



ECHO12005 Cardiac Clinical Unit 2

Term 3 - 2023

Profile information current as at 05/05/2024 03:51 am

All details in this unit profile for ECHO12005 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

This clinical unit will provide opportunities to apply and integrate both theoretical and practical knowledge, skills and professional behaviours in the clinical environment. In addition to the consolidation of skills in electrophysiological assessment, you will be exposed to a range of cardiovascular assessment techniques, including echocardiography. Using clinical cases you will analyse and reflect upon the information provided to produce provisional differential diagnoses and patient management plans within an ethical framework of best practice and patient safety. Behavioural aspects of professional practice are emphasised and you are expected to reflect on your own performance and exhibit the highest level of safe patient care. Critical appraisal of performance will enable you to advance your professional, technical and analytical skills in a work setting under qualified supervision.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisites: ECHO12003 Principles of Cardiac Assessment and ECHO12004 Cardiac Assessment Skills 1 OR ECHO12008 Doppler Echocardiography and ECHO12007 Cardiac Rhythm Assessment. Both ECHO12003 Principles of Cardiac Assessment and ECHO12004 Cardiac Assessment Skills 1 OR ECHO12008 Doppler Echocardiography and ECHO12007 Cardiac Rhythm Assessment must have been successfully completed within the last twelve months. Should this time limit have elapsed the student must successfully complete one (or more) technical skill, professional behaviour and diagnostic knowledge-based assessment(s) (after completion of technical skill / knowledge revision). Details of this will be articulated in a learning contract created by the Head of Course or designate.

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 3 - 2023

- Mixed Mode

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Portfolio**

Weighting: Pass/Fail

2. **Online Quiz(zes)**

Weighting: Pass/Fail

3. **Practical Assessment**

Weighting: Pass/Fail

4. **Practical Assessment**

Weighting: Pass/Fail

5. **Performance**

Weighting: Pass/Fail

6. **Learning logs / diaries / Journal / log books**

Weighting: Pass/Fail

7. **Professional Practice Placement**

Weighting: Pass/Fail

Assessment Grading

This is a pass/fail (non-graded) unit. To pass the unit, you must pass all of the individual assessment tasks shown in the table above.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from CQUni Success

Feedback

Financial implications associated with travel to attend placement sites proved difficult for some students.

Recommendation

Teaching staff will continue to promote CV69 course inherent requirements, including personal and financial commitments. Related information is already published in the course handbook and on the CV69 portal Moodle site, on circulated work-integrated learning advice and related platforms (SONIA) and reiterated at course open days/orientation sessions and in Head of Course foundation unit forums during the first few weeks of student course enrolment.

Feedback from Student Unit Evaluation Responses

Feedback

Learning resources were not perceived as useful by some students.

Recommendation

Being the first clinical placement unit undertaken by students, there was perhaps a misconception that the unit would be similar to other theoretical units. The purpose of this unit was to provide opportunities to apply and integrate both theoretical and practical knowledge, skills and professional behaviours into the clinical environment, consolidating and transferring knowledge and skills learnt to date. Learning resources presented were devised to support students making the transition from campus and simulation environment to the 'real world'. Resources were presented in modules under Moodle tiles labelled 'Strategies for success', 'Scope of practice' and 'Professional Expectations'. Some students entered placement with prior life skills, others did not.

Feedback from Unit coordinator

Feedback

Industry reported difficulties managing 'over-enthusiastic' students.

Recommendation

Whilst it was difficult to fault students willingness to help and learn, the occasional clinical staff found their over-enthusiastic student difficult to manage. This was largely because novice students lacked awareness of how they fitted into the wider team, and at times, they failed to pick up on non-verbal cues that they may have been overbearing or too involved in various scenarios (bearing in mind clinical staff have to communicate subtly when in front of a patient mid procedure). On occasion, some students did not always respect the personal space or privacy of staff when trying to get their daily tasks done. The unit coordinator will aim to better prepare students for future clinical placement experiences by discussing this topic prior to placement commencement.

Feedback from Unit coordinator

Feedback

There was low student engagement in tutorial offerings where case studies were presented for discussion, likely due to tiredness because students were concurrently working clinically. Selecting a time that is convenient for the majority is complicated by time zone variations.

Recommendation

Increased student and unit coordinator interactions will be encouraged through the Moodle forum. Weekly cases of interest will be posted along with question prompts. Students will be encouraged to reply in their own time via the general discussion forum. The unit coordinator will then offer additional feedback as the week unfolds, including more discussion prompts. This approach was well received by the student cohort when trialed in 2022, and will be expanded upon in future unit deliveries. Despite poor attendance, live Zoom tutorials will continue to be offered after hours on a week night, with recordings available for viewing afterwards. Tutorial attendance will be used more to canvas student experience and tailor pastoral support.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Perform electrophysiological and echocardiographic assessment on the cardiovascular system
2. Analyse and communicate the outcomes of cardiac assessment including consideration of quality assurance
3. Apply professional behaviour consistent with safe practice
4. Analyse, and critically reflect upon, clinical cases involving various cardiac assessment techniques
5. Attend clinical placement as per external accreditation requirements (Australian Sonographer Accreditation Registry).

Linked to National and International Standards

1. ASAR Accreditation Standards for Cardiac Sonography - critical practice Unit 8 - Cardiac, Foundation units of competence 1 - 5.
2. European Association of Cardiovascular Imaging Core Syllabus.
3. American Registry for Cardiac Sonography Core Syllabus.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Portfolio - 0%		•		•	
2 - Online Quiz(zes) - 0%		•		•	
3 - Practical Assessment - 0%	•	•			
4 - Practical Assessment - 0%	•	•			
5 - Performance - 0%			•		
6 - Learning logs / diaries / Journal / log books - 0%	•				
7 - Professional Practice Placement - 0%					•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Communication	•	•	•	•	•
2 - Problem Solving	•	•	•	•	
3 - Critical Thinking	•	•	•	•	

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
4 - Information Literacy	•	•	•	•	
5 - Team Work		•	•		
6 - Information Technology Competence	•	•	•	•	
7 - Cross Cultural Competence	•	•	•	•	
8 - Ethical practice	•	•	•	•	•
9 - Social Innovation					
10 - Aboriginal and Torres Strait Islander Cultures					

Textbooks and Resources

Textbooks

ECHO12005

Prescribed

Echocardiography: The Normal Examination and Echocardiographic Measurements

Edition: 3RD (2016)

Authors: Bonita Anderson

Echotext Pty Ltd

Brisbane , QLD , Australia

ISBN: 9780992322212

Binding: Hardcover

ECHO12005

Supplementary

12-Lead ECG: The Art of Interpretation

Edition: 2ND (2015)

Authors: Garcia, Tomas B.,

Jones & Bartlett Learning

Burlington , United States

ISBN: 9780763773519

Binding: Paperback

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

All submissions for this unit must use the referencing style: [Vancouver](#)
For further information, see the Assessment Tasks.

Teaching Contacts

Aidan Rickwood Unit Coordinator
a.rickwood@cqu.edu.au

Schedule

Cardiac Clinical Unit 2 Practicum - 6th Nov 2023 - 06 Nov 2023

Module/Topic

Content themes will be grouped and presented in a modularised format on the Moodle site. See eReading list

Chapter

Events and Submissions/Topic

Practicum blocks will occur within a clinical placement window spanning across term 3 on the academic calendar.

Most assessment due dates will be specific to each student, based on their individual practicum commencement date. Quiz assessment due dates will be aligned with the term 3 academic calendar. The Work Integrated Learning (WIL) team will allocate student placements and advise practicum commencement dates.

Term Specific Information

The unit coordinator for ECHO12005 Cardiac Clinical Unit 2 is Aidan Rickwood. The most efficient and preferred method of contacting Aidan is via the Q&A forum located on the unit Moodle site. If your query is of a personal nature, please contact Aidan directly via email (a.rickwood@cqu.edu.au) or phone (08 9260 4034). Aidan is based in Perth and his normal work day pattern is Monday to Wednesday. Out side of these hours, email and forum responses may be delayed. If enquiry is urgent, please contact the Head of Course Paula Boucaut via p.boucaut@cqu.edu.au.

This unit is designed as a multi-modality placement to enable familiarization with the cardiology department or clinic. This placement opportunity will provide students with their first opportunity to apply and integrate theory, practical skills, and professional behaviour into a clinical setting.

Students are required to participate in 320 hours (8 weeks) of clinical placement in this unit.

A minimum of 80 hrs of direct echocardiography observance / participation must be achieved during this 8-week clinical practicum block to meet Australian Sonographer Accreditation Registry (ASAR) requirements.

As placements may be located throughout Australia and availability is limited in each community, students may be allocated to clinical sites that are not of their choosing. 100% attendance is required when undertaking clinical placement. Students must prepare financially and personally to relocate for placements.

Placement blocks are not automatically extended beyond individually advised start/finish dates due to student absences mid practicum. Placement adjustments or extensions require Clinical Supervisor, Unit Coordinator and Head of Course approval.

If there are gazetted public holidays during allocated practicum blocks, these can be entered as 8 hours on the clinical attendance form and do not need to be 'made up'.

If a student is sick, please advise the Clinical Supervisor and Unit Coordinator as these hours do need to be 'made up'. A medical certificate will be required by the Unit Coordinator.

In the absence of timely notifications and submission of appropriate documentation, attendance shortfalls may delay student graduation, with outstanding hours requiring completion during an alternative practicum experience.

Please advise the Unit Coordinator in writing if there is a need to extend the placement end date in order to complete unit requirements.

If students complete the minimum 320 hours prior to the end of the clinical placement block, they are required to continue attending placement until the placement's prescribed finish date (unless an alteration to the standard placement block has been approved by the Head of Course and the Clinical Supervisor in writing).

Multiple academic staff will be providing presentations and hosting tutorials as part of this unit's delivery. Contact details for other academic staff can be found on the Moodle site. Zoom tutorial times and meeting IDs will be posted on the unit Moodle site. Whilst attendance is strongly encouraged, tutorials will be recorded and subsequently posted to Moodle for review by those who cannot attend.

A variety of reading resources and journal articles are detailed in the eReading list. Students are encouraged to review resources to support placement experience.

This is a PASS/FAIL non-graded unit. All coursework must be submitted by the published assessment due dates. If you are experiencing difficulty meeting unit assessment requirements please urgently contact the Unit Coordinator via email to discuss your concerns and request an extension with supporting documentation. All assessment tasks must be successfully completed to pass the unit overall.

Assessment Tasks

1 ECG Portfolio

Assessment Type

Portfolio

Task Description

The recording of the heart's electrical activity through the performance of a 12 lead Electrocardiogram (ECG) is vital in the monitoring, diagnosis, and treatment of various patients. This cardiac assessment tool is only beneficial however, when accurate clinical measurement (analysis and communication) strategies are applied.

This Portfolio assessment requires students to reflect upon their ability to accurately analyse and communicate the outcome of an adult 12 lead Electrocardiogram (ECG) during routine clinical practice.

During clinical practicum, students are requested to collect five (5) ECG traces, with a trace representative from each of the following categories:

1. Sinus rhythm, tachycardia, bradycardia, or arrhythmia
2. Atrial fibrillation or ectopy
3. Bundle branch block (LBBB or RBBB) or AV block (1st, 2nd, or 3rd degree)
4. Acute myocardial infarction or ischaemia

5. Artefact anomaly (i.e. electrical, wandering baseline, muscle tremor, lead attachment or calibration error) (Students who are unable to collect representative cases by week 4 of clinical practicum, should contact their Unit Coordinator for exemplars.)

Students are then required to complete the 'ECG assessment template' available on the unit Moodle site for sections 1a and 1b of this assessment task.

An example of this assessment item can be found on the Moodle site.

1a

For ECG traces from categories 1-4, students are required to:

- apply the Step-wise method of interpretation.
- summate key ECG features in preparation for communication of assessment outcome to a nominated Clinical Supervisor.

For the ECG trace from category 5, students must:

- identify key ECG findings that are associated with the demonstrated artefact.
- explain why the artefact anomaly likely occurred.
- postulate how the cardiac physiologist could reduce or eliminate the artefact anomaly during routine practise.

For all ECG traces, students must complete a comprehensive measurement assessment, demonstrating correct measurement units and listing corresponding normal reference values. Rationale must be provided for any abnormal measurement findings or measurements not performed.

At a mutually convenient time, students are responsible for scheduling a review of the 5 ECG traces analysed in Part A with their nominated Clinical Supervisor.

Students are required to document Clinical Supervisor feedback, noting any errors in clinical measurement (analysis or communication) strategies applied.

1b

Students are required to reflect on their Clinical Supervisor feedback, identifying performance strength/weakness, and develop a strategy for skills improvement where applicable.

This assessment is to be undertaken as an individual. As with all other university assessments, colluding with other students on non-group work tasks is considered academic misconduct, and may lead to action being taken the Deputy Dean of Learning and Teaching HMAS.

- Students are advised to refer to the 'Assessment Policy and Procedure (Higher Education Coursework)' document for additional university guidelines regarding assessments.

Assessment Due Date

Friday 8:00 pm (AEST) Week 6 of clinical practicum block allocation.

Return Date to Students

Individual student results will be made available within two (2) weeks of submission.

Weighting

Pass/Fail

Assessment Criteria

To facilitate Unit Coordinator review of assessment outcomes, a copy of clinically collected ECG traces must be submitted. All ECG's must be submitted as colour and as clear as possible to allow analysis of ECG's. If the clinical placement site does not have the capability of scanning high quality documents, there are multiple smart phone scanning apps that can be downloaded and used. ECG's can be uploaded separately if required.

The ECG assessment template (Part 1a and 1b) must be fully completed, including:

- application of the Step-wise method of ECG interpretation to ECGs from categories 1-4, and a summation of the overall impression of the presented ECG recording, as communicated to the nominated Clinical Supervisor.
- documentation of a proposed rationale for the artefact formation identified in ECG category 5, along with a plausible proposal for reduction or elimination of the artefact.
- summation of supervisor feedback following discussion of ECG outcomes, with Clinical Supervisor signature verifying discussion.
- a student reflection that identifies analysis and communication strength and weaknesses, and provides a sound strategy for skills improvement, where applicable.

In the absence of an approved extension, given there is no opportunity to apply a late penalty, any submission that is late will be awarded a FAIL.

In the event that a student does not achieve a PASS, students will only be given ONE opportunity to revise and resubmit their ECG portfolio.

- Any student who fails the first attempt will be offered additional feedback from the Unit Coordinator or nominated representative.
- Following additional feedback provision, the ECG portfolio re-submission will be required within 7 days.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

Submission of the ECG portfolio (5 x ECG traces + Completed ECG Assessment Template) is online via the Moodle assessment tab. Clinically collected ECG traces must be de-identified of all patient details, scanned in high resolution and submitted in a PDF format. JPEG format is not acceptable. Document must be appropriately labelled with student name, student number and document descriptor as illustrated (Example identification: John SMITH_S12345_ECG category 1).

Learning Outcomes Assessed

- Analyse and communicate the outcomes of cardiac assessment including consideration of quality assurance
- Analyse, and critically reflect upon, clinical cases involving various cardiac assessment techniques

2 ECG Quiz(zes)

Assessment Type

Online Quiz(zes)

Task Description

This assessment task will require you to complete three (3) separate quizzes.

Questions posed in each quiz will assess your ability to:

- apply a 'Step-wise method' of 12-Lead ECG interpretation.
- interpret the outcome of various forms of electrocardiogram (ECG) studies. For example 12-Lead, 3-Lead and 1-Lead ECG strips.
- construct links between cardiovascular disease presentation, assessment, and patient outcomes.

Students will be allowed two attempts at each quiz but no additional attempts will be provided.

- It is not compulsory to attempt each quiz two times.
- **The highest grade achieved will serve as the final score for that quiz.**

To offer flexibility, all three (3) quizzes will be simultaneously open. It is not a requirement that students are actively undertaking clinical placement at the time of quiz attempt. The duration of each quiz is tailored to promote recall of fact, rather than research of answers unknown. There is no time delay between attempts. Once started, each quiz attempt cannot be paused or restarted.

Each quiz will be marked out of 30 marks. There will be 30 minutes to complete each quiz.

- The number of marks allocated for each question will be indicated within the quiz.
- Question marks are allocated based on the accuracy, depth, and breadth of required responses and the question pool is randomised.

This assessment is open book. You may benefit from having normal Electrocardiographic reference ranges and a calculator available when attempting the quiz.

The topic focus for each quiz is listed below:

- Quiz 1 - Arrhythmias
- Quiz 2 - Heart block
- Quiz 3 - Myocardial infarction

Students are reminded that IT support from the university Information and Technology Division (TASAC) is only available during AEST business hours.

- If attempt issues occur outside of business hours, students should immediately email the Unit Coordinator documenting difficulties.
- Advice should include date and time of incident and screen shot from PC display if error evident.
- Incidents will be considered on a case by case basis. There is no guarantee extra quiz attempts will be offered.

This assessment is to be undertaken as an individual. As with all other university assessments, colluding with other students on non-group work tasks is considered academic misconduct, and may lead to action being taken the Deputy Dean of Learning and Teaching HMAS.

Students are advised to refer to the 'Assessment Policy and Procedure (Higher Education Coursework)' document for additional university guidelines regarding assessments.

Number of Quizzes

3

Frequency of Quizzes

Assessment Due Date

Week 12 Friday (9 Feb 2024) 11:59 pm AEST

Return Date to Students

Individual student results will be made available within two (2) weeks of quiz attempt. The online quiz question pool in its entirety will not be released to students.

Weighting

Pass/Fail

Minimum mark or grade

To PASS this assessment task, a minimum of 50% must be achieved for the combined 'overall' mark from quiz 1, 2 and 3 (i.e. 45/90 marks).

Assessment Criteria

Question responses will be assessed according to the:

- use of appropriate terminology and descriptors.
- student's ability to appropriately interpret electrocardiogram (ECG) studies, including application of the step-wise interrogation method.
- student's ability to succinctly respond with accurate answers, constructing links between cardiovascular disease presentation, assessment, and patient outcomes.

All quizzes must be attempted and completed by the published assessment due date.

- In the absence of an approved extension, given there is no opportunity to apply a late penalty, any submission that is late will be awarded a mark of zero (or FAIL).

The Online Quiz(zes) will be accessible through the assessment tab on Moodle.

Learning Outcomes Assessed

- Analyse and communicate the outcomes of cardiac assessment including consideration of quality assurance
- Analyse, and critically reflect upon, clinical cases involving various cardiac assessment techniques

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

At least one (1) attempt at all three (3) Quizzes is required to be completed by 11:59pm AEST, 9th February 2024, Friday week 12. In the case where students would like to utilise both attempts of each quiz, both attempts need to be completed by the due date and time..

Learning Outcomes Assessed

- Analyse and communicate the outcomes of cardiac assessment including consideration of quality assurance
- Analyse, and critically reflect upon, clinical cases involving various cardiac assessment techniques

3 ECG Practical

Assessment Type

Practical Assessment

Task Description

A 12-lead Electrocardiogram (ECG) is one of the simplest and fastest tests used by clinicians to evaluate cardiac abnormalities. The systematic approach and application of positioning the 12-lead ECG is universal. This helps to ensure that, when a person's ECGs are compared, any changes on the ECG are due to cardiac injury. The analysis of ECG signals recorded from misplaced electrodes can lead to misinterpretation or even to significant diagnostic errors. The objective of this assessment task is to demonstrate competency in independently performing a 12-Lead ECG in line with safe practice principles.

Students are responsible for scheduling their practical assessment with their Clinical Supervisor, at a mutually convenient time.

- This assessment task must be attempted prior to the completion of the clinical placement block.
- It is recommended that the first attempt takes place prior to the 7th week of the practicum, to allow time for re-attempt if required.

Students are advised to refer to the 'Assessment Policy and Procedure (Higher Education Coursework)' document for additional university guidelines regarding assessments.

Assessment Due Date

A completed Standard 12-Lead ECG Performance ARC tool must be submitted by Monday 5.00pm AEST, week 8 of clinical placement block.

Return Date to Students

Clinical Supervisors will provide direct feedback following practical assessment through both verbal conversation and return of the completed ARC tool. Any student who fails the first attempt will be provided additional counsel by the Unit Coordinator prior to reattempt.

Weighting

Pass/Fail

Assessment Criteria

The student will be assessed by the Clinical Supervisor using the Standard 12-Lead ECG 'Assessment of Readiness for Clinical'

(ARC) tool. The ARC tool can be found on the unit Moodle site.

This practical assessment must be completed within the set time frame (20 minutes).

You will be assessed on correct ECG performance technique including:

- patient interaction including ID checks and obtaining consent prior to starting test
- appropriate skin preparation
- correct rib palpation and anatomical landmark identification
- correct lead placement
- correct lead attached to correct electrodes
- ECG recorded at 25 mm/s with appropriate gain and calibration
- generation of artefact free ECG trace
- application of basic troubleshooting if required
- appropriate hygienic practice
- maintenance of patient comfort and modesty

In the absence of an approved extension, given there is no opportunity to apply a late penalty, any submission that is late will be awarded a FAIL.

Should a student fail the first attempt at this assessment task, only one re-attempt will be permitted.

- Any student who fails the first attempt is encouraged to seek additional counsel from the Unit Coordinator prior to re-attempt.
- The student will be required to consider feedback and develop a strategy to improve their performance.

Learning Outcomes Assessed

- Perform electrophysiological and echocardiographic assessment on the cardiovascular system
- Analyse and communicate the outcomes of cardiac assessment including consideration of quality assurance

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

Standard 12-Lead ECG Performance ARC tool must be completed at the time of practical assessment by the Clinical Supervisor. A completed ARC tool must be submitted online via the Moodle assessment tab for each assessment attempt. Document must be appropriately labelled with student name, student number and document descriptor as illustrated (Example identification: John SMITH_S12345_ECG Practical). Documentation may be submitted in Word or PDF format. JPEG format is not acceptable.

Learning Outcomes Assessed

- Perform electrophysiological and echocardiographic assessment on the cardiovascular system
- Analyse and communicate the outcomes of cardiac assessment including consideration of quality assurance

4 ECHO Practical

Assessment Type

Practical Assessment

Task Description

In preparation for clinical placement, simulation scanning laboratories offer a safe environment where students can learn and practice, without the pressure of real-world performance. This assessment task will evaluate your adaptation of practical simulation scanning skills and safe practice to clinical practice.

This practical assessment requires:

1. Demonstration of safe practice including hand hygiene and scanning ergonomics.
2. Acquisition of standard imaging windows with correct:
 - probe manipulation
 - image plane identification

- identification of key anatomical landmarks.

Students are responsible for scheduling the practical assessment with the Clinical Supervisor, at a mutually convenient time.

- This assessment task must be attempted prior to the completion of the clinical placement block.
- It is recommended that the first attempt takes place prior to the 7th week of the practicum, to allow time for re-attempt if required.

Students are advised to refer to the 'Assessment Policy and Procedure (Higher Education Coursework)' document for additional university guidelines regarding assessments.

Assessment Due Date

A completed Echocardiographic Practical Assessment ARC tool must be submitted by Monday 5.00pm AEST, week 8 of clinical placement block.

Return Date to Students

Clinical Supervisors will provide direct feedback following practical assessment through both verbal conversation and return of the completed ARC tool. Any student who fails the first attempt will be provided additional counsel by the Unit Coordinator or nominated person prior to reattempt.

Weighting

Pass/Fail

Assessment Criteria

Students will be assessed using the Echocardiographic Practical Assessment 'Assessment of Readiness for Clinical' (ARC) tool. The ARC tool can be found on the unit Moodle site.

Students will be required to demonstrate professional behaviour consistent with safe practice including:

- performance of appropriate hand hygiene
- application of knowledge of infection control practices at the patient bedside
- implementation of ergonomic adjustments during routine clinical scanning

Under Clinical Supervisor instruction, students will be required to demonstrate basic knowledge of ultrasound scanning and window acquisition including:

- obtaining on-axis orthogonal views
- identifying sector orientation
- manipulating the transducer
- using appropriate terminology

In the absence of an approved extension, given there is no opportunity to apply a late penalty, any submission that is late will be awarded a FAIL.

Should a student fail the first attempt at this assessment task, only one re-attempt will be permitted.

- Any student who fails the first attempt is encouraged to seek additional counsel from the Unit Coordinator prior to re-attempt.
- The student will be required to consider feedback and develop a strategy to improve performance.

Learning Outcomes Assessed

- Perform electrophysiological and echocardiographic assessment on the cardiovascular system
- Analyse and communicate the outcomes of cardiac assessment including consideration of quality assurance

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

The Echocardiogram Practical ARC tool must be completed at the time of practical assessment by the Clinical Supervisor. A completed ARC tool must be submitted online via the Moodle assessment tab for each assessment attempt. Document must be appropriately labelled with student name, student number and document descriptor as illustrated (Example identification: John SMITH_S12345_ECHO Practical). Documentation may be submitted in Word or PDF format. JPEG format is not acceptable.

Learning Outcomes Assessed

- Perform electrophysiological and echocardiographic assessment on the cardiovascular system
- Analyse and communicate the outcomes of cardiac assessment including consideration of quality assurance

5 Global Assessment of Professional Attributes (GAPA)

Assessment Type

Performance

Task Description

Clinical placement occurs in the professional workplace. As a clinical student, certain access is provided to that workplace

on the condition that behaviours and attributes of a healthcare professional are demonstrated while presenting a positive image to the clinical facility's staff and clients/patients. Students in the Sonography profession in Australia, are also required to be working toward consistent compliance with the Code of Conduct for Accredited Medical Sonographers.

Clinical sites mention professional behaviour, particularly team work and empathy, as paramount in their decision to employ a cardiac sonographer. This assessment considers your ability to communicate professionally with a diverse cultural audience of patients, staff, and the general public, demonstrate professional respect for all, and function as a reliable, well organised member of the health team.

The Clinical Supervisor or delegate, will be working with the student in the clinical setting, directly observing the student's day-to-day

performance. These observations and collected feedback relate to the student's demonstrated knowledge, skills and behaviours

over a span of time, not limited to a particular cardiac modality, scan type or patient case. The observations and feedback are then used to complete the Global Assessment of Professional Attributes (GAPA) form which can be found on the unit Moodle site.

There are three main sections to the GAPA form:

- Section 1: Applied knowledge
- Section 2: Psychomotor Skills and Standard of Work
- Section 3: Professionalism

In each section there are multiple performance cues that are required to be demonstrated throughout the placement.

The assessor will score the student's performance based on how frequently and to what extent the student demonstrates each of the

listed behaviours and attributes. The assessor is also encouraged to provide comments to expand on the scoring feedback. This assessment occurs TWICE during the placement. Students are responsible for scheduling their GAPA assessments with their Clinical Supervisor, at a mutually convenient time.

The first GAPA occurs at the mid-placement point, at the end of Placement Week 4.

The **mid-placement GAPA** assessment is formative, meaning it is a progress check designed to provide the student and Unit Coordinator with documented feedback. The student is expected to use feedback to reflect on the performance, develop

an action plan to address any areas of performance that are not yet at the target level for this placement, and use the remaining weeks of placement to achieve those targets. For any behaviour that the student scores well on at the mid-placement

assessment, it is expected that the student will continue to meet that level of performance or surpass it for the rest of the

placement. Any performance descriptors not satisfactorily demonstrated are to be scored 0 by the Clinical Supervisor.

If more than 50% of the performance descriptors are not demonstrated in the mid placement GAPA, a student will be regarded as a

'Student at Risk' of failing the clinical unit overall.

A student at risk:

- will be required to meet with the Unit Coordinator to discuss behavioural deficits, or to engage in email correspondence to the same effect
- must consider feedback and implement strategies for improvement
- will again be assessed a short time after an unsatisfactory mid placement GAPA, at a time requested by the Clinical Supervisor and/or Unit Coordinator
- will be awarded a fail grade for ECHO12005 Cardiac Clinical Unit 2, if unsatisfactory scores are achieved in the second 'final' GAPA, or improvements in performance are inadequate despite feedback provision.

A university representative will call or visit the clinical site during this process.

The final GAPA assessment is summative. By the end of the 8-week clinical practicum block, students must demonstrate ALL criteria descriptors at a NOVICE (Level 1) competency level.

(As this placement is the first of four in the CV69 course offering, students should use feedback in this end-of-placement assessment to inform their plans for improvement in the students subsequent placements.)

Occasionally student behaviour is beyond acceptable risk to clinical sites. Clinical Supervisors must contact CQUniversity academics immediately when this occurs.

- A GAPA assessment is requested at this time (which could be at any time during placement).

- If the outcome of this GAPA is unsatisfactory, and/or the site feedback indicates that they can no longer host the student

- due to the risk incurred, then this one GAPA alone, or site refusal to host, will constitute a FAIL.

- Where such risk exists, placement will terminate immediately.

- It is difficult to place such students in the clinical environment again and hence continued progress within the echocardiography course may be at risk.

Students who fail a clinical placement unit will be required to meet with the Head of Course to discuss the instigation of an individual learning contract, with a view to remedying the student's skills, technical issues and/or behavioural issues.

A learning contract:

- is individualised to the student, year level and situation at hand

- will detail individual learning objectives which must be achieved within a given time-frame

- will identify available learning resources and support strategies

- may mandate student attendance at practical labs for tuition

- may include progress checks (practical and/or theoretical tests) to ascertain improvement and maintenance of currency.

Students are advised to refer to the 'Assessment Policy and Procedure (Higher Education Coursework)' document for additional university guidelines regarding assessments.

Assessment Due Date

Due Date Mid Placement GAPA: Monday 4.00pm AEST starting week 5 of clinical placement block. Due Date Final GAPA: First Monday 4.00pm AEST, following completion of clinical placement block.

Return Date to Students

Feedback will be provided to students identified at risk of failing on the mid term GAPA within 5 business days of GAPA submission.

Weighting

Pass/Fail

Assessment Criteria

Students will be assessed using the Global Assessment of Professional Attributes (GAPA) marking tool. The marking tool can be found on the unit Moodle site.

By the end of the 8-week clinical practicum block, students must demonstrate ALL criteria descriptors listed on the marking tool at a **NOVICE (Level 1) competency level**.

'Novice' students are at the first level of skill acquisition.

- Students remember, understand, and recall theoretical concepts but may not associate these concepts to clinical context.

- Direct supervision and clear instruction is usually required, and students are often unaware of their own limitations.

- Students are relatively unfamiliar with professional standards and may not communicate effectively in the clinical environment.

Students at a 'Novice' level:

- Demonstrate awareness of listed behavioural attribute and its importance in practice.

- Frequently require supervision and assistance to perform tasks.

In the absence of an approved extension, given there is no opportunity to apply a late penalty, any submission that is late will be awarded a FAIL

Learning Outcomes Assessed

- Apply professional behaviour consistent with safe practice

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

The completed GAPA marking tools must be submitted online via the Moodle assessment tab. Documents must be appropriately labelled with student name, student number and document descriptor as illustrated (Example identification: John SMITH_S12345_Final GAPA). Documentation may be submitted in Word or PDF format. JPEG format is not acceptable.

Learning Outcomes Assessed

- Apply professional behaviour consistent with safe practice

6 Clinical Case Log Book

Assessment Type

Learning logs / diaries / Journal / log books

Task Description

The Clinical Case Log Book is a document designed to track clinical experience. Whilst on clinical placement, students are

required to maintain a record of ALL clinical cases that they observe, participate in or perform.

It is recommended that:

- the Clinical Case Log Book is completed at the end of each clinical day.
- students analyse this record at regular intervals to assist in the formulation of learning goals that will support the achievement of unit outcomes.

The Clinical Case Log Book summates clinical case exposure into two tables (non-echo and echo activities), documenting the weekly cumulative case volume under descriptive category titles.

- Echocardiography cases will be categorised under the following titles: Transthoracic (TTE), Transoesophageal (TOE), Stress echo (SE), Dobutamine echo (DSE), and other.
- Other cardiac measurement modality cases will be categorised under the following titles: ECG, Exercise stress testing (EST), Holter monitoring, Blood pressure monitoring (BP), Cath lab, Electrophysiology studies (EP), Cardiac rhythm management procedures / Pacemaker checks (CRM), and other.

Each week of the log book must be signed by the Clinical Supervisor, appropriately qualified medical practitioner, or the cardiac sonographer delegated by the Clinical Supervisor.

Maintenance of a Clinical Case Log Book helps to ensure that:

- an acceptable volume of clinical work is achieved
- exposure to a reasonable case variety is achieved to support development of key practical skills

Students are advised to refer to the 'Assessment Policy and Procedure (Higher Education Coursework)' document for additional university guidelines regarding assessments.

Assessment Due Date

The Clinical Case Log Book must be submitted by the first Monday 5.00pm (AEST), following the completion of the 8-week clinical placement block.

Return Date to Students

Feedback will be provided within two weeks of submission.

Weighting

Pass/Fail

Assessment Criteria

In order to achieve an overall grade of PASS for this assessment task, students must:

- Observe, participate in, or perform a minimum of 20 echocardiography cases, from any category during clinical placement.
- Perform a minimum of 20 standard 12-lead ECGs in line with safe practice principles.
- Ensure log book is signed by the Clinical Supervisor, appropriately qualified medical practitioner, or the cardiac sonographer delegated by the Clinical Supervisor.
- Ensure documentation is submitted by the due date.

In the absence of an approved extension, given there is no opportunity to apply a late penalty, any submission that is late will be awarded a FAIL.

Document submission needs to adhere to guidelines of the assessment.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

Submit through Moodle assessment tab. Document must be appropriately labelled with student name, student number and document descriptor as illustrated (Example identification: John SMITH_S12345_Clinical Case Log Book).

Documentation may be submitted in Word or PDF format. JPEG format is not acceptable.

Learning Outcomes Assessed

- Perform electrophysiological and echocardiographic assessment on the cardiovascular system

7 Clinical Attendance Log Book

Assessment Type

Professional Practice Placement

Task Description

The ECHO12005 clinical practicum experience is 8-weeks in duration. Students are expected to undertake clinical placement in a full time capacity, working 40 hours per week equivalent.

During this 8-week (320 hour) clinical practicum, students must:

- achieve a minimum of 80 hours (2 weeks x 40 hours) of direct echocardiography observance/participation approved by an ASAR registered Clinical Supervisor or appropriately qualified medical practitioner.
- complete an additional 240 hours (6 weeks x 40 hours) of multimodality exposure within the cardiac department.

As students are experiencing the 'real' work life of an Echocardiographer / Cardiac physiologist, they may be required to work outside of a nine to five, Monday to Friday roster and travel to various site locations.

Students will be required to submit the Clinical Attendance Log book in two parts, to enable check of attendance compliance mid-practicum.

7a. A mid-placement Clinical Attendance Log Book following the completion of 4-weeks of clinical placement.

7b. The end of placement final Clinical Attendance Log Book following the completion of the 8-week clinical placement block. (This submission documents the final 4-weeks of clinical placement.)

Once students have completed the minimum number of hours, they are required to continue attending placement until the placement's prescribed finish date unless an alteration to the standard placement block has been approved by the Head of Course and the Clinical Supervisor.

Students are advised to refer to the '**Bachelor of Echocardiography and Cardiac Physiology Student and Clinical Supervisor Handbook**' document for additional information. This document is available through the Work Integrated Learning - Sonia Online site, and the ECHO12005 Moodle site.

All hours worked must be entered into the Clinical Attendance Log Book. This form must be signed by the Clinical Supervisor, or a sonographer delegated this task by the Clinical Supervisor.

- The Clinical Attendance Log Book form is available on the Moodle site.
- Students are advised to print this form and read it carefully so they understand the criteria against which their clinical attendance will be evaluated.

At the end of the scheduled placement, if the student has not met the 100% attendance requirement, opportunity for practicum extension and 'makeup days' will be explored.

- This scheduled make-up time may not immediately follow the scheduled placement, and/or may not be at the same placement site, depending on clinical availability.

100% attendance requirement must be met and any absence from the scheduled placement requires approval from Head of Course / Unit Coordinator or a score a 'FAIL' will be given for this assessment item.

Leave arrangements:

Students must not organise holidays, recreational leave or personal appointments during clinical placement periods.

- Students are to notify the clinical placement site prior to their scheduled start time if they will be late arriving to the clinical placement site for any individual day throughout the clinical placement.
- Students who are absent from clinical placement due to sickness must phone their Clinical Supervisor and email their Unit Coordinator prior to their scheduled start time for that day.

For all absences, students must provide the Clinical Supervisor and Unit Coordinator with a medical certificate or statutory declaration. Any clinical placement hours lost to sickness must be made up.

Injury:

Students who are absent from clinical placement due to injury must phone their Clinical Supervisor and email their Unit Coordinator prior to their scheduled start time for that day.

- Any injury that occurs while on placement must be reported immediately to your Clinical Supervisor and Unit Coordinator.
- Medical clearance may be required before returning to placement to ensure fitness to practice.

Any clinical placement hours missed due to injury must be made up.

Public holidays/university vacation periods:

Public holidays recognised by CQUniversity are outlined on the academic calendar.

- When a public holiday falls during a clinical placement block, public holiday dates can be entered as 8 hours for each day into the Attendance Log Book and hours are not required to be made up.
- If a designated University student vacation period coincides with the clinical placement period, students are expected to attend during this time.
- Students are advised that attendance at clinical placement takes precedence over any personal work commitments as related to absenteeism.

Any days absent from the clinical site must be appropriately documented.

COVID-19 disruptions:

Practicum non-attendance due to adherence to government or departmental COVID-19 health and safety directives should be noted in Attendance Log Book by acronym 'CD'.

- Requirement for make-up of days absent due to COVID-19 disruptions (CD), will be evaluated on a case-to-case basis.

On occasion, student clinical placements may be suspended due to COVID-19 government / LGA directives.

- During such times, students with coexistent employment may be able to continue site attendance under scope of practice as an 'essential healthcare worker'.
- Such an arrangement is governed by student-employer contractual arrangements and separate to university clinical placement arrangements.
- Hours of employment completed during these times can be documented on the 'outside clinical placement attendance form', provided experience matches placement learning objectives.

Outside of Clinical Placement hours:

Students are able to record clinical attendance hours completed 'outside' of clinical placement arrangements. These 'outside' attendance hours can be used to supplement those in the assessed Clinical Attendance Log Book in the event of sickness or injury, but may not be utilised for personal leave requests.

- Students are permitted to supplement up to 25% of required unit hours from outside of clinical placement.
- These hours must be documented within three (3) months prior to unit enrolment for approval by the Unit Coordinator.
- Supplementary hours outside of clinical placement must be verified (signed) by an ASAR accredited sonographer or appropriately qualified medical practitioner.

Details of student insurance or employment, must also be documented on the 'outside clinical placement attendance form' where practical experience is obtained outside of the university scheduled clinical placement block.

Students are advised to refer to the 'Assessment Policy and Procedure (Higher Education Coursework)' document for additional university guidelines regarding assessments.

Assessment Due Date

A mid-placement Clinical Attendance Log Book must be submitted by Monday 5.00pm (AEST), week 5 of clinical placement. The final Clinical Attendance Log Book must be submitted by the first Monday 5.00pm (AEST), following the completion of the 8-week clinical placement block.

Return Date to Students

Feedback will be provided within two weeks of submission.

Weighting

Pass/Fail

Assessment Criteria

In order to achieve an overall grade of PASS for this assessment task, students must:

- Document completion of the minimum number of hours of clinical practicum.
- Ensure log book is signed by the Clinical Supervisor, appropriately qualified medical practitioner, or the cardiac sonographer delegated by the Clinical Supervisor.
- Ensure documentation is submitted by the due date.

In the absence of an approved extension, given there is no opportunity to apply a late penalty, any submission that is late will be awarded a FAIL.

Learning Outcomes Assessed

- Attend clinical placement as per external accreditation requirements (Australian Sonographer Accreditation Registry)

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

Submit through Moodle assessment tab. Document must be appropriately labelled with student name, student number and document descriptor as illustrated (Example identification: John SMITH_S12345_Clinical Attendance Log Book).

Documentation may be submitted in Word or PDF format. JPEG format is not acceptable.

Learning Outcomes Assessed

- Attend clinical placement as per external accreditation requirements (Australian Sonographer Accreditation Registry).

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem