

VIRTUAL CARE SIMULATION LAB

PERFORMANCE EVALUATION PROCEDURE:

Lumbar Puncture							
PRINT Name of Examinee:							
PRINT Specialty of Examinee:							
Is the Examinee a Resident?	CIRCLE Y/N:	YES	NO	OTHER:			
PRINT Evaluator's Name:	D CHECK DACC	D FAII		Cult 1			
EVALUATOR: Please CIRCLE C				of this docum	ent, to inci	uae your	
	Signa	ture belov	v.		Flantus via D	/F-: :- -	
DASS	PASS: FAIL:			Electronic Pass/Fail Link Below			
EVALUATOR	1700						
SIGNATURE:		DATE:					
NOTE: Automatic failure if h	nighlighted areas,	also italio	cized & bol	d - are not a	nswered co	rrectly.	
Lumba	ır Puncture - Pa	ge 1 of 2	2		PASS	FAIL	
	ASSESSES PATIEN	NT			•		
Reviews lab data: PT/PTT, Hem	nogram						
Obtain baseline neurological assessment, including assessment for increased							
intracranial pressure and/or m	eningeal irritation						
Reviews patient's medical history	ory and assess for	spinal sur	gery or def	ormities,			
coagulopathies, active therapy	with heparin, cou	ımadin, pl	avix, ASA a	nd allergies			
to lidocaine							
Assess patient's ability to coop							
	DBTAINS EQUIPM				1		
Face shield mask, cap, sterile g	loves, sterile gowi	n					
Lumbar Puncture kit							
Additional sterile drapes							
Betadine, not Chlorhexidine a							
Specimen labels and requisition: Tube 1 (glucose, protein), Tube 2 (culture and							
gram stains), Tube 3 (cell coun							
	CATES PATIENT/F				1		
Summarizes indications, risks, understanding	benefits, process	; ensures	patient/fai	mily			
Explains positioning requirem	ents and the need	l to lie flat	for severe	ıl hours			
after procedure	ents and the need	i to ne jiut	. joi severu	ii iiours			
Obtains consent as appropriate	te -> Checks patie	nt ID (Tim	e Out)				
	PREPARES PATIE	-			ı		
Determines need for further as medications			afety: addi	tional staff,			
Positions patient in the lateral	decubitus positio	n near the	side of the	hed with			
head flexed to chest and knees			Side of tile	DCG WILL			
Checks landmarks for optimum	site; able to loca		evel with il	iac crest), L4-			
L5, L5-S1 intravertebral spaces							
Initial preparation of site with	Betadine NOT Chlo	orhexidine	4		I		

Lumbar Puncture - Page 2 of 2		
PREFORMS PROCEDURE		
Washes hands and applies gloves maintaining sterility		
Opens and sets up kit: draws up lidocaine, sets up manometer, sets up 4		
specimen tubes in numerical order of use		
Drapes patient in sterile fashion and places sterile towel on bed near patient		
Relocates landmarks and puncture site		
Re-preps site with Betadine		
Anesthetizes the area using 25 G needle making a wheal then changes to an 18		
G needle for deeper into the posterior spinous region - aspirating as it is		
advanced before injecting		
Talks to patient about what is happening throughout procedure		
Insert a 20 or 22 G spinal needle bevel up through the skin into the L4-L5		
intravertebral space with the needle at a 15° angle cephalad, aiming toward the		
umbilicus, level with the sagittal midplane of the body		
If bone is encountered on insertion, pull back slightly and redirect needle,		
changing the angle slightly then reinsert		
Once the needle has advanced 3-4 cm withdraw the stylus and observe for CSF		
return. If no CSF, replace stylus and advance slowly and recheck. A "popping"		
sensation is often felt with penetration of the dura mater		
Stops and analyzes why there is no CSF		
Once CSF return is noted, attach the manometer to the needle hub by way of the		
3-way stopcock		
Have patient straighten legs, then read opening pressure by noting the fluid level		
in the manometer; notes color of fluid		
Drain fluid from manometer into tube 1 and notes color of fluid		
Return stopcock to the off position and discard manometer		
Fill the tubes in sequential order from the hub of the spinal needle		
Fill each tube a minimum of 1-2 ml CSF. Tubes 2 and 4 may need more fluid if		
additional cultures/tests needed		
Cover the opening of the spinal needle with a sterile gloved finger and replace		
the stylus		
Withdraw the needle while holding pressure at site		
Cover site with bandage		
Place patient in supine position		
Make sure specimens are labeled appropriately and sent to laboratory		
Disposes of sharps and contaminated supplies appropriately. Discards gloves and		
washes hands.		
Documents procedure note		
TOTALS COUNT:		
(80% or above is passing score.) PERCENTAGE:		
RESULT CATEGORIES:	PASS	FAIL

PRACTICE BASED LEARNING AND IMPROVEMENT				
Areas the resident feels he/she could improve:				
How the resident plans to improve:				