

Pre-Course Knowledge Assessment

Please complete the knowledge assessment below.

Thank you!

What is your full name?

Have you had any formal education in point-of-care ultrasound prior to this academic year?

- ☐ Yes
☐ No

What education did you receive?

- ☐ Single training session
☐ Multiple training sessions
☐ Longitudinal training experience
☐ Other

Briefly describe your prior education:

How comfortable are you with using point-of-care ultrasound?

- ☐ Very uncomfortable - have no experience, do not know differences in probes/how to hold them, do not know how to adjust basic settings
☐ Uncomfortable - have some knowledge of how to use probes and adjust settings, but need guidance in practice on patients
☐ Neutral - know how to use probes and adjust settings, can identify normal structures with guidance
☐ Comfortable - know how to use the ultrasound and identify normal structures and some abnormal findings in patients who are easy to examine (thin body habitus, can follow commands) without guidance
☐ Very comfortable - can do all the above in patients who are difficult to examine and teach others

Ultrasound has a valuable role in the management of patients in the inpatient setting.

- ☐ Strongly disagree
☐ Disagree
☐ Neutral
☐ Agree
☐ Strongly agree

Ultrasound has a valuable role in the management of patients in the outpatient setting.

- ☐ Strongly disagree
☐ Disagree
☐ Neutral
☐ Agree
☐ Strongly agree

With adequate training and availability of equipment, how likely are you to integrate point-of-care ultrasound into your medical decision making when applicable?

- ☐ Very unlikely
☐ Unlikely
☐ Neutral
☐ Likely
☐ Very likely

Briefly describe how you may do this:

- 1 How would you optimize the following image?
- ☐ Decrease the gain
☐ Increase the gain
☐ Decrease the depth
☐ Increase the depth
 (Please see video below.)
-
-

- 2 How would you optimize the following image?
- ☐ Decrease the gain
☐ Increase the gain
☐ Decrease the depth
☐ Increase the depth
 (Please see video below.)
-
-

- 3 In order to maximize image quality, the probe should be aligned _____ to the object of interest.
- ☐ Parallel
☐ Perpendicular
☐ 45 degree angle
☐ 30 degree angle
-
-

Select the echogenicity of the following tissues in reference to a normal liver:

	Anechoic	Hypoechoic	Isoechoic	Hyperechoic
4 Spleen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5 Fluid (blood, ascites, effusions, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6 Pleura	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7 Renal cortex	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8 Diaphragm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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- 9 Which probe would be most suitable for examining the pleural space?
- ☐ Linear probe
☐ Phased array probe
☐ Curvilinear probe
-
- 10 A focused lung ultrasound is performed on a patient with acute hypoxic respiratory failure, with the following clip representative of all lung fields. What is the most likely diagnosis out of the options listed?
- ☐ COPD/asthma
☐ Congestive heart failure
☐ Pneumothorax
☐ Pulmonary embolism
(Please see video below.)
-
- 11 A 65yo man presents with shortness of breath, cough, and hypoxia requiring 6L nasal cannula. A focused lung ultrasound is performed, with the results shown in the following clip. What is the next step for management?
- ☐ Perform thoracentesis
☐ Initiate antibiotic therapy
☐ Consult CT Surgery for chest tube placement
☐ Obtain CTA Chest to evaluate for pulmonary embolism
(Please see video below.)
-
- 12 A 35yo woman with cirrhosis presents with 2 day history of abdominal pain and tenderness. A focused abdominal ultrasound was obtained and is shown below. What is the next step for management?
- ☐ Start aggressive bowel regimen
☐ Perform a diagnostic paracentesis
☐ Insert nasogastric tube for suctioning
☐ Initiate empiric antibiotic therapy
(Please see video below.)
-
- 13 Which artifacts are present in the following image? (Select all that apply)
- ☐ Side lobe artifact
☐ Reverberation artifact
☐ Acoustic shadowing
☐ Mirror image artifact
(Please see video below.)
-

Total score
