

# CACTUS<sup>®</sup> Lung Assessment Pack

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## Summary of requirements

***Please also refer to the syllabus in the 'Training details' document***

Assessments for each module consist of 4 parts:

- Competencies
- Logbook cases
- Triggered Assessment
- Summary training record

Each need the relevant signatures from ICS approved trainers

**Only the summary training record should be sent to the ICS [CACTUS<sup>®</sup> Portal](#)**

## Competency Assessment Lung Ultrasound

	Name	GMC no	Job Title
Trainee			
Trainer 1			
Trainer 2			
Competence			Trainer signature
Checking patient's details/entry into machine as appropriate			
Confirmation of indication and check any supportive imaging			
Positioning of patient and machine ergonomically			
Selection of appropriate probe and optimisation of machine settings at each examination point			
Performs scan with probe placed at upper, lower and postero-lateral points bilaterally with probe orientated longitudinally (cephalad-caudad)			
Identification of subcutaneous tissue, ribs and pleura			
Identification of pleural sliding in 2D and M mode			
Recognition of signs of pneumothorax (2D and M mode) including lung point sign			
Demonstration of lung pulse			
Identification of A lines and B lines			
Identification of normal diaphragm, liver and spleen			
Identification of consolidation / atelectasis			
Identification of interstitial syndrome			
Identification of pleural effusion			
Differentiation of pleural thickening and pleural effusion (including sinusoid sign)			
Differentiation of pleural effusion from sub-diaphragmatic fluid			
Description of appearances of transudate and exudate			
Demonstration of how volume of effusion may be estimated			
Use of ultrasound to identify appropriate site for drainage of effusion			
Demonstration of ultrasound guided thoracocentesis (doctors only)			
Performance of technique safely and effectively			
Attention to sterility with respect to procedure, patient and machine			
Adequate documentation and storage of images and scans as appropriate			
Informing patient and reporting findings where appropriate			
Identification of whether a further scan or alternative imaging is indicated			
Cleaning of equipment and storage to minimise damage			

# Lung Ultrasound Logbook Reporting Form

*Training report only - not to influence clinical decision making without expert review*

Patient details			Operator	
Indication				
Image quality	Good	Acceptable	Poor	

Findings									
Probe position	Lung sliding		B lines (>2)		Consolidation		Pleural effusion		Other ( <i>enter text</i> )
Right upper anterior	yes	no	yes	no	yes	no	yes	no	
Right lower anterior	yes	no	yes	no	yes	no	yes	no	
Right Posterolateral	yes	no	yes	no	yes	no	yes	no	
Left upper anterior	yes	no	yes	no	yes	no	yes	no	
Left lower anterior	yes	no	yes	no	yes	no	yes	no	
Left posterolateral	yes	no	yes	no	yes	no	yes	no	
Other comments (eg size of effusion)									
Conclusion, clinical significance, suggested actions, referral required?									
Signed (trainee)	Signed (mentor)	Mentor comments							

*Training report only - not to influence clinical decision making without expert review*

## Lung Ultrasound Training Logbook

At least 30 scans with 10 directly observed. Max 10 normal (*print additional copies of this form as required*)

Study no.	Date	Diagnosis	Summary of US findings	Trainer (signature)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Study no.	Date	Diagnosis	Summary of US findings	Assessor (signature)
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

## Triggered Assessment in Lung Ultrasound (Supervisor)

In each of the following 3 sections the learner must achieve	Assessors comments	Competent?	
		Yes	No
<b>1. Preparation</b>			
Demonstration of appropriate attitude and professional manner		Tick	Tick
Explanation of procedure to patient as appropriate		Tick	Tick
Checking patient's details/entry into machine as appropriate		Tick	Tick
Confirmation of indication and check any supportive imaging		Tick	Tick
Positioning of patient and machine ergonomically		Tick	Tick
<b>2. The Scan</b>			
Selection of appropriate probe(s) and optimisation of settings		Tick	Tick
Places probe at upper, lower and postero-lateral points bilaterally in a longitudinal (cephalad/caudad) plane		Tick	Tick
Performs a systematic examination		Tick	Tick
Identification of subcutaneous tissue, ribs and pleura		Tick	Tick
Identification of pleural sliding in 2D and M mode		Tick	Tick
Identification of A lines, B lines, diaphragm, liver and spleen		Tick	Tick
Identifies any abnormalities and pathology correctly		Tick	Tick
<b>3. Post scan</b>			
Adequate documentation and storage of images as appropriate		Tick	Tick
Informing patient and reporting findings where appropriate		Tick	Tick
Identification whether need for further scan or alternative imaging		Tick	Tick
Cleaning of equipment and storage to minimise damage		Tick	Tick
<b>Overall performance, recording and interpretation of scan</b>		<b>Tick</b>	<b>Tick</b>

## Summary Training Record Lung Ultrasound

Only this should be submitted to the ICS for accreditation Trainers must be CACTUS® or FUSIC® lung approved

	Name	Hospital	GMC no	Job Title
Trainee				
Trainer 1				
Trainer 2				
Trainer 3				
Trainer 4				

Training component	Date completed	Trainer signature
E-learning		
Approved course		
Course location:		
Competencies signed off		
Logbook & supervised cases		
Triggered assessment		

Final sign off			
Trainer name		Trainer signature	
Date of completion			