



MEDI3100

Clinical Anatomy and Medical Imaging

Session 2, Weekday attendance, North Ryde 2021

Medicine, Health and Human Sciences Faculty level units

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Disclaimer

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

Session 2 Learning and Teaching Update

The decision has been made to conduct study online for the remainder of Session 2 for all units WITHOUT mandatory on-campus learning activities. Exams for Session 2 will also be online where possible to do so.

This is due to the extension of the lockdown orders and to provide certainty around arrangements for the remainder of Session 2. We hope to return to campus beyond Session 2 as soon as it is safe and appropriate to do so.

Some classes/teaching activities cannot be moved online and must be taught on campus. You should already know if you are in one of these classes/teaching activities and your unit convenor will provide you with more information via iLearn. If you want to confirm, see the list of [units with mandatory on-campus classes/teaching activities](#).

Visit the [MQ COVID-19 information page](#) for more detail.

General Information

Unit convenor and teaching staff

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Credit points

10

Prerequisites

130cp including (HLTH108 or ANAT1001) and 20cp from (MEDI204 or MEDI2300 or MEDI203 or MEDI2100 or HLTH213 or ANAT2003 or BIOL247 or BIOL2220)

Corequisites

Co-badged status

Unit description

This is the final unit in the Anatomy and Physiology major where you will synthesise knowledge to appreciate the structural and functional relationships of the human body and enable a better understanding of the features of health and disease. Delivered as a series of lectures, small group learning, presentations and practicals, it will cover the regions of the body routinely examined clinically as part of an initial patient assessment. Clinically applied anatomy of the head and neck, nervous system, thorax, abdomen, pelvis and limbs will be emphasised, and reinforced by examination of cadavers, surface anatomy, imaging and clinical testing. The course will be useful for students considering medicine or paramedical careers where initial patient assessment is mandatory.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

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

ULO1: Review the clinically-relevant anatomy of the major body systems and the changes characterising common system disorders.

ULO2: Recognize and explain the major components of a basic functional assessment

of the major body systems.

ULO3: Explain the principles of clinical imaging for plain film radiography, CT, MRI, sonography and SPECT, and the risk-benefit rationale underlying referral protocols.

ULO4: Identify clinically relevant structures in medical images.

General Assessment Information

General Assessment Information

Grade descriptors and other information concerning grading are contained in Schedule 1 of the Macquarie University Assessment Policy, which is available at: <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/assessment>.

Further details for each assessment task will be available on iLearn.

All final grades are determined by a grading committee and are not the sole responsibility of the Unit Convenor.

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes, attempt all assessment tasks, meet any ungraded requirements including professionalism and achieve an SNG of 50 or better.

Student Professionalism

In the Faculty of Medicine and Health Sciences, professionalism is a key capability embedded in all our courses. As part of developing professionalism, students are expected to attend all small group interactive sessions including tutorials, as well as clinical- and laboratory-based practical sessions.

Furthermore, lectures and seminars are key learning activities that you are expected to attend throughout completion of the Bachelor of Clinical Sciences. While audio recordings and lecture slides may be made available following these large group sessions, it is important to recognise that such resources are a study aid and should not be considered an alternative to lecture or seminar attendance.

Students are required to attend a minimum of 80% of all sessions. Students that do not meet this requirement may be deemed unable to meet expectations regarding professionalism and may be referred for disciplinary action (which may include exclusion from assessments and unit failure).

Similarly, as part of developing professionalism, students are expected to submit all work by the due date. Applications for assessment task extensions must be supported by appropriate evidence and submitted via www.ask.mq.edu.au. For further details please refer to the Special Consideration Policy available at <https://students.mq.edu.au/study/my-study-program/special-consideration>.

Late Submission

Late submissions will receive a 5% per day penalty including weekends and public holidays. If you submit the assessment task 10 days or more beyond the due date, without an approved extension, you will be awarded a maximum of 50% of the overall assessment marks.

For example:

Due date	Received	Days late	Deduction	Raw mark	Final mark
Friday 14th	Monday 17th	3	15%	75%	60%

Assessment Tasks

Name	Weighting	Hurdle	Due
Mid session MCQ	10%	No	Week 7 (Friday)
Weekly quiz	30%	No	Weeks 2-5, 8-12 (Fridays)
Mid session OSPE	10%	No	Week 7 (Friday)
End of session OSPE	25%	No	To be advised by exams office
End of session MCQ	25%	No	To be advised by exams office

Mid session MCQ

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 5 hours

Due: **Week 7 (Friday)**

Weighting: **10%**

Text and image-based multiple choice questions, testing both recall and understanding of clinical anatomy and medical imaging.

On successful completion you will be able to:

- Review the clinically-relevant anatomy of the major body systems and the changes characterising common system disorders.
- Explain the principles of clinical imaging for plain film radiography, CT, MRI, sonography and SPECT, and the risk-benefit rationale underlying referral protocols.
- Identify clinically relevant structures in medical images.

Weekly quiz

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 20 hours

Due: **Weeks 2-5, 8-12 (Fridays)**

Weighting: **30%**

Weekly individual quizzes conducted in- class. Highest 7 scores to be used for final mark.

On successful completion you will be able to:

- Review the clinically-relevant anatomy of the major body systems and the changes characterising common system disorders.
- Explain the principles of clinical imaging for plain film radiography, CT, MRI, sonography and SPECT, and the risk-benefit rationale underlying referral protocols.
- Identify clinically relevant structures in medical images.

Mid session OSPE

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 5 hours

Due: **Week 7 (Friday)**

Weighting: **10%**

Objective Structured Practical Examination (OSPE) involving specimens and models

On successful completion you will be able to:

- Review the clinically-relevant anatomy of the major body systems and the changes characterising common system disorders.
- Recognize and explain the major components of a basic functional assessment of the major body systems.
- Identify clinically relevant structures in medical images.

End of session OSPE

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 10 hours

Due: **To be advised by exams office**

Weighting: **25%**

Objective Structured Practical Examination (OSPE) involving specimens and models

On successful completion you will be able to:

- Review the clinically-relevant anatomy of the major body systems and the changes characterising common system disorders.
- Recognize and explain the major components of a basic functional assessment of the major body systems.
- Identify clinically relevant structures in medical images.

End of session MCQ

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 10 hours

Due: **To be advised by exams office**

Weighting: **25%**

Text and image-based multiple choice questions that test both recall and understanding of clinical anatomy and medical imaging.

On successful completion you will be able to:

- Review the clinically-relevant anatomy of the major body systems and the changes characterising common system disorders.
- Explain the principles of clinical imaging for plain film radiography, CT, MRI, sonography and SPECT, and the risk-benefit rationale underlying referral protocols.
- Identify clinically relevant structures in medical images.

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

This unit involves essential on-campus learning activities which will be delivered in accordance with a COVID Safe plan. You are expected to attend on-campus for these activities unless the Public Health Orders and/or University advice changes, you have any symptoms of COVID or you have been identified as a contact of an individual with COVID. Please refer to iLearn for further information.

This unit will be delivered by lectures, practicals, regular assessments and tutorials. It will be assessed by regular short quizzes, followed by a discussion of the answers, by a mid session assessment and by an end of session assessments.

Lectures will be delivered online. You should pay attention to the study focusing questions in each lecture as these, together with the questions in the anatomy practical guides, will form the basis of your assessments. For the medical imaging lectures, you will be guided through image stacks and then directed to websites where you can navigate through the same image stacks at your own pace.

The short quizzes that occur most weeks, will allow you to accumulate marks towards your final mark and will provide you with an opportunity to discuss areas of difficulty with your peers and staff.

The anatomy practicals are designed as revision practicals that focus on clinically relevant

topics. They assume that you have a working knowledge of all the body regions and will have read the practical notes and attempted the questions before the practical.

The applied anatomy practicals in the clinical skills unit provide you with an opportunity to practice elements of clinical skills so that you can recognise these and explain their purpose in assessments. You will not be assessed on your ability to perform the examinations and there will be no diagnosis.

Unit Schedule

MEDI 3100 Clinical anatomy and medical imaging. Weekly schedule

WEEK 1

- | | |
|--------------------------------------|----------------------------|
| 1. Lectures (online): | Thorax anatomy and imaging |
| 2. Anatomy laboratory (Thurs): | Thorax and abdomen |
| 3. Clinical skills (Thurs): | none |
| 4. Weekly assessment/tutorial (Fri): | none |

WEEK 2

- | | |
|--------------------------------------|--|
| 1. Lectures (online): | Abdomen and pelvis anatomy and imaging |
| 2. Anatomy laboratory (Thurs): | none |
| 3. Clinical skills (Thurs): | Thorax, abdomen, pelvis |
| 4. Weekly assessment/tutorial (Fri): | Thorax & abdomen |

WEEK 3

- | | |
|--------------------------------------|----------------------------|
| 1. Lectures (online): | Abdomen and pelvis imaging |
| 2. Anatomy laboratory (Thurs): | none |
| 3. Clinical skills (Thurs): | none |
| 4. Weekly assessment/tutorial (Fri): | Abdomen and pelvis |

WEEK 4

- | | |
|--------------------------------------|---------------------------|
| 1. Lectures (online): | Spine anatomy and imaging |
| 2. Anatomy laboratory (Thurs): | Pelvis and spine |
| 3. Clinical skills (Thurs): | none |
| 4. Weekly assessment/tutorial (Fri): | Pelvis and spine |

WEEK 5

- | | |
|--------------------------------|------|
| 1. Lectures (online): | none |
| 2. Anatomy laboratory (Thurs): | none |

3. Clinical skills (Thurs): none
4. Weekly assessment/tutorial (Fri): Thorax, abdomen, pelvis and spine

WEEK 6 (Revision)

1. Lectures (online): none
2. Anatomy laboratory (Thurs): none
3. Clinical skills (Thurs): none
4. Weekly assessment/tutorial (Fri): none

WEEK 7 (Mid-session assessment)

1. Lectures (online): none
2. Anatomy laboratory (Thurs): none
3. Clinical skills (Thurs): none
4. Weekly assessment/tutorial (Fri): none
5. **MID SESSION ASSESSMENT (Fri)**

WEEK 8

1. Lectures (online): Upper limb anatomy and imaging
2. Anatomy laboratory (Thurs): none
3. Clinical skills (Thurs): none
4. Weekly assessment/tutorial (Fri): Upper limbs

WEEK 9

1. Lectures (online): Lower limb anatomy and imaging
2. Anatomy laboratory (Thurs): Upper and lower limbs
3. Clinical skills (Thurs): none
4. Weekly assessment/tutorial (Fri): Lower limbs

WEEK 10

1. Lectures (online): Head, neck and brain anatomy and imaging
2. Anatomy laboratory (Thurs): none
3. Clinical skills (Thurs): Upper and lower limbs
4. Weekly assessment/tutorial (Fri): Head and neck

WEEK 11

1. Lectures (online): Brain anatomy and imaging
2. Anatomy laboratory (Thurs): Head, neck and brain

3. Clinical skills (Thurs): none
4. Weekly assessment/tutorial (Fri): Brain

WEEK 12

1. Lectures (online): none
2. Anatomy laboratory (Thurs): none
3. Clinical skills (Thurs): Head, neck and cranial nerves
4. Weekly assessment/tutorial (Fri): Whole body

WEEK 13 (Revision)

1. Lectures (online): none
2. Anatomy laboratory (Thurs): none
3. Clinical skills (Thurs): none
4. Weekly assessment/tutorial (Fri): none

END OF SESSION ASSESSMENT (Details via University Examinations Office)

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies \(https://students.mq.edu.au/support/study/policies\)](https://students.mq.edu.au/support/study/policies). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit <ask.mq.edu.au> or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Learning Skills

Learning Skills (<mq.edu.au/learningskills>) provides academic writing resources and study strategies to help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at <ask.mq.edu.au>

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#).

The policy applies to all who connect to the MQ network including students.

Changes since First Published

Date	Description
15/07/2021	Addition of additional delivery and resources information.