



## **FUSIC® Heart Assessment Pack**

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## **FUSIC® Heart**

### **1. Summary of requirements**

Assessments for each module consist of 4 parts:

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

Each will need the relevant signatures from mentors and supervisor

Only the summary training record (STR) should be submitted via the [FUSIC® portal](#)

Please refer to the FUSIC® Training Pack for further details on this process



## 2. Competency assessment

	Name	Professional Reg no	Job title
Trainee			
Mentor			

Competency	Mentor Signature
Inputting patient's details into the ultrasound machine as appropriate	
Positioning of patient and machine ergonomically	
Selection of appropriate probe and optimisation of machine settings at each examination point	
Obtains optimised images at PLAX, PSAX, A4C and Subcostal windows	
Identifies anatomy in each window (chambers, walls, valves, great vessels, pericardium, lung)	
Comments accurately on adequacy of each view	
Demonstrates effective probe handling techniques	
Identification of a significantly dilated LV (LVIDd >6cm)	
Identification of LV dysfunction (reduced wall thickening & motion (global & regional), MAPSE <12mm)	
Identification of RV dysfunction (visual impression and TAPSE <17mm)	
Identification of a significantly dilated RV (RV:LV ratio >0.6)	
Identification of D shaped septum and paradoxical septal motion	
Identification of hyperdynamic heart	
Identifies, or able to describe, appearances of aortic dissection	
Identification of pericardial and pleural effusion	
Measures IVC accurately in 2D and/or M mode and identifies respiratory variation	
Performs exam in an appropriate way for the circumstances including an ALS compliant manner	
Knows when to seek expert assistance in a timely fashion	
Interprets findings in context with cardiorespiratory support	
Correlates echo findings with clinical picture and takes appropriate action / inaction	
Attention to infection control with respect to procedure, patient and machine	
Adequate documentation and storage of images and scans as appropriate	
Reports findings to clinical team as appropriate	
Identification of whether a further scan or alternative imaging is indicated	



### 3. Logbook report form

<b>Demographics (e.g Age, Gender, BMI)</b>		<b>Operator</b>	
<b>Indication for Scan</b>			
<b>Ventilation</b>	IPPV	PSV	SPONT
<b>Vital Signs</b>	HR:	BP:	CVP:
<b>CV Support</b>			
<b>Views</b>	PLAX	PSAX	AP4C SC4C IVC
<b>Image Quality</b>	Good	Acceptable	Poor

Findings			
<b>LV dilated?</b>	Yes	No	U/A
<b>LV significantly impaired?</b>	Yes	No	U/A
<b>RV dilated?</b>	Yes	No	U/A
<b>RV significantly impaired?</b>	Yes	No	U/A
<b>Evidence of low preload?</b>	Yes	No	U/A
<b>Pleural fluid?</b>	Yes	No	U/A
<b>Summary of findings</b> <i>(to include conclusion, clinical correlation, suggested actions and requirement for referral?)</i>			
<b>Trainee signature</b>		<b>Mentor Signature</b>	
<b>Mentor feedback</b>			

Note: circle as appropriate, U/A = unable to assess



#### 4. Training logbook

Study No.	Date	Diagnosis	Summary of main findings	Mentor Signature
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## 5. Triggered assessment

Learners must achieve	Supervisor comments	Competent?	
		Yes	No
Pre Scan			
Demonstration of appropriate attitude and professional manner			
Explanation of procedure to patient as appropriate			
Input patient's details into the ultrasound machine as appropriate			
Confirmation of indication and check any supportive imaging			
Positioning of patient and machine ergonomically			
The scan			
Sets up equipment acceptably including ECG			
Probe selection, handling and scanning technique			
Acquisition of optimised images using depth, gain and focus and demonstrates all views available			
Identifies pericardium and describes any effusion			
Describes ventricular dimensions and performs LVIDd			
Describes ventricular systolic function and performs MAPSE and TAPSE			
Identifies IVC, assesses diameter and degree of respiratory variation			
Comments on evidence for vasodilatation, hypovolaemia			
Post Scan			
Adequate documentation and storage of images as per departmental policy			
Informing patient and reporting findings where appropriate			
Identification whether need for further scan or alternative imaging			
Attention to infection control with respect to procedure, patient and machine			



## 6. Summary of training record

	Name	Hospital	Professional Reg no	Job title
Trainee				
Mentor 1				
Mentor 2				
Mentor 3				
Supervisor				

Training component	Date completed	Mentor/Supervisor Signature
E Learning		
Approved Course		
Name of approved course:		
Competencies		
Logbook		
Triggered assessment		

Final Sign Off	
Approved FUSIC® Heart Mentor (Full Name)	
Signature	
Approved FUSIC® Heart Supervisor (Full Name)	
Signature	
Date of Completion	