

Supplement 4

a) Excerpt of the practical test P-Sim^{T3}

DOPS No. 1/3									
Heart					Pathology:				
Information text (Read out the following text slowly): „Your team resuscitates a 25-year-old patient in cardiac arrest and PEA. You decide to perform an ultrasound examination. Please examine the heart sonographically using the subxiphoid 4-chamber view and assess the findings.“					Cardiac tamponade				
Performance assessment					Pathology recognition				
Procedure	Expectation	yes	verb	man	Item	Points			
i Indication	Names a specific question before the beginning	2 ☐	1 ☐	0 ☐	Recognizes pathology completely, can name or describe it independently.	3 ☐			
P Position	Places the transducer in the correct position	2 ☐	1 ☐	0 ☐	Only partially recognizes the pathology or the extent of the pathology.	2 ☐			
O Orientation	Checks the orientation of the transducer	2 ☐	1 ☐	0 ☐	Recognizes the pathology only after verbal assistance. Help: "What does the area around the heart look like?"	1 ☐			
C Correction	Corrects the position and optimizes the image correctly	2 ☐	1 ☐	0 ☐	Does not recognize pathology / names pathology incorrect.	0 ☐			
U Ultrasound examination	Examines the target structure for the question	2 ☐	1 ☐	0 ☐					
S Save and speak	Saves an image / clip and names the findings	2 ☐	1 ☐	0 ☐					
Performance	very good	7	6	5	4	3	2	1	insufficient
Score		_____ of 19							

Examiner instructions	
General instructions	10 minutes per DOPS. If unable to complete the task independently, please provide verbal (verb) and, if necessary, manual (man) assistance.
Rating	Green = Yes = The candidate performs the task completely correctly / optimally. Yellow = verb = The candidate performed the task with difficulty, so that verbal help was necessary. Red = man = the candidate was only able to perform the task with manual help from the examiner.
Objectives	At this station, participants are given the opportunity to perform a focused, heart-related ultrasound examination and interpret the findings. Both the examination procedure according to iPOCUS and the detection of findings are evaluated.
Notes	- It is not necessary to count the total points. - The times must be strictly adhered to. - Start by reading the information text and stop the time.

b) iPOCUS approach with specific details

iPOCUS approach (handout for participants)	
Indication	Check the indication strictly. Define the question of your examination. Set a time limit.
Position	Locate the anatomical landmark. Apply sufficient ultrasound gel. Position the transducer.
Orientation	Disconnect: left side of the image should darken! Sagittal examination: disconnect cranially Transverse examination: disconnect on the right
Correction	Visualize the target structure. Adjust Depth, Gain and Focus. Use inspiration / optimize patient position.
Ultrasound examination	Examine the target structure. Evaluate across organ / structure borders. Determine flow / perform measurements.
Save and speak	Save images and clips. Inform the team. Discuss the next steps.