POSTERIOR
COMPARTMENT OF
LEG
Cross Section of Leg

Anterior Intermuscular Septa
Posterior Intermuscular Septa
Interosseous Membrane
Cutaneous Innervation

- Posterior Cutaneous N. of Thigh (S 1,2,3)
- Lateral Cutaneous N. of Calf (L 4,5 ;S1)
- Sural Nerve (L5; S 1,2)
- Peroneal Communicating Nerve (L5; S1,2)
- Saphenous Nerve (L3,4)
- Medial Calcaneal Nerve (S1,2)
Superficial vessels of leg

- Great Saphenous Vein
- Popliteal Vein
- Popliteal Lymph Nodes
- Small Saphenous Vein
Deep Fascia of Posterior Compartment
Boundaries and Sub-divisions
Flexor Retinaculum
Muscles of Posterior Compartment

I. Superficial Muscles

a) Gastrocnemius
b) Soleus
c) Plantaris
a) Gastrocnemius

Origin:- by 2 heads
i. Lateral head- lateral aspect of lateral condyle of femur
ii. Medial head- popliteal surface of femur above medial condyle

Insertion:-
Posterior surface of calcaneum as Tendo-calcaneus
b) Soleus

Origin:-
   i. Inverted ‘V’ shaped from soleal line on tibia
   ii. Upper 1/4th of upper surface of shaft of fibula
   iii. Fibrous arch between these 2 bones

Insertion:-
Posterior surface of calcaneum as *Tendo-calcaneus*
c) Plantaris- fusiform belly

Origin: - Lateral supracondylar ridge of femur
Insertion: - Posterior surface of calcaneum medial to Tendo-calcaneus
Superficial Strata

Deep Strata
I. Deep Muscles

a) Popliteus
b) Flexor Digitorum Longus
c) Flexor Hallucis Longus
d) Tibialis Posterior
a) Popliteus

Origin: - Groove on lateral surface of lat. femoral condyle

Insertion: - Triangular area on posterior surface of tibia
b) Flexor Digitorum Longus

Origin:-
   i. Upper 2/3rds of medial part of post. surface of tibia
   ii. Fascia covering tibialis posterior

Insertion:-
Plantar surface of base of distal phalanx of lateral 4 toes
a) Flexor Hallucis Longus

Origin:-

i. Lower 3/4th of post. surface of fibula

ii. Interosseous membrane

Insertion:-

Plantar surface of base of distal phalanx of great toe
a) Tibialis Posterior

Origin:-

i. Upper 2/3rds of lat. Part of posterior surface of tibia

ii. Post. Surface of fibula and interosseous membrane

Insertion:-

Tuberosity of navicular bone
Posterior Tibial Artery

- Larger terminal branch of Popliteal artery
- Branches:
  a. Circumflex fibular artery
  b. Peroneal artery: branches-
     i. Muscular branches
     ii. Nutrient branch to fibula
     iii. Communicating branch to Post. Tibial artery
     iv. Perforating branch- forms **Lateral Malleolar Network**
  v. Lateral Calcaneal artery
c. Nutrient artery

d. Muscular branches

e. Medial malleolar branch-
   Medial malleolar network

f. Calcaneal branch

g. Medial plantar artery

h. Lateral plantar artery
Tibial Nerve

- Larger terminal branch of Sciatic Nerve
- Superficial to popliteal branches
- Extends from superior to inferior angle of popliteal fossa
- Branches of Tibial nerve
  a. Muscular branches
  b. Cutaneous- Medial calcaneal branches
  c. Articular- to knee joint