



# ECHO12004 Cardiac Rhythm Assessment Skills

## Term 2 - 2021

Profile information current as at 19/04/2024 10:21 am

All details in this unit profile for ECHO12004 have been officially approved by CQU University 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 unit prepares you for performing cardiac rhythm management and echocardiographic assessments in the clinical workplace. Knowledge presented within this unit will prepare you for subsequent clinical placements. You will explore the pivotal role echocardiography plays in cardiac resynchronisation therapy (CRT).

### Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: *12*

Student Contribution Band: *8*

Fraction of Full-Time Student Load: *0.25*

### Pre-requisites or Co-requisites

Pre-requisites: MEDS12001 Physics of Ultrasound and ECHO12006 Cardiac Science and ECHO11002 Cardiac Structure and 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

- Brisbane
- Perth
- Sydney

### 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).

### Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are:

Click here to see your [Residential School Timetable](#).

### 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 12-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 25 hours of study per week, making a total of 300 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: 20%

#### 2. **Practical Assessment**

Weighting: Pass/Fail

#### 3. **Written Assessment**

Weighting: 30%

#### 4. **Online Test**

Weighting: 50%

### 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](#).

## 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 Moodle

**Feedback**

The lecture content was great, and taught in a way that made it easy to learn.

**Recommendation**

Current lectures will continue to be improved and old lectures replaced in 2021.

#### Feedback from Moodle

**Feedback**

I found it quite hard learning two different topics each week.

**Recommendation**

This is double credit unit making it multi-faceted, therefore different topics are required to be covered to fulfil the unit requirements. Content delivery will continue to be revised and improvements will be implemented where feasible, to improve student experience.

#### Feedback from Moodle

**Feedback**

Tutorials were very specific to important areas and explanations of topics were easy to follow and pick up, however there was a lack of engagement and participation from students.

**Recommendation**

Weekly tutorials will continue to be delivered to support weekly content. The unit coordinator will continue to look for innovative ways to encourage student engagement in live tutorials.

## Unit Learning Outcomes

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

1. Interpret the outcome of 12-Lead electrocardiogram (ECG) studies to an intermediate level of competency
2. Explain the concepts underpinning cardiac assessment procedures associated with cardiac rhythm management, including consideration of best practice and patient safety
3. Describe how echocardiography is used to assess cardiac performance and patient outcomes during cardiac resynchronisation therapy (CRT)
4. Analyse clinical case studies (including data derived from cardiac devices and electrocardiography) and to construct links between cardiovascular disease presentation, assessment and patient outcomes.
5. Perform a 12-lead ECG study.

Unit developed in collaboration with International Board of Heart Rhythm Examiners certified staff.

Unit linked to ASAR Accreditation Standards for Cardiac Sonography - critical practice Unit 8 - Cardiac, Foundation units of competence - 1 - 5.

## 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 - Written Assessment - 30%		•	•	•	
2 - Online Quiz(zes) - 20%	•			•	
3 - Online Test - 50%		•	•	•	
4 - Practical Assessment - 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	•	•	•	•	
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					

### Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 30%	•	•	•	•			•	•		
2 - Online Quiz(zes) - 20%	•	•		•		•	•	•		
3 - Online Test - 50%	•	•	•	•		•	•	•		
4 - Practical Assessment - 0%	•	•				•	•	•		

## Textbooks and Resources

### Textbooks

ECHO12004

#### Prescribed

##### **12-Lead ECG, The art of interpretation**

Edition: Second (2013)

Authors: Tomas B. Garcia, MD

Jones and Bartlett

ISBN: 9780763773519

Binding: Paperback

ECHO12004

#### Prescribed

##### **The Nuts and Bolts of Cardiac Resynchronization Therapy**

(2007)

Authors: Tom Kenny

Wiley-Blackwell

ISBN: 978-1-4051-5372-0

Binding: Paperback

ECHO12004

#### Prescribed

##### **The Nuts and Bolts of ICD Therapy**

(2009)

Authors: Tom Kenny

Wiley

ISBN: 978-1-4051-8404-5

Binding: Paperback

ECHO12004

#### Prescribed

##### **The nuts and bolts of implantable device therapy: Pacemakers**

(2015)

Authors: Tom Kenny

Wiley-Blackwell

ISBN: 978-1-118-67067-5

Binding: Paperback

ECHO12004

#### Prescribed

##### **The Nuts and Bolts of Paced ECG Interpretation**

(2009)

Authors: Tom Kenny

Wiley

ISBN: 78-1-4051-5372-0

Binding: Paperback

#### Additional Textbook Information

[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

**Aidan Rickwood** Unit Coordinator  
[a.rickwood@cqu.edu.au](mailto:a.rickwood@cqu.edu.au)

## Schedule

### Week 1 - 12 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
Pacemaker (PPM) Indications	See eReading List via Moodle.	
ECG: Stepwise method recap		

### Week 2 - 19 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
NBG Code (Pacemaker code)	See eReading List via Moodle.	<b>ECG Quiz</b> (online) open: Week 2 Tuesday (20th Jul. 2021) 8:00am AEST. Closes Wednesday (21st Jul. 2021) 8:00pm AEST.
ECG: Rhythms		

### Week 3 - 26 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
Electrical concepts	See eReading List via Moodle.	
ECG: Types of heart block		

### Week 4 - 02 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Single Chamber PPM	See eReading List via Moodle.	<b>ECG Quiz</b> (online) open: Week 4 Tuesday (3rd Aug. 2021) 8:00am AEST. Closes Wednesday (4th Aug. 2021) 8:00pm AEST.
ECG: Arrhythmias		

### Week 5 - 09 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Dual Chamber PPM	See eReading List via Moodle.	
ECG: Interpretation		

### Vacation Week - 16 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 6 - 23 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Tachy arrhythmias	See eReading List via Moodle.	<b>ECG Quiz</b> (online) open: Week 6 Tuesday (24th Aug. 2021) 8:00am AEST. Closes Wednesday (25th Aug. 2021) 8:00pm AEST.
Introduction to EGM's		

### Week 7 - 30 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
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ICD indications  
EGM: Rhythms

See eReading List via Moodle.

#### Week 8 - 06 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
Principles of CRT pacing	See eReading List via Moodle.	<b>ECG Quiz</b> (online) open: Week 8 Tuesday (7th Sept. 2021) 8:00am AEST. Closes Wednesday (8th Sept. 2021) 8:00pm AEST.
CRT pacing and Echocardiography		

#### Week 9 - 13 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
ICD sensing and detection	See eReading List via Moodle.	<b>ECG Practical</b> Due: Week 9 Monday (13 Sept 2021) 9:00 am AEST
Upper rate behaviour		

#### Week 10 - 20 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
SVT Discriminators	See eReading List via Moodle.	
Brady therapy in ICDs		

#### Week 11 - 27 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
EGM practice examples	See eReading List via Moodle.	<b>Case studies</b> Due: Week 11 Friday (1 Oct 2021) 9:00 pm AEST
Downside to RV pacing		

#### Week 12 - 04 Oct 2021

Module/Topic	Chapter	Events and Submissions/Topic
Arrhythmia therapy	See eReading List via Moodle.	
Radiological imaging of cardiac devices		

#### Review/Exam Week - 11 Oct 2021

Module/Topic	Chapter	Events and Submissions/Topic
		<b>Online Test</b> Due: Review/Exam Week Monday (11 Oct 2021) 8:00 am AEST

#### Exam Week - 18 Oct 2021

Module/Topic	Chapter	Events and Submissions/Topic

## Term Specific Information

The Unit Coordinator for ECHO12004 is Aidan Rickwood. The first point of contact is the Q&A forum, or if your query is of a personal nature please email via a.rickwood@cqu.edu.au or phone (0892604034). Aidan's office hours are Monday to Wednesday, therefore, it is often best to email and request a scheduled meeting (over the phone, via Zoom, or in person), if necessary.

The first point of contact is the Q&A forum on the unit Moodle site. Forums are monitored and responses will be posted to all students in a timely manner. Please ensure that your conduct in forums is consistent with that outlined in the Student Charter.

This unit consists of pre-recorded lectures and live tutorials via Zoom. Tutorials will be held weekly during the term and tutorial times and Zoom Meeting IDs will be posted on the Moodle site.

Note: the practical assessment for ECHO12004 will be held during week 9 (14th September). This is a mandatory pass/fail assessment and attendance is required to pass this unit.

To give yourself the best chance of success with this unit, please ensure that you review all lectures, attend tutorials, undertake readings, and complete activities that are provided to you. Students are expected to spend on average 20 - 24 hours each week in their study activities for this unit.

## Assessment Tasks

### 1 Online Quiz(zes)

#### Assessment Type

Online Quiz(zes)

#### Task Description

This assessment task will require you to complete four (4) separate quizzes.

Questions posed in each quiz will assess your ability to interpret the outcome of 12-Lead electrocardiogram (ECG) studies, and to construct links between cardiovascular disease presentation, assessment and patient outcomes.

Questions may also be drawn from related lectures, additional resources provided (e.g. prescribed readings), or tutorial discussions.

Quiz 1 - Week 2 (Stepwise method & ECG intervals)

Quiz 2 - Week 4 (Rhythm recognition)

Quiz 3 - Week 6 (Types of heart block)

Quiz 4 - Week 8 (Overall interpretation)

Details of the quizzes include:

- Once started, each quiz cannot be paused or restarted.
- Only one attempt per quiz is permitted.
- Students will have 25 minutes to complete each quiz.
- Total marks for each quiz is 25 marks.
- Each quiz is worth 5 % of the final unit grade.
- The combined score from the quizzes will contribute to  $4 \times 5\% = 20\%$  of unit grade.

As each quiz is online and open book, you will find it useful if you have produced your own notes provided within the unit (lectures, readings, tutorials, etc) to ensure that you are prepared for this assessment.

Questions will be randomly drawn from a resource bank, which will provide each student with a unique experience for each quiz. You may benefit from having a calculator available when attempting the quiz.

This assessment is to be undertaken as an individual. As with all other university assessments, colluding with other students on non-group assessment tasks is considered a breach of academic integrity, as per the Student Academic Policy and Procedure, and may lead to action being taken by the HMAS Deputy Dean of Learning and Teaching.

#### Number of Quizzes

4

#### Frequency of Quizzes

Other

## Assessment Due Date

Quiz 1 will occur during Week 2 (open at 08:00 am AEST on Tuesday 20th of July, and close at 08:00 pm AEST on Wednesday 21st of July); Quiz 2 will occur during Week 4 (open at 08:00 am AEST on Tuesday 3rd of August, and close at 08:00 pm AEST on Wednesday 4th of August); Quiz 3 will occur during Week 6 (open at 08:00 am AEST on Tuesday 24th of August, and close at 08:00 pm AEST on Wednesday 25th of August); and Quiz 4 will occur during Week 8 (open at 08:00 am AEST on Tuesday 7th of September, and close at 08:00 pm AEST on Wednesday 8th of September).

## Return Date to Students

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

## Weighting

20%

## Assessment Criteria

Students will be required to answer a variety of questions presented in an online format. Answers will be assessed according to the following criteria:

- Ability to appropriately interpret presented data and images.
- Ability to respond clearly and concisely.
- Use of appropriate terminology and descriptors.
- Correct grammar and spelling.

The dates, as well as the opening and closing test times, for each quiz are outlined above (see 'Due Description'). Students will receive a mark of zero for any quiz not completed by the scheduled date and time.

This includes ensuring that each quiz is commenced with sufficient time before the quiz closes (i.e. commence the test before 7:30 pm AEST on designated Wednesdays - if the test is not completed by 08:00 pm AEST your test may be automatically submitted incomplete or with no answers). In the absence of an approved extension, there will be no opportunity to complete each quiz after the closing time.

To PASS this assessment task, a minimum of 50% must be achieved for the combined 'overall' mark from quiz 1, 2, 3 and 4 (i.e. 50/100 marks overall).

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 Quizzes are completed during TASAC operating hours.

## Referencing Style

- [Vancouver](#)

## Submission

No submission method provided.

## Learning Outcomes Assessed

- Interpret the outcome of 12-Lead electrocardiogram (ECG) studies to an intermediate level of competency
- Analyse clinical case studies (including data derived from cardiac devices and electrocardiography) and to construct links between cardiovascular disease presentation, assessment and patient outcomes.

## Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

## 2 ECG Practical

### Assessment Type

Practical Assessment

### Task Description

An electrocardiogram (ECG) is often the first diagnostic test performed in people with suspected heart disease or have presented with arrhythmias. This task will assess student competency in performing a 12-lead ECG. Students will be required to accurately perform an ECG recording on a peer patient model provided to them. This skill will be taught, revised and assessed during the residential school for this unit. This practical assessment will critique skills including preparation, proper lead placement and attachment, producing an artefact-free ECG recording.

- Students will be given an appropriate amount of time to complete this practical assessment.
- This is a PASS/FAIL assessment with no weighting toward the final overall unit grade. A PASS must be obtained to pass the unit overall.
- One reattempt will be permitted following the first attempt on the same date. Feedback will be given to the student if the first attempt is failed.

### **Assessment Due Date**

Week 9 Monday (13 Sept 2021) 9:00 am AEST

Practical assessments will take place during week 9 of term between Monday the 13th of September and Tuesday the 14th September. Wednesday the 15th September will be allocated to any students requiring a resit of the ECG practical assessment. Students will be required to attend their campus of enrolment. Students will be provided with an opportunity to book their preferred assessment time via google doc link provided on the Moodle site. Available assessment booking may vary campus to campus, dependent upon staff availability and local cohort size. All students will be required to make themselves available to act as a patient model for their peer assessments if requested.

### **Return Date to Students**

Students will receive feedback on the day.

### **Weighting**

Pass/Fail

### **Minimum mark or grade**

70%

### **Assessment Criteria**

To PASS, a student must demonstrate an 'advanced beginner level' of competency - minimum 70% grade to satisfactorily demonstrate how to perform and produce a 12-lead ECG.

Students will be assessed using a 12-Lead ECG 'Assessment of Readiness for Clinical' (ARC) tool. Each item in the ARC tool in BOLD must be passed to pass the assessment overall. Students must complete this practical assessment within 20 minutes. The performance of an ECG will be video recorded for moderation purposes.

Should a student fail the first attempt, there will be only ONE (1) opportunity to re-sit the ECG practical assessment. Resits will be hosted on Wednesday the 15th September. Feedback on the performance of an ECG will be given to the student following an initial fail.

The student will be assessed on correct ECG performance technique including:

- Appropriate skin preparation, finger counting for precordial leads, correct lead placement, correct leads attached to correct electrodes
- ECG recorded at 25 mm/s with appropriate gain, artefact free ECG trace, basic troubleshooting, hygienic practice and maintaining patient comfort/ modesty

### **Referencing Style**

- [Vancouver](#)

### **Submission**

No submission method provided.

### **Learning Outcomes Assessed**

- Perform a 12-lead ECG study.

### **Graduate Attributes**

- Communication
- Problem Solving
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

## **3 Case studies**

### **Assessment Type**

Written Assessment

### **Task Description**

This assessment task requires you to consider six (6) clinical scenarios, which can be found on the ECHO12004 Moodle site, under the Assessments tab. To complete this assessment, use the marking rubric and answer all questions relating

to each clinical scenario. Proposed scenarios are devised to explore student comprehension of concepts underpinning various cardiac testing modalities, their applications, associated patient outcomes and considerations of best practice and patient safety.

All six (6) clinical scenarios will include the following:

- a series of questions with short answer responses,
- singular questions which will require submission of an analytical and logical essay style response to demonstrate comprehension of subject matter.

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 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 11 Friday (1 Oct 2021) 9:00 pm AEST

Submission is due through Moodle. You are required to submit a copy to Turnitin. Please allow time for your Turnitin results and implement changes if required, prior to assessment due date.

### **Return Date to Students**

Exam Week Monday (18 Oct 2021)

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

### **Weighting**

30%

### **Assessment Criteria**

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

- Locate and critically evaluate information.
- Recognise pertinent professional information.
- Use of Vancouver referencing to a high standard.
- Use of appropriate terminology and descriptors.
- Ability to appropriately interpret presented cardiac assessment data.
- Ability to succinctly respond with accurate answers.
- Appropriate application of grammar, spelling and academic writing style.

A minimum 5 peer reviewed journal articles must be cited. Literature titles must be current (<5 years of age), excepting seminal works.

A detailed marking rubric can be found on ECHO12004 Moodle site and students are strongly encouraged to review this. The number of marks allocated for each question are also found on the marking rubric located on ECHO12004 Moodle site.

There is no opportunity for re-submission. A penalty of five percent (5%) of the total available marks for the assessment will be deducted for each full or part calendar day that the assessment task is overdue.

### **Referencing Style**

- [Vancouver](#)

### **Submission**

Online

### **Learning Outcomes Assessed**

- Explain the concepts underpinning cardiac assessment procedures associated with cardiac rhythm management, including consideration of best practice and patient safety
- Describe how echocardiography is used to assess cardiac performance and patient outcomes during cardiac resynchronisation therapy (CRT)
- Analyse clinical case studies (including data derived from cardiac devices and electrocardiography) and to construct links between cardiovascular disease presentation, assessment and patient outcomes.

### **Graduate Attributes**

- Communication
- Problem Solving

- Critical Thinking
- Information Literacy
- Cross Cultural Competence
- Ethical practice

## 4 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).
- Tutorial presentations.

Perusal time and Online Test duration will be 130 minutes in total. Open book conditions. As the test is online and open book, you will benefit from having created your own study notes.

It is recommended that you have a calculator available when sitting the Online Test.

Details of the quizzes include:

- 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 time available to complete this assessment is purposely kept tight to promote fact recall, rather than testing the ability of students to look up answers in available resources at hand.

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 Online Test must be completed within the advised dates/times. This includes ensuring that the Online Test is commenced with sufficient time before the test closes.

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 Quizzes are completed during TASAC operating hours.

In the absence of an approved extension, this assessment cannot be completed at a later time. 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.

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

Review/Exam Week Monday (11 Oct 2021) 8:00 am AEST

The online test will open during the first week of the exam period and will remain open for 48 hours (8am AEST on Monday the 11th October and close at 8am AEST on Wednesday the 13th October).

### Return Date to Students

Individual student results will be made available within two (2) weeks of submission / completion. The Online Test question pool in its entirety will not be released to students.

### Weighting

50%

### Minimum mark or grade

50%

**Assessment Criteria**

Answers will be assessed according to the following criteria:

- Ability to appropriately interpret presented data and images.
- Ability to respond clearly and concisely.
- Use of appropriate terminology and descriptors.
- Correct grammar and spelling.

**Referencing Style**

- [Vancouver](#)

**Submission**

No submission method provided.

**Learning Outcomes Assessed**

- Explain the concepts underpinning cardiac assessment procedures associated with cardiac rhythm management, including consideration of best practice and patient safety
- Describe how echocardiography is used to assess cardiac performance and patient outcomes during cardiac resynchronisation therapy (CRT)
- Analyse clinical case studies (including data derived from cardiac devices and electrocardiography) and to construct links between cardiovascular disease presentation, assessment and patient outcomes.

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

## 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