



# MEDS12004 Sonographic Skills Development 1

## Term 2 - 2021

Profile information current as at 05/05/2024 01:49 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 transabdominal male and female pelvis. 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. Condition: Continued enrolment in MEDS12004 is conditional upon passing any outstanding assessment pieces in MEDS12001 and MEDS12002 and MEDS12003. The opportunities to repeat this quota-based unit are limited and may require relocation to another campus, as determined by the discipline lead.

### 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 - 2021

- Brisbane
- Mackay
- Melbourne
- Perth
- Sydney

### Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

### 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 Self Reflection

##### Feedback

Reintroduce scanning skills test in week 5

##### Recommendation

Consider reintroducing the skills test in week 5, as it is a valuable opportunity for feedback for students.

#### Feedback from Self Reflection

##### Feedback

Modified abdomen protocol for 2020 delivery should be returned to the previous protocol for 2021

##### Recommendation

The protocol for abdomen was modified due to delayed delivery of this unit The longer protocol should be used in 2021.

#### Feedback from Self Reflection

##### Feedback

A physiotherapist developed strength training program that was made available to students had positive results.

##### Recommendation

Consider continuing working with the Physiotherapy program for future delivery of this unit.

## Unit Learning Outcomes

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

1. Apply the practical skills and critical thinking necessary to complete sonographic examinations of the abdominal and male and female pelvic organs.
2. Recognise the normal sonographic appearances of abdominal and pelvic 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

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Practical Assessment - 0%	•			•
2 - Practical Assessment - 0%	•			•

Assessment Tasks	Learning Outcomes			
	1	2	3	4
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				

## Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Practical Assessment - 0%	•	•	•			•	•	•		
2 - Practical Assessment - 0%	•	•	•	•		•	•	•		
3 - Online Quiz(zes) - 0%	•	•		•		•				
4 - Written Assessment - 0%	•	•	•		•			•		
5 - On-campus Activity - 0%	•	•	•		•		•	•		

## 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

MEDS12004

#### Supplementary

##### **Workbook for Textbook of Diagnostic Sonography**

Edition: 8th (2017)

Authors: Hagen-Ansert

Elsevier

St Lois , MO , USA

ISBN: 9780323441834

Binding: Paperback

#### Additional Textbook Information

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

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

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

**You will need access to the following IT resources:**

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Access card to CQUniversity campus (Melbourne students)
- Access card to the Ultrasound Imaging Lab (Mackay students)
- Philips iSite PACS System
- Access card to CQUniversity campus (Perth students)

## Referencing Style

All submissions for this unit must use the referencing style: [Vancouver](#)

For further information, see the Assessment Tasks.

## Teaching Contacts

**Jodie Gallagher** Unit Coordinator

[j.gallagher@cqu.edu.au](mailto:j.gallagher@cqu.edu.au)

## Schedule

### Week 1 - 12 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Orientation to the unit  
Transabdominal Male Pelvis  
Transabdominal Female Pelvis

**Hagen-Ansert Chapter Ch 41, 42(female pelvis) and Ch 15 (bladder)**

Curry and Tempkin Ch 20 (The male pelvis)  
Curry and Tempkin Ch 21 (The female pelvis)  
Curry and Tempkin Ch 17 (The bladder)  
Alty & Hoey (2013) Ch 10 (Female pelvis)  
Alty and Hoey (2013) Ch 4 (The bladder) pp 54-55

**(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)**

**Compulsory online Lab Induction-** WH&S requirement that the lab induction must be completed before students can attend labs in any capacity. This is to be completed before the first scanning lab if this is your first lab unit for 2021.

**Compulsory online Zoom session** regarding Assessment 5 Professional Behaviour. This will be held on Monday 12th July 2021 at 11am AEST.

**Submission of Lab Agreement.** Due Monday 12th July 2021 at 5pm AEST.

**Submission of Consent form (only for students who this is their first lab unit in 2020).** Due Monday 12th July 2021 at 5pm AEST.

**Week 2 - 19 Jul 2021**

Module/Topic	Chapter	Events and Submissions/Topic
Transabdominal female and male pelvis	<b>Hagen-Ansert Chapter Ch 41, 42(female pelvis) and Ch 15 (bladder)</b> Curry and Tempkin Ch 20 (The male pelvis) Curry and Tempkin Ch 21 (The female pelvis) Curry and Tempkin Ch 17 (The bladder) Alty & Hoey (2013) Ch 10 (Female pelvis) Alty and Hoey (2013) Ch 4 (The bladder) pp 54-55	
Aorta/IVC	<b>Hagen-Ansert Chapter 8</b> Curry and Tempkin Ch 10 and 13 Alty & Hoey (2013) Ch 3 pp 12-13 and Ch 5 pp 79-85	

**Week 3 - 26 Jul 2021**

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

**Week 4 - 02 Aug 2021**

Module/Topic	Chapter	Events and Submissions/Topic
Liver	<b>Hagen-Ansert Chapter 9</b> Curry and Tempkin Ch 14 Alty & Hoey (2013) Ch 3 pp 14-19, 28-37	
Porta hepatis	<b>Hagen-Ansert chapter 10 (ch 8 portal vein)</b> Curry and Tempkin Ch 15 (Ch 12 portal vein) Alty & Hoey (2013) Ch 3 pp 16, 20-21, 38-43 (ch 6 pp94-95 portal vein)	<b>Quiz 1. Opens Wednesday 4th August 10am AEST, closes Thursday 5th August 6pm AEST time.</b>

**Week 5 - 09 Aug 2021**

Module/Topic	Chapter	Events and Submissions/Topic
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Liver practical sonographic skills assessment

Gallbladder

**Hagen-Ansert chapter 10 (ch 8 portal vein)**

Curry and Tempkin Ch 15 (Ch 12 portal vein)

Alty & Hoey (2013) Ch 3 pp 16, 20-21, 38-43 (ch 6 pp94-95 portal vein)

**LIVER Sonographic Scanning Skills Assessment Tuesday 10th August 2021 - all day.**

**Sonographic Assessment of the Transabdominal male and female pelvis due Friday 13th August at 5pm AEST**

**Sonographic Assessment of the Transabdominal male and female pelvis** Due: Week 5 Friday (13 Aug 2021) 5:00 pm AEST

**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**

Pancreas

**Hagen-Ansert chapter 12**

Alty & Hoey (2013) Ch 3 pp 12-13, 44-45

Curry and Tempkin Ch 16

Rt kidney

**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

**Week 7 - 30 Aug 2021**

**Module/Topic**

**Chapter**

**Events and Submissions/Topic**

Lt kidney

**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

Spleen

**Hagen-Ansert chapter 11**

Curry and Tempkin Ch 18

Alty & Hoey (2013) Ch 3 pp 24-25 and 46-47

**Quiz 2. Opens Wednesday 1st September 10am AEST, closes Thursday 2nd September 6pm AEST.**

**Week 8 - 06 Sep 2021**

**Module/Topic**

**Chapter**

**Events and Submissions/Topic**

MOCK Abdomen Practical Skills Test Tuesday

Full abdomen (no new content)

**MOCK Sonographic Scanning Skills Assessment of the full abdomen Tuesday 7th September**

**Week 9 - 13 Sep 2021**

**Module/Topic**

**Chapter**

**Events and Submissions/Topic**

Full abdomen sonographic skills test

**Sonographic scanning skills assessment of the full abdomen - Tuesday 14th September and Thursday 16th September. Students must be available all day for both assessment days.**

**Week 10 - 20 Sep 2021**

**Module/Topic**

**Chapter**

**Events and Submissions/Topic**

Lab closed

**Week 11 - 27 Sep 2021**

**Module/Topic**

**Chapter**

**Events and Submissions/Topic**

Re-sit practise sessions

**Week 12 - 04 Oct 2021**

Module/Topic	Chapter	Events and Submissions/Topic
Re-sits		<b>Re-sits: Sonographic Scanning Skills Assessment of the Full Abdomen and Liver Practical Skills Assessment Tuesday 5th October and Wednesday 6th October. Students must be available all day on both days. Formative feedback manual and signed lab attendance due. Submission dates for these are Friday 8th October at 5pm AEST</b>

**Exam Week - 18 Oct 2021**

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

Your unit coordinator for Term 2, 2021 is Jodie Gallagher. Jodie can be reached via email at [j.gallagher@cqu.edu.au](mailto:j.gallagher@cqu.edu.au) or by Phone: (03) 9616 0592. There are local co-unit coordinators involved within this unit who are based at each of the five 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 weekly lectures, weekly readings and written sonographic scan protocols, weekly interactive tutorials (via Zoom) and on-campus attendance at sonography labs. **The first Zoom tutorial is on professional behaviour and attendance is compulsory. This will be held on Monday 12th July 2021 at 11am AEST.** 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 within 24 hours.

The sonographic labs consist of compulsory sonographic skills development labs, manned sonographic practice lab sessions and self-directed 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 allow yourself success.

**Compulsory sonographic skills development labs** are scheduled for Tuesday and Thursday each week of term. Compulsory attendance also applies to days allocated to practical assessments and practical assessments re-sits. 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 can result in the issuing of a Lapse in Professionalism (LiP) point. Please see the outline of assessment five for further information regarding the issuing of a LiP.

**Manned sonographic practise lab sessions** are supervised by qualified sonographic tutors and allow you to consolidate your 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.

**Self-directed sonographic practise lab sessions** are available for you to book (through GoogleDocs) on Mondays and Fridays of each week of term. You are allocated one hour of individual scanning time per week which you need to book in for. You are required to undertake these practice scanning sessions within pairs (so 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 unmanned practises. Failure to comply will result in the issuing of a LiP point. The compulsory WH&S Lab induction video and quiz (available on unit Moodle site) must be completed prior to your first sonographic lab session, if this is your first lab-based sonographic lab session for the calendar year (failure to complete will result in the issuing of a LiP point and you won't be able to attend labs until this has been completed).

**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. 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 of the Liver and Full Abdomen

#### **Assessment Type**

Practical Assessment

#### **Task Description**

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. To begin your journey to competency in these scans, you will

undertake training and practise in our realistic simulation facilities to achieve advanced beginner level competency of the full abdomen in 'normal' patients within a specified time frame.

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).

### **PART A - SONOGRAPHIC SCANNING SKILLS ASSESSMENT OF THE LIVER**

You will be required to complete a sonographic assessment of the liver as per the liver imaging protocol within a specified time. Following this assessment, you will then answer academic questions to test your knowledge of the anatomy and pathology of the liver. In summary, this is an assessment of the scanning skills that are further discussed and emphasised in the unit lab manual, instructed labs, lectures, and tutorials, as well as knowledge of anatomy and pathology that has been learned in MEDS11002 and MEDS12002. Students will be assessed using the 'Assessment of Readiness for Clinical' (ARC tool) which is available on Moodle.

To pass the Liver Practical Skills Assessment (PART A) overall, both the academic and technical components of this assessment must be graded as a 'pass' individually. The following lists the sub-assessment components:

#### **Technical (scanning) Component for the Liver Assessment:**

- You will be required to perform routine sonographic scanning techniques, image optimisation and acquisition of images of the liver in a reasonable time period, to a beginner level.
- The scanning time limit for this assessment is 20 minutes.

#### **Academic Component for the Liver Assessment:**

- Following the technical component of the practical skills assessment of the liver, you will then be asked by your assessor to answer six (6) academic questions in total to test your anatomical and pathological knowledge of the liver. Three questions will be in relation to anatomical structures in the liver, and three questions will be in relation to liver pathology.

### **PART B - SONOGRAPHIC SCANNING SKILLS ASSESSMENT OF THE FULL 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 advanced beginner level. In summary, 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. Students will be assessed using the 'Assessment of Readiness for Clinical' (ARC tool) which is available on Moodle.

To pass the Abdomen Scanning Skills Assessment (PART B) overall, both the professional and technical components of this assessment must be graded as a 'pass' individually as these indicate the required standard to progress to the first clinical placement. The following lists the sub-assessment components:

#### **Professional (pre-scan and post-scan) 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.

#### **Technical (scanning) component**

- You will be required to perform routine sonographic scanning techniques, image optimisation and acquisition of images of the abdomen in a reasonable time period, to an advanced beginner level.
- The scanning time limit for this assessment is 45 minutes.

Please carefully review the assessment information and ARC tool posted on the unit Moodle site.

Attendance for all practical assessment days and re-sit practical assessment days is mandatory. 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 the unit Moodle site, 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.

### **Assessment Due Date**

SONOGRAPHIC SKILLS ASSESSMENT of the LIVER - WEEK 5 (Tuesday 10th August): SONOGRAPHIC SKILLS TEST of the FULL ABDOMEN - WEEK 9 (Tuesday 14th September and Thursday 16th September): RESITS for the SONOGRAPHIC SKILLS TEST of the FULL ABDOMEN and/or LIVER - WEEK 12 (Tuesday 5th October and Wednesday 6th October)

### **Return Date to Students**

Grades will be released to students once the moderation process is complete. Individual marks/ARC tool will not be released to the students.

### **Weighting**

Pass/Fail

### **Minimum mark or grade**

50% for the technical component of PART A; 66% for the academic component of PART A; 65% for both for the professional and technical components of PART B

### **Assessment Criteria**

#### **PART A: LIVER SCANNING SKILLS ASSESSMENT**

- 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 ARC tool and supporting details are available on Moodle for more specific marking guidelines.
- A pass rate of 50% of the available marks must be achieved to pass the technical component. A pass rate of 66% of the available marks must be achieved to pass the academic component.
- To achieve an overall pass, both the Academic and the Technical components of the Liver Skills Assessment must be graded as a pass individually.
- There is only one attempt per student.

Re-evaluation options:

- In the event of the student failing the Liver Practical Skills Assessment in week 5 and achieving more than 50% for the liver survey and images in the Abdomen Practical Skills Assessment, this Liver Practical Skills Assessment will be deemed as a pass for the technical component.
- In the event of the student failing the Liver Practical Skills Assessment in week 5 and achieving less than 50% for the liver survey and images in the Abdomen Practical Skills Assessment in week 9, there is only ONE (1) further opportunity to re-sit the technical/and or academic components of the Liver Practical Skills Assessment item in Week 12.

#### **PART B: ABDOMEN SCANNING SKILLS ASSESSMENT**

- The assessor on the day will observe the student's performance of the full scanning procedure and assess each task relative to the stated standards of the Assessment of Readiness for Clinical (ARC) tool. The ARC tool and supporting details are available on Moodle for more specific marking guidelines.
- A pass rate of 65% of available marks in EACH of the technical AND professional behaviour components must be achieved to pass the assessment overall. Additionally, ALL critical requirements (bolded items on the ARC tool) in the professional component must receive full marks in order to pass the professional component of the assessment.
- To achieve an overall pass, both the Professional and the Technical components of the Abdomen Skills Assessment must be graded as a pass individually. If the student does not achieve a pass in the professional component, the full assessment will be repeated, but the student will only be marked on the professional component.
- There is only one attempt per student.

During re-evaluation:

- All assessments will initially be marked live by your assessor on the day. Moderation of results will then be conducted. Moderators will be allocated from another campus 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 scanning skills assessment of the full abdomen (professional and/or technical) in week 9, will be provided feedback on their performance and will be given ONE (1) opportunity to re-sit the technical and/or professional item in Week 12. This test will be conducted on a different patient to that of the first test.

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

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.

## Referencing Style

- [Vancouver](#)

## Submission

Offline

## Learning Outcomes Assessed

- Apply the practical skills and critical thinking necessary to complete sonographic examinations of the abdominal and male and female pelvic organs.
- Display professional behaviour, teamwork, communication skills and criteria to meet safe sonographic practice and industry expectation.

## Graduate Attributes

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

# 2 Sonographic Assessment of the Transabdominal male and female pelvis

## Assessment Type

Practical Assessment

## Task Description

For this assessment, you will be required to acquire static sonographic images of the male and female pelvis and then critique/reflect on these images.

There are two (2) components to this assessment: PART A and PART B.

### **PART A: PRACTICAL COMPONENT - Acquisition of static sonographic images**

In your future career as a qualified sonographer, you will be required to competently undertake a sonographic assessment of the male or female pelvis. Sonographically, we need to identify anatomical structures and determine if they appear sonographically within normal limits or appear altered from their normal sonographic appearance. As a student sonographer on your journey to competency in performing a sonographic assessment of the pelvis, you are required to obtain static representative transabdominal sonographic images of normal pelvic structures using simulation facilities in the sonography labs here at CQUniversity. You will be required to individually obtain static sonographic images of pelvic structures from student peers. Optimised and correctly documented seventeen (17) static sonographic images of the following structures are required to be obtained:

#### • **Male or female: Protocolled static images to be acquired of:**

- Urinary bladder

#### • **Female: Protocolled static images to be acquired of:**

- Uterus
- Endometrium
- Rt ovary
- Lt ovary

#### • **Male: Protocolled static images to be acquired of:**

- Prostate

### **PART B: WRITTEN COMPONENT: critique and reflection of static sonographic images acquired in part A:**

You are required to provide a critique of the static sonographic images you acquired in part 1 of this assessment task. You will then reflect on whether the images adequately represented the anatomy demonstrated or whether other sonographic techniques could have implemented to improve the sonographic documentation of pelvic structures. (1500 words +/- 10%).

Not all images will be subject to this discussion of the critique and reflection in the written component (part B), only those ten (10) listed below.

1. Uterus long with measurements
2. Uterus trans with measurement

3. Endometrium long with measurement
4. Endometrium long with colour
5. Rt ovary long with measurements
6. Lt ovary with measurement
7. Rt ovary long with colour
8. Bladder long with measurements
9. Bladder trans with measurement
10. Prostate long and trans with measurements (on single image using dual screen)

#### **For the critique:**

You are required to discuss the quality of the sonographic static images. This includes an evaluation of technical factors (ultrasound unit image optimisation settings), adequate placement of the sonographic transducer to obtain images and plane of sonographic imaging used for each structure, and whether the correct anatomy was adequately demonstrated.

#### **For the reflection:**

You are required to discuss how you felt the practical imaging went, and what things you have learnt to inform how you will sonographically assess pelvic 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.

#### **Assessment Due Date**

Week 5 Friday (13 Aug 2021) 5:00 pm AEST

#### **Return Date to Students**

Results will be returned to students approximately 10 working days after due date.

#### **Weighting**

Pass/Fail

#### **Minimum mark or grade**

50%

#### **Assessment Criteria**

##### **PART A-PRACTICAL COMPONENT - Acquisition of images**

The static sonographic images that you have submitted will be assessed for:

- correct use of optimisation settings
- imaging window used
- adequate transducer placement to obtain images in the correct scan plane
- accuracy of measurement/s
- accuracy of annotation
- correct use of ultrasound machine features
- accurate demonstration of sonographic anatomy
- submission of complete set of protocolled sonographic images of the female and male pelvises.

##### **PART B: WRITTEN COMPONENT: critique and reflection of static sonographic images acquired in part A will be assessed for:**

- the ability to critically evaluate the technical quality of the images submitted
- suggestions for improvement of images submitted (both technical and non-technical factors)
- reflection on the image acquisition process
- suggestions for improvement in future practise including relevance to the clinical setting
- spelling, grammar, academic writing
- referencing and the use of current literature to inform your discussion
- adherence to 1500 word count +/- 10% (words over 1650 words will not be assessed and may lead to marks not being allocated for images in Part A or discussion in Part B outside of this word count)

Please carefully review the assessment information and marking rubric on the Moodle site for this assessment.

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. 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. Students who are not successful in achieving a pass in a single assessment task in a pass-fail unit, will subsequently fail the entire unit.

#### **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: Jodie\_Gallagher\_s0123456\_Pelvis\_Assessment.pdf

### Learning Outcomes Assessed

- Apply the practical skills and critical thinking necessary to complete sonographic examinations of the abdominal and male and female pelvic organs.
- Display professional behaviour, teamwork, communication skills and criteria to meet safe sonographic practice and industry expectation.

### Graduate Attributes

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

## 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 32 hours.

- The first quiz is in week 4 and covers the male and female pelvis, aorta, IVC, liver, porta hepatis and patient positioning and scanning planes.
- The second quiz is in week 7 and covers the gallbladder, pancreas, spleen, and kidneys.
- 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 the unit Moodle site **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 10.00am AEST Wednesday 4th August 2021 and closes 18.00 pm AEST Thursday 5th August 2021; QUIZ 2 opens 10.00 am AEST Wednesday 1st September and closes 18.00pm AEST Thursday 2nd September 2021.

## Return Date to Students

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

## Weighting

Pass/Fail

## Minimum mark or grade

70% cumulatively across the two quizzes.

## 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 70% 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 is an open book quiz, so you have the opportunity to consult your notes, lecture slides, text books, and Moodle page. **However, 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.

## Referencing Style

- [Vancouver](#)

## Submission

Online

## Learning Outcomes Assessed

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

## Graduate Attributes

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

# 4 Sonography Lab Documents

## Assessment Type

Written Assessment

## Task Description

Sonographers work clinically with patients, and both patients and physicians rely on quick, efficient, and complete documentation to issue results, a delay of which may delay treatment. 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.

This task requires you to:

- Demonstrate understanding the lab processes, procedures and Code of Conduct.
- Agree to take part in scanning procedures with due regard for volunteer consent processes.
- Attend scanning labs as scheduled.
- Collect tutor and peer feedback on your skills in ultrasound scanning, image optimisation, and documentation, patient care, communication, and ergonomic performance.



- Respond to feedback with your own reflections and objectives for practice and improvement.

This assessment will require you to correctly complete and correctly upload the following documentation to Moodle: The following documents are due week 1 (12th July 2021 at 5pm AEST)

- A signed Student Acknowledgement and Lab Agreement
- A signed Consent Form - Sonographic Examination for Teaching Purposes \*\* ONLY if first lab unit for 2021\*\*.
- Lab Induction Checklist (hard copy to be brought to the first lab of the term) \*\* ONLY if first lab unit for 2021\*\*.

The following documents are due week 12 (8th October 2021 at 5pm)

- 22 Completed Formative Feedback Forms (including self reflection forms) plus cover sheet
- Completed Scan Lab Attendance Record

This assessment also ties in with the Professional Behaviour Assessment. You are required to 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. Self reflection forms will need to be completed at the end of each week. If you do not have all lab days signed off on your Lab Attendance, you will need to write in the reason for this (e.g. "sick - certificate sent in to UC", "did not get signed", etc.); however all forms in this assessment must be completed accurately and either signed off or an explanation given to pass this assessment. Please note, LiP points will be given for each day not signed off for anything other than an absence approved by the UC.

### **Assessment Due Date**

You will be required to upload your Lab Agreement and Consent Form (Consent Form only if the first lab unit of 2021) by Monday 12th July 2021 at 5pm AEST. You will be required to upload your Formative Feedback Forms (including self-reflection forms) and Lab Attendance Record by Friday 8th October 2021 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 patient and legal ramifications for the sonographer. Hence, in the lab, non-completed or incorrectly completed paperwork will attract a LiP point (per instance), and repeated errors will incur a fail of the assessment item. 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.

### **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: Jodie\_Gallagher\_s0123456\_Lab\_Agreement.pdf

### **Learning Outcomes Assessed**

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

### **Graduate Attributes**

- Communication



- Problem Solving
- Critical Thinking
- Team Work
- Ethical practice

## 5 Professional Behaviour Assessment

### Assessment Type

On-campus Activity

### Task Description

Professional behaviour is a critical part of any medical imaging profession and encompasses 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 CQU Medical Sonography course are well-equipped to embody the standards of professionalism that are expected from CQUniversity students while on their upcoming clinical placements, and as graduate sonographers in their future careers. This assessment will require you to treat each of your lab sessions as a scheduled "work shift" and to exhibit high-quality professional attributes to ensure you are prepared to enter the workforce with the skills required to provide safe patient care and professional behaviour. As such, this assessment is based on continuous and ongoing assessment of student application and attendance during labs and throughout the term. **Note: this extends to all behaviour exhibited by you during your time studying this unit, up until the end of exam week.** This includes participation in forums and online tutorials, labs, social media etiquette, phone calls, attitude towards peers and staff; and all official correspondence with university staff, peers, and community. This is a PASS/FAIL assessment. This assessment is marked using the Professional Behaviour Assessment (PBA) rubric and incorporates Lapse in Professionalism (LiP) points.

All interactions with staff and peers pertaining to this unit will be treated as a replica of the clinical work environment. You will be expected to demonstrate all of the professional behaviour that will be expected of you in a formal work environment. Lapse in Professionalism points can be issued in three different categories:

1. Professional behaviour towards colleagues
2. Professional behaviour towards patients.
3. Professional behaviour in professional settings and equipment.

Expected behaviour and its relevance to the clinical environment is listed under the Professional Behaviour Assessment Outline on the unit Moodle site. You must review this information and be aware of what is expected of you for this unit. Please be aware that not having your Formative Feedback Forms signed on your lab day would have consequences in a clinical setting and will warrant a LiP point. You will be required to fill out a Formative Feedback Form for each of your compulsory labs, but not for the dates of your practical skills test as outlined in the lab manual. It is very important that you familiarise yourself with the CODE OF CONDUCT in the Lab Manual as well as the ASA CODE OF CONDUCT and the CQU CODE OF CONDUCT. All of these documents are posted on the unit Moodle site for your information.

If unprofessional behaviour is reported by fellow classmates and not witnessed by a staff member, a written warning detailing the allegations will be issued to the student, and the student's response documented. If further evidence of an on-going unprofessional behaviour surfaces, then a LiP point may be issued.

Up to three LiP points can be issued before the assessment is graded as a fail. **However, if any exhibited behaviour is deemed as unsafe or unacceptable for clinical practice and feedback given to the student around this issue is not taken on board, the professional behaviour assessment may be graded as a FAIL at the discretion of the unit coordinator.**

**There is a COMPULSORY Zoom session on MONDAY 12th July 2021 11AM AEST regarding requirements for this assessment task. Failure to attend will incur a Lapse in Professionalism point**

### Assessment Due Date

Professional behaviour is to be demonstrated consistently and this assessment extends over the entire term.

### Return Date to Students

### Weighting

Pass/Fail

### Minimum mark or grade

No more than three (3) LiPs accumulated throughout the term

### Assessment Criteria

In the event that a LiP point is accrued, it will be discussed between the student and one of the teaching team. Written documentation explaining the reason for the issued LiP will be signed by the on-site lecturer or the unit coordinator, and sent to the student via email.

To pass this assessment, you must not accrue more than three (3) LiP points in the unit over the entire term. If a student accrues more than THREE LiP points, a Professional Behaviour Assessment Rubric will be issued by the unit coordinator and the Assessment is graded as a fail. If a student accrues less than three LiP points, then the PBA is not issued.

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.

**Referencing Style**

- [Vancouver](#)

**Submission**

Online

**Learning Outcomes Assessed**

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

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Team Work
- Cross Cultural Competence
- Ethical practice

## Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

### What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

### Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

### Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

### What can you do to act with integrity?



#### Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



#### Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



#### Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem