

EMS

Gathering of Eagles XVIII February 20, 2016



It's Virtually a Reality

SIMULATION AS AN ACCEPTABLE SURROGATE FOR CREDENTIALING

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SIMULATION-BASED ASSESSMENT OF PARAMEDICS AND PERFORMANCE IN REAL CLINICAL CONTEXTS

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	SBA		WBA		
Dimension	Mean	STD	Mean	STD	<i>p</i> value
Situation awareness	4.97	0.76	5.37	0.50	< 0.001
History gathering	4.90	0.57	5.41	0.48	< 0.001
Patient assessment	4.84	0.67	5.43	0.51	< 0.001
Decision making	4.51	0.83	5.33	0.49	< 0.001
Resource utilization	5.14	0.62	5.31	0.43	0.08
Communication	5.01	0.56	5.40	0.49	< 0.001
Procedural skill	4.85	0.74	5.51	0.43	< 0.001
Mean scores	4.88	0.68	5.39	0.48	< 0.001

TABLE 1. Means and standard deviations for SBA andWBA overall and within dimension

SBA, simulation-based assessment; WBA, workplace-based assessment; STD, standard deviation.

"This GRS has demonstrated evidence of content and discriminant validity, as well as high interrater reliability (0.75-0.94) and intrarater reliability (0.94) when used to assess paramedic trainees."



EDUCATION AND PRACTICE

GLOBAL RATING SCALE FOR THE ASSESSMENT OF PARAMEDIC CLINICAL COMPETENCE

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"First, we used only one unscripted case (a medical cardiac patient). This tells us that performance can be reliably differentiated, but it limits its external validity and prevents us from determining the extent to which individuals' general ability is captured by single application of the scale. In terms of external validity, whether similar results would be found when assessing candidates attending to a trauma victim, for example, requires further study."

	Impacts Patient Or Clinician Safety?*	Impacts Patient Comfort?	Impacts Procedure Outcome?	
1. Washed hands				
2. Checked that all necessary equipment is available and ready to use				
3. Put on examination gloves.				
4. Applied tourniquet				
5. Cleansed "skin" with 3 dry wipes to simulate alcohol pads.	/	To Con Chandrad		L CL III.
6. Held needle securely by wings or by plastic vacutainer connector.	(To Set Standards	s for Basic Procedura	I SKIIIS:
7. Inserted needle bevel up at approximately 30-degree angle to skin		Step 1. Ident	ify criteria for "essen	tial" items
8. Pressed the evacuated glass tube onto the piercing needle using connector and collected sample (if no blood returned to tube, examinee removed and reinserted needle in a new site).		전화 방법에서 동안하지 않는 것이 다 방법에 가지 않았다.	es apply criteria to ea it is essential or non-	
9. Removed tourniquet.		Step 3 Judge	es determine separat	e passing scores for
 Tube was removed from vacutainer connector before needle was removed from task trainer. 			non-essential items.	
11. Placed 2 \times 2 gauze over puncture site and withdrew needle, then applied pressure.		Conjunctive Crite	eria to Pass:	
12. Upon being asked by instructor, "How long would you tell the patient to apply pressure?" Answered, "2 min."		Learners mu	ust accomplish correc	
13. Placed needle in Sharps container.		items plus Y%	6 of non-essential iter	ms.
14. Inverted tubes 6–8 times.		 Non-essenti 	ial items do not comp	pensate for
 Disposed of all soiled supplies into proper containers ("bloodied" supplies into biohazard). 		essential iten	ns.	/
 Labeled samples with full name, ID number, location, date, time, initials, and test name. 				
17. Maintained sterility appropriately throughout the procedure.				
18. Asked, "What must you do once the procedure is completed?" Answered, "Document in the patient chart."				

*We chose to use patient/clinician safety, patient comfort, and procedure outcome as criteria for essential items. Other criteria may be substituted.

The most dangerous phrase in the language is "we've always done it this way."

Rear Admiral Grace Hopper (1906-1992)





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