



ECHO28005 *Ultrasound Imaging of Congenital Heart Disease*

Term 2 - 2021

Profile information current as at 03/05/2024 08:45 am

All details in this unit profile for ECHO28005 have been officially approved by CQUiversity 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

Cardiac sonographers are required to perform complex assessments to aid in the diagnosis of cardiac pathologies associated with congenital heart disease in both the paediatric and adult populations. In this unit you will study the link between disordered embryological development, congenital heart disease, and corrective interventional procedures. You will build upon your knowledge by exploring corrective and palliative interventions and post-operative evaluation of congenital heart disease using advanced cardiovascular assessment techniques including 3-D, strain, contrast, exercise stress testing, echocardiography and trans-oesophageal echocardiography (TOE). You will apply your knowledge to a variety of case studies, perform advanced haemodynamic calculations, critically evaluate assessment data and patient management strategies within an ethical framework of best practice and patient safety.

Details

Career Level: *Postgraduate*

Unit Level: *Level 8*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisite: ECHO28002 Assessment of Ventricular Function

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 2 - 2021

- Online

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 Postgraduate 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. **Online Quiz(zes)**

Weighting: 40%

2. **Case Study**

Weighting: Pass/Fail

3. **Online Test**

Weighting: 60%

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

Weighting: Pass/Fail

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

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](#).

Unit Learning Outcomes

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

1. Differentiate the aetiology and related cardiac assessment data of congenital cardiac pathologies across the life span of a patient
2. Compare and contrast advanced imaging modalities involved in the assessment of congenital heart disease
3. Apply haemodynamic calculations used in complex cardiac assessment
4. Critically evaluate the diagnostic and therapeutic procedures in congenital heart disease management
5. Analyse and critically reflect upon the outcome of a comprehensive and complex echocardiographic scan
6. Engage in cardiac ultrasound practice as per external accreditation requirements (Australasian Sonographer Accreditation Registry).

Linked to the Australian Sonographers Accreditation Registry (ASAR) Accreditation Standards for Cardiac Sonography:

Foundation Units of Competence

- Unit 1: Deliver safe, patient centred service
- Unit 2: Practice within professional and ethical frameworks
- Unit 3: Locate, analyse and synthesise information to support evidence based practice
- Unit 4: Contribute to workplace health and safety and quality assurance
- Unit 5: Communicate effectively

Critical Practice Unit of Competence

- Unit 8: Cardiac

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Online Quiz(zes) - 40%	•	•	•	•	•	
2 - Case Study - 0%			•		•	•
3 - Online Test - 60%	•	•	•	•	•	
4 - Learning logs / diaries / Journal / log books - 0%						•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
1 - Knowledge	○	○	○	○	○	○
2 - Communication	○	○	○	○	○	○
3 - Cognitive, technical and creative skills	○	○	○	○	○	○

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
4 - Research			○	○	○	
5 - Self-management						○
6 - Ethical and Professional Responsibility						○
7 - Leadership						
8 - Aboriginal and Torres Strait Islander Cultures						

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes							
	1	2	3	4	5	6	7	8
1 - Online Quiz(zes) - 40%	○	○	○	○				
2 - Case Study - 0%	○		○	○				
3 - Online Test - 60%	○	○	○	○				
4 - Learning logs / diaries / Journal / log books - 0%	○	○	○		○	○		

Textbooks and Resources

Textbooks

ECHO28005

Supplementary

ASE's Comprehensive Echocardiography

Edition: Second (2016)

Authors: Roberto M. Lang

Elsevier

Philadelphia , PA , USA

ISBN: 9780323327343

Binding: Hardcover

ECHO28005

Supplementary

A Sonographer's Guide to the Assessment of Heart Disease

Edition: First (2014)

Authors: Bonita Anderson

MGA Graphics

Brisbane , QLD , Australia

ISBN: 9780992322205

Binding: Hardcover

Additional Textbook Information

If you prefer to study with a paper text, you can purchase one at the CQUni Bookshop here:

<http://bookshop.cqu.edu.au> (search on the Unit code).

[View textbooks at the CQUniversity Bookshop](#)

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

Sudeepthi Singarayar Unit Coordinator

s.singarayar@cqu.edu.au

Paula Boucaut Unit Coordinator

p.boucaut@cqu.edu.au

Schedule

Week 1 - Introduction to Congenital Heart Disease - 12 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Introduction to Congenital Heart Disease:

- Foundation concepts and the segmental sequential analysis
- CHD views, vessels and terminology
- Circulation in the foetus and the first few weeks of life

See eReading list via Moodle

Week 2 - Simple shunts - 19 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
Simple shunts: <ul style="list-style-type: none">• Atrial septal defects• Ventricular septal defects• Patent ductus arteriosus and other shunts	See eReading list via Moodle	

Week 3 - Isolated lesions - 26 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
Isolated lesions: <ul style="list-style-type: none">• AVSD• Ebstein anomaly• Coronary arteries - Kawasaki's and ALCAPA	See eReading list via Moodle	

Week 4 - LV Inflow and outflow lesions - 02 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
LV inflow lesions: <ul style="list-style-type: none">• The left atrium - coratriatum, supra-mitral membrane, parachute MV, DOMV LV outflow lesions: <ul style="list-style-type: none">• The left ventricle - sub-valvular and valvular lesions• The aorta - supra-valvular AS and coarctation	See eReading list via Moodle	

Week 5 - RV outflow lesions - 09 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
RV outflow lesions: <ul style="list-style-type: none">• DCRV - Double chambered right ventricle• Pulmonary stenosis: Infundibulum to branch	See eReading list via Moodle	

Break Week - 16 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - Complex lesions 1 - 23 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Complex lesions 1: <ul style="list-style-type: none">• Truncus arteriosus• Pulmonary atresia	See eReading list via Moodle	

Week 7 - Complex lesions 2 - 30 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Complex lesions 2: <ul style="list-style-type: none">• d-TGA• cc-TGA	See eReading list via Moodle	The quiz will open at 8:00 am (AEST) on Friday 3rd September (Week 7) and will close at 8:00 pm (AEST) Monday 6th September.

Week 8 - Complex lesions 3 - 06 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Complex lesions 3:
 • Tetralogy of Fallot See eReading list via Moodle
 • Univentricular Hearts

Week 9 - Venous anomalies - 13 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
Venous anomalies: • Anomalies of the pulmonary veins • Anomalies of the systemic veins	See eReading list via Moodle	

Week 10 - CHD outside the echo lab - 20 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
CHD outside the echo lab: • Congenital Services overview • Other tests used in CHD: MVO2, CMR, CT, EPS • Syndromes associated with CHD. Marfan's, Noonan's, Downs, Williams, Turners, Scoliosis, etc.	See eReading list via Moodle	CASE STUDY Due: Week 10 Friday (24 Sept 2021) 7:00 pm AEST

Week 11 - Bringing it all together - 27 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
Bringing it all together: • Clinical case studies	See eReading list via Moodle	

Week 12 - Revision /Exam - 04 Oct 2021

Module/Topic	Chapter	Events and Submissions/Topic
• Revision		The online test will be open from 8:00 am (AEST) on Friday 8th of October (week 12) and will close at 8:00 pm (AEST) Monday 11th of October. CLINICAL CASE LOG BOOK Due: Week 12 Tuesday (5 Oct 2021) 7:00 pm AEST

Term Specific Information

Unit Coordinator and Contact Details

The Unit Coordinator for ECHO13008 is Sudeepthi Singarayar. The preferred method for contacting Sudeepthi is via the Learning Community Q&A Forum located on the Moodle site for content-related questions. If the query is of a personal nature, please email s.singarayar@cqu.edu.au, or phone (02) 9324 5036. Sudeepthi's workdays are Wednesday, Thursday and Friday and she is based on the Sydney Campus.

Unit Tutorials

Tutorials for this unit will be delivered 'live' online using ZOOM (the links required for accessing the tutorials are provided on the Moodle site under the Virtual Classes tile). The tutorials will focus on clarification of theoretical concepts and assessment requirements. Clinical case studies will also be shown, demonstrating practical application of the theoretical content.

Tutorials are designed to complement the theories and principles presented in lectures. Tutorials provide an opportunity for discussion and interaction with other students and with your tutor. It is important students make the most of these interactive sessions and participate fully in order to broaden knowledge and experience with the course material.

Note: Tutorials are recorded for educational purposes. Recordings of Zoom tutorials may be uploaded and appear on YouTube, Moodle and Microsoft Teams. If you have any concerns about being recorded please turn off your webcam or audio, or both, during the session. Your participation will signify your consent to the recording and publication for educational purposes.

Unit Study Commitment

As per Australian educational standards, there is an expectation of 150 hours of engagement required to complete learning and assessment tasks associated with this 6 credit point unit. (i.e. 12.5 hours per week) Weekly revision material will be provided. Attempting all provided revision material will help you prepare for your online test. No new lecture material will be presented during week 12 of term. This week will be used to prepare for the final assessment.

Assessment Tasks

1 ONLINE QUIZ

Assessment Type

Online Quiz(zes)

Task Description

This online quiz will assess your understanding of the content presented within this unit up to and including week 6. Questions may be drawn from lectures, additional resources provided (e.g. prescribed readings) or tutorial presentations.

The quiz can be accessed through the assessment tab on Moodle at the assigned time.

- The online quiz will be open for 70 minutes, this includes a perusal time of 10 minutes.
- Each quiz will automatically close at 8:00 pm (AEST) on Monday 6th September.
- The online test will automatically close and submit completed student answers once the allocated time has elapsed.
- The duration of this test is tailored to promote recall of fact, rather than research of answers unknown.
- You will be required to answer a variety of online questions. Questions may include multiple-choice, short answers, essay style, or image interpretation format.
- The number of marks allocated for each question will be indicated within the online test. Question marks are allocated based on the accuracy, depth and breadth of required responses.
- All questions are to be answered in the space provided.

You are permitted ONE attempt to complete the online quiz, and once started, the quiz cannot be paused or restarted. Students are reminded that IT support from the university Information and Technology Division (TASAC) is only available during AEST business hours. It is recommended that the online quiz is completed during business hours.

As the quiz is online and open book, you will find it useful if you have produced your own notes from the lectures and that you are familiar with the unit information. Questions will be drawn from a resource bank and randomised, to allow the quiz to be different for each student. You may benefit from having a calculator available when sitting the test. This assessment is to be undertaken as an individual.

Please note that the quiz must be completed before the due date listed. In the absence of an approved extension, there will be no opportunity to complete the task after this date, and there will be no opportunity to apply a late penalty of five percent per day. Students will receive a mark of zero (or fail) for this assessment if they have not completed it by the scheduled date and time and do not have an extension.

As with all other university examinations, colluding with other students on non-group work tasks is considered academic misconduct, and may lead to action being taken by the Deputy Dean of Learning and Teaching HMAS.

This assessment result is summative toward the final unit grade. Students are advised to refer to the 'Assessment Policy and Procedure (Higher Education Coursework) document for additional university guidelines regarding assessments.

Number of Quizzes

1

Frequency of Quizzes

Other

Assessment Due Date

The quiz will open at 8:00 am AEST on Friday 3rd September (Week 7) and will close at 8:00 pm AEST Monday 6th September.

Return Date to Students

Individual student results will be made available once submissions have been marked. The online quiz question pool in its entirety will not be released to students.

Weighting

40%

Minimum mark or grade

50%

Assessment Criteria

You will be required to answer a variety of online questions.

Question responses will be assessed according to the student's

- Use of appropriate terminology and descriptors as well as grammar and spelling.
- Ability to differentiate various congenital cardiac pathologies
- Ability to succinctly respond with accurate answers.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

The online quiz will be accessible through the assessment tab on Moodle

Learning Outcomes Assessed

- Differentiate the aetiology and related cardiac assessment data of congenital cardiac pathologies across the life span of a patient
- Compare and contrast advanced imaging modalities involved in the assessment of congenital heart disease
- Apply haemodynamic calculations used in complex cardiac assessment
- Critically evaluate the diagnostic and therapeutic procedures in congenital heart disease management
- Analyse and critically reflect upon the outcome of a comprehensive and complex echocardiographic scan

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research

2 CASE STUDY

Assessment Type

Case Study

Task Description

The purpose of this case study submission is to:

- Provide the unit coordinator with an opportunity to critically evaluate and moderate student technical performance on a case that they have performed as part of their clinical workload.
- Facilitate the continued development of student clinical reasoning.
- Encourage student reflection and self-improvement, of both technical and research skills, pathology knowledge and assessment strategies.

The submitted case study should meet the following descriptive criteria:

- **An exemplar of congenital heart disease**

This may include findings such as a bicuspid aortic valve, mitral valve prolapse, atrial or septal defects, patent ductus arteriosus or coarctation.

There are two components to this case study submission:

1. **Written case study**
2. **Accompanying echocardiographic DICOM study.**

The student must have completed the majority of the echocardiographic scan submitted (i.e. obtained no less than 60% of the submitted digital clips). Images obtained by the clinical supervisor should be identified in the written case study or on the DICOM digital clips themselves. The student must have performed the submitted case study during the current academic term.

The case study submission should include:

- Referral details provided by requesting Doctor.
- Details of expected findings based on clinical indications.
- Patient care considerations.
- A brief discussion of any previous imaging or medical testing available.
- Variations in scanning protocol used, including justification. Identification of study limitations (imaging and/or measurement).

- A detailed description of study findings and pathology identified, including grading of severity in accordance with ASE guidelines.
- Discussion of aetiology and pathophysiology.
- Discussion of appropriate additional investigations indicated (i.e. stress or dobutamine echocardiography, transesophageal echocardiography, left or right heart catheterisation, MRI etc).
- A brief explanation of likely or expected disease progression and patient management (including any follow up consultation or testing details if available at time of case study completion).
- A copy of the anonymised provisional or final echocardiographic report.
- Clear identification of any supervisor assistance provided to complete the examination.

The echocardiographic case study presented must be accompanied by the submission of de-identified digital images in DICOM format.

- All clinical information must be de-identified to protect patient privacy and confidentiality.
- Time and date stamp along with technical information should be retained on the echocardiographic image display.

If all attempts to de-identify the echocardiography images have failed, the student must request permission from the patient to provide their images to CQUniversity for educational purposes.

- The patient must provide written consent by completing the form provided on the unit Moodle site.
- The patient consent form must be submitted with the case study.

A detailed marking rubric can be found on the Moodle site.

This is a PASS/FAIL assessment. The written case study and accompanying echocardiography DICOM images will be critiqued using a detailed marking rubric which can be found on the Moodle site.

Word count: 1500-2000 words. Word count does not include headings or references but does include diagram explanations and labelling.

Referencing: Vancouver. Minimum 3 peer reviewed journal articles must be cited. Literature titles must be current (<5years of age), excepting seminal works.

This assessment is to be undertaken as an individual. Colluding with other students on non-group work tasks is considered academic misconduct, and may lead to action being taken by 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

Week 10 Friday (24 Sept 2021) 7:00 pm AEST

The case study can be submitted anytime prior to the end of week 10

Return Date to Students

Individual student results will be made available once submissions have been marked.

Weighting

Pass/Fail

Minimum mark or grade

The pass mark for the written component of the case study is 60%. A late penalty of 5% will be deducted for each part day that submission is late. The echocardiographic imaging component of the case study is a PASS/FAIL submission.

Assessment Criteria

- The diagnostic quality of the examination performed, in particular, the scan technique and protocol adopted by the student.
- Image optimisation and image selection representative of pathology.
- Apply haemodynamic calculations used in complex cardiac assessment
- Analyse and critically reflect upon the outcome of a comprehensive and complex echocardiographic scan
- Discussion of clinical presentation, aetiology, pathophysiology, echocardiographic findings, patient management and likely follow-up.
- Student's reflective analysis identifying components of the scan that could have been improved.
- Student's ability to construct a scholarly report that is succinct and demonstrates the appropriate application of scientific language conventions.
- Referencing.

Case studies submitted without accompanying echocardiographic DICOM images will not be marked and will automatically be awarded a FAIL grade.

Submissions not up to standard will be returned to the student with appropriate feedback. Only one opportunity for re-

submission will be provided if the first submission is deemed a FAIL.

- From the time of feedback provision, failing students will be provided with 2 weeks to resubmit the case study.
- Failed students may be asked to resubmit further imaging exemplars and/or an amended written submission, dependent upon deficits identified in the first submission.
- Should the imaging component need to be re-submitted, the second submission does not need to be from the same patient.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

The case study DICOM images are to be loaded into a 'folder' created by the student on google drive, and shared with the unit coordinator through the provision of a link. The written case study component must be uploaded through the assessment tab on Moodle as a 'Word' or 'PDF' document. The 'Google folder URL link' details should be clearly displayed on the front page of the assessment submission. Both the 'Google folder' and the 'Word / PDF' document must be appropriately labelled with student name, student number and descriptor (E.g. 'John SMITH_S12345_Case Study').

Learning Outcomes Assessed

- Apply haemodynamic calculations used in complex cardiac assessment
- Analyse and critically reflect upon the outcome of a comprehensive and complex echocardiographic scan
- Engage in cardiac ultrasound practice as per external accreditation requirements (Australasian Sonographer Accreditation Registry).

Graduate Attributes

- Knowledge
- Cognitive, technical and creative skills
- Cognitive, technical and creative skills
- Research

3 ONLINE TEST

Assessment Type

Online Test

Task Description

The online test will assess your understanding of the content presented within this unit. Questions may be drawn from lectures, additional resources provided (e.g. prescribed readings) or tutorial presentations.

- Perusal time and online test duration will be 130 minutes in total.
- It is recommended that you have a calculator available when sitting the online test.
- Once started, the online test cannot be paused or restarted. Only one attempt is permitted.
- The online test will automatically close and submit completed student answers once the allocated time has elapsed.
- The duration of this test is tailored to promote recall of fact, rather than research of answers unknown.
- You will be required to answer a variety of online questions. Questions may include multiple-choice, short answer, essay style or image interpretation format.

The number of marks allocated for each question will be indicated within the online test. Question marks are allocated based on the accuracy, depth and breadth of required responses.

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

Please note that the online test must be completed before the due date listed. In the absence of an approved extension, there will be no opportunity to complete the task after this date, and there will be no opportunity to apply a late penalty of five percent per day. Students will receive a mark of zero (or fail) for this assessment, if you have not completed it by the scheduled date and time and do not have an extension.

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

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

Assessment Due Date

The online test will be open from 8:00am AEST on Friday 8th of October (week 12) and will close at 8:00pm AEST Monday 11th October. All unit content is assessable in this test.

Return Date to Students

Individual student results will be made available once submissions have been marked. The online test question pool in its entirety will not be released to students.

Weighting

60%

Minimum mark or grade

50%

Assessment Criteria

- You will be required to answer a variety of online questions.
- Be able to differentiate the aetiology and related cardiac assessment data of congenital cardiac pathologies across the life span of a patient
- Compare and contrast advanced imaging modalities involved in the assessment of congenital heart disease
- Apply haemodynamic calculations used in complex cardiac assessment

Question responses will be assessed according to the student's:

- use of appropriate terminology and descriptors as well as grammar and spelling.
- ability to appropriately interpret presented sonographic images and cardiac assessment data.
- ability to succinctly respond with accurate answers.

The specific date the online test opens and closes are outlined in the due description.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

The online test will be accessible through the assessment tab on Moodle

Learning Outcomes Assessed

- Differentiate the aetiology and related cardiac assessment data of congenital cardiac pathologies across the life span of a patient
- Compare and contrast advanced imaging modalities involved in the assessment of congenital heart disease
- Apply haemodynamic calculations used in complex cardiac assessment
- Critically evaluate the diagnostic and therapeutic procedures in congenital heart disease management
- Analyse and critically reflect upon the outcome of a comprehensive and complex echocardiographic scan

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research

4 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. This log book documents all observed, partially or fully completed echocardiography cases that the student is exposed to during clinical employment. It is recommended that you update this logbook daily. This assessment task requires the submission of a clinical case log book, detailing clinical experience. A template for the Clinical Case Log book is supplied in a word document format on the Moodle site. Students were supplied with this same Clinical Case Log Book at the time of course enrolment.

- The word document is designed to facilitate easy electronic submission at various checkpoints throughout the unit and course enrolment. The clinical supervisor's digital signature can be used to verify the authenticity of entries on the word document.
- Alternatively, the word document can be printed, manually completed and scanned to a digital file format for submission.

A Clinical Case Log book submission can be requested at any point during course enrolment, at the discretion of the university course coordinator.

The 'Clinical Case Log book' incorporates the following data:

1. The date of each examination.
2. Allocation of a unique identifier for each patient to ensure anonymity.
3. Referral indications
4. Type of echocardiogram performed (i.e. Adult, Paediatric, Stress/Dobutamine, TOE)
5. Student level of scan participation (Observed, partially, or fully completed examination)
6. Case Findings

It is recommended that the student participates in an average of 180 echocardiographic studies per 12 week term of course enrolment. (This is an average of 5 scans per day, 3 days per week.)
Individual student feedback will be provided only if assessment criteria deficits are identified.

Assessment Due Date

Week 12 Tuesday (5 Oct 2021) 7:00 pm AEST

Return Date to Students

Individual student feedback will be provided only if assessment criteria deficits are identified.

Weighting

Pass/Fail

Minimum mark or grade

Pass/Fail

Assessment Criteria

To be awarded a PASS, all documentation must be completed and submitted by the corresponding due date and time. The Clinical Case Log book will be reviewed to ensure that:

- An acceptable volume of clinical work has been achieved.
- Exposure to sufficient case study complexity has been demonstrated to support ongoing knowledge and practical skills development.
- Cases have been documented appropriately.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

The Clinical Case Log Book must be uploaded through the assessment tab on Moodle as a single 'PDF' document. The document must be appropriately labelled with student name, student number and descriptor (E.g. 'JohnSMITH_S12345_Clinical Case Log Book').

Learning Outcomes Assessed

- Engage in cardiac ultrasound practice as per external accreditation requirements (Australasian Sonographer Accreditation Registry).

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Self-management
- Ethical and Professional Responsibility

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