MSS	NER VE	ACTION	ORIGIN	INSERTION
	SUPPLY			
	Ĩ	Muscles of Front of Th	igh	
Sartorius	Femoral n	flexion & <u>medial</u> rotation on <u>knee</u> flexion,abduction & lat. Rotation on <u>Hip</u> (tailor's position = cross leg position).	ASIS	upper part of medial surface of tibia
Iliopsoas	Psoas major: branches from lumbar plexus (L1,2,3). Iliacus: Femoral n	main flexors of the hip joint. they flex thigh on trunk above above they flex trunk on thigh from below	Psoas major : lumbar vertebrae Iliacus: iliac fossa	lesser trochanter of femur
Quadriceps Femoris	FEMORAL NERVE	main extensor of the knee joint Rectus femoris helps flexion of hip joint as its origin is above the hip joint	1-Rectus Femoris Straight hea d :AIIS Reflected head: groove above acetabulum 2-Vastus Lateralis +3-Vastus medialis •intertrochanteric line •Linea aspera 4-Vastus intermedius upper ¾ of anterior & lateral surface of shaft of femur	quadriceps tendon into base & margins of patella then through ligamentum patellaeinto tibial tuberosity
	I	Medial side of the thigh	Share of Terriar	<u> </u>
Pectineus	femoral n	Adduction & flexion of thigh at hip	superior pubic ramus.	In line extending from lesser trochanter to linea aspera.
Adductor longus	anterior division of obturator n	adduction & med. rotation of thigh	Front of pubic bone	Linea aspera
Gracilis		Adduction of thigh Flexion of <u>knee</u> & medial rotation of <u>leg</u>	pubic bone.	upper part of medial surface of tibia between sartorius (ant.) & semitendinosus (post.) (SGS)
Adductor brevis	anterior & posterior division of	adduction & med. rotation of thigh	from pubic bone.	into line extending from lesser trochanter to upper

	obturator n			part of linea aspera
Adductor magnus * main adduction is by the 3 adductors above	Pubic part: posterior division of obturator n •Ischial part: tibial part of sciatic n	Pubic part: adduction & med rotation of thigh Ischial part: extension of thigh N.B. pubic part belongs to adductors while ischial part belongs to hamstrings (muscles of back of thigh	.Pubic part: pubic arch (ischio-pubic ramus *.Ischial part:Ischial tuberosity	Pubic part : gluteal tuberosity & lineaaspera. * Ischial part : adductor tubercle of femur
	30.00.00	Muscles of the gluteal region		L
Gluteus maximus	inferior gluteal nerve	Main extensor of hip. Lat. Rotation of thigh Through its attachment to iliotibial tract, it stabilizes femur on tibia & maintains extension of knee during standing when quadriceps is relaxed	Gluteal surface of ilium •Back of sacrum & coccyx •Back of sacrotuberous ligament	Superficial ¾ into iliotibial tract •Deep ¼ into gluteal tuberosity
Gluteus medius + Gluteus minimis	superior gluteal nerve	Main abductors of thigh Their anterior fibers are medial rotators of thigh Main medial rotators of hip is the Ant. Fibers of Glut.medius& minimis+ tensor fasciae latae	gluteal surface of ilium	G. minimis at anterior surface (front) of greater trochanter of femur and G.medius at the lateral surface
Tensor fasciae latae	ner ve	Through the iliotibial tract→it maintains the <i>extension of the knee</i> & steadies the Femur on the Tibia <i>like Gluteus maximus</i>	anterior 5 cm of outer lip of iliac crest	iliotibial tract (fascia)
Piriformis	ventral rami of S1,2 (sacral plexus)	Main lateral rotators of hip:	front (pelvic surface) of middle 3 pieces of sacrum (S 2,3,4).	upper border of greater trochanter
Obturator internus	nerve to obturator internus	6 <u>lateral</u> rotators of	pelvic surface of obturator membrane & margins of obturator foramen.	greater trochanter of femur
Gemellus superior	(from sacral plexus)	the hip.	upper margin of lesser sciatic notch	blends with upper part of tendon of obturator internus greater trochanter.
Gemellus inferior	N. to quadratus femoris		lower margin of lesser sciatic notch	blends with lower part of tendon of obturator internus greater trochanter.
Quadratus Femoris			Ischial tuberosity	quadrate tubercle in intertrochanteric

				crest
Obturator externus	post division of obturator n		outer margin of obturator foramen & outer surface of obturator membrane	trochanteric fossa of greater trochanter of femur.
	Λ	Auscles of Back of thigh (hamstra	ings)	
Latarel Biceps femoris	Long head: tibial part of sciatic N. •Short head: common peroneal part of sciatic N.	Extension of hip Flexion of knee Lateral rotation of the semiflexed knee plays a role in locking of knee * flexion of knee mainly by the hamstrings	Long head: ischial tuberosity •Short head: linea aspera	styloid process (head) of fibula.
Medial Semitendinosus	tibial part of sciatic N.	Extension of hip joint Flexion of knee joint Medial rotation of semiflexed knee * medial rotation of knee mainly by	with long head of biceps (by common origin) from ischial tuberosity	upper part of medial surface of tibia behind tendons of sartorius & gracilis (SGS)
Medial Semimembranosus		semitendinosus/semimembranosus/popliteus		Groove on back of medial condyle of tibia
Ischial part of adductor magnus		extension of thigh (hip)		adductor tubercle of femur
	Anterio	r compartment of leg/extensors	of ankle G	
T <u>i</u> bialis Anterior		Dorsiflexion inversion of foot	upper 2/3of lat surface of tibia	medial cuneiform & adjacent part of base of 1stmetatarsal bone
Extensor Hallucis Longus		Dorsiflexion extension of big toe	middle 2/4 of ant (medial) surface of fibula	Base of terminal phalanx of big toe.
Extensor digitorum longus		Dorsiflexion extension of lat 4 toes	upper ¾ of ant. (medial) surface of fibula	joined by tendons of extensor digitorum brevis to form extensor expansion 2middle & terminal phalanges of lat. 4 toes
Peroneus Tertius (may be absent)		Dorsiflexion <pre>eversion of foot</pre>	lower ¼ of ant (medial) surface of fibula	base of 5 th metatarsal bone
Extensor Digitorum		Extension of	upper surface of	4 tendons for

Brevis		metatarsophalangeal joint of big	Calcaneus.	medial 4 toes
extensor hallucis brevis: <u>part</u> <u>of E.D.B</u>		toe & extension of all joints of 2 nd , 3 rd , 4 th toes.	upper surface of Calcaneus as it is a slip of E.D.Brevis	proximal phalanx of big toe/both E.H.B and E.D.B join extensor expansion: middle & distal phalanges of 2 nd 3rd& 4 th toes.
	Muscles	of Lateral Compartment of Leg/flexon	rs of ankle G	
Peroneus Longus	Superficial peroneal N	Eversion of foot. Plantar flexion of foot.	Upper 2/3 of the lateral surface of the fibula.	Its tendon passes deep to peroneal retinacula, to be inserted in the base of the 1st metatarsal bone & adjoining part of medial cuneiform bone
Peroneus Brevis		* Peroneus Longus maintains transverse & lat. Longitudinal arches of the foot.	Lower 2/3 of the lateral surface of the fibula.	Its tendon passes deep to peroneal retinacula to end into the tuberosity of the base of the 5th metatarsal bone
Gastrocnemius Plantaris Soleus	Tibial nerve	1) The superficial muscles of the calf are strong plantar flexor of ankle Joint (important in walking & running). 2) During standing, calf muscles stabilize the leg on the foot specially soleus. 3) Gastrocnemius and plantaris are knee flexors. (only when the foot is on the ground). One flexion at a time 4) Contraction of the calf muscles (calf pump) plays an important role in venous return from the lower limb specially the soleus which is known as peripheral venous heart	Origin: has 2 heads 1. medial head: arises from the popliteal surface of femur above the medial condyle. 2. lateral head: arises from lateral surface of lateral femoral condyle. Lower part of the lateral supracondylar line Has a curved origin from: back of the head of fibula. upper 1/4 of post surface of fibula. Tendinous arch between	The 2 heads unite in the middle of the leg to form common tendon called tendocalcaneusthat is attached to the middle part of the posterior surface of calcaneus. Its long tendon fuses with tendocalcaneusor inserts into calcaneus medial to it by strong tendon that joins that of gastrocnemius to form tendocalcaneus which is the thickest & strongest tendon in the body.

Popliteus		knee flexion unlocking the knee (slight medial rotation of the tibia at beginning of flexion of knee)	By a strong rounded tendon from the popliteal groove on the lateral surface of lateral femoral condyle	Its tendon pierces the capsule of the knee joint and gives the fleshy triangular muscle which is attached to the posterior surface of tibia above the soleal line
Flexor Digitorum Longus	Tibial nerve	1)Flexion of the metatarsophalangeal and interphalangeal joints of the lateral 4 toes. 2) Assists in plantar flexion of the foot. 3) Supports longitudinal arch of foot (mainly the medial). 4) Weak invertor of the foot	Posterior surface of tibia	Its tendon passes deep to flexor retinaculum to the sole of the foot where it divides into 4 slips which are inserted into the distal phalanges of the lateral 4 toes while F.Hallucis.L is inserted into the base of the
Flexor Hallucis Longus		 Flexion of all joints of big toe. Assists in plantar flexion of the foot. Inversion of the foot. Supports the medial longitudinal arch of foot 	posterior surface of the fibula	distal phalanx of the big toe.
Tibialis Posterior		It is a strong invertorand powerful plantar flexor of the foot. 2) It supports the medial longitudinal and transverse arches of the foot.	posterior surface of tibia and fibula	its tendon passes deep to the flexor retinaculum & enters the sole of the foot where it divides into 2 parts: a) larger medial part is attached to the tuberosity of navicular bone & medial cuneiform bone. b) smaller lateral part is attached by many slips to all tarsal bones except talus & bases of 2nd, 3rd & 4th metatarsal bones
17 7 7 7		Sole of Foot	T	Γ
Abductor halluces /medial Flexor digitorum brevis/middle	Med. plantar N.	Abduction of big toe. flexion of lat.4 toes (metatarso-phalyngeal& prox. Inter-phalyngeal joints).	First Layer (3 Short muscles)	
Abductor digiti minimi/latral	Lat. plantar N.	Abduction little toe.		
Flexor digitorum	Lat. plantar	Pulls the tendon to help in the	Second Layer	* Flexor Digitorum

accessories / quadratus plantea	N. Except the	flexion of the lat. 4 toes	(2 Long tendons & 2 short muscles) Tendons: Flexor DigitorumLongus / Flexor halluces longus	Longus tendon is the origin of lumbricals and the insertion of quadratus plantea * lumbricals insertion is extensor expansion of lat.4 toes
4 Lumbrical muscles	1 st lumbrical by med. plantar n	They flex metatarsophalyngeal joints & extend interphalyngeal joints of lat. 4 toes		
Flexor halluces brevis	Med.plantar N.	Flexion of the big toe	Third Layer	
Flexor digiti minimi	Lat.plantar N.	Flexion of the little toe	(3 Short	
Adductor hallucis		Adduction of the big toe its transverse head helps in maintaining transverse arch of foot	muscles)	Has 2 heads; oblique & transverse heads
3 plantar interosseii P1 → acts on 3^{rd} toe. P2 → acts on 4^{th} toe. P3 → acts on little toe	Lat.plantar N.	Adduction of the (Pad) lat. 3 toes. + Flexion of metatarsophalangeal Js. & extension of interphalangeal Js. of the lat. 4 toes.	(2 Long mm continues of standard mass.) tendons continues of expension of short muscles) tendons: Tibialis Posterior/ Peroneus Longus of expension	Unipennate muscles which arise from metatarsal bone of corresponding toe & are inserted in extensor expansion of lat. 3 toes
4 dorsal interosseii D1 \rightarrow acts on 2^{nd} toe. D2 \rightarrow acts on 2^{nd} toe. D3 \rightarrow acts on 3^{rd} toe. D4 \rightarrow acts on 4^{th} toe		abduct the (Dab) middle 3 toes. + Flexion of metatarsophalangeal Js. & extension of interphalangeal Js. of the lat. 4 toes.		Bipennate muscles. Each arises from 2 adjacent metatarsal bones & are inserted in extensor expansion of middle 3 toes.

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