

Focused Echocardiography in Emergency Life Support (UK) Section D: Mentor's Guide

Editors

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Section D: Mentor's Guide

Contents

- i. Welcome Letter
- ii. Preface
- iii. Who can be a Mentor
- iv. What is required from a Mentor
- v. What is required from the Student

i. Letter

Dear Mentor

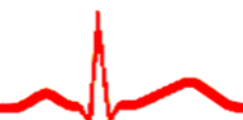
Thank you for agreeing to help this student with their basic peri resuscitation transthoracic echocardiography training. This document is intended to briefly explain the requirements for adequacy in peri resuscitation echocardiography. Further details can be found via the FEEL-UK website – www.FEEL-UK.com .

If you have any questions please do not hesitate to contact us via the FEEL-UK Steering Group.

Yours truly

Shahana Uddin

On behalf of the FEEL-UK Steering Group



ii. Preface

©FEEL - UK™ is a programme intended to train practitioners in the use of trans-thoracic echocardiography (TTE) in a standard manner during the peri-resuscitation period. It has been developed to meet training requirements in the UK using experience from various international courses teaching focused echocardiography in the critically ill (FEER Dr Raoul Breitzkreutz, Germany, FATE Dr Erik Sloth, Denmark, SMART-echocardiography Dr Gabriele Via, Italy). ©FEEL - UK™ was piloted in 2009 with invited delegates including trainees from ST1 to senior registrars, consultants from all specialities, the Royal Colleges and other societies involved in looking after critically ill patients, and the Resuscitation Council. Feedback from this group was incorporated to provide the current course format.

Course Format

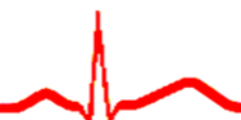
This student manual is designed to be used in conjunction with additional on-line learning materials and attendance at a one day course which comprises a 50:50 mixture of didactic lectures, and small group (maximum 3 students) hands-on training (HOT) sessions with live models, simulator sessions and computer-based teaching.

Course Objectives

- Achieve 4 standard TTE views: parasternal long axis (PLAX), parasternal short axis (PSAX) & Apical 4 chamber (A4Ch), subcostal (SC)
- Perform focused ALS-conformed echocardiography: synchronised with pulse checks (within 10seconds) thus limiting no-flow intervals in cardiac arrest
- Image interpretation: diagnosis of potentially treatable causes of cardiac arrest/circulatory collapse
 - myocardial insufficiency
 - pericardial collection (PC),
 - pulmonary embolus(PE)
 - hypovolaemia
 - exclusion of VF
- Communicate findings to the resuscitation team
- Understand the pitfalls and limitations of focused echocardiography
- Understand the requirements & mechanisms for ongoing training and certification in peri-resuscitation echocardiography

Who should attend?

The course is intended for those who are involved in the care of the critically ill patient, and does not require any previous echocardiography or ultrasound experience. ©FEEL - UK™ is intended as an adjunct to Advanced Cardiac Life Support, and therefore knowledge of the current ALS-algorithms is required.



iii. Who can be a Mentor?

A FEEL-UK mentor must be performing TTE on a regular basis and:

- a) TTE accredited or equivalent,
or
- b) FEEL-UK certified via the BSE

iv. What is required from a Mentor?

You will be required to support this student through their initial echo training, image acquisition and interpretation, including the following:

- Review student's echo images and interpretation (at least 50 examinations)
- Supervise at least 10 TTE examinations as they are performed and provide feedback on technique, image optimisation
- Sign the student logbook once you are happy the student is performing and interpreting a FEEL examination adequately

The TTE examinations must be performed during cardiac arrest or on supine level 3 critically ill patients.

An examination may be repeated on the same patient on different occasions if their condition has changed and a repeat echo would be clinically appropriate.

A student may have more than one mentor if either the student or mentor changes institution.

v. What is required from the student?

The student should perform a systematic scan, record their images and bring them to the mentor at a mutually convenient time to review the images and interpretation.

In the first instant this maybe one or two scan(s) at a time, but once the student is more proficient it may be possible to store and review several scans together.

A systematic scan should include attempts at all 4 views if possible.

Scans performed during a cardiac arrest may include only one or two views obtained within 10seconds as per the FEEL-UK guidance. This should be indicated on the logbook.

It is the responsibility of the student to forward the signed and completed logbook summary to their Course Director to be awarded FEEL-UK certification.

