MEDS13010 *Quality Practice in Diagnostic Imaging*
Term 2 - 2020

Profile information current as at 17/05/2024 03:07 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.

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 - 2020

- 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: 60%
2. **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 Unit evaluation.

Feedback
Students found the content challenging

Recommendation
Further in depth discussion to assist with the concepts will be added.

Feedback from Unit evaluation.

Feedback
Students suggested some formative quizzes in the first few weeks.

Recommendation
Formative quizzes can be included in the earlier weeks of the Unit to enhance learning.

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 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

| — N/A Level | ○ Introductory Level | ● Intermediate Level | ● Graduate Level | ○ Professional Level | ○ Advanced Level |

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Portfolio - 60%	●	●			
2 - 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 - 60%	•	•	•	•		•	•	•		
2 - Online Test - 40%	•	•	•	•		•				

Textbooks and Resources

Textbooks
MEDS13010

Prescribed

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

Clinical Radiology - The Essentials
4th edition (2013)
Authors: Daffner, RH & Hartman, M
Lippincott Williams & Wilkins
Philadelphia , PA , USA

ISBN: 9781451142501
Binding: Hardcover
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

Imaging for Students
4th edition (2012)
Authors: Lisle, DA
Taylor and Francis
London , UK
ISBN: 978-1444121827
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

Additional Textbook Information

If you prefer to study with a paper copy, they are available at the CQUni Bookshop here: http://bookshop.cqu.edu.au
(search on the Unit code). eBooks are available at the publisher's website.

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

Antony Egan Unit Coordinator
a.egan@cqu.edu.au
Jane Wardle Unit Coordinator
j.wardle@cqu.edu.au

Schedule

Week 1 Clinical Governance and Sonography Longevity - 13 Jul 2020

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

Week 2 Quality Improvement and Closing the Gaps in Patient Care - 20 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Quality Improvement Closing the gaps in patient care	**Textbook:** Chapter 2 **Readings:** eReading List	

Week 3 Risk Management and Adverse Events - 27 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Risk Management and Adverse Events Adverse Events	**Textbook:** Chapters 3 & 4 **Readings:** eReading List	

Week 4 Risk Management in Radiology - 03 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Risk Management in Radiology	**Textbook:** Chapter 5 **Readings:** eReading List	

Week 5 Barriers and Change - 10 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Closing the Gaps in Care through a practical framework	**Textbook:** Chapter 6 **Readings:** eReading List	

Vacation Week - 17 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Break Week		

Week 6 Patient Safety Culture - 24 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Patient Safety Culture	**Textbook:** Chapter 7 **Readings:** eReading List	

Week 7 Quality Assurance - 31 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Quality Management in Medical Sonography Quality Assurance in Medical Imaging	**Textbook:** Chapter 8 **Readings:** eReading List	

Week 8 Comparative Imaging (A) Abdomen and Pelvis - 07 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Comparing Imaging Modalities Abdomen and Pelvis Imaging	**Readings:** eReading List	

Week 9 Comparative Imaging (B) Musculoskeletal - 14 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Musculoskeletal Comparative Imaging	**Readings:** eReading List	

Week 10 Breast Imaging (A) - 21 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Breast Imaging Anatomy Revision Breast Disease	**Readings:** eReading List	

Week 11 Breast Imaging (B) - 28 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Mammography Comparative Breast Imaging	**Readings:** eReading List	Daylight Saving: 4th October 2020

Week 12 - 05 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic
Online exam opens		Wednesday: Online test opens at 11:00 AEST **Portfolio - Adverse Event Report** Due: Week 12 Tuesday (6 Oct 2020) 5:00 pm AEST **Online Test** Due: Week 12 Wednesday (7 Oct 2020) 11:00 am AEST

Exam Review Week - 12 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

The unit coordinator for MEDS13010 is Antony Egan. He can be contacted at a.egan@cqu.edu.au which is the preferred method of contact. Antony's phone number is (03) 9616 0514.
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 Portfolio - Adverse Event Report

Assessment Type
Portfolio

Task Description
Quality Management Report
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.
For each 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 each adverse 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

- Complete a risk assessment matrix for 5 further possible hazards

- Recommend further action or further research that could be conducted

Length: 2000 (+/-10%) 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.

Assessment Due Date
Week 12 Tuesday (6 Oct 2020) 5:00 pm AEST
File to be uploaded in Word format (.doc or .docx)

Return Date to Students

Weighting
60%

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
Online

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 Online Test

Assessment Type
Online Test

Task Description
You will undertake an online test to assess your understanding of content associated with this unit, and its application.
The test will consist of ten (10) short answer questions. Each question will be worth 10 marks. The duration of the online test will be 90 minutes which allows 9 minutes to complete each question.
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 14th 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
Week 12 Wednesday (7 Oct 2020) 11:00 am AEST
Online test closes 14/10/2020 at 11:00 AEST

Return Date to Students

Results will be released to students 2 weeks after the on-line test has closed

Weighting
40%

Minimum mark or grade
50%

Assessment Criteria
Questions will be drawn from a pool of questions to allow tests to be different for each student, and questions may involve questions related to medical images.
You will need to allocate **90 minutes** during the week the test is open and ensure a good internet connection to allow the test to be completed.
Your answers need to be detailed enough to demonstrate a depth of understanding for the allocated 10 marks.
Please note. **It is your responsibility to ensure you have the test completed before the closing time and date.**
Any evidence of student collusion or misconduct will be dealt with in accordance with the Student Academic Integrity Policy and Procedure document.

Referencing Style

- [Vancouver](#)

Submission
Online

Submission Instructions
Online. You need to access the test through the assessment tab on Moodle and will need to maintain continuous internet access for 90 minutes to complete the test.

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 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