

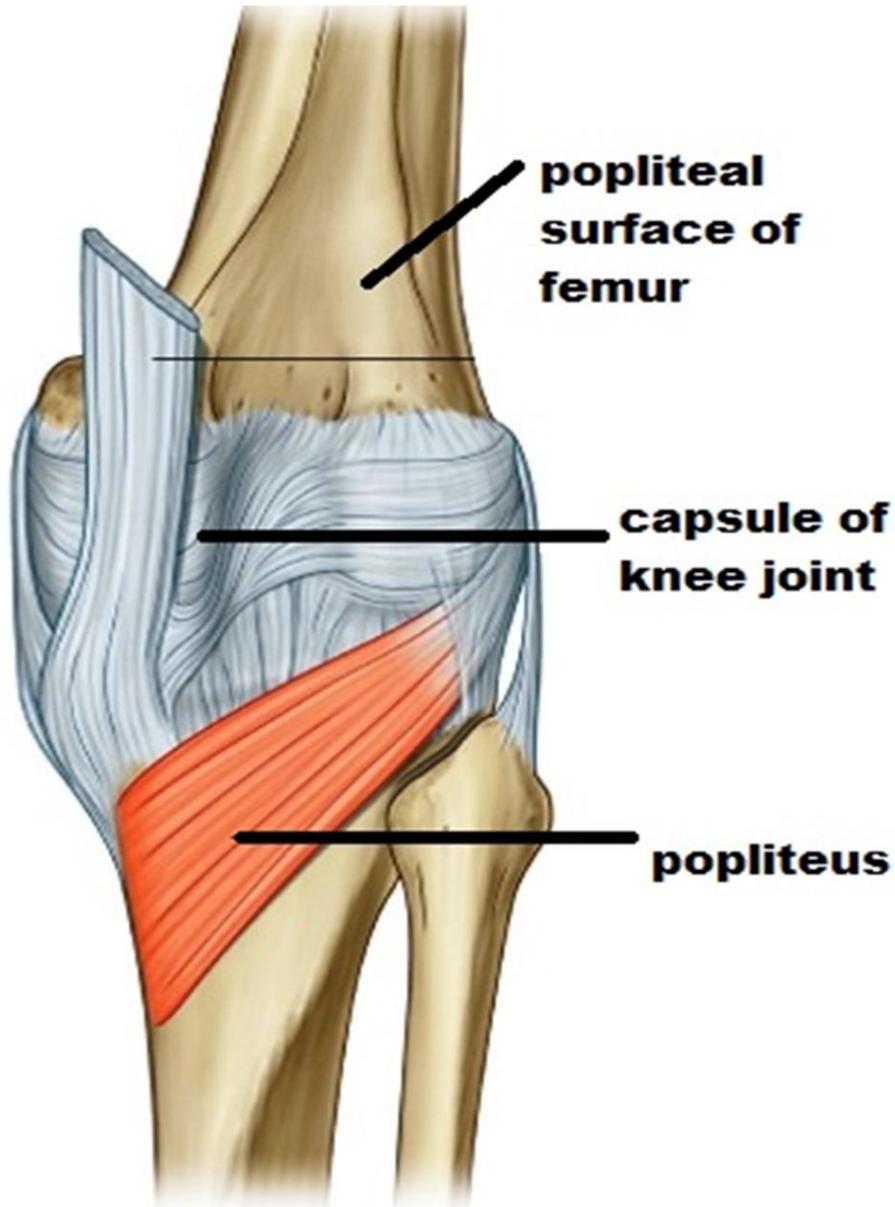
POPLITEAL FOSSA



BY

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POPLITEAL FOSSA



POPLITEAL FOSSA

DEF. & SITE:

tissue space behind lower part of thigh, knee & upper part of leg

BOUNDRIES :

diamond shaped with 4 borders

UPPER&MEDIAL

semimembranosus & semitendinosus

UPPER&LATERAL

biceps femoris

LOWER& MEDIAL

medial head of gastrocnemius

LOWER&LATERAL

lateral head of gastrocnemius & plantaris



POPLITEAL FOSSA

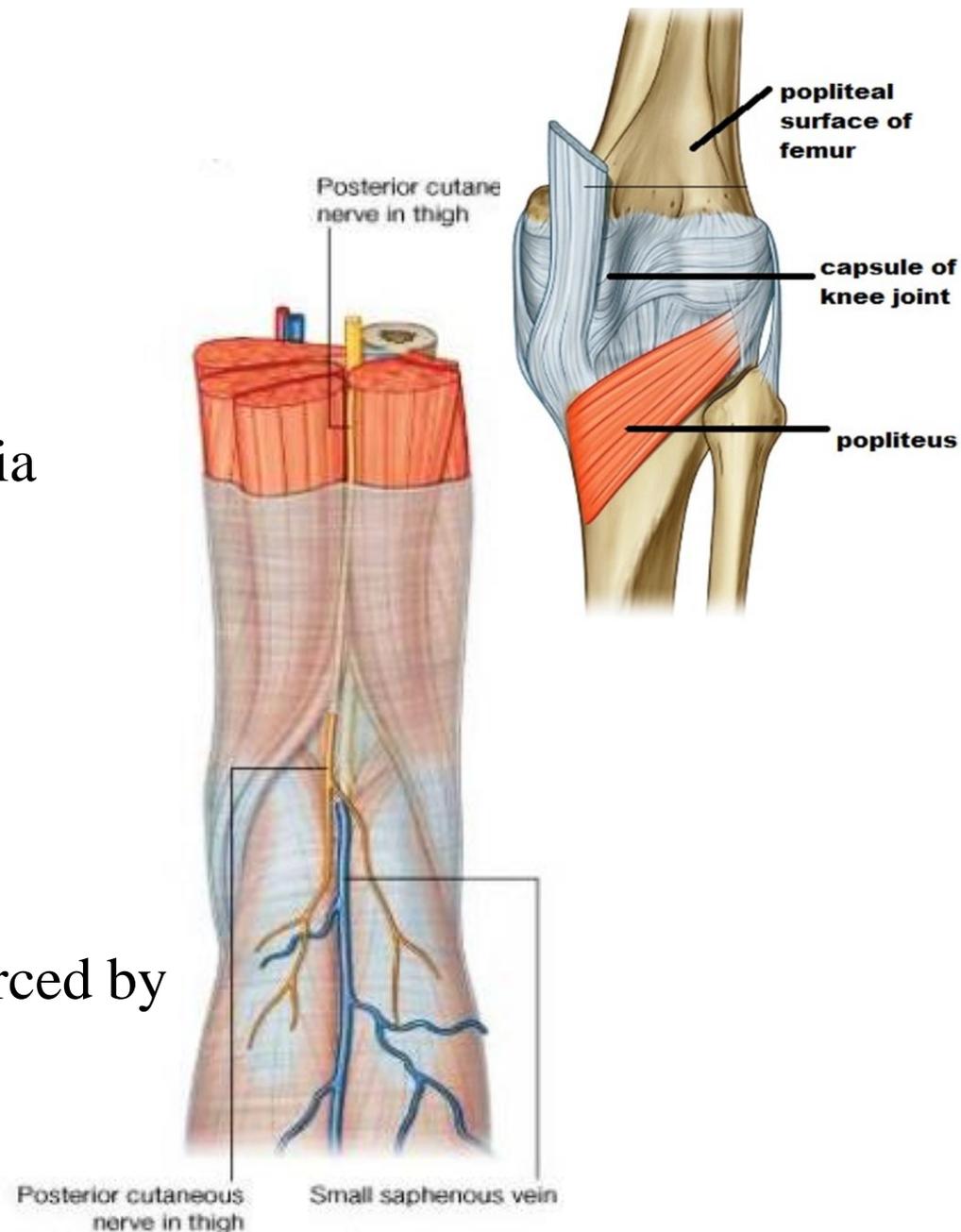
BOUNDRIES :

FLOOR

- popliteal surface of femur
- capsule of knee joint
- popliteus muscle & covering fascia

ROOF

- skin
- superficial fascia: contain
 - short saphenous v.
 - post. cut. n. of thigh
- deep fascia (popliteal fascia): pierced by
 - short saphenous v.
 - lymphatics to popliteal LNs
 - post. cut. n. of thigh



POPLITEAL FOSSA

CONTENTS

1-popliteal art. & its branches :
deepest structure

2-popliteal V. & its tributaries:
superficial to the artery

3- popliteal L.Ns

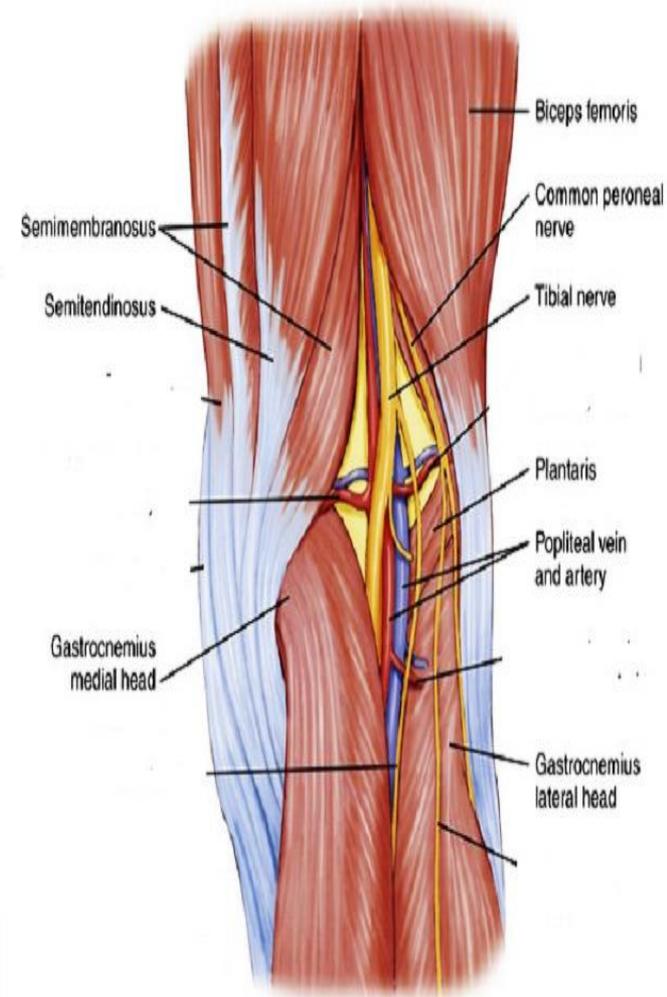
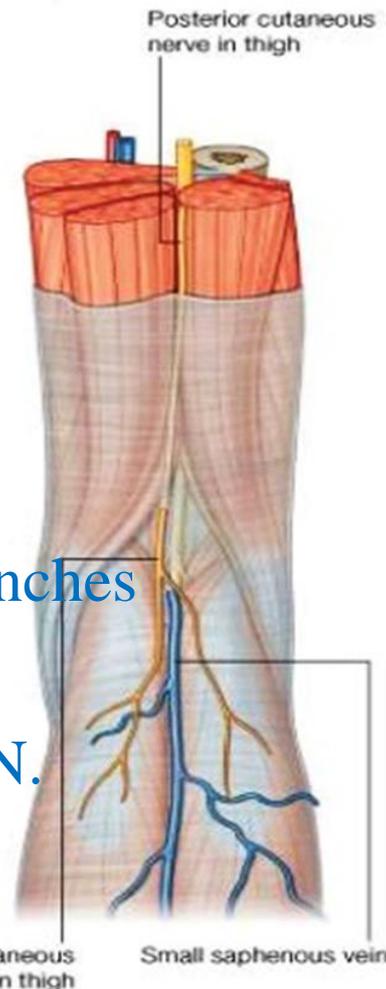
4- popliteal fat

5-tibial n. & its branches:
superficial to the vein

6-Common peroneal n. & its branches

7- post. cut. n. of thigh

8- Articular branch of obturator N.



POPLITEAL ARTERY

O : -continuation of femoral art
-at adductor opening

C : descends in popliteal fossa as deepest structure

E : -at lower border of popliteus
-give ant. & post tibial arteries

relations :

crossing over

popliteal surface of femur

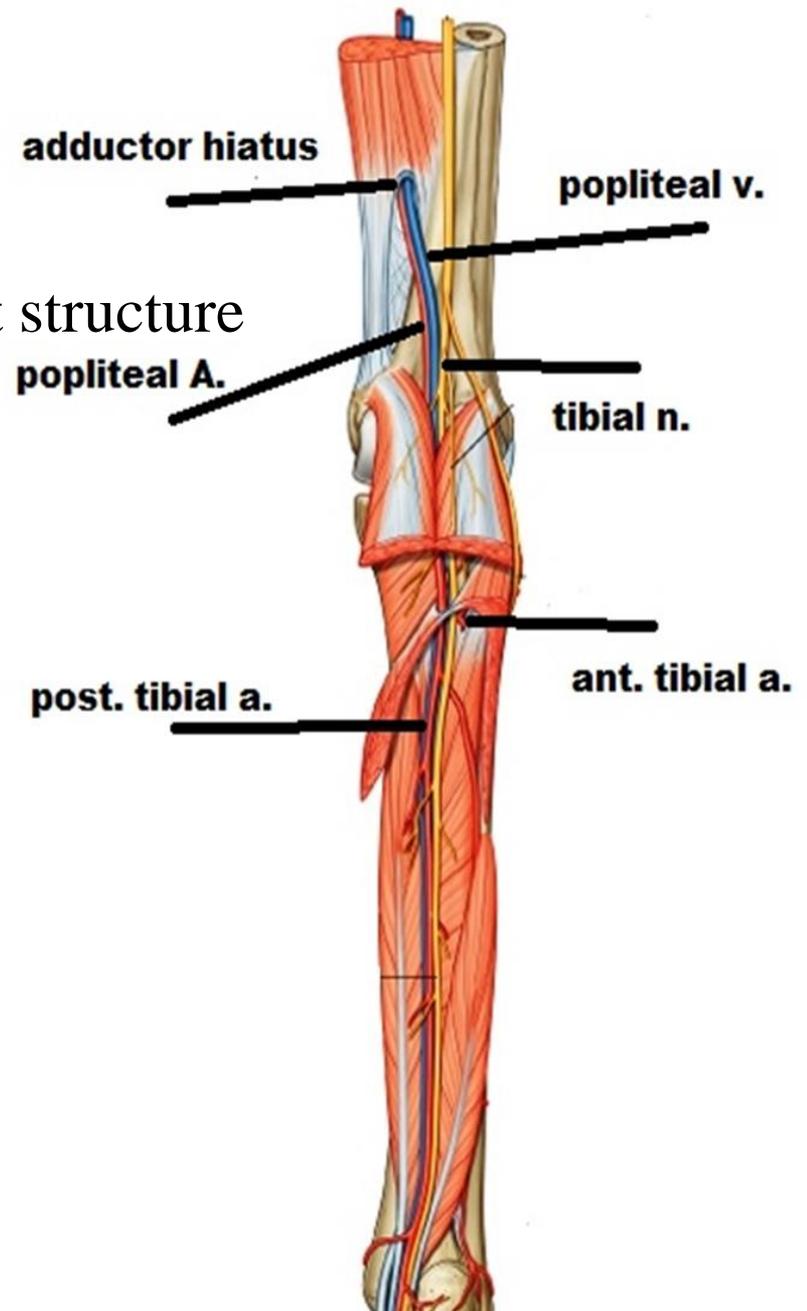
capsule of knee joint

popliteus muscle & covering fascia

crossed superficially by

popliteal v & tibial n

fasciae & skin



POPLITEAL ARTERY

branches :

A-muscular : to near muscles

B-genicular : 5

superomedial , superoLateral

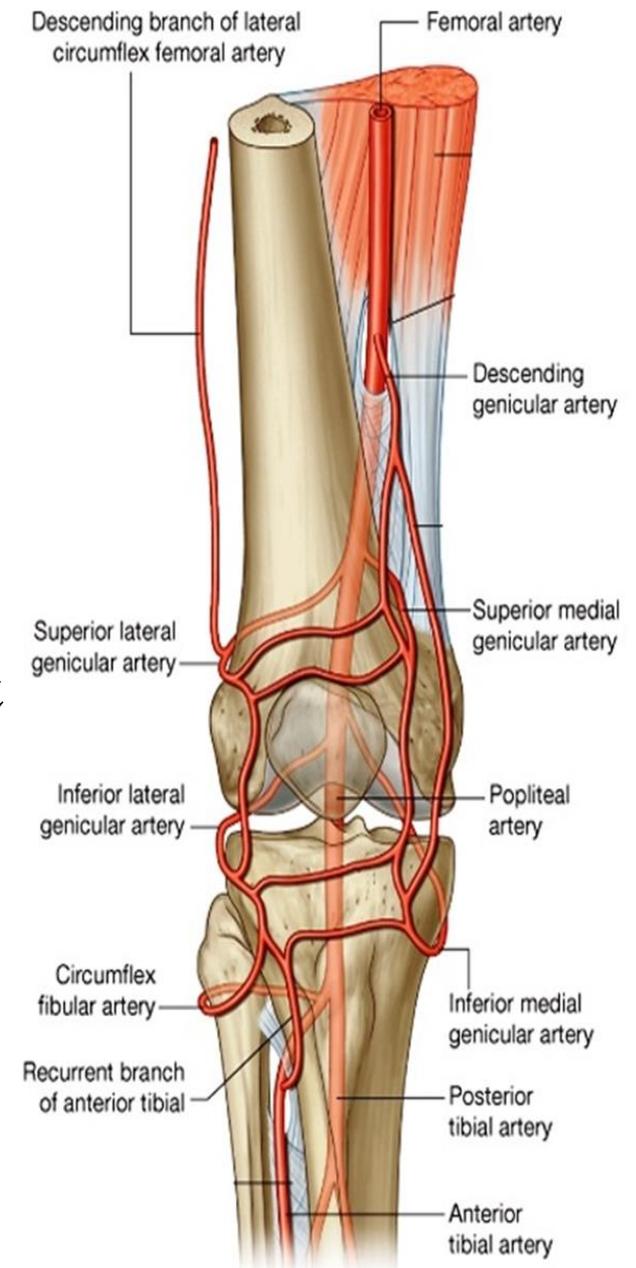
inferomedial , inferolateral

middle

they share in anastomosis around knee joint &

the middle br pierce oblique popliteal lig.

to supply cruciate lig.



TIBIAL NERVE IN POPLITEAL FOSSA

O: larger terminal division of sciatic N

C & r:

-enter fossa at upper angle

-descends vertically lateral, superficial
then medial to popliteal vessels

-Leave fossa at lower angle to enter
back of leg (deep to soleus) as post. tibial n..

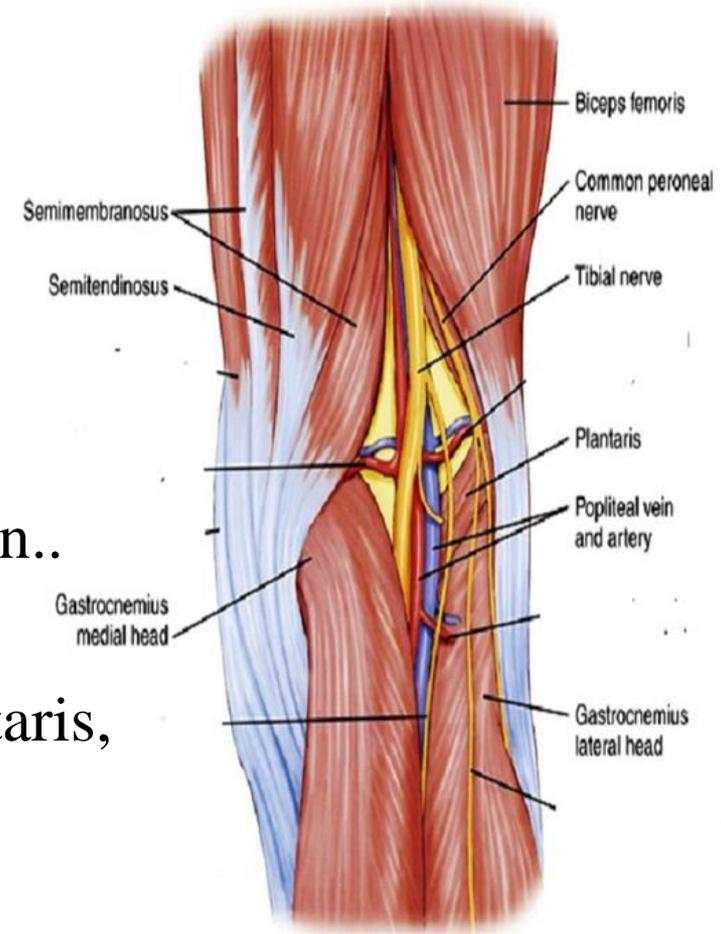
branches :

A-muscular: 2 heads of gastrocnemius, plantaris,
popliteus & soleus

B-articular : 3 genicular

supero medial , inferomedial and middle

→ knee joint & middle pierce oblique popliteal lig → cruciate lig



TIBIAL NERVE IN POPLITEAL FOSSA

branches :

C-cutaneous : sural n.

C & r:

-descend () 2 heads of gastrocnemius
then superficial to its belly

-In middle of leg it pierce deep fascia
to be in superficial fascia with small saphenous v.

joined by sural communicating of
common peroneal N.

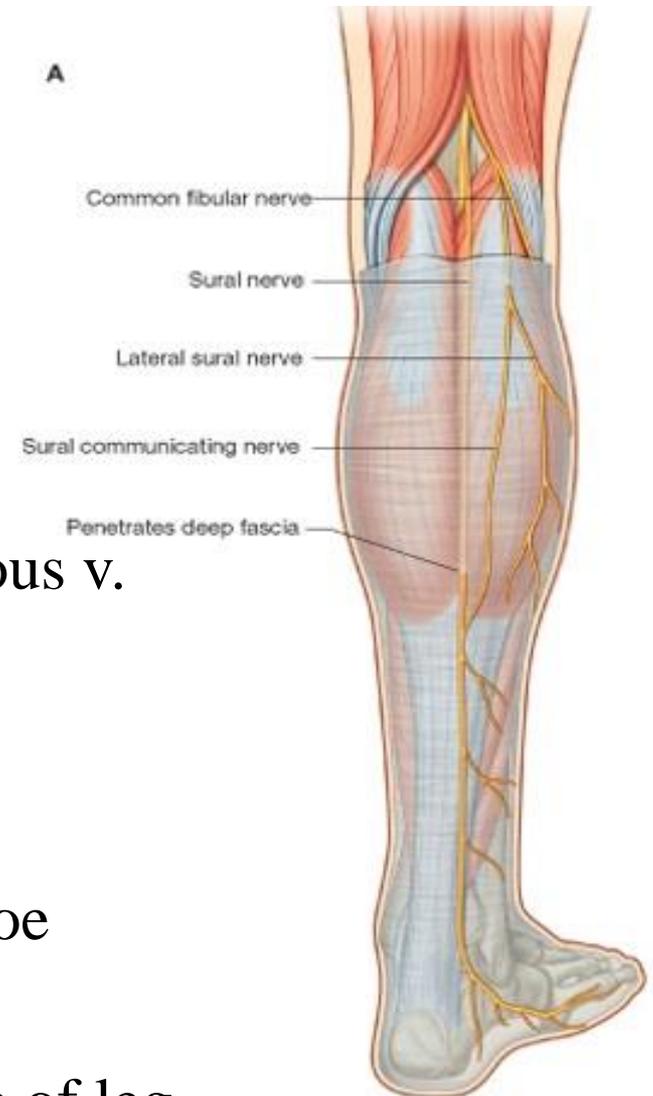
-Curve behind and below lateral malleolus

-Pass forward on lateral side of foot & little toe

Distribution: supply skin of calf,

Lower part of back & lateral side of leg

lateral side of foot & little toe

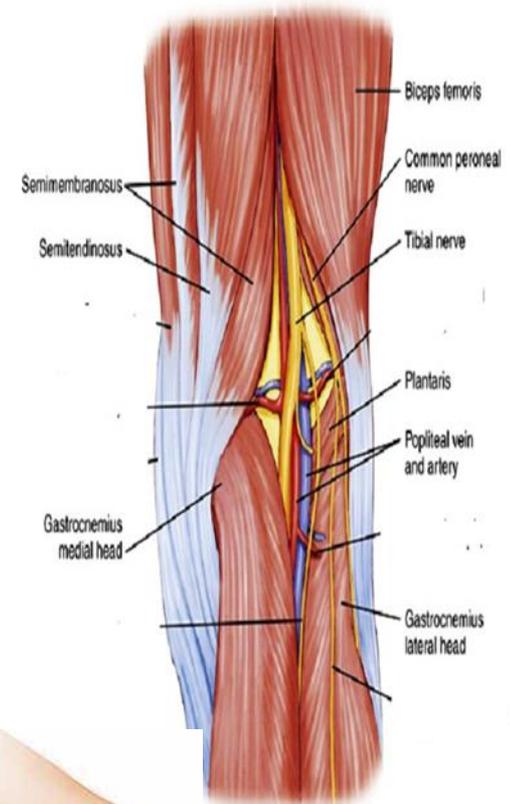


COMMON PERONEAL NERVE

O: smaller terminal division of sciatic N.

C & r:

- enter popliteal fossa at upper angle
- descend downward & laterally medial to biceps femoris
- Leave fossa at lateral angle crossing plantaris & lateral head of gastrocnemius
- Curve around neck of fibula (could be rolled) & end on its lateral side deep to peroneus longus giving 2 terminal brs
deep peroneal n.
superficial peroneal n.



COMMON PERONEAL NERVE

branches :

A-articular : 3 genicular

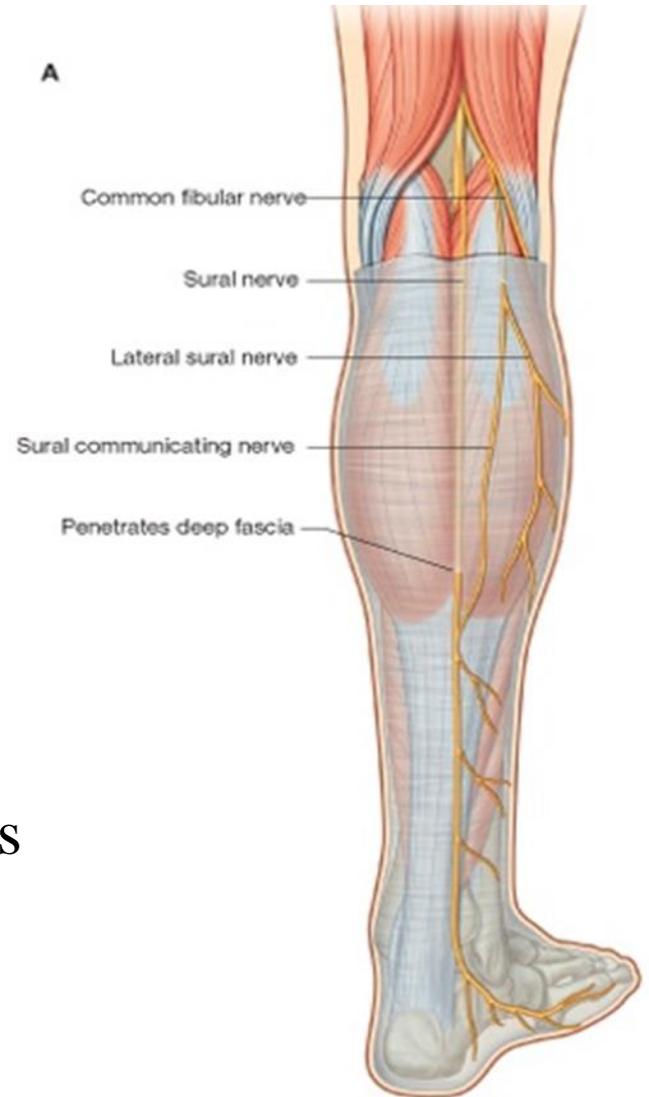
supero lateral , inferolateral and recurrent genicular

B-cutaneous :

1-sural communicating N.
that joining sural N.

2-lateral cutaneous n. of calf :
supply upper part of lateral side of leg.

C- muscular : to short head of biceps femoris
(arise high up in popliteal fossa)



THANQ