

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

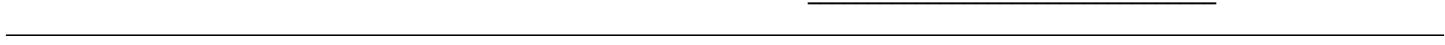
(Please see video below.)



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"/>

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 _____