



Module Specification

Introduction to Clinical Echocardiography

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Part 1: Information

Module title: Introduction to Clinical Echocardiography

Module code: USSKJ6-30-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

College: College of Health, Science & Society

School: CHSS School of Applied Sciences

Partner institutions: None

Field: Applied Sciences

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module introduces trainees to echocardiography in the clinical setting.

Features: Not applicable

Educational aims: This module aims to provide echocardiography trainees with the knowledge and skills to perform and report high-quality transthoracic echocardiography.

Outline syllabus: Recognition and interpretation of ECG and applications to echocardiography.

Indications for and effectiveness of echocardiography with respect to patient presentation, diagnostic and treatment pathways.

Ultrasound physics and equipment function / manipulation.

Normal cardiovascular anatomy and physiology.

Echocardiographic imaging planes with respect to cross sectional anatomy.

Normal parameters and advantages versus disadvantages relating to the measurement of normal parameters.

Introduction to the current national standards for performing and analysing data obtained during transthoracic echocardiography.

Alternative clinical imaging techniques used in cardiology practice.

Part 3: Teaching and learning methods

Teaching and learning methods: The module will be delivered as a mixture of online and on campus. On campus sessions will be taught over two block weeks and will include both theoretical and practical laboratory sessions.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Recognise and interpret ECG and apply to echocardiography.

MO2 Explain and apply the fundamental physical imaging principles relating to clinical echocardiography.

MO3 Evaluate and critique the role of echocardiography with respect to clinical presentation, diagnosis and management.

MO4 Explain and apply anatomical and physiological correlates to the traditional imaging planes used in transthoracic echocardiography.

MO5 Plan, execute and evaluate detailed echocardiographic data within the context of normal findings using nationally recognised clinical guidelines and reporting techniques.

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 218 hours

Face-to-face learning = 82 hours

Total = 300

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/index.html) via the following link <https://uwe.rl.talis.com/index.html>

Part 4: Assessment

Assessment strategy: Assessment 1 is a poster.

Trainees will present a poster to demonstrate an understanding of ECG interpretation and how this related to echocardiographic imaging and measurement (15minutes). Trainees are assessed on both the quality of their poster and their defence of the poster (10 minutes). This controlled conditions assessment has been selected to allow trainees to demonstrate an understanding of how ECG interpretation is essential for echocardiography imaging and quantification. Trainees will be able to select the exact topic of their poster, under the guidance of staff. This assessment will also act as a group learning and team building activity as trainees will have the opportunity to view the posters of others in a conference style event. This assessment also scaffolds to assessment 2, by allowing trainees to practice their presentation skills.

Students will be supported to succeed in this assessment by an assessment support session, where examples will be shown and also have the opportunity to receive verbal feedback on the draft of the poster in class.

Assessment 2 is a presentation (15 minutes + 5 minutes Q+A).

Assessment 2 is a presentation based upon a quality assurance activity, performed within the work place. This assessment measures the trainees understanding of the subjectivity of analysis of images and cardiac anatomy and the measurements

performed. Students will be supported to succeed in this assessment, by the completion of assessment 1.

Assessment tasks:**Poster (First Sit)**

Description: Presentation of poster (15 mins) and poster defence (10 mins)

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO4

Presentation (First Sit)

Description: Presentation based on Quality Assurance activity within the workplace (15 mins + 5 mins Q&A)

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2, MO3, MO5

Poster (Resit)

Description: Presentation of poster (15 mins) and poster defence (10 mins)

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO4

Presentation (Resit)

Description: Presentation based on Quality Assurance activity within the workplace (15 mins + 5 mins Q&A)

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2, MO3, MO5

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Clinical Echocardiography [Frenchay] PGCert 2023-24