



MEDS12004 Sonographic Skills Development 1

Term 2 - 2024

Profile information current as at 06/07/2025 10:41 am

All details in this unit profile for MEDS12004 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

This unit prepares you for the clinical workplace through the development of skills in sonographic scanning techniques for the abdomen and urinary tract. You will be required to demonstrate the skills, knowledge and professional behaviours needed to work in a clinical setting, and will be assessed within a simulated environment. This unit prepares you for entry into the sonographic clinical environment using the Assessment of Readiness for Clinical tool (ARC) in conjunction with other assessment tasks.

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: MEDS12003 Superficial Structures in Ultrasound AND MEDS12002 - Abdominal Ultrasound AND MEDS12001 Physics of Ultrasound Co-requisites: MEDS12006 Ultrasound in Obstetrics and Gynaecology Condition: Continued enrolment in MEDS12004 is conditional upon passing any outstanding assessment pieces in MEDS12001 and MEDS12002 and MEDS12003.

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 - 2024

- Brisbane
- Mackay
- Melbourne
- 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).

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. **Practical Assessment**

Weighting: Pass/Fail

2. **Practical Assessment**

Weighting: Pass/Fail

3. **Online Quiz(zes)**

Weighting: Pass/Fail

4. **Written Assessment**

Weighting: Pass/Fail

5. **On-campus Activity**

Weighting: Pass/Fail

Assessment Grading

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

CQUniversity Policies

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

You may wish to view these policies:

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

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

Previous Student Feedback

Feedback, Recommendations and Responses

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

Feedback from SUTE data

Feedback

Some students expressed that there were unclear unit requirements available.

Recommendation

Whilst the ARC tool and scanning protocol are already expansive, students could benefit from more layers to these resources outlining varying levels of diagnostic versus non-diagnostic assessment. Consider developing a resource(s) outlining the unit requirements and with precise focus on the tipping point of when a non-critical error becomes a critical error.

Feedback from SUTE data and Informal Consultations

Feedback

A lack of students volunteering as patients affected the creation and availability of demonstration videos on challenging patients.

Recommendation

The entire Melbourne cohort was invited to volunteer to be a patient for video resources with only a few volunteers. Education will be essential to ensure all students embrace being a demonstration patient ensuring diverse resources for the cohort. The addition of more videos on challenging patients will be considered.

Feedback from SUTE data

Feedback

Some students felt that the pelvic module schedule could be adjusted to support better delivery during the term.

Recommendation

Consider reviewing the scheduling of the Pelvis module to an alternative timing and/or location while still adhering to industry standards and accreditation requirements.

Unit Learning Outcomes

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

1. Formulate strategies and implement skills necessary to complete sonographic examinations of the abdominal and urinary tract organs.
2. Recognise the normal sonographic appearances of abdominal and urinary tract organs and identify anatomical variants when present, and discriminate from pathological processes.
3. Critically reflect and improve upon own professional practice and sonographic psychomotor skills utilising constructive feedback.
4. Display professional behaviour, teamwork, communication skills and criteria to meet safe sonographic practice and industry expectation.

Australasian Sonography Association Competency Standards for the Entry Level Sonographer

Units: 1,2,4,5,6 & 10

Australian Sonographer Accreditation Registry Standards for the Accreditation of Sonographer Courses:

Foundation Units of Competence 1-6

Critical Practice Unit of Competence 6

Alignment of Learning Outcomes, Assessment and Graduate Attributes

 N/A Level	 Introductory Level	 Intermediate Level	 Graduate Level	 Professional Level	 Advanced Level
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Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Practical Assessment - 0%	•	•		•
2 - Practical Assessment - 0%	•	•		•
3 - Online Quiz(zes) - 0%	•	•		
4 - Written Assessment - 0%			•	
5 - On-campus Activity - 0%				•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
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				

Textbooks and Resources

Textbooks

MEDS12004

Prescribed

Textbook of Diagnostic Sonography

Edition: 8th (2017)

Authors: Hagen-Ansert

Elsevier

St Lois , MO , USA

ISBN: 9780323353755

Binding: Hardcover

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Supplementary

Workbook for Textbook of Diagnostic Sonography

Edition: 8th (2017)

Authors: Hagen-Ansert

Elsevier

St Loïs , MO , USA

ISBN: 9780323441834

Binding: Paperback

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Access card to the Ultrasound Imaging Lab (Mackay students)
- Access card to CQUniversity sonography lab (Brisbane students)
- Access card to CQ University campus (Melbourne students)

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

Schedule

Week 1 - 08 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Orientation.

Bladder and Prostate.

(Please note: Hagen-Ansert is the prescribed text for this unit. Other readings from chapters in Curry and Tempkin, and Alty and Hoey are available via e-book in the e-reading list for this unit or through CQU library)
Hagen-Ansert chapter 15
Curry and Tempkin Ch 20 (The male pelvis)

Compulsory online tutorial 7pm AEST Monday 8th July. Professional Behaviour and other important information for this term.

Compulsory online Lab Induction and quiz- It is a WH&S requirement that the lab induction is completed before students can attend labs in any capacity. This is to be completed and passed before Tuesday 9th July 2024, 1pm AEST. 100% pass mark is required. Multiple attempts are allowed.

Submission of Lab Agreement and Consent Form - Due Tuesday 9th July 2024, 1pm AEST. Students will not be permitted entry to the sonography lab until both are correctly completed and uploaded to Moodle.

Week 2 - 15 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Pancreas.	Hagen-Ansert chapter 12 Alty & Hoey (2013) Ch 3 pp 12-13, 44-45 Curry and Tempkin Ch 16	
Aorta.	Hagen-Ansert Chapter 8 Curry and Tempkin Ch 10 and 13 Alty & Hoey (2013) Ch 3 pp 12-13 and Ch 5 pp 79-85	

Week 3 - 22 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Liver.	Hagen-Ansert Chapter 9 Curry and Tempkin Ch 14 Alty & Hoey (2013) Ch 3 pp 14-19, 28-37	

Week 4 - 29 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Liver Practical Scanning Skills Mock Assessment (Tuesday).		Assessment 1 (Part A) - Sonographic Scanning Skills Assessment of the Liver : Thursday 1st August - all students to attend all day.
Liver Practical Scanning Skills Assessment (Thursday).		Quiz 1. Opens Thursday 1st of August at 9am AEST and closes Friday 2nd of August at 6pm AEST.

Week 5 - 05 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Porta Hepatis.	Hagen-Ansert chapter 10 (biliary system) Hagen-Ansert chapter 8 (portal vein) Curry and Tempkin Ch 15 (biliary system)	
Gallbladder.	Curry and Tempkin Ch 12 (portal vein) Alty & Hoey (2013) Ch 3 pp 16, 20-21, 38-43 (biliary system) Ch 6 pp94-95 (portal vein)	

Vacation Week - 12 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Break week.		

Week 6 - 19 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Kidneys.	Hagen-Ansert chapter 15 Curry and Tempkin Ch 17 Alty & Hoey (2013) Ch 3 pp 22-25 and Ch 4 pp 50-53, 62-73	Quiz 2. Opens Thursday 22nd August 9am AEST and closes Friday 23rd August 6pm AEST.

Week 7 - 26 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Spleen. MOCK Abdomen Practical Skills Assessment Thursday.	Hagen-Ansert chapter 11 Curry and Tempkin Ch 18 Alty & Hoey (2013) Ch 3 pp 24-25 and 46-47	MOCK Sonographic Scanning Skills Assessment of the full abdomen Thursday 29th August.

Week 8 - 02 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Assessment 1, Part B: Sonographic scanning skills assessment of the full abdomen (Tuesday and Thursday).		Assessment 1 (part B) : Sonographic scanning skills assessment of the full abdomen - Tuesday 3rd September and Thursday 5th September. Students to attend all day on both Tuesday and Thursday.

Week 9 - 09 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Assessment 2, Part A: Mock scanning skills assessment - Urinary Tract (Thursday).		Assessment 2 (Part A) - Mock scanning skills assessment of the urinary tract: Thursday 12th September. All students must attend all day.

Week 10 - 16 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Revision.		

Week 11 - 23 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Full Abdomen Lab Practise Sessions.		

Week 12 - 30 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
		RE-SITS : Assessment 1 : Sonographic Scanning Skills Assessment Part A and Part B: Tuesday 1st October and Thursday 3rd October. All students must attend all day on both days. Assessment 4: Lab manual formative feedback forms due Friday 4th October at 5pm AEST.

Review/Exam Week - 07 Oct 2024

Module/Topic	Chapter	Events and Submissions/Topic
		Assessment 2 Urinary Tract Reflection Due Thursday 10th October 10am AEST.

Exam Week - 14 Oct 2024

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

Your unit coordinator for Term 2, 2024 is Antony Egan and can be reached via email at a.egan@cqu.edu.au or by phone: (03) 9616 0514. There are local co-unit coordinators involved within this unit who are based at each of the four campuses that this unit is offered to provide local campus support. The unit coordinator in combination with the local co-unit coordinators are responsible for the delivery of this unit as well as marking and moderation of practical and written assessments.

The learning activities involved in this unit include pre-recorded lectures, demonstration scanning videos, weekly readings and written sonographic scan protocols, weekly interactive tutorials (via Zoom) and on-campus attendance at sonography labs. The first Zoom tutorial is compulsory to attend live and outlines unit requirements and professional behaviour expectations - this will be held at 7pm AEST on Monday 8th July 2024. Attendance at the remaining tutorials is not compulsory but is advised. If you cannot attend in real time, recordings of Zoom sessions will be uploaded on Moodle. Refer to the unit schedule on Moodle for specific times and dates.

The sonographic labs consist of compulsory sonographic skills development labs, optional tutor assisted sonographic practice lab sessions and optional peer assisted sonographic practice lab sessions. Professional behaviour is always expected by students and staff within the sonography labs (see assessment 5). As this unit is a 12-credit point unit, and on-campus activities (sonographic lab sessions) are scheduled for each day of the week, you need to ensure you allocate enough time to this unit to give you the best opportunity to succeed.

Compulsory sonographic skills development labs are scheduled for Tuesday and Thursday each week of term. Compulsory attendance is required for all of these labs. If you cannot attend an allocated compulsory sonographic skills development lab or are going to arrive late for a lab session, you are required to notify the unit coordinator AND local co-unit coordinator by phone or email prior to the commencement of the lab. Non-attendance at an allocated compulsory lab session requires a valid reason with supporting documentation. Late attendance without prior notice or approval, or non-attendance at an allocated compulsory lab session without a valid reason and supporting documentation will not be made up.

Tutor-assisted sonographic practise lab sessions are supervised by qualified sonographic tutors and allow you to consolidate the practical skills you are developing in the compulsory sonographic skills development labs and provide you the opportunity to undertake deliberate practice. They are not compulsory, but it is highly advised that you take advantage of these, and they are scheduled for each Wednesday of the term (excluding testing weeks and week 10).

Peer-assisted sonographic practise lab sessions are available for you to book (through Google Document for this unit) on most Mondays and Fridays of each week of term. You are allocated a one-hour time slot for individual scanning on each of these days for which you need to book in. You are required to undertake these scanning sessions in pairs (so you will need a student partner). If you are unable to attend an allocated session you need to communicate your unavailability to your partner with reasonable notice.

Important information regarding attendance at sonographic lab sessions:

You must notify relevant staff before the commencement of a lab session on any day if you are injured or ill. If your condition could harm or negatively impact yourself or others, you may be sent home. There is a sonographic lab session dress code (found on the unit Moodle site) which you are required to adhere to at all times when using the ultrasound simulation labs, including peer-assisted practices, which is covered by the Professional Behaviour assessment. Failure to comply will result in being asked to leave the lab (if in unsuitable or unsafe attire). The unit prepares students for clinical placement, where it is a requirement to follow WH&S requirements, wear the correct uniform, and to ensure professionalism is maintained. The compulsory WH&S Lab induction video and quiz (available on unit Moodle site) must be completed prior to your first sonographic lab session for this unit (you will not be able to attend any labs until this has been completed).

Attendance for assessment days:

Attendance for all practical assessment days and re-sit practical assessment days is compulsory. If you cannot attend a practical skills assessment on the scheduled day due to illness or injury and have provided acceptable medical documentation, you need to apply for an extension through the Assessment Extension Request on Moodle, and the unit coordinator and local co-coordinator will arrange for the practical skills assessment to be undertaken at another time. Acceptable reasons for adjusting assessment for exceptional circumstances are articulated in the CQUniversity Assessment Policy and Procedure (HE Coursework), section 5.21, and are applicable for practical skills assessments, quizzes and written assessment components.

Grading of this unit:

This is a non-graded Pass/Fail unit. There are 5 assessment items for this unit. You must achieve a pass for all five assessments, and all components of all assessments, to achieve success (and an overall pass grade) in this unit. Please refer to the assessment information section in this unit profile for more details. This unit is scheduled to run once a year only - the next delivery will be in Term 2, 2025. All written assessment items must be submitted accurately and in the correct format by the due date, as there is no opportunity to apply a 5% penalty due to the pass/fail nature of each assessment task. The full documents for Assessment Policy and Procedure (Higher Education Coursework) and Grades and Results Procedure can be accessed via <https://www.cqu.edu.au/policy>.

Assessment Tasks

1 Sonographic Scanning Skills Assessment - Liver and Abdomen

Assessment Type

Practical Assessment

Task Description

There are two (2) parts to assessment 1: Part A (Sonographic Scanning Skills Assessment of the Liver) and Part B (Sonographic Scanning Skills Assessment of the full abdomen).

In your future career as a qualified sonographer, you will be required to competently perform sonographic examinations of the abdomen accurately and within a timely manner. For this assessment you will be required to demonstrate the sonographic scanning skills necessary to complete a sonographic examination of the liver (Part A) and the abdomen (Part B). These assessments will be conducted on a standardised patient in a clinical simulation within the sonography labs. A standardised patient in a clinical simulation is a student who has been deemed suitable and coached what to do as the patient.

PART A - Sonographic Scanning Skills Assessment - Liver

You will be required to complete a sonographic assessment of the liver as per the liver imaging protocol within a specified time to a level 2 competency. This is an assessment of the sonographic scanning skills that are further discussed and emphasised in the unit lab manual, instructed labs, lectures, and tutorials. You will be assessed using the 'Assessment of Readiness for Clinical' (ARC tool) which is available on Moodle.

For the technical component of this assessment, you will be required to:

- Follow correct practice as per the ARC tool and liver imaging protocol, demonstrating the required critical skills within a set timeframe of 25 minutes. This will include using appropriate scanning techniques and image optimisation to produce diagnostic surveys and images
- Narrate your technical performance by discussing anatomy recognition and identification of anatomy margins, imaging windows, optimisation and justification of diagnostic scanning approach.

PART B - Sonographic Scanning Skills Assessment - Abdomen

You will be required to complete a sonographic assessment of the abdomen as per the abdomen imaging protocol in a reasonable time period to a Level 2 competency. This is an assessment of the pre-scan, scanning, and post-scan skills that are further discussed and emphasised in the unit lab manual, instructed labs, lectures, and tutorials. You will be assessed using the 'Assessment of Readiness for Clinical' (ARC tool) which is available on Moodle.

There are two (2) components to Part B, professional and technical.

For the professional component, you will be required to:

- Apply correct patient care techniques and effective communication to obtain relevant patient history, informed consent, and to direct 'patients' accordingly.
- Apply professionalism in dealing with equipment and the scanning setting.
- Use correct ergonomics during the scan to prevent injury
- Apply correct infection control techniques before, during and after the skills assessment.

For the technical (scanning) component, you will be required to:

- Follow correct practice as per the ARC tool and full abdomen protocol, demonstrating the required critical skills within a set timeframe of 45 minutes. This will include using appropriate scanning techniques and image optimisation to produce diagnostic surveys and images.
- Narrate your technical performance by discussing anatomy recognition and identification of anatomy margins, imaging windows, optimisation and justification of diagnostic scanning approach.
- You will have a 60 min time slot in which to complete both your professional assessment and technical assessment.

Please carefully review the assessment information, full abdominal protocol and ARC tool posted on the unit Moodle site.

Assessment Due Date

Part A: Sonographic Skills Assessment of the Liver - week 4 (Thursday 1st August 2024): Part B: Sonographic Skills Assessment of the Full Abdomen - week 8 (Tuesday 3rd September and Thursday 5th September 2024): Resits for the Sonographic Skills Assessment of the Full Abdomen and/or Liver - week 12 (Tuesday 1st October and Thursday 3rd October 2024).

Return Date to Students

Part A: results released 9th August at 5pm AEST: Part B: results released 19th September at 3pm AEST: Resit results released 17th October at 6pm AEST.

Weighting

Pass/Fail

Minimum mark or grade

Criteria as outline in the ARC marking tool

Assessment Criteria

Part A and part B of assessment 1 must both be passed individually to pass this assessment overall.

PART A: Scanning Skills Assessment of the Liver

The assessor on the day will observe the student's performance of the full scanning procedure of the liver and assess each task relative to the stated standards of the Assessment of Readiness for Clinical (ARC) tool.

The technical assessment is marked by dividing up each section into critical and non critical skills. Critical skills must be demonstrated consistently. There is no limit of non critical errors that may be made and still pass this assessment, however if any of those errors result in a critical error due to severity, then they will count instead as a critical error.

The ARC tool, liver protocol and supporting details are available on Moodle for more specific marking guidelines.

There is only one attempt per student.

Re-evaluation options for Part A:

Assessments will initially be marked live, and feedback provided to students.

For students that do not achieve a pass in Part A in week 4, but then achieve a pass of the liver surveys and images in Week 8 (marked independently within Assessment 1 - Part B), Part A will be deemed as a pass.

In the event of the student not achieving a pass in Part A in either week 4 or week 8, there will be one (1) further opportunity to re-sit Part A in Week 12 re-sits.

In the event that a pass for Part A is not achieved in weeks 4, 8 or 12 and a final grade for assessment 1 is dependent on the Part A results, consensus moderation will be used to formally mark Part A of assessment 1 following week 12.

PART B: Sonographic Scanning Skills Assessment of the Abdomen

The assessor on the day will observe the student's performance of the full scanning procedure of the abdomen and assess each task relative to the stated standards of the Assessment of Readiness for Clinical (ARC) tool. Both the professional and technical components must be performed successfully within the same attempt to pass the assessment.

The technical assessment is marked by dividing up each section into critical and non-critical skills. Critical skills must be demonstrated consistently. There is no limit of non-critical errors that may be made and still pass this assessment, however if any of those errors result in a critical error due to severity, then they will count instead as a critical error.

For the professional component, all critical requirements (bolded items on the ARC tool) in the professional section must be correctly completed in order to pass this component of the assessment.

If a pass is achieved in the technical component, but not in the professional component in week 8, this will result in an unsuccessful assessment and the full assessment (professional and technical) will be repeated in week 12.

If a pass is achieved in the professional component, but not in the technical component in week 8, this will result in an unsuccessful assessment and the full assessment (professional and technical) will be repeated in week 12.

To pass Assessment Task 1 (Part B) overall, both the professional and technical components of this assessment must be graded as a 'pass' within the same assessment attempt as these indicate the required standard to progress to the first clinical placement.

There is only one attempt per student.

The ARC tool and supporting details are available on Moodle for more specific marking guidelines.

Re-evaluation options:

Assessment Task 1 (Part B) will initially be marked live by your assessor on the day. Moderation of results will then be conducted. Moderators will be allocated and will use video recordings and/or images from your assessment which provides a more robust marking process than the live assessment. One grade (pass/fail) will be awarded after the moderation process is complete. Provisional grades will be released once the moderation process is complete.

Students who do not pass the sonographic Assessment Task 1 (Part B) in week 8, will be provided feedback on their performance and will be given one (1) opportunity to re-sit the assessment in week 12. This test will be conducted on a

different patient to that of the first test.

This is a pass/fail assessment task in a pass/fail unit - a fail grade for any component of a pass/fail assessment task will result in a fail grade for the assessment task, and subsequently the entire unit.

Please be aware that ALL practical skills tests and re-sits will be video recorded for moderation purposes. Videos may be viewed by CQU sonography staff and tutors for the purposes of marking and moderation of assessments and may be required to be viewed by other CQU staff in the event of a student requesting either a Review of Grade or an Appeal of Grade. These videos will not be released to students for review.

Referencing Style

- [Vancouver](#)

Submission

No submission method provided.

Learning Outcomes Assessed

- Formulate strategies and implement skills necessary to complete sonographic examinations of the abdominal and urinary tract organs.
- Recognise the normal sonographic appearances of abdominal and urinary tract organs and identify anatomical variants when present, and discriminate from pathological processes.
- Display professional behaviour, teamwork, communication skills and criteria to meet safe sonographic practice and industry expectation.

2 Sonographic Assessment of the Urinary Tract

Assessment Type

Practical Assessment

Task Description

In your future career as a qualified sonographer, you will be required to competently undertake urinary tract ultrasound examinations. When performing a sonographic examination of the urinary tract you need to identify and assess anatomical structures to determine if they appear sonographically within the normal limits. This assessment expands upon your ability to formulate strategies and implement scanning skills necessary to complete a sonographic examination of the urinary tract and to critically reflect upon these skills displayed in a mock assessment to review your ability of diagnostic practice.

This assessment consists of two parts. Part A is a mock assessment of a focused urinary tract sonographic examination and Part B is a reflection of your technical skills displayed in the mock assessment.

Part A: Mock sonographic scanning skills assessment of the urinary tract.

As a student sonographer on your journey to competency in performing a sonographic assessment of the urinary tract, you will be required to perform a sonographic assessment of one (1) of the following combinations.

- Bladder - pre and post micturation.
- Bladder and prostate.
- Right kidney and bladder.
- Left kidney and bladder.

The region will be randomly allocated from the above list on the assessment day and marked using the ARC tool provided on Moodle.

You will need to follow correct practice as per the ARC tool and protocol, demonstrating the required critical skills within a set timeframe of 20 minutes. This will include using appropriate scanning techniques and image optimisation to produce diagnostic surveys and images. You will be required to narrate your technical performance by discussing anatomy recognition and identification of anatomy margins, imaging windows, optimisation and justification of diagnostic scanning approach. The assessments will be conducted on a standardised patient in a clinical simulation within the sonography labs. A standardised patient in a clinical simulation is a student who has been deemed suitable and coached what to do as the patient.

Part B - Written Critical Reflection

Following your mock scanning skills assessment of the urinary tract in the sonography labs, you will be provided access to a copy of your marked ARC tool and images of the part A assessment.

You will then be required to generate a sonographic worksheet and reflect on whether diagnostic representation of anatomy was demonstrated or could other sonographic techniques have been implemented to improve the diagnostic quality of sonographic imaging of the selected urinary tract region. This will include a personal reflection of your attempt and discussion of what things you have learnt to inform how you will sonographically assess urinary tract structures in the future. Your discussion must show that you have based your evaluation on current literature to demonstrate how you have used this to inform evidence-based practice. All theoretical and pathological knowledge must be referenced.

Assessment Due Date

Part A : assessed in the sonography labs 12th September, 2024: Part B: due 10am AEST Thursday 10th October, 2024.

Return Date to Students

10 working days following the due date for part b of the assessment.

Weighting

Pass/Fail

Assessment Criteria

Part A: Mock sonographic scanning skills assessment of the urinary tract:

The assessor on the day will observe your performance of the full scanning procedure of the selected urinary tract region and use the Assessment of Readiness for Clinical (ARC) tool to assess you. The ARC tool, urinary tract protocol and supporting details are available on Moodle for more specific marking guidelines.

There is only one attempt per student.

Part B: Written critical reflection

Your written critical reflection will be assessed for:

- the ability to critically evaluate the technical quality of the surveys and images performed
- suggestions for improvement of surveys and images (both technical and non-technical factors) reflection on the image acquisition process
- suggestions for improvement in future practice including relevance to the clinical setting
- spelling, grammar, academic writing
- referencing and the use of current literature to inform your discussion
- adherence to 700 word count +/- 10% (words past 770 words will not be assessed and may lead to marks not being allocated to the discussion outside of this word count)

Please carefully review the assessment information and ARC tool on the Moodle site for this assessment.

Referencing:

- Referencing is a vital component of any academic work and plagiarism is taken seriously by the university.
- Please refer to the Student Academic Integrity Policy and Procedure document.
- See support on Vancouver referencing on the unit Moodle site.

This is a pass/fail assessment task in a non-graded pass/fail unit - a fail grade for any component of a pass/fail assessment task will result in a fail grade for the assessment task, and subsequently the entire unit.

Additionally, in a non-graded pass/fail unit, all assessment items must be correctly and accurately submitted by the due date, as there is no opportunity to apply a five percent penalty, due to the pass/fail nature of each assessment task.

Referencing Style

- [Vancouver](#)

Submission

No submission method provided.

Learning Outcomes Assessed

- Formulate strategies and implement skills necessary to complete sonographic examinations of the abdominal and urinary tract organs.
- Recognise the normal sonographic appearances of abdominal and urinary tract organs and identify anatomical variants when present, and discriminate from pathological processes.
- Display professional behaviour, teamwork, communication skills and criteria to meet safe sonographic practice and industry expectation.

3 Online Quiz(zes)

Assessment Type

Online Quiz(zes)

Task Description

There are two (2) separate online quizzes to complete for this unit. These will assess:

- your understanding of sonographic anatomy
- your ability to identify normal variants and discriminate these from pathological processes
- your knowledge of sonographic techniques and protocols

The purpose of these quizzes is to ensure adequate review of anatomy and their sonographic appearances sufficient preparation of protocol and procedures is undertaken prior to sonographic labs.

- Once available, quizzes are open for 33 hours.
- The first quiz is in week 4 and covers the bladder, prostate, pancreas, aorta and liver.
- The second quiz is in week 6 and covers porta hepatis, gallbladder, spleen, kidneys and professional components.
- You are allowed ONE attempt at each quiz, so please ensure you are prepared beforehand.
- The time limit for the quiz is 20 mins and there are 20 multiple choice questions.
- These assessment tasks must be completed on or before the due dates.
- No late submissions are permitted after each quiz has closed, so please ensure adequate time for completion, with additional time for computer mishaps. If you have computer/quiz access difficulties, you need to contact TaSAC as soon as possible for assistance. Take a screenshot of the issue. After you have contacted TaSAC, please contact the unit coordinator for assistance if you cannot complete the quiz in the allocated time before the end of the quiz.
- In the event you are unable to complete the quiz in the allocated time and have suitable medical/supporting documentation, you can apply for an extension through the Assessment Extension system on Moodle before the end of the quiz to be granted an extension to the quiz time without academic penalty.
- In the absence of an approved extension, there will be no opportunity to complete a quiz after it has closed.

Number of Quizzes

2

Frequency of Quizzes

Other

Assessment Due Date

QUIZ ONE (1) opens 9:00am AEST Thursday 1st August 2024 and closes 6 pm AEST Friday 2nd August 2024; QUIZ 2 opens 9:00 am AEST Thursday 22nd August 2024 and closes 6pm AEST Friday 23rd August 2024.

Return Date to Students

Students will receive their scores and feedback for each quiz once all students have completed that quiz.

Weighting

Pass/Fail

Minimum mark or grade

60%

Assessment Criteria

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

Once started, the quiz cannot be paused, stopped or re-started. Once the time limit is reached any open questions will be automatically submitted. Once you have completed the test, it cannot be retaken.

Students must achieve a cumulative pass rate of 60% across the two quizzes to pass this assessment. (Please note that if one of the quizzes is not completed, a maximum cumulative score of only 50% can be achieved).

This assessment is to be undertaken as an individual, and is not approved as group work. As per the Student Academic Integrity Policy and Procedure, Section 3.25 "If evidence shows that plagiarism, collusion, cheating or academic misconduct of any kind has occurred, the conduct will be considered a breach of academic integrity." Colluding with other students on non-group work tasks is considered academic misconduct, and will be reported to the Academic Integrity Unit.

This is a pass/fail assessment task in a pass/fail unit. A fail grade for any component of a pass/fail assessment task will result in a fail grade for the assessment task, and subsequently the entire unit.

In a case that an accumulative score of 60% is not achieved in the two quizzes, a third quiz will be made available to students. This quiz will assess content from all weeks of the unit and the result can be considered for the overall minimum 60% required to pass the assessment item.

Referencing Style

- [Vancouver](#)

Submission

Online

Learning Outcomes Assessed

- Formulate strategies and implement skills necessary to complete sonographic examinations of the abdominal and urinary tract organs.

- Recognise the normal sonographic appearances of abdominal and urinary tract organs and identify anatomical variants when present, and discriminate from pathological processes.

4 Sonography Lab Documents

Assessment Type

Written Assessment

Task Description

This assessment will require you to correctly complete and correctly upload the following documentation to Moodle: The following are due week 1 (Tuesday, 9th July 2024 at 1pm AEST):

- Submission of a signed Student Acknowledgement and Lab Agreement
- Submission of a signed Consent Form - Sonographic Examination for Teaching Purposes
- Lab Induction and Quiz completed and passed (Note: 100% pass mark is required. Multiple attempts are allowed)

The following documents are due week 12 (Friday, 4th October 2024 at 5pm AEST):

- Submission of completed Lab Manual Formative Feedback Forms

The purpose of this assessment is to prepare you for professional behaviour, attendance, and documentation responsibilities on clinical placement, as well as to develop self-reflection skills by setting weekly goals and following up on progress.

The correct completion and upload of documentation:

Demonstrates understanding of the lab processes, procedures and Codes of Conduct.

Ensures that you agree to take part in scanning procedures with due regard for volunteer consent processes.

Ensures you understand safety procedures and requirements when in the sonography labs.

Ensures that you attend scanning labs as scheduled.

Allows you to collect tutor and peer feedback on your skills in ultrasound scanning, image optimisation, and documentation, patient care, communication, and ergonomic performance.

Helps you to respond to feedback with your own reflections and objectives for practice and improvement

Ensures you complete your Formative Feedback Forms before leaving at the end of each lab (as you would be required to complete documentation for each patient's scan before the end of a clinical shift) and to have it signed by your tutor.

(If you do not have all lab days signed off on your Lab Manual, you will need to write in the reason for this, however all forms in this assessment must be completed accurately and either signed off or an explanation given to pass this assessment).

Assessment Due Date

You will be required to upload your Lab Agreement and Consent Form by Tuesday 9th July 2024 at 1pm AEST. You will be required to upload your Formative Feedback Forms and Lab Attendance Record by Friday 4th October 2024 at 5pm AEST.

Return Date to Students

Weighting

Pass/Fail

Assessment Criteria

To pass this assessment item you must:

- Complete all paperwork accurately and on time.
- Save and upload in the format specified.
- Submit by the due date and time specified.

Documentation in the clinical environment must be correctly issued, otherwise there can be dire consequences for the patient and legal ramifications for the sonographer. Hence, in the lab, non-completed or incorrectly completed paperwork will be returned to students to correct and re upload. As sonographers, it is important for you to both understand and comply with requirements regarding paperwork and documentation.

This is a pass/fail assessment task in a pass/fail unit - a fail grade for any component of a pass/fail assessment task will result in a fail grade for the assessment task, and subsequently the entire unit.

Additionally, in a non-graded pass/fail unit, all assessment items must be correctly and accurately submitted by the due date, as there is no opportunity to apply a five percent penalty, due to the pass/fail nature of each assessment task.

Referencing Style

- [Vancouver](#)

Submission

Online

Submission Instructions

The uploaded documents need to be pdf format only. Please ensure your first name, surname (family name), student number, and title of what you are uploading are used in that order in the name of the uploaded document, with underscores separating words. For example: Antony_Egan_s0123456_Lab_Agreement.pdf

Learning Outcomes Assessed

- Critically reflect and improve upon own professional practice and sonographic psychomotor skills utilising constructive feedback.

5 Professional Behaviour Assessment

Assessment Type

On-campus Activity

Task Description

Professionalism and professional behaviour are critical parts of any medically aligned profession, and encompass the manner in which we treat our colleagues, patients, and the professional settings and equipment provided to us. The purpose of this assessment is to ensure that students from the Medical Sonography course are well-equipped to embody the high standards of professionalism that are expected from CQUniversity students while on their upcoming clinical placements, and as graduate sonographers in their future careers. Developing your professionalism during this unit will prepare you for the next environment in which you will be expected to maintain professional behaviour whenever in your uniform and representing the university, placement site, and yourself.

This assessment will require you to treat each of your lab sessions as a scheduled "work shift" and to exhibit professional attitudes to ensure you are prepared to enter the work force with the skills required to provide safe and professional patient care. As such, this assessment is based on assessment of student application and attendance during labs throughout the term. You must comply with uniform standards in all lab sessions.

Expected behaviour and its relevance to the clinical environment is listed in the Professional Behaviour Assessment Document. Additionally, please familiarise yourself with the CODE OF CONDUCT in the Lab Manual as well as the ASAR CODE OF CONDUCT and the CQU CODE OF CONDUCT so that you have a clear understanding of the rationale for, and importance of this assessment. All of these documents are posted on Moodle (under Assessment 5 documentation) for your information. Professionalism extends to colleagues, staff, patients, environment, and equipment.

This assessment is marked against the Professional Behaviour Assessment (PBA) description and incorporates a process of warnings and feedback on expected behaviour of students when in the lab environment. This will commence in week 3 of the term, and apply to activities within the lab. A warning is known as a Lapse in Professionalism (LiP). Up to three LiPs can be received within the unit without adverse consequence. A fourth LiP however will result in the assessment being graded as a fail.

In the event that a LiP point is accrued, written documentation of the reason will be completed by the on-site lecturer or the unit coordinator, and provided to you as feedback. You will have the opportunity to seek further clarification from unit coordinator.

If unprofessional attitude or behaviour is reported by fellow classmates and not witnessed by a staff member, an unofficial warning with formative feedback will be provided in writing detailing the allegation, and your response will be documented.

There is a COMPULSORY professional behaviour Zoom session on MONDAY 8th July 2024 7pm AEST.

Assessment Due Date

Week 12 Friday 5:00 pm AEST. Professional behaviour is to be demonstrated when in the lab environment across the term.

Return Date to Students

Weighting

Pass/Fail

Assessment Criteria

The LiP system is designed to provide a warning to students when they exhibit unprofessional behaviour, and hence up to three LiPs (official warnings) can be issued within the unit without adverse consequence. A fourth LiP however will result in the assessment being graded as a fail.

A maximum of three LiP points can be accrued to pass this assessment.

As this is a pass/fail unit, a pass in all assessment items is required to pass this unit.

Referencing Style

- [Vancouver](#)

Submission

No submission method provided.

Learning Outcomes Assessed

- Display professional behaviour, teamwork, communication skills and criteria to meet safe sonographic practice and industry expectation.

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