-2, S-3, S-4)  
 I: superior aspect of the greater trochanter  
 - exits pelvis via greater sciatic foramen  
 A: lateral rotation of the thigh; assists in abduction and extension of the thigh  
 NS: **dorsal division** of S-2 ventral ramus (nerve to piriformis muscle)  
 AS: superior and inferior gluteal arteries

### Superior Gemellus Muscle

- O: ischial spine and superior edge of lesser sciatic notch  
 I: anterior fossa (unnamed)  
 A: lateral rotation of the thigh  
 NS: nerve to obturator internus & superior gemellus muscles  
 AS: inferior gluteal artery

### Inferior Gemellus Muscle

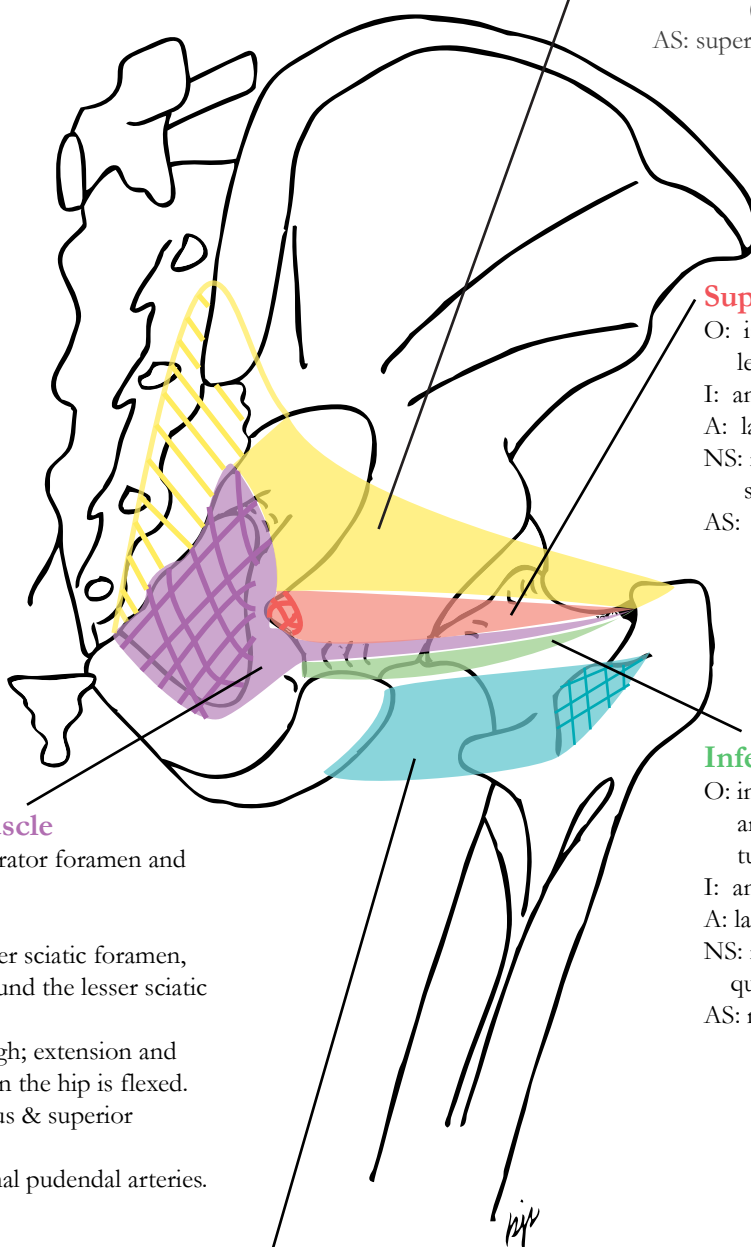
- O: inferior margin of lesser sciatic notch and superior border of ischial tuberosity  
 I: anterior fossa (unnamed)  
 A: lateral rotation of the thigh  
 NS: nerve to inferior gemellus & quadratus femoris muscles  
 AS: medial femoral circumflex artery

### Obturator Internus Muscle

- O: pelvic surfaces of the obturator foramen and obturator membrane  
 I: anterior fossa (unnamed)  
 - exit the pelvis via the lesser sciatic foramen, then angles anteriorly around the lesser sciatic notch.  
 A: external rotation of the thigh; extension and abduction of the thigh when the hip is flexed.  
 NS: nerve to obturator internus & superior gemellus muscles  
 AS: superior gluteal and internal pudendal arteries.

### Quadratus Femoris Muscle

- O: external border of the ischial tuberosity  
 I: quadrate tubercle of the femur  
 A: lateral rotation of the thigh  
 NS: nerve to inferior gemellus & quadratus femoris muscles  
 AS: medial femoral circumflex artery

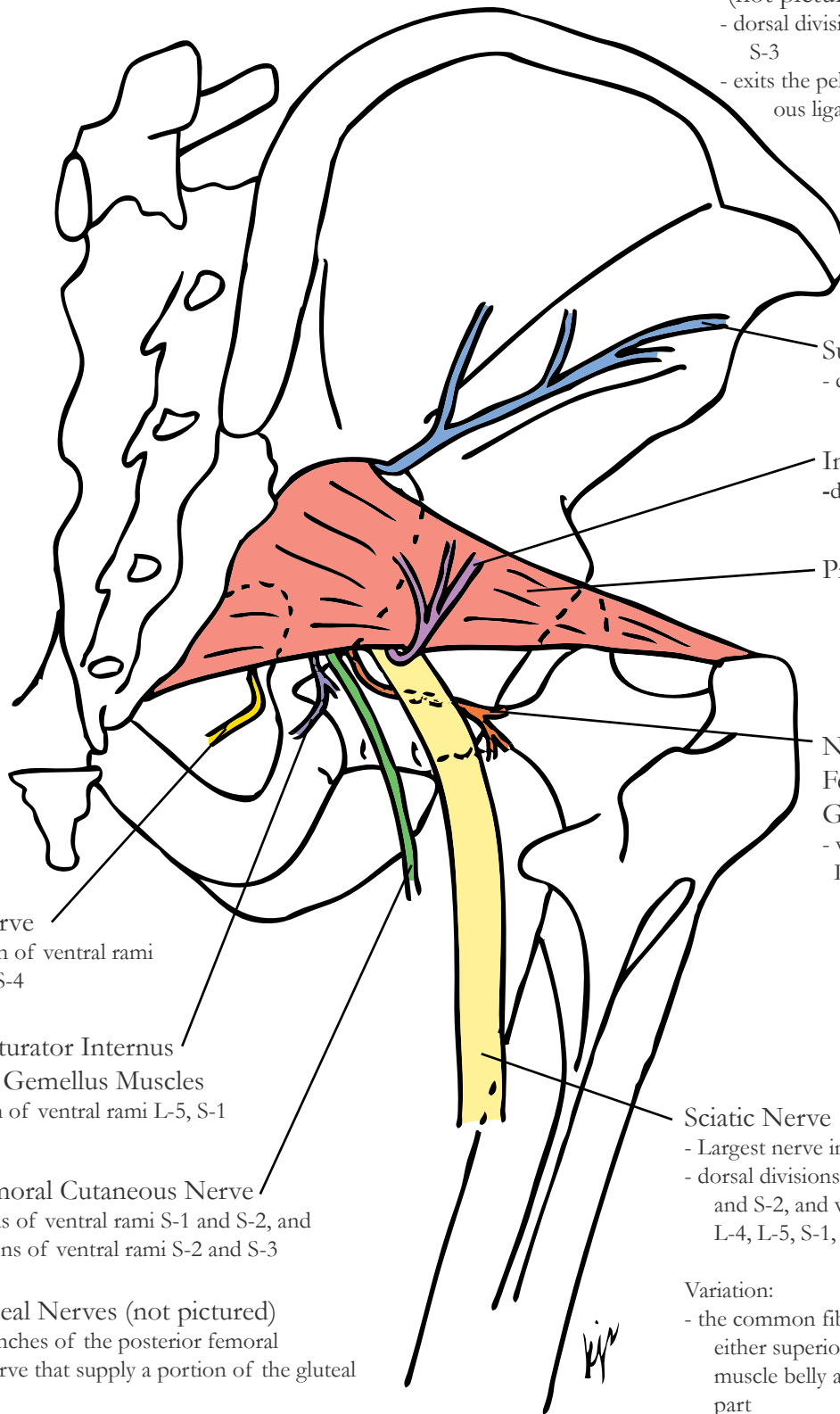


# Gluteal Region - Nerves

## Posterior View

Perforating Cutaneous Nerve  
(not pictured)

- dorsal divisions of ventral rami S-2 and S-3
- exits the pelvis by piercing the sacrotuberous ligament, usually near the sacrum
- refer to picture page 17



Superior Gluteal Nerve  
- dorsal divisions of ventral rami L-4, L-5 and S-1

Inferior Gluteal Nerve  
-dorsal division of ventral rami L-5, S-1, and S-2

Piriformis Muscle

Nerve to Quadratus Femoris and Inferior Gemellus Muscles  
- ventral divisions of ventral rami L-4, L-5 and S-1

Pudendal Nerve  
- ventral division of ventral rami S-2, S-3, and S-4

Nerve to Obturator Internus and Superior Gemellus Muscles  
- ventral division of ventral rami L-5, S-1 and S-2

Posterior Femoral Cutaneous Nerve  
- dorsal divisions of ventral rami S-1 and S-2, and ventral divisions of ventral rami S-2 and S-3

Inferior Cluneal Nerves (not pictured)  
- cutaneous branches of the posterior femoral cutaneous nerve that supply a portion of the gluteal region skin  
- arise near the proximal end and pass along the deep surface of the gluteus maximus muscle, then pass around its inferior edge to the skin.

Sciatic Nerve

- Largest nerve in the body
- dorsal divisions of ventral rami L-4, L-5, S-1 and S-2, and ventral divisions of ventral rami L-4, L-5, S-1, S-2 and S-3

Variation:

- the common fibular part may exit the pelvis either superior to or through the piriformis muscle belly and the course with the tibial part
- when this occurs, the sciatic nerve has split into its component parts already

# Gluteal Region - Arteries

## Posterior View

