VIVAs lower limb nerves/arteries/veins

TOPIC: Femoral N	erve NUMBER: 2.5	
OPENING QUESTION	What are the borders & contents of the femoral	COMMENTS
POINTS REQUIRED	l Boundaries: Sartorius, Adductor Longus, Inguinal ligaments	
	2 Floor: Iliacus, Psoas, Pectineus, Adductor Brevis	
	3 Contents: Femoral Nerve, Artery, Veins	
PROMPTS		
SECOND QUESTION (if needed)	What are the branches of the femoral nerve?	
POINTS REQUIRED	1 Nerve to sartorius	
	2 Medial Femoral Cutaneous nerve	
	3 Intermediate femoral cutaneous nerve	
	4 Nerve to Rectus Femoris	
	5 Nerve to vastus medius	
	6 Nerve to Vastus Lateralis	
	7 Nerve to vastus intermedius	
	8 Saphenous nerve	
PROMPTS		

ACEM 2006.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: Femoral nerve and myotomes _____ NUMBER: _____ Fri 5

OPENING QUESTION	Could you outline the lower limb myotomes?	COMMENTS	
POINTS REQUIRED	1 L2 & 3 Hip flexors & Adductors		
	2 L3 & 4 Knee extensors & Hip Abductors		
	3 L4 & 5 Hip extensors		
	3 L5 & S1 Knee flexors		
	4 L4 & 5 Ankle and long dorsi flexors		
	5 S1 &2 Plantar flexors		
	6 Eversion L5 & S1		
	7 Inversion L4	5 of 7 to pass	
PROMPTS	What is the innervation of the muscles of the etc?		
SECOND QUESTION (if needed)	What is the motor distribution of the femoral nerve?		
POINTS REQUIRED	Courses through between the psoas and iliacus supplying both.		
	Passes into the femoral canal and begins to divide into its muscular branches in the femoral triangle supplying quadriceps femoris and articularis genu		
SECOND QUESTION	Describe the origin and course of the sciatic nerve.		
POINTS REQUIRED	1L4,5,S1,2,3* from the triangular sacral plexus form from the ant divs of these nn to eventually be the tibial portion of the sciatic while the peroneal portion comes from post divs of L4,5, S1,2	4/7 to pass	
	2 They join in pelvis, and exit under piriformis* (line b/w PSIS & tip of coceyx) thru gtr sciatic notch*	· 860	
	3 lies on ischium over post acetabulum*, next to bone b/w isch tuber & PSIS		
	4 under glut max* in buttock b/w gtr troch & isch tuberosity		
	5 vert down with hamstrings*		
	6 upper popliteal fossa* > tibial & peroneal nn.		
PROMPTS			

ACEM 2007.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

OPENIN	G			COMMENTS	
QUESTI		What structures are visible in this buttock dissection?			
POINTS REQUIR		l sciatic nerve (23)		mandatory	
		2 piriformis (15)		mandatory	
		3 gamelli sup (20) and inf (6)			
		4 post cutaneous nerve of the thigh (16)			
		5 gluteus medius (2)		6 to pass	
		6 any other			
PROMP	TS	Identify the sciatic nerve and piriformis			
SECONI QUESTI (if needed	ON	Describe the course of the sciatic nerve in the thigh	ı		
POINTS	<i>.</i>	l Leaves gluteal region at midpoint of greater tro and ischeal tuberosity	chanter	2/4 to pass	
		2 Passes deep to long head of biceps			
		3 Lies on adductor Magnus			
		4 Generally divides in lower third (12% common fibular branch passes thru piriformis), often divides early			
PROMP' THIRD		Where does it divide and into what Describe its motor distribution in the thigh			
QUESTI (if needed POINTS	i)			Pass if say gener	
REQUIR	ED	l tibial branch – hamstrings and part of adductor N	lagnus	hamstrings	
ECOND UESTION f needed)	Can	you identify the sciatic nerve and the What is the se of the sciatic nerve in the thigh?			
OINTS EQUIRED	-	propriate identification of the sciatic nerve	Must ki	now	
	2 En	ters by passing deep to piriformis, usually.	Could 1	anow	
EQUIRED	3 En	ters the upper thigh deep to the hamstrings	Could k	anow	
EQUIRED			Should know		
EQUIRED	1.70.343	ter biceps overarches the nerve the, nerve lies deeply een semimembranosus and biceps			
EQUIRED	betw 5 D	지수는 것 같은 것 같	Should	know	
EQUIRED	5 D abov	een semimembranosus and biceps ivides into peroneal and tibial nerves about 5 cm	Should Must ki		
EQUIRED	5 D abov	een semimembranosus and biceps ivides into peroneal and tibial nerves about 5 cm ie the knee joint	Must ki Identify	now / nerve on & identify 3 of	

 BONUS QUESTION
 Describe the course and branches of the tibial nerve in the leg

 Tibial nn is the continuation of the sciatic nn (after it divides into tibial and common peroneal)

Runs vertically down middle of pop fossa Passes deeply between heads of gastrocnemius	
U U U	
Runs with pop vessels beneath fibrous arch of origin of soleus.	
Enters calf below this fibrous arch	
Gives motor branches to all mm that arise in pop fossa	
Plantaris	
Both heads of gastroc	
Soleus	
Popliteus	
Branch to popliteus hooks around lower border of popliteus to enter	
its deep (tibial) surface.	
Has only 1 cutaneous branch ;sural nn	
Runs vertically down between 2 heads of gastroc	
Pierces deep fascia halfway down calf (replaces post cutaneous nn of	
thigh)	
In superficial fat it joins sural communicating nn and lies close to	
small saphenous vv.	
Nerve is lateral to vein	
3 articular branches ; genicular nerves which accompany sup,inf and	
medial genicular aa.	
Tibial n runs straight down middle of calf, deep to soleus	
Post tib aa is at first lat to it. The aa then passes ant to it and	
Nerve ends under middle of flexor retinaculum by dividing into	
medial and lateral plantar nn	
Flex dig longus	
Flex hall longus	
Tib post	
Med calcaneal nns (pierce flex ret to supply skin of heel)	
	Gives motor branches to all mm that arise in pop fossa Plantaris Both heads of gastroc Soleus Popliteus Branch to popliteus hooks around lower border of popliteus to enter its deep (tibial) surface. Has only 1 cutaneous branch ;sural nn Runs vertically down between 2 heads of gastroc Pierces deep fascia halfway down calf (replaces post cutaneous nn of thigh) In superficial fat it joins sural communicating nn and lies close to small suphenous vv. Nerve is lateral to vein 3 articular branches ; genicular nerves which accompany sup,inf and medial genicular aa. Tibial n runs straight down middle of calf, deep to soleus Post tib aa is at first lat to it. The aa then passes ant to it and continues down on medial side of nn Nerve ends under middle of flexor retinaculum by dividing into medial and lateral plantar nn Surface marking is middle of pop fossa to midway between med malleolus and tendo calcaneus Gives branches to ; Those listed above Flex dig longus Flex hall longus

Question 5:	a.	Outline the course of the common	Origin: from sciatic n as it bifurcates in apex pop fossa	For a pass:
		fibular nerve and its main branches.	Passes over post head of fib and then winds around neck of fib	Origin,
Discussion:			Divider into one and door (%) a close to to be the	Fib head,
Common fibularis			Divides into sup and deep fib n, also br to knee jt.	Main branches, Motor and sens supply
(common fibular			Common- supplies skin posterolat leg	worker and sette amphilia
n/common	ь.	What does it supply? (Motor and		
peroneal n)		sensory)	Superficial br-motor supply to lateral compartment, and sensory supply distal 1/3 ant leg and foot	
			uistar 1/3 ant leg and loot	
			Deep branch motor to ant mm of leg and dorsum of foot, and	
			Sensory to 1st web space foot.	

2010011011	Please describe the course of the femoral artery from the inguinal ligament to the popliteal fossa	
OINTS REQUIRED	1 Art enters thigh at midinguinal point* (mid b/w ASIS & pubic symp on psoas tendon overlying capsule of hip jt)	*essential
	2 Runs deep to sartorius at lower end of triangle*	
	3 Enters adductor canal*	
	4 Anterior to femoral voin (post to saphenous nerve)	
	5 Passes into popliteal fossa through adductor histus* in adductor magnus	
ROMPT	At which point does it enter the thigh?	
	Please name the branches of femoral artery in the femoral triangle.	
	Superficial cutaneous branches:	Mention existence of
	Superficial circumflex iliac	cutaneous branches
	Superficial epigastric Superficial external pudendal	and name profunda
	Deep external pudendal	
	Profunda femoris	
ROMPTS		
SECOND	Describe the branches and essent of the formulation	
QUESTION (if needed)	Describe the branches and course of the femoral artery.	
POINTS REQUIRED	1 4 superficial branches in fem triangle (superf epig superf cx iliac, superf and deep pudendal)	The 3 general points to pass
	2 Profunda femoris ("deep artery of thigh"!) branches	
	off post-lat in triangle to supply thigh, passes behind add longus. Gives med and lat cx fem arteries. Med cx fen supplies NOF	1
		1
	3 Fem artery continues down thigh deep to Sartorius and pass through adductor canal and becomes popliteal art a adductor hiatus	
PROMPTS		
THIRD QUESTION (if needed)		
POINTS	1	
REQUIRED	2	
SECOND QUESTION (if needed)	Describe the surface markings of the Fem Artery in the femoral triangle	
POINTS REQUIRED	I Mid Inguinal point	
	2 mid way between Pub symphysis and ASIS	All correct to pass
	3 exits distally under sartorius	
	4	
	5	
	6	
PROMPTS		
THIRD		-
QUESTION (if needed)	Describe the anastomoses associated with the femoral artery	
POINTS REQUIRED	l trochanteric (head of femur) via med and lat fem c-flex	
	2 cruciate (lessr trochanter) as above with inf glut atr	
	3 geniculate (popl fem and tibial arts)	Extra detail
	4	

TOPIC 5		COMMENTS
QUESTIONS AND POINTS REQUIRED	Demonstrate / describe the sensory innervation of the foot.	Saphenous - medial dorsum to base of big toe, Superficial peroneal - dorsum, Deep peroneal - 1" web space, sural - lateral, Medial and lateral plantar nerves on the sole, Medial calcaneal - heel. 5/7 to pass.
	Demonstrate the dermatomes below the knee.	4,5, S1, S2 First 3 correct to pass

TOPIC: Ankle ______ NUMBER: 1.4

OPENING QUESTION	Commencing with its origin in the foot, describe the course and relations of the long saphenous vein	COMMENTS
POINTS REQUIRED	l commences at medial side of dorsal venous arch	Require course
	3 crosses to behind medial border of tibia and pass behind knee (1 handsbreath behind medial border patella)	
	4 spirals forward across medial aspect thigh to pass through cribriform fascia and join femoral vein	
	5 perforating veins connect LSV and deep system - below med malleolus, 10cm above med malleolus mid calf knee mid thigh	
	6 LSV accompanied by saphenous nerve	Accompanying nerve
	7 valves along course (optional)	
PROMPTS		
SECOND QUESTION (if needed)	What functional deficit results from a tibial nerve injury at the knee and explain why	
POINTS REQUIRED	l Unable to stand on tiptoes (calf flexors lost) – soleus, TP, FDL, FHL	
	2 Sensory loss – Medial Calcaneal, medial and lateral plantar nerves – loss of sensation over leg and sole of foot	
	3 intrinsic muscles of foot lost – medial & lateral plantar nerves	

001000000

TOPIC: Great Toe _____ NUMBER: 2-4 _____

OPENING QUESTION	What nerves are responsible for sensation of the great toc?	COMMENTS
POINTS REQUIRED	1 Deep peroneal in the web	3 to pass
	2 superficial peroneal on the dorsum	
	3 medial plantar on the bottom	
	4 sometimes some saphenous on medial side at the MTP	
	5	
	6	
	7	
PROMPTS		
SECOND QUESTION (if needed)	What roots?	Pass
POINTS REQUIRED	1 L5 ·	
	2	
	3	
	4	
	5	
	6	
PROMPTS		
THIRD QUESTION (if needed)	What myotomes govern movement of great toe?	Both to pass
POINTS REQUIRED	1 5,1 extension ·	
	2 1,2 for plantar flexion	
	3	
	4	
PROMPTS	Legitimate	

ACEM 2007.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: disc	ussion – lower limb	NUMB	ER:		
OPENING QUESTION	Describe the dermatomes of the l	lower limb	COMME	NTS	
POINTS REQUIRED	l indicate (?on self) L1,2,3,4,5 v	vinding around leg	needed		
	2 S1 S2 back of leg s1 become foot	s lateral foot, L5 medial			
	3 axial line down postero medial	aspect of leg			
	5				
PROMPTS					
SECOND QUESTION (if needed)	Please describe the cutaneous ne	rves of the lower limb	5 facts in total	to pass	
POINTS REQUIRED	l lateral cutaneous nerve of thigh	n L2,3			
	anterior cutaneous branch of femoral nerve L2-4				
	Intermediate and medial femoral cut nerves				
	Ilio-inguinal				
	Obturator				
	Posterior cutaneous S1-3				
	Most of thigh				
	2 saphenous nerve (from femo leg)	oral) L3,4 (antero medial			
	lateral sural cutaneous n and su	ral (postero lateral leg)			
	3 fibula (peroneal) nerves antero foot	lateral leg and dorsum of			
	4 calcaneal branches of tibial an medial plantar nerve from tibial (
	5 deep fibular (deep peroneal) nerve L5 in first web space				
Ouestion 5;	Describe the superficial venous drainage of the	Derrol wareh of first July to COT	and at the time of	111-016 2011	
Discussion	lower limb	superficial venous drainage of the Dorsal v arch of foot drain to GSV, as behind med fem condyle (hand breadt up med thigh through fascia lata in say		1.Identify MM, fem saph opening landm	
		Numerous valves, perforators to deep anastomoses with SSV.	system and	2.Name SSV and ge	neral location
		Laterally, Small SV arises from dorsal behind LM, lateral to Achilles, penetra between heads of gastroc to join popli	ates fascia at mid-line,	3.Identify connection system via perforato	