Supplement 2 DOPS test for songorpah identification oft he Conic Ligament

Participant code: **Auditor:**
Time of audit: ☐ before training ☐ after training

☐ case 1 vignette (for pocket device)::

You are an emergency physician/paramedic and are providing pre-hospital care to a patient with a vital airway obstruction. Intubation and the use of supraglottic airway aids have so far been unsuccessful. As the last option in the "cannot-ventilate-cannot-intubate" (CICV) situation, you plan to perform an emergency coniotomy. You would first like to sonographically locate the conic ligament and mark it with a cannula.

Task 1: Place the patient in an appropriate position and show the **landmarks** jugulum and cricoid cartilage with your finger. **(4 points)**

Proper positioning (head hyperextended, positioning aid under shoulders if necessary)	2 ☐		Both landmarks shown correctly	2 ☐
Positioning only carried out correctly when supported verbally	1 ☐		Only one landmark shown correctly	1 ☐
Positioning only carried out correctly when supported manually	0 ☐		No landmark shown correctly	0 ☐

Task 2: First locate the **transverse view of the trachea** as an orientation plane. Starting from this, show the tracheal cartilage, cricoid cartilage and thyroid cartilage in **several sagittal views** and identify the area of the conic ligament. **Show the structures**: ***thyroid gland, trachea/tracheal cartilage, cricoid cartilage, thyroid cartilage, infrahyoid muscles and the conic ligament***

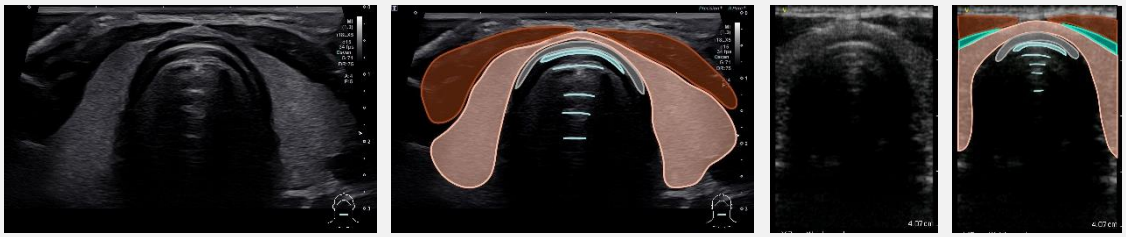
Transducer handling (max. 8 Points)

Orientation		**Positioning**		**Coupling of the transducer**		**image optimization**	
Correct, or immediately checked by the user based on the image movement/by decoupling	2 ☐	Correct or immediately transferred from another view	2 ☐	Transducer is well attached with sufficient amount of gel, constant pressure	2 ☐	Independent and adequate adjustment of appropriate image parameters (gain, penetration depth, focus) even during examination	2 ☐
Adjusts after initial difficulties/ after verbal help	1 ☐	Adjusts after initial difficulties/ after verbal help	1 ☐	Adjusts after initial difficulties/ after verbal help	1 ☐	Adjusts after initial difficulties/ after verbal help	1 ☐
Correct orientation only with manual help	0 ☐	Correct positioning only with manual help	0 ☐	No sufficient pressure and/or no gel + unregulated pressure / transducer partly in contact with air	0 ☐	No adequate continuous image optimization despite request, manual help necessary	0 ☐

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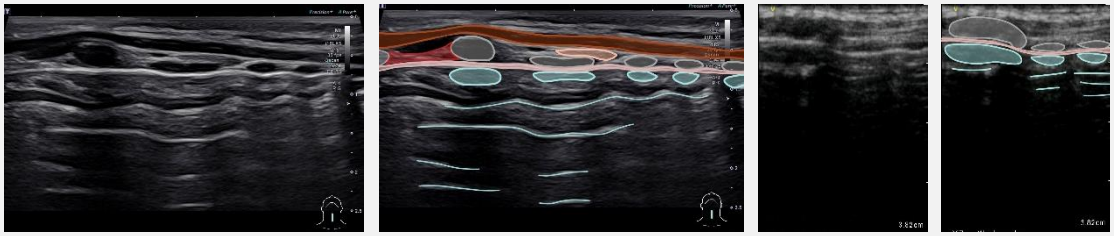
<u>Task 3</u> Examination procedure (12 points) + structure recognition/demonstration (8 points)	
Transverse view trachea correctly adjusted; trachea centrally in the image, tracheal cartilages and air reflexes can be seen, adequate speed	4 ☐
Transverse view trachea adequately adjusted; sometimes verbal assistance necessary or inadequate speed	2 ☐
Transverse view trachea only adjusted with manual help	0 ☐

Reference image: correctly named structures ☐ thyroid gland ☐ trachea ☐ infrahyoid muscles



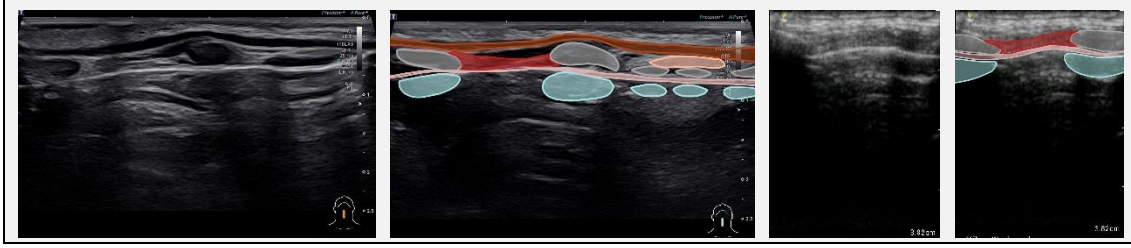
Correct transfer to **sagittal view I**: tracheal cartilages (“pearl necklace”) visible, T1 cartilage shown as an elongated structure, parts of the cricoid cartilage visible, adequate speed	4 ☐
Inadequate transfer to sagittal view I, not all structures visible, sometimes verbal help necessary or inadequate speed	2 ☐
sagittal view I only adjusted with manual help	0☐

Reference image: correctly named structures ☐tracheal cartilage ☐ cricoid cartilage



Correct transfer to **sagittal view II:** cricoid cartilage and thyroid cartilage visible, adequate speed	4 ☐
Inadequate transfer to sagittal view II, not all structures visible, sometimes verbal help necessary or inadequate speed	2 ☐
sagittal view II only adjusted with manual help	1 ☐

Reference image: correctly named structures ☐ cricoid cartilage ☐ thyroid cartilage ☐ conic ligament



<u>Task 4:</u> With the aid of a cannula, **mark the spot** (acoustic shadow) where the conic ligament is located (6 points)	
correct marking	6 ☐
correct marking only with verbal help	3 ☐
correct marking only with manual help	0 ☐

Reference images



Time:

total points:

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