JOMOT

thigh & Gluteal region



ANTERIOR FASCIAL COMPARTMENT OF THE THIGH

Muscle	Origin	Insertion	Nerve Supply	Action
Sartorius	Anterior superior iliac spine	Upper medial surface of shaft of tibia	Femoral nerve	→ Flexes, abducts, laterally rotates thigh at hip joint. → Flexes and medially rotates leg at knee joint.
Pectineus	Superior ramus of pubis	Upper end of linea asperaof shaft of femur	Femoral nerve	Flexes and adducts thigh at hip joint
Psoas Major	Transverse processes, bodies, and intervertebr al discs of the 12th thoracic and five lumbar vertebrae	Lesser trochanter of femur	Lumbar plexus	it Flexes thigh on trunk; if thigh is fixed (The insertion is fixed while the origin is moving) It flexes the trunk on thigh as in sitting up from
iliacus	lliac fossa of hip bone	Lesser trochanter of femur	Femoral nerve	lying down. sit-up' exercise

Muscle	Origin	Insertion	Nerve Supply	Action
The quadriceps femoris muscle : 1- The rectus femoris	Originates by two heads Straight head from anterior inferior iliac spine Reflected head from ilium above acetabulum	patella and, via the ligamentum patellae, to the tibial tuberosity (the real insertion)	femoral nerve	Extends the leg at knee joint; flexes thigh at hip joint (only
2- The vastus intermedius 3- The vastus lateralis	Anterior and lateral surfaces of shaft of femur Upper end and shaft of			the rectus femoris head).
4- The vastus medialis	femur (linear origin)			

MEDIAL FASCIAL COMPARTMENT OF THE THIGH

Muscle	Origin	Insertion	Nerve Supply	Action
Adductor longus	body of pubis, medial to pubic tubercle	Posterior surface of shaft of femur (linea aspera)	Obturator nerve	Adducts thigh at hip joint
Adductor brevis	Inferior ramus of pubis	Posterior surface of shaft of femur (linea aspera)	Obturator nerve	Adducts thigh at hip joint
Adductor magnus (pubic part)	Ischio-pubic ramus	mainly linea aspera, gluteal tuberosity and medial supracondylar line	Obturator nerve	Adducts thigh at hip joint
Gracilis	inferior ramus of pubis, ramus of ischium	Upper part of shaft of tibia on medial surface (SGS) area	Obturator nerve	→Adducts thigh at hip joint → flexes leg at knee joint
Obturator externus	Outer surface of obturator membrane and pubic and ischial rami	Medial surface of greater trochanter	Obturator nerve	Laterally rotates thigh at hip joint

POSTERIOR FASCIAL COMPARTMENT OF THE THIGH

Muscle	Origin	Insertion	Nerve Supply	Action	
Biceps femoris	two heads 1-Long head: ischial tuberosity 2-Short head: linea aspera, lateral supracondylar ridge of shaft of femur	Head of fibula	Long head: tibial portion of sciatic nerve Short head: common peroneal portion of sciatic nerve	→Flexes and laterally rotates leg at knee joint →long head also extends thigh at hip joint	
Semitendinosus	Ischial tuberosity	Upper part of medial surface of shaft of tibia (SGS area)	Tibial portion of sciatic nerve	→Flexes and medially rotates leg at knee joint →Extends thigh at hip joint	
Semimembranosus	Ischial tuberosity	Medial condyle of tibia	Tibial portion of sciatic nerve	→Flexes and medially rotates leg at knee joint → extends thigh at hip joint	
Adductor magnus (hamstring part or ischial part)	Ischial tuberosity	Adductor tubercle of femur	Tibial portion of sciatic nerve	Extends thigh at hip joint	

MUSCLES OF THE GLUTEAL REGION

Muscle	Origin	Insertion	Nerve Supply	Action
Gluteus maximus	1-Ilium (area behind the posterior gluteal line) 2 -Back of sacrum and coccyx 3- Back of sacrotuberous ligament	1- The superficial three -fourths are inserted into the iliotibial tract 2-The lower deep part is inserted into the gluteal tuberosity of femur	Inferior gluteal nerve, L5,S1,2	→ Extends thigh, some lateral rotation (main extensor of the hip joint) → Supports the Extended knee joint through lliotibial tract → Plays an important role in climbing cycling and upstairs
Gluteus medius	llium	Greater trochanter of femur	Superior gluteal nerve	→ Abduction (main abductor of the hip joint) → Medial rotation(anterior fibers) →Both muscle contract reflex on each side alternatively during walking to prevent tilting of the pelvis to the unsupported side

Muscle	Origin	Insertion	Nerve Supply	Action
Gluteus minimus	llium	Greater trochanter of femur	Superior gluteal nerve	→ Abduction (main abductor of the hip joint) → Medial rotation(anteri or fibers) → Both muscle contract reflex on each side alternatively during walking to prevent tilting of the pelvis to the unsupported side
Short Lateral rotator muscles 1-Piriformis 2-Superior gemellus 3-Obturator internus 4-Inferiorgemellus 5-Quadratus femoris 6-Obturator externus			Sacral Plexus	lateral rotation of the thigh at hip joint

Muscle	Origin	Insertion	Nerve Supply	Action
Tensor fasciae latae	lliac crest	lliotibial tract	Superior gluteal nerve L4,5,S1	Assist gluteus maximus in extending the knee joint

ثمَّ تأتي إرادة الله فتتيسر مُعسراتك وتتمهدُ الطَّرق , وتُفتح مغاليقها , وتُهيأ أسبابُها وتتجمل لتأتيكَ مصحوبةً بعطائه ؛ فلا يغرنّك تشتتها الآن , ولا تحزن لاستحالتها فوالله لو كان بينك وبينها عوامق البحار وشواهق الجبال وكانت خيرًا لك لأتى بها الله"