

GLUTEAL REGION

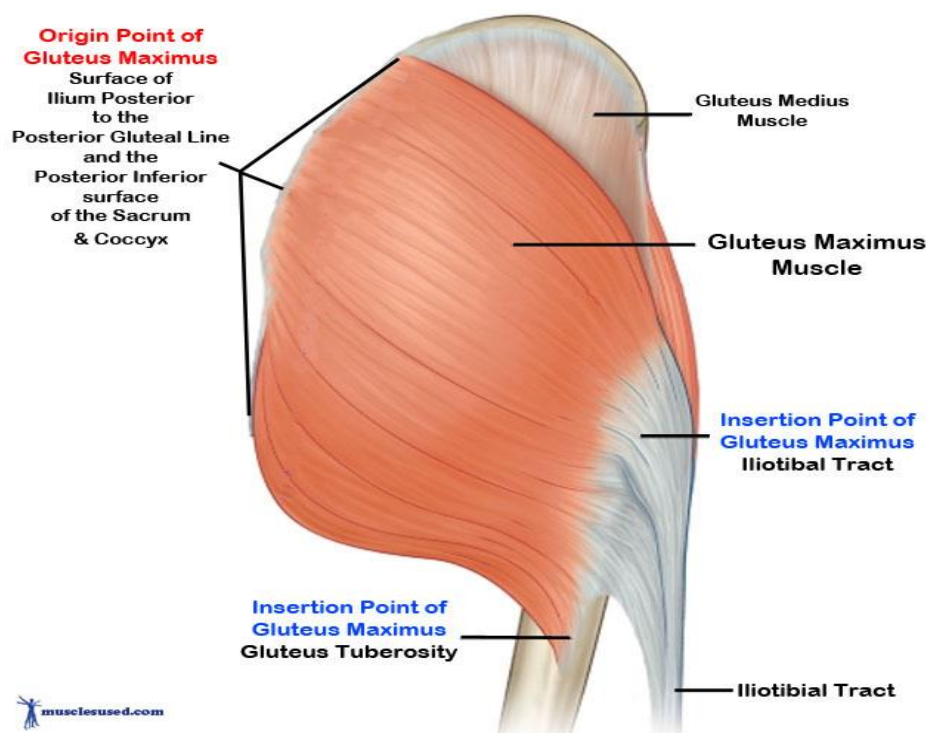
GLUTEUS MAXIMUS MUSCLE - ORIGIN, INSERTION, NERVE SUPPLY AND ACTIONS.(SE)

Origin:

Outer slope of dorsal segment of iliac crest

Area of ilium posterior to the posterior gluteal line and back of sacrum and coccyx.

Sacrotuberous ligament



Insertion:

Deep fibres of lower part - gluteal tuberosity

Superficial and deep fibres of upper part - iliotibial tract

Nerve supply:

Inferior gluteal nerve (L5, S1 and S2)

Actions:

Chief extensor of hip during running and climbing upstairs

Plays a very important role in rising from sitting position and maintaining erect posture

PIRIFORMIS MUSCLE (SE)

Lies below gluteus medius

Origin:

Pelvic surface of middle three pieces of sacrum, by three digitations

Sacroiliac joint

Sacrotuberous ligament

Insertion:

Apex of greater trochanter of femur

Nerve supply:

Ventral rami of S1, S2

Action:

Lateral rotator of thigh at hip joint

Importance

Piriformis is the key muscle of the gluteal region.

Superior gluteal vessels and nerve emerge from its upper border.

Sciatic nerve, inferior gluteal vessels and nerve and other structures emerge from the lower border of piriformis.

GLUTEUS MAXIMUS MUSCLE (SA)

Origin:

Gluteal surface of ilium behind posterior gluteal line

Dorsal surface of sacrum and ilium

Sacrotuberous ligament

Insertion:

Iliotibial tract

gluteal tuberosity

Nerve supply:

Inferior gluteal nerve

Action:

Chief extensor of hip joint

muscle	origin	insertion	Nerve supply	action
Gluteus medius	Gluteal surface of ilium between anterior and posterior gluteal lines Gluteal aponeurosis	Lateral surface of greater trochanter	Superior gluteal nerve (L4,L5,S1)	Main abductor of hip joint
Gluteus minimus	Gluteal surface of ilium between anterior and inferior gluteal lines	Anterior surface of greater trochanter	inferior gluteal nerve (L4,L5,S1)	abductor of hip joint

STRUCTURES UNDER COVER OF GLUTEUS MAXIMUS(SA)

From Superficial to deep the structures are -

Gluteus medius and minimus

Piriformis muscle

Structures above the piriformis-

superior gluteal vessels and nerve,

Structures below the piriformis-

inferior gluteal vessels and nerve, sciatic nerve, posterior cutaneous nerve of thigh

Tendon of obturator internus accompanied by superior and inferior gemelli, pudendal nerve and vessels.

NAME GLUTEI MUSCLES AND THEIR NERVE SUPPLY (SA)

Gluteus maximus	Inferior gluteal nerve	L5,S1,S2
Gluteus Medius	Superior Gluteal Nerve	L4,L5,S1
Gluteus minimus	Superior Gluteal Nerve	L4,L5,S1

GAMELLI MUSCLES (SA)

muscle	origin	insertion	Nerve supply	action
Gemellus superior	*Posterior surface of ischial spine *upper part of lesser sciatic notch	Trochanteric fossa	Nerve to obturator internus (L5,S1,S2)	Lateral rotator of thigh at hip joint
Gemellus inferior	*Upper part of ischial tuberosity *lower part of lesser sciatic notch	Trochanteric fossa	Nerve to quadratus femoris (L4,L5,S1)	Lateral rotator of thigh at hip joint

NAME MUSCLES SUPPLIED BY SUPERIOR GLUTEAL NERVE AND ITS ACTIONS (SA)

<i>Gluteus medius</i>	Abductor of hip joint
<i>Gluteus minimus</i>	Abductor of hip joint
Tensor fascia lata	Supports the femur on tibia during standing