PROCEDURAL COMPETENCY EVALUATION

Name	Date						
Sp	irometry Screenir	ng					
Setting: Lab Clinical Conditions (describe):			☐ Instructor	S A T I S F A	U N S A T I S	N O T O B S	N O T A P
Equipment Used			- -	C T O R Y	F A C T O R	E R V E D	L C A B L
Equipment and Patient Preparation 1. Verifies, interprets, and evaluates physician's order or proceedings. 2. Selects, gathers, and assembles the necessary equipment. 3. Checks for adequate paper supply. 4. Checks for functional recording pens (if applicable). 5. Plugs the unit in if applicable; enters the date and time. 6. If a volume displacement spirometer is used, checks the unit in the proceeding device and makes sure. 7. If possible, turns on the recording device and makes sure. 8. Checks and enters the room temperature. 9. Using a 3-L calibration syringe, checks the spirometer for.	unit for leaks the pen is recording o		eline				
the percent accuracy; repeats the calibration while varyin	g the speed of volum	e injection					
10. Washes hands and applies standard precautions and tran as appropriate11. Identifies subject; introduces self and department12. Explains purpose of the procedure and confirms subject's		ion proced	ures				
Assessment and Implementation 13. Assesses subject by obtaining the following information: a. Name and identification number b. Age on day of testing c. Height in stocking feet d. Gender e. Race (indicate white or nonwhite for purposes of race	correction according	to NIOSH a	and OSHA				
regulations for spirometry) 14. Determines whether previous testing has ever been done	e and whether it was o	done sitting	gor				
standing 15. Elicits a respiratory history, including cough/sputum prod rest and on exertion, medications, employment history, a	_		a at				
 16. Determines whether there are any contraindications to the screening at this time by asking the subject the following a. Upper respiratory tract illness, influenza, or bronchitis b. Any tight or restrictive clothing that may interfere with c. Eaten a heavy meal within the last 2 hours? d. Any dental appliances, loose teeth, caps, gum or cande. Smoked within the last hour? f. Recent surgeries? g. Used an aerosolized bronchodilator within the last 4 to h. How are you feeling today? Any acute illness at the present surgeries at the present surgeries. 	questions: within the last 3 weel h the performance of y in mouth? Remove o 6 hours?	ks? the test?					

	S A T I S F A C T O R	U N S A T I S F A C T O R	N O T O B S E R V E D	N O T A P P L I C A B L
i. Ear infections in the last 3 weeks?				
17. If a positive response is obtained to any of the preceding questions, corrects problems or postpones test for the appropriate time period				
 Aseptically attaches clean disposable mouthpiece or flow sensing device to the main tubing; calibrates as needed 				
19. Instructs the subject in the performance of the SVC maneuver and confirms subject's understanding 20. Places the noseclips on the subject and verifies that there are no leaks				
21. Positions the subject by instructing him or her to sit or stand straight, as appropriate, with chin slightly elevated; places a chair without wheels behind the subject if standing	_			
 Activates the machine and recording device; actively coaches the subject throughout inspiration and expiration and performs the SVC 				
23. Observes the subject for adequate effort and proper performance during the maneuver;				
reinstructs as necessary 24. Notes the volume obtained				
25. Allows for adequate recovery of the subject26. Repeats the SVC maneuver with active, forceful coaching until three tracings within 200 ml or 5 percent				
of each other are obtained				
27. Instructs the subject in the performance of the FVC maneuver and confirms understanding28. Places the noseclips on the subject and verifies that there are no leaks				
29. Repositions subject30. Activates machine and performs the FVC with active forceful coaching throughout inspiration				
and expiration				
31. Observes the subject for adequate effort and proper performance during the maneuver; reinstructs as necessary				
32. Notes the volume obtained and the shape and appearance of the graphic representation, if available 33. Allows for adequate recovery of the subject				
34. Determines validity of the test	_	_		
 Three acceptable tracings free from cough or glottic closure, early termination of expiration, variable effort, leaks, and baseline error 				
 Excessive hesitation at start of test; extrapolated volume must be less than 5 percent of the FVC or 200 ml, whichever is greater 				
 c. Plateau defined as no change in volume in the last 1 sec of the tracing; test should be at least 6 sec in duration 				
d. Excessive variability: should be less than 5 percent or 150 ml difference between the two best FVC and FEV ₁ results				
35. Has the subject sign and date the spirometer tracing36. Compares the SVC and FVC volumes and explains any discrepancies				
37. If a postbronchodilator test is ordered, administers the medication, waits an appropriate length of time, and repeats the FVC	_			
38. Calculates the percent change in FEV ₁ 39. Calculates the percent change in FEV ₁ /FVC ratio (FEV ₁ %)				

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40. Instructs the subject in the MVV maneuver, if appropriate, and confirms understanding					
 41. With the subject seated, has subject begin breathing as rapidly and deeply as possible; activates the machine and actively coaches test performance for 12 to 15 sec 42. Allows for adequate recovery of subject 43. Multiplies the volume achieved by 6 or 4 to obtain the volume per minute; records the re 	esults				
Follow-up					
 44. Discards any disposable noseclips, mouthpieces, or flow sensors in an infection waste cor disinfects any nondisposable mouthpieces and tubings 45. Washes hands 46. Records pertinent data in chart and departmental records 47. Notifies appropriate personnel and makes any necessary recommendations or modificati 					
to the patient care plan					
Signature of Evaluator Sign	nature of Student				

PERFORMANCE RATING SCALE

- 5 EXCELLENT FAR EXCEEDS EXPECTED LEVEL, FLAWLESS PERFORMANCE
- 4 ABOVE AVERAGE NO PROMPTING REQUIRED, ABLE TO SELF-CORRECT
- 3 AVERAGE THE MINIMUM COMPETENCY LEVEL, NO CRITICAL ERRORS
- 2 IMPROVEMENT NEEDED PROBLEM AREAS EXIST; CRITICAL ERRORS, CORRECTIONS NEEDED
- 1 POOR AND UNACCEPTABLE PERFORMANCE GROSS INACCURACIES, POTENTIALLY HARMFUL

PERFORMANCE CRITERIA			SCALE		
PERFORIVIANCE CRITERIA		•	CALE		
DISPLAYS KNOWLEDGE OF ESSENTIAL CONCEPTS	5	4	3	2	1
DEMONSTRATES THE RELATIONSHIP BETWEEN THEORY	5	4	3	2	1
AND CLINICAL PRACTICE	_		_	_	
S. FOLLOWS DIRECTIONS, EXHIBITS SOUND JUDGEMENT, AND	5	4	3	2	1
DEMONSTRATES ATTENTION TO SAFETY AND DETAIL	_	4	2	2	4
I. EXHIBITS THE REQUIRED MANUAL DEXTERITY	5	4	3	2	1
5. PERFORMS PROCEDURE IN A REASONABLE TIME FRAME 5. MAINTAINS STERILE OR ASEPTIC TECHNIQUE	5 5	4 4	3 3	2 2	1 1
. INITIATES UNAMBIGUOUS GOAL-DIRECTED COMMUNICATION	5	4	3	2	1
B. PROVIDES FOR ADEQUATE CARE AND MAINTENANCE OF	5	4	3	2	1
EQUIPMENT AND SUPPLIES	3	4	3	2	1
D. EXHIBITS COURTEOUS AND PLEASANT DEMEANOR	5	4	3	2	1
.0. MAINTAINS CONCISE AND ACCURATE RECORDS	5	4	3	2	1
	-	•	-	=	-
SUMMARY PERFORMANCE EVALUATION AND RECOM	MMENDAT	ONS			
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	le to self-co	orrect, no		errors.	
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