

Kalça-Dizin fonksiyonel anatomisi, nöroanatomisi, alt ekstremité dolaşımı



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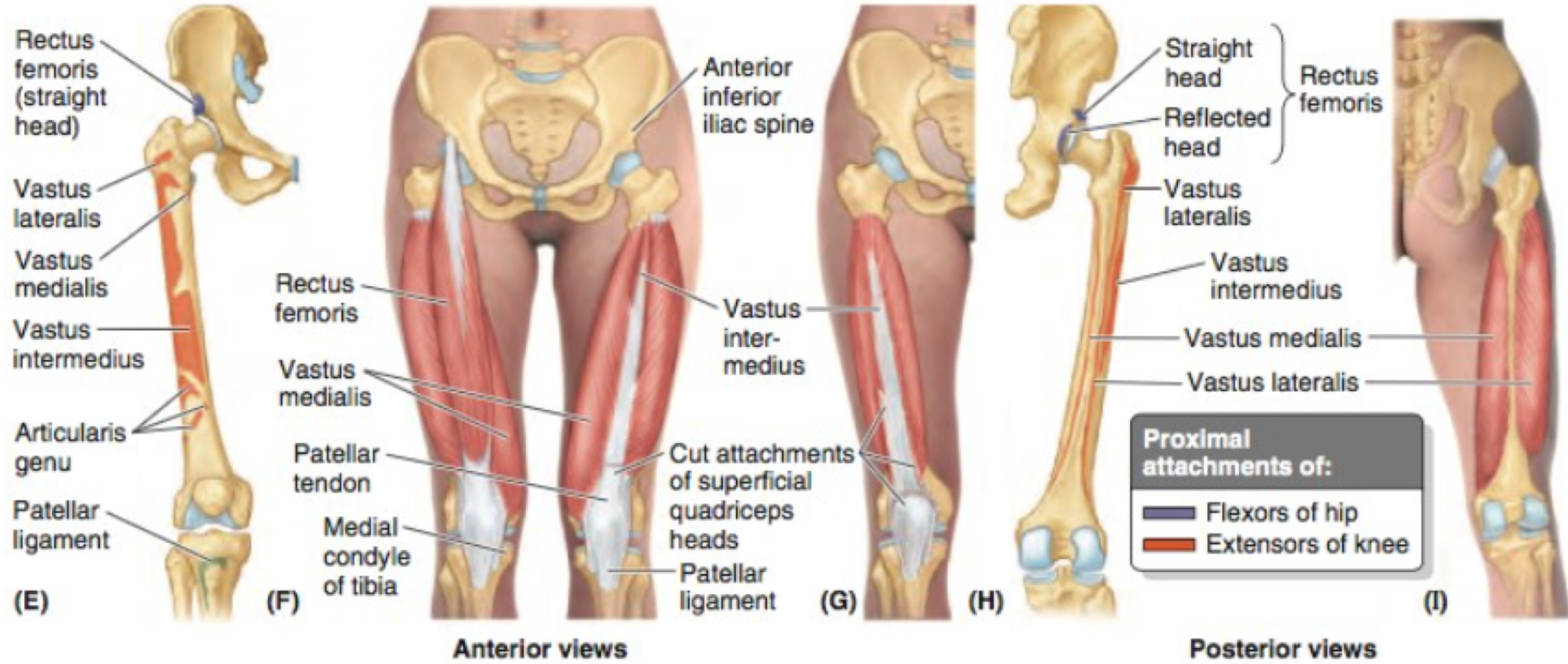
TF soket için prostetik yönden önemli Kaslar, proksimal ve distal tutunma yerleri, inervasyonları ve ana fonksiyonları

Muscle	Proximal Attachment	Distal Attachment	Innervation	Main Action(s)
Iliopsoas Psoas major	Sides of T12–L5 vertebrae and discs between them; transverse processes of all lumbar vertebrae	Lesser trochanter of femur	Anterior rami of lumbar nerves (L1, L2, L3)	Act conjointly in flexing thigh at hip joint and in stabilizing this joint ^c
Psoas minor	Sides of T12–L1 vertebrae and intervertebral discs	Pectineal line, iliopectineal eminence via iliopectineal arch	Anterior rami of lumbar nerves (L1, L2)	
Iliacus	Iliac crest, iliac fossa, ala of sacrum, and anterior sacro-iliac ligaments	Tendon of psoas major, lesser trochanter, and femur distal to it	Femoral nerve (L2, L3)	
Pectineus	Superior ramus of pubis	Pectineal line of femur, just inferior to lesser trochanter	Femoral nerve (L2, L3); may receive a branch from obturator nerve	Adducts and flexes thigh; assists with medial rotation of thigh
Sartorius	Anterior superior iliac spine and superior part of notch inferior to it	Superior part of medial surface of tibia	Femoral nerve (L2, L3)	Flexes, abducts, and later-ally rotates thigh at hip joint; flexes leg at knee joint, (medially rotating leg when knee is flexed)

TF soket için prostetik yönden önemli
Kalça ve diz eklem hareketlerinden sorumlu uyluk kası, proksimal ve distal tutunma yerleri, inervasyonları ve ana fonksiyonları

Muscle	Proximal Attachment	Distal Attachment	Innervation	Main Action
Quadriceps femoris	Composed of 4 muscles: see below	Composed of 4 muscles: see below	Composed of 4 muscles: see below	Composed of 4 muscles: see below
Rectus femoris	Anterior inferior iliac spine and ilium superior to acetabulum	Via common tendinous (quadriceps tendon) and independent attachments to base of patella; indirectly via patellar ligament to tibial tuberosity; medial and lateral vasti also attach to tibia and patella via aponeuroses (medial and lateral patellar retinacula)	Femoral nerve (L2, L3, L4)	Extend leg at knee joint; rectus femoris also steadies hip joint and helps iliopsoas flex thigh
Vastus lateralis	Greater trochanter and lateral lip of linea aspera of femur			
Vastus medialis	Intertrochanteric line and medial lip of linea aspera of femur			
Vastus intermedius	Anterior and lateral surfaces of shaft of femur			

TF socket için prostetik yönden önemli
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TF soket için prostetik yönden önemli Kalçanın adduksiyon hareketinden sorumlu uyluk kasları

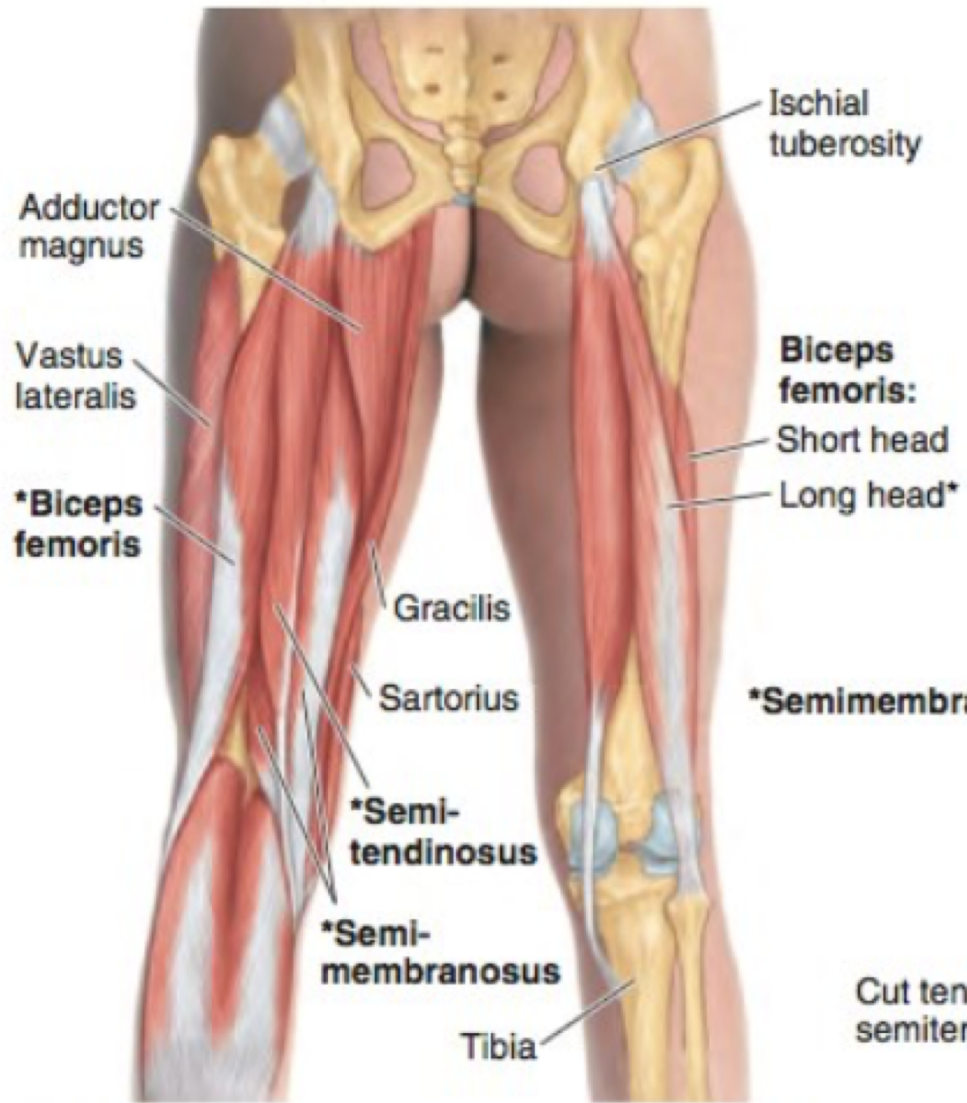
Muscle	Proximal Attachment	Distal Attachment	Innervation	Main Action
Adductor longus	Body of pubis inferior to pubic crest	Middle third of linea aspera of femur	Obturator nerve, branch of, anterior division (L2, L3, L4)	Adducts thigh
Adductor brevis	Body and inferior ramus of pubis	Pectineal line and proximal part of linea aspera of femur		Adducts thigh; to some extent flexes it
Adductor magnus	Adductor part: inferior ramus of pubis, ramus of ischium Hamstrings part: ischial tuberosity	Adductor part: gluteal tuberosity, linea aspera, medial supracondylar line Hamstring part: adductor tubercle of femur	Adductor part: obturator nerve (L2, L3, L4), branches of posterior division Hamstring part: tibial part of sciatic nerve (L4)	Adducts thigh Adductor part: flexes thigh Hamstrings part: extends thigh
Gracilis	Body and inferior ramus of pubis	Superior part of medial surface of tibia.	Obturator nerve (L2, L3)	Adducts thigh; flexes leg; helps rotate leg medially
Obturator externus	Margins of obturator foramen and obturator membrane	Trochanteric fossa of femur	Obturator nerve (L3, L4)	Laterally rotates thigh; steadies head of femur in acetabulum

TF soket için prostetik yönden önemli Kalçanın rotasyonel hareketlerinden sorumlu pelvik kaslar

Muscle	Proximal Attachment	Distal Attachment	Innervation	Main Action
Gluteus maximus	Ilium posterior to posterior gluteal line; dorsal surface of sacrum and coccyx; sacrotuberous ligament	Most fibers end in iliotibial tract, which inserts into lateral condyle of tibia; some fibers insert on gluteal tuberosity	Inferior gluteal nerve (L5, S1, S2)	Extends thigh (especially from flexed position) and assists in its lateral rotation; steadies thigh and assists in rising from sitting position
Gluteus medius	External surface of ilium between anterior and posterior gluteal lines	Lateral surface of greater trochanter of femur	Superior gluteal nerve (L5, S1)	Abduct and medially rotate thigh; keep pelvis level when ipsilateral limb is weight-bearing and advance opposite (unsupported) side during its swing phase
Gluteus minimus	External surface of ilium between anterior and inferior gluteal lines	Anterior surface of greater trochanter of femur		
Tensor fasciae latae	Anterior superior iliac spine; anterior part of iliac crest	Iliotibial tract, which attaches to lateral condyle of tibia		
Piriformis	Anterior surface of sacrum; sacrotuberous ligament	Superior border of greater trochanter of femur	Branches of anterior rami of S1, S2	Laterally rotate extended thigh and abduct flexed thigh; steady femoral head in acetabulum
Obturator internus	Pelvic surface of obturator membrane and surrounding bones	Medial surface of greater trochanter (trochanteric fossa) of femur ^b	Nerve to obturator internus (L5, S1)	
Superior and inferior gemelli	Superior: ischial spine Inferior: ischial tuberosity	Medial surface of greater trochanter (trochanteric fossa) of femur ^b	Superior gemellus: same nerve supply as obturator internus Inferior gemellus: same nerve supply as quadratus femoris	
Quadratus femoris	Lateral border of ischial tuberosity	Quadratus tubercle on intertrochanteric crest of femur and area inferior to it	Nerve to quadratus femoris (L5, S1)	

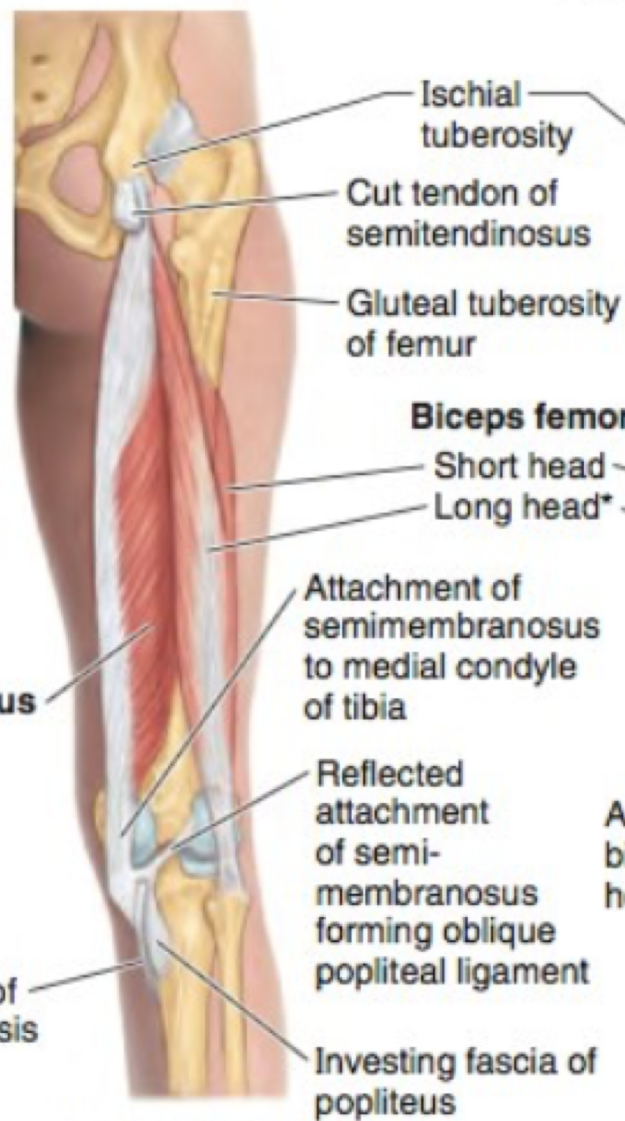
TF soket için prostetik yönden önemli Kalçanın ekstansiyon ve dizin fleksiyon hareketlerinden sorumlu uyluk kasları

Muscle	Proximal Attachment	Distal Attachment	Innervation	Main Action
Semitendinosus	Ischial tuberosity	Medial surface of superior part of tibia	Tibial division of sciatic nerve part of tibia (L5, S1, S2)	Extend thigh; flex leg and rotate it medially when knee is flexed; when thigh and leg are flexed, these muscles can extend trunk
Semimembranosus		Posterior part of medial condyle of tibia; reflected attachment forms oblique popliteal ligament (to lateral femoral condyle)		
Biceps femoris	Long head: ischial tuberosity Short head: linea aspera and lateral supracondylar line of femur	Lateral side of head of fibula; tendon is split at this site by fibular collateral ligament of knee	Long head: tibial division of sciatic nerve (L5, S1, S2) Short head: common fibular division of sciatic nerve (L5, S1, S2)	Flexes leg and rotates it laterally when knee is flexed; extends thigh (e.g., accelerating mass during first step of gait).

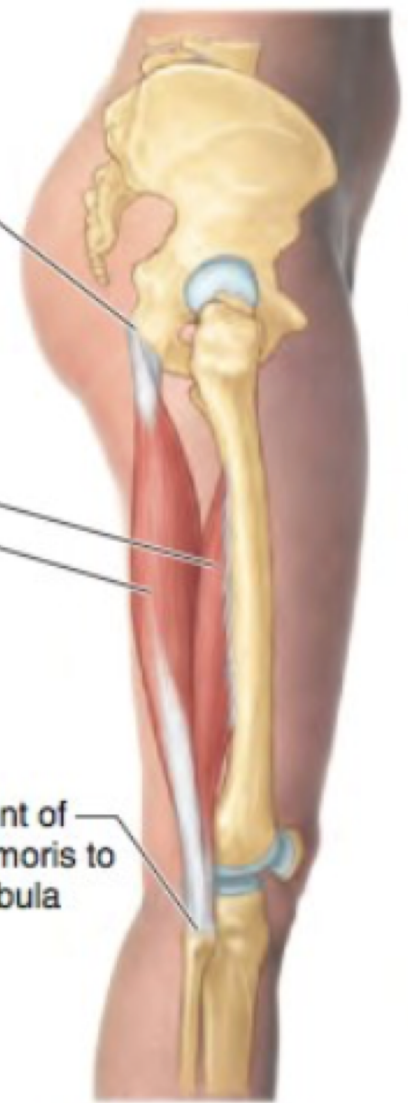


(F) Posterior view

*Hamstring muscles



(G) Posterior view



(H) Lateral view