



# **MEDS13010 *Quality Practice in Diagnostic Imaging***

## **Term 2 - 2021**

Profile information current as at 02/05/2024 02:18 am

All details in this unit profile for MEDS13010 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.

## Corrections

### Unit Profile Correction added on 13-07-21

Currently the assessment reads:

Undertaking a clinical audit, as part of a quality management process, occurs in all imaging practices on a cyclical basis. In this assessment, you will complete a small part of a clinical audit. Successful completion of this assessment is a course requirement of the Australian Sonographers Accreditation Registry (ASAR). You are required to provide a portfolio (2000 words) which includes the description of five (5) actual or potential adverse events in the clinical workplace (Medical Imaging Department) and quality management of these adverse events.

Complete a risk assessment matrix for the 5 potential adverse events.

For one event, the following must be described:

- Outline the problem and identify contributing factors (with fishbone diagram)
- Model action plan to allow improvement
- Discuss quality management for the event

In the reflection component of the portfolio you can compare events and consider:

- Management causation scales
- Medical management analysis severity scale
- Error cause scale
- Assessment of preventability of adverse errors and how theory/literature can inform future practice
- Recommend further action or further research that could be conducted

Length: maximum 2000 words. Any words over the word count will not be marked. Reference list and figure captions are excluded.

Presentation: Inherent requirement is that it is written in appropriate academic language, and free of grammatical and spelling errors. Your assessment should be submitted as a Word document with 1.5 line spacing in 12 point Arial font

Referencing: Your answers to each question must be supported by references. A reference list must be provided and the CQU Sonography Vancouver referencing style must be used throughout your assessment.

Ensure that your assessment is accurately referenced. References should clearly show where your information was obtained. Refer to the unit Moodle page and the CQU general website for further information.

The line

"Complete a risk assessment matrix for the 5 potential adverse events." should be omitted as it is confusing and not required for the assessment.

## General Information

### Overview

In this unit, you will apply quality management principles in health care to undertake a limited clinical audit of a medical sonography department. You will propose reasons for adverse events, prioritise action and describe appropriate intervention as part of a quality improvement strategy. Medical Imaging departments utilise multiple imaging modalities. Quality practice requires an understanding of the function and use of each imaging modality to appreciate the diagnostic journey for each patient. You will evaluate the complementary role and safety of a range of medical imaging modalities. The unit will utilise multi-modality cases to provide you with an opportunity to practice and develop critical thinking and image interpretation skills for specified disease processes.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

### Pre-requisites or Co-requisites

Prerequisite MEDS12007 Medical Sonography Clinical Unit 1

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 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: 40%

#### 2. **Written Assessment**

Weighting: 20%

#### 3. **Online Test**

Weighting: 40%

### 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 Student Unit and Teaching Evaluation

**Feedback**

Students appreciated real world stories incorporated into theoretical concepts of Quality Practice.

**Recommendation**

Consider redevelopment of remaining lectures for the quality practice component to include real world examples.

#### Feedback from Student Unit and Teaching Evaluation

**Feedback**

The comparative imaging content was very well received by students. They found it relevant and engaging.

**Recommendation**

Consider increasing amount of comparative imaging in unit- including complementary modalities such as surgery and angiography.

#### Feedback from Student Unit and Teaching Evaluation and self reflection

**Feedback**

Aspects of the Written Assessment could be contextualised and streamlined more effectively.

**Recommendation**

Consider streamlining the written assessment for a more authentic learning experience.

#### Feedback from Self reflection

**Feedback**

Written assessment and online quiz due dates are close together.

**Recommendation**

Consider changing due date of assessment 1.

## Unit Learning Outcomes

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

1. Discuss key aspects of clinical governance, quality improvement, risk management and patient safety cultures in Medical Imaging.
2. Employ quality improvement tools and strategies in the context of a clinical sonography environment.
3. Describe the safe application of various medical imaging modalities.
4. Identify, compare and describe complementary imaging pathways in specified pathologies.
5. Correlate the multi-modality image appearance with a disease process.

Linked to National Standards.

ASAR Accreditation Standards for Sonography - Units 1-5, 6, 7, 9, 10, 12, 13.

## 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 - 40%	•	•			
2 - Written Assessment - 20%			•	•	•
3 - Online Test - 40%	•		•	•	•

### 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 - Portfolio - 40%	•	•	•	•		•	•	•		
2 - Written Assessment - 20%	•	•	•	•		•				
3 - Online Test - 40%	•	•	•	•		•				

## Textbooks and Resources

### Textbooks

MEDS13010

#### Supplementary

##### **Clinical Governance: Improving the Quality of Healthcare for Patients and Service Users**

First edition (2014)

Authors: Gottwald M. and Lansdown E.

Open University Press

Maidenhead , Berkshire , England

ISBN: 978-0-335-26281-6

Binding: eBook

MEDS13010

#### Supplementary

##### **Craig's Essentials of Sonography and Patient Care**

Edition: 4th (2018)

Authors: Robert de Jong M.

Elsevier

St Louis , Missouri , USA

ISBN: 9780323545877

Binding: eBook

MEDS13010

#### Supplementary

##### **Sectional Anatomy for Imaging Professionals**

4th edition (2018)

Authors: Kelley, L.L., Petersen, C.M.,

Mosby Elsevier

St Louis , MO , USA

ISBN: 9780323414877

Binding: eBook

MEDS13010

#### Supplementary

##### **Workbook for Sectional Anatomy for Imaging Professionals**

4th edition (2013)

Authors: Kelley & Peterson

Mosby Elsevier

St Louis , MO , USA

ISBN: 9780323655903

Binding: eBook

### 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

**Jane Wardle** Unit Coordinator  
[j.wardle@cqu.edu.au](mailto:j.wardle@cqu.edu.au)

## Schedule

### Week 1 - 12 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
Clinical Governance.	<b>Textbook:</b> Improving the quality of healthcare for patients and service users. Gottwald, Mary and Lansdown Gail. (2014): Chapter 1 <b>Readings:</b> eReading List	

### Week 2 - 19 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
Quality Improvement: clinical audit and system redesign	<b>Textbook:</b> Chapter 2 <b>Readings:</b> eReading List	

### Week 3 - 26 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
Risk Management and Adverse Events	<b>Textbook:</b> Chapters 3, 4 and 5 <b>Readings:</b> eReading List	

### Week 4 Change management - 02 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Closing the gaps in care through a practical framework	<b>Textbook:</b> Chapter 6 <b>Readings:</b> eReading List	

### Week 5 - 09 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Safety Culture Safe Sonographic Practice	<b>Textbook:</b> Chapter 7 and 8 <b>Readings:</b> eReading List	

### Vacation Week - 16 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Break Week		

### Week 6 - 23 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Medical Imaging Modalities and safety considerations	<b>Readings:</b> eReading List	<b>Quality Management Report</b> Due: Week 6 Friday (27 Aug 2021) 5:00 pm AEST

### Week 7 - 30 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Appearances of common structures in multiple modalities. Contrast Media use in imaging modalities (A)	<b>Readings:</b> eReading List	

### Week 8 - 06 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Contrast Media in imaging modalities (B) **Readings:** eReading List

#### Week 9 - 13 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
Abdomen and Pelvis Imaging	<b>Readings:</b> eReading List	

#### Week 10 - 20 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
Musculoskeletal Comparative Imaging	<b>Readings:</b> eReading List	

#### Week 11 - 27 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
Comparative Breast Imaging Breast Disease	<b>Readings:</b> eReading List	Daylight Saving: 3rd October 2021 <b>Multimodality ePoster</b> Due: Week 11 Tuesday (28 Sept 2021) 5:00 pm AEST

#### Week 12 - 04 Oct 2021

Module/Topic	Chapter	Events and Submissions/Topic
Revision		

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

Module/Topic	Chapter	Events and Submissions/Topic
		Wednesday: Online test opens at 11:00 AEST <b>Online test</b> Due: Review/Exam Week Wednesday (13 Oct 2021) 11:45 am AEST

#### Exam Week - 18 Oct 2021

Module/Topic	Chapter	Events and Submissions/Topic
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## Term Specific Information

The unit coordinator for MEDS13010 is Jane Wardle. She can be contacted at [j.wardle@cqu.edu.au](mailto:j.wardle@cqu.edu.au) which is the preferred method of contact. Jane's phone number is (07) 3023 4200.

This is a 6 credit unit and delivered via distance. Tutorials are an opportunity to engage in real time about the content with the unit co-ordinator and other students, so it highly recommended to be available for tutorials. The schedule for the tutorials will be posted on the unit Moodle site. The tutorials will be recorded. The online tutorials are an opportunity to ask questions, gain feedback, and join in discussions concerning theoretical concepts and completion of assessment tasks.

Access to the internet is required to undertake this unit, as unit materials, tutorials, and updates will be provided via Moodle, email and Zoom. It is important to check your student email regularly as updates about the unit will be sent from the unit coordinator via email. Urgent matters will be announced on the top of the Moodle page and emailed to all students.

## Assessment Tasks

### 1 Quality Management Report

#### Assessment Type

Portfolio

#### Task Description

Undertaking a clinical audit, as part of a quality management process, occurs in all imaging practices on a cyclical basis. In this assessment, you will complete a small part of a clinical audit. Successful completion of this assessment is a

course requirement of the Australian Sonographers Accreditation Registry (ASAR). You are required to provide a portfolio (2000 words) which includes the description of five (5) actual or potential adverse events in the clinical workplace (Medical Imaging Department) and quality management of these adverse events.

Complete a risk assessment matrix for the 5 potential adverse events.

For **one** event, the following must be described:

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Referencing: Your answers to each question must be supported by references. A reference list must be provided and the CQU Sonography Vancouver referencing style must be used throughout your assessment.

Ensure that your assessment is accurately referenced. References should clearly show where your information was obtained. Refer to the unit Moodle page and the CQU general website for further information.

### **Assessment Due Date**

Week 6 Friday (27 Aug 2021) 5:00 pm AEST

### **Return Date to Students**

Results will be available two weeks after due date.

### **Weighting**

40%

### **Minimum mark or grade**

50%

### **Assessment Criteria**

**Your assessment will be evaluated using the following criteria**

- Complete quality management portfolio which is organised (has clear introduction, outline of cases, discussion and conclusion) and concisely outlines events and is informed by literature which are cited in-text
- Data is collected and analysed
- Relevant and feasible plans for improvement are proposed
- Portfolio is written in a coherent and cohesive manner and there is adherence to academic writing conventions.

### **Referencing Style**

- [Vancouver](#)

### **Submission**

No submission method provided.

### **Submission Instructions**

Online Include a title page with student, unit and assessment details and word count. Files need to be uploaded in Word format (.doc or .docx)

### **Learning Outcomes Assessed**

- Discuss key aspects of clinical governance, quality improvement, risk management and patient safety cultures in Medical Imaging.
- Employ quality improvement tools and strategies in the context of a clinical sonography environment.

### **Graduate Attributes**

- Communication

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

## 2 Multimodality ePoster

### Assessment Type

Written Assessment

### Task Description

In the early stages of their careers, medical doctors are equipped with a great deal of theoretical knowledge but still have a steep learning curve when it comes to the different types of medical imaging modalities and which modality should be requested in a specific clinical scenario.

You are to produce an ePoster for the orientation day for Intern doctors on their first day at a large metropolitan hospital. The poster will showcase your chosen pathology and describe the best two modalities to image and demonstrate the pathology. Include why the pathology is well demonstrated on a particular modality, and any patient safety considerations for the modalities. Imaging appearances of the pathology should be described along with any differential diagnoses.

### ePoster Design

Submitted only as a Microsoft PowerPoint presentation

Must include title, content and reference slides. Content can be 3 to 5 slides. (5~7 slides in total).

All slides to be in a 'landscape' format

- Font style and size (e.g. 16–24 points: should be large and clear enough to be easily read from a distance)
- Minimum resolution for graphics and images (72 dpi)
- Remember to consider that your colour scheme selection should be easy to read from a distance (contrast of text content with background colour)

Further details and marking rubric can be found on Moodle.

### Assessment Due Date

Week 11 Tuesday (28 Sept 2021) 5:00 pm AEST

Results will be available two weeks after due date.

### Return Date to Students

Review/Exam Week Monday (11 Oct 2021)

Results will be available two weeks after due date.

### Weighting

20%

### Minimum mark or grade

50%

### Assessment Criteria

Your ePoster will be assessed on:

- spelling, grammar, formatting, academic writing
- relevant, accurate and complete referencing
- adherence to word count (word count marks not allocated if too brief or too lengthy; additional words will not be assessed)

The following assessment supports can be found on the unit Moodle site

- Marking rubric
- Assessment Video
- Vancouver referencing information
- Link to ePosters submitted to the Australian Sonographer's Association (ASA) national conference.

### Referencing Style

- [Vancouver](#)

**Submission**

Online

**Submission Instructions**

Online Include a title slide with student, unit and assessment details. Files need to be uploaded in Powerpoint format

**Learning Outcomes Assessed**

- Describe the safe application of various medical imaging modalities.
- Identify, compare and describe complementary imaging pathways in specified pathologies.
- Correlate the multi-modality image appearance with a disease process.

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence

### 3 Online test

**Assessment Type**

Online Test

**Task Description**

You will complete an online quiz to assess your understanding of the concepts delivered in MEDS13010. The quiz can be accessed through the assessment tab on Moodle.

It will comprise of short and medium answer, and multiple choice questions. Students will need to note opening and closing times to complete the quiz during this time period.

The quiz will be open for 60 mins and only ONE attempt is allowed. Once started, the quiz cannot be paused or restarted.

All unit content for MEDS13010 may be examined.

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

It will open in week 12 of the term from Wednesday 7th October at 11:00 (AEST) and will remain open until the following Wednesday 15th October at 11:00 (AEST).

Only one attempt of the test is allowed. Once you have commenced the test, you cannot pause, stop or re-start it.

**Assessment Due Date**

Review/Exam Week Wednesday (13 Oct 2021) 11:45 am AEST

Online test closes 18/10/2020 at 19:00 AEST

**Return Date to Students**

Results will be available two weeks after all students have completed the test.

**Weighting**

40%

**Minimum mark or grade**

50%

**Assessment Criteria**

Answers will be either correct or incorrect and tabulated by the unit's online Moodle system.

Students must achieve a minimum mark of 50% to pass this assessment.

**Referencing Style**

- [Vancouver](#)

**Submission**

Online

**Learning Outcomes Assessed**

- Discuss key aspects of clinical governance, quality improvement, risk management and patient safety cultures in Medical Imaging.
- Describe the safe application of various medical imaging modalities.
- Identify, compare and describe complementary imaging pathways in specified pathologies.
- Correlate the multi-modality image appearance with a disease process.

## Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence

## 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