



CHIR8402

Diagnostic Imaging 2

Session 2, In person-scheduled-weekday, North Ryde 2022

Department of Chiropractic

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General Information

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Credit points

10

Prerequisites

CHIR8401 or CHIR916

Corequisites

Co-badged status

Unit description

This unit builds on the principles and concepts developed in CHIR8401. It further develops radiographic interpretation with a focus on the appropriate use of imaging in clinical practice. Increasing complexity of radiographic positioning of the spine and extremities is taught, with particular reference to clinical application. This unit forms part of a suite of units in radiographic science that leads to eligibility for licensure to own and operate x-ray equipment.

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: Synthesise radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.

ULO2: Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.

ULO3: Discuss indications for the appropriate use of imaging in chiropractic practice and critique ethical considerations related to imaging use

ULO4: Construct narrative radiographic reports as appropriate for use in clinical chiropractic practice.

ULO5: Implement and explain principles of radiography as applicable to chiropractic practice.

ULO6: Demonstrate the ability to modify radiographic technique appropriately for different clinical presentations.

General Assessment Information

Unit Grades

Grade descriptors and other information concerning grading are contained in the [Macquarie University Assessment Policy](#).

All final grades are determined by a grading committee, in accordance with the Macquarie University Assessment Policy, and are not the sole responsibility of the Unit Convenor.

Students will be awarded a final grade and a mark which must correspond to the grade descriptors specified in the [Assessment Procedure](#) (clause 128).

To pass this unit, you must demonstrate sufficient evidence of achievement of the learning outcomes, meet any ungraded requirements, and achieve a final mark of 50 or better.

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

Late Submissions

For any late submissions of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for Special Consideration.

Written assessments: Unless a Special Consideration request has been submitted and approved, a 5% penalty (OF THE TOTAL POSSIBLE MARK) will be applied each day a written assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of '0' will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical concern.

For example:

Number of days (hours) late	Total Possible Marks	Deduction	Raw mark	Final mark
1 day (1-24 hours)	100	5	75	70
2 days (24-48 hours)	100	10	75	65
3 days (48-72 hours)	100	15	75	60
7 days (144-168 hours)	100	35	75	40
>7 days (>168 hours)	100	-	75	0

Tutorials

Students are strongly encouraged to attend and actively participate in all tutorials in this unit.

Tutorials have been designed to align with learning outcomes and assessment tasks within this unit.

Quizzes

Quizzes will be available through ilearn unless otherwise indicated.

It is expected that the academic integrity policy (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/academic-integrity>) be followed at all times. Breaches of the academic integrity policy may result in disciplinary procedures for the involved student.

All quizzes should be attempted. Quizzes will open each week on Wednesday at 10am and close the following Tuesday at 2pm (first quiz due week 2). Quizzes will not be reopened after they are closed for any reason. If submission is affected by technical difficulties, you can send your answers to the unit convener (hazel.jenkins@mq.edu.au) PRIOR to the closing time of the quiz for manual grading.

Slide Exams

The slide exams will be conducted in either a written or online format. Further details will be released during the semester.

If a slide exam is missed a supplementary exam will only be considered under the Special Consideration policy (<https://students.mq.edu.au/study/my-study-program/special-consideration>), applied for through www.ask.mq.edu.au within 5 days of the assessment.

Attendance at a slide exam declares that you are fit to sit the exam. Re-sitting of slide exams is not normally approved and will only be considered under the Special Consideration policy (<https://students.mq.edu.au/study/my-study-program/special-consideration>), applied for through www.ask.mq.edu.au within 5 days of the assessment. If a re-sit occurs, either a VIVA (oral) or written format may be used.

Competency Assessments

The competency assessments are a hurdle requirement. You must demonstrate competency in all competency assessments to pass the unit. If competency is not demonstrated (but a significant attempt is made) then one further opportunity to demonstrate competency will be given at the end of semester.

If a competency assessment is missed a supplementary exam will only be considered under the Special Consideration policy (<https://students.mq.edu.au/study/my-study-program/special-consideration>), applied for through www.ask.mq.edu.au within 5 days of the assessment.

Attendance at a competency declares that you are fit to sit the assessment. Re-sitting of competencies is not normally approved and will only be considered under the Special Consideration policy (<https://students.mq.edu.au/study/my-study-program/special-consideration>), applied for through www.ask.mq.edu.au within 5 days of the assessment.

Theory Exam

The University Examination period for Semester 2, 2022 is from November 7th to November 25th 2022.

The theory exam will be conducted in a written format.

You are expected to present yourself for examination at the time and place designated in the University Examination Timetable. The timetable will be available in Draft form approximately eight weeks before the commencement of the examinations and in Final form approximately four weeks before the commencement of the examinations.

You are advised that it is Macquarie University policy not to set early examinations for individuals or groups of students. You are expected to ensure that you are available until the end of the teaching semester that is the final day of the official examination period.

The only exception to not sitting an examination at the designated time is because of documented illness or unavoidable disruption. In these circumstances you may wish to consider applying for Special Consideration. Information about unavoidable disruption and the Special Consideration process is available at <https://students.mq.edu.au/study/my-study-program/special-consideration>, applied for through www.ask.mq.edu.au within 5 days of the disruption

If you receive [special consideration](#) for the final exam, a supplementary exam will be scheduled in the interval between the regular exam period and the start of the next session. By making a special consideration application for the final exam you are declaring yourself available for a resit during the supplementary examination period and will not be eligible for a second special consideration approval based on pre-existing commitments. Please ensure you are familiar with the [policy](#) prior to submitting an application. If you are approved for Special Consideration and granted a supplementary exam, only your supplementary exam result will be counted towards your final grade.

If you attend and complete an examination you are declaring that you are fit to sit that assessment and Special Consideration will not normally be granted.

Students with a pre-existing disability/health condition or prolonged adverse circumstances may be eligible for ongoing assistance and support. Such support is governed by other policies and may be sought and coordinated through Wellbeing services <https://students.mq.edu.au/support/wellbeing>.

Assessment Tasks

Name	Weighting	Hurdle	Due
Final theory exam	50%	No	Exam period
Weekly quizzes	20%	No	Weekly, due Tuesday 2pm weeks 2-12
Slide exam 1	15%	No	Friday 2/9/22 8-10am

Name	Weighting	Hurdle	Due
Slide exam 2	15%	No	Friday 28/10/22 8-10am
Radiographic positioning competency assessment	0%	Yes	Weeks 5, 9, 13 in Tuesday tutorial time

Final theory exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 17 hours

Due: **Exam period**

Weighting: **50%**

Radiographic interpretation and positioning theory exam

On successful completion you will be able to:

- Synthesise radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Discuss indications for the appropriate use of imaging in chiropractic practice and critique ethical considerations related to imaging use
- Construct narrative radiographic reports as appropriate for use in clinical chiropractic practice.
- Implement and explain principles of radiography as applicable to chiropractic practice.
- Demonstrate the ability to modify radiographic technique appropriately for different clinical presentations.

Weekly quizzes

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 5 hours

Due: **Weekly, due Tuesday 2pm weeks 2-12**

Weighting: **20%**

On-line quizzes to be performed weekly. These will be available on ilearn. Quizzes may include multiple choice and short answer questions. All quizzes should be attempted.

On successful completion you will be able to:

- Synthesise radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Construct narrative radiographic reports as appropriate for use in clinical chiropractic practice.
- Implement and explain principles of radiography as applicable to chiropractic practice.

Slide exam 1

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 6 hours

Due: **Friday 2/9/22 8-10am**

Weighting: **15%**

Radiographic Interpretation Slide Exam 1. All previous material from CHIR8401 is assumed knowledge.

On successful completion you will be able to:

- Synthesise radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.

Slide exam 2

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 6 hours

Due: **Friday 28/10/22 8-10am**

Weighting: **15%**

Radiographic Interpretation Slide Exam 2. All previous material from CHIR8401 is assumed knowledge.

On successful completion you will be able to:

- Synthesise radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Construct narrative radiographic reports as appropriate for use in clinical chiropractic practice.

Radiographic positioning competency assessment

Assessment Type ¹: Clinical performance evaluation

Indicative Time on Task ²: 6 hours

Due: **Weeks 5, 9, 13 in Tuesday tutorial time**

Weighting: **0%**

This is a hurdle assessment task (see [assessment policy](#) for more information on hurdle assessment tasks)

Radiographic Positioning Competency Based Assessments performed during tutorial time. You must be marked as competent in all competencies to pass the unit. These competencies form part of your radiographic portfolio that will be continued in clinic.

On successful completion you will be able to:

- Implement and explain principles of radiography as applicable to chiropractic practice.
- Demonstrate the ability to modify radiographic technique appropriately for different clinical presentations.

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

As a student enrolled in this unit, you will engage in a range of online and face-to-face learning activities, including online modules, Echo recordings, discussion lectures and tutorials. Details can be found on the iLearn site for this unit.

Online modules, Lectures, and Tutorials:

Weekly online modules are available for both radiographic interpretation and radiographic positioning. Scheduled time has been timetabled on Wednesdays to complete these modules. The radiographic interpretation module should be completed prior to the Friday discussion lecture each week. The radiographic positioning module should be completed before the Tuesday tutorial of the following week (i.e. module released week 1 to be completed before Tuesday tutorial week 2).

Lecture 1 (online only): Wednesday 6-8pm. This timeslot can be used to complete the weekly online modules. It is strongly recommended that you complete these modules on a weekly basis to get the most out of this course. Modules start week 1.

Lecture 2 (face-to-face): Friday 8-10am 14SCO T4. This is a discussion based lecture for radiographic interpretation - attendance and participation at the face-to-face lecture is strongly encouraged to get the most out of this course. Discussion lectures start week 1.

SGTA1: Radiographic Interpretation Tutorials (x1): Tuesday 2-3, 3-4, 4-5, 5-6, 6-7pm E5A 350 (RADLAB) starting week 2

SGTA2: Radiographic Positioning Tutorials (x1): Tuesday 2-3, 3-4, 4-5, 5-6, 6-7, 7-8pm E5A 340 starting week 2

Recommended Readings

Required Texts:

Yochum, T & Rowe, L; 2005; Essentials of Skeletal Radiology Vol I & II (3rd Ed); Lippincott, William & Wilkins; Baltimore

Required Manuals:

CHIR8402 Radiographic Interpretation Online Modules, 2022

CHIR8402 Radiographic Interpretation Discussion Lectures, 2022

CHIR8402 Radiographic Interpretation Tutorial Manual, 2022

CHIR8402 Radiographic Positioning Online Modules, 2022

Radiographic Positioning Manual, 2022 (same manual as CHIR8401)

All manuals are available to download from ilearn

Technology Used

Active participation in the learning activities throughout the unit will require students to have access to a tablet, laptop or similar device. Students who do not own their own laptop computer may borrow one from the university library.

Audiovisual: all face-to-face lectures will be recorded and available on ECHO. SGTA1 tutorial recordings will also be available on ECHO the day after the tutorial.

iLearn: iLearn will be used to post all information regarding the course. This includes all course

materials and information about assessments.

Radiographic Library: The radiographic library (RADLAB) houses over 1000 xrays and is available for your use on iShare. A link will be provided from your ilearn page.

Internet: Google images is a great resource for sourcing specific xrays. There are many websites available with extensive xray libraries and this is also a valuable revision tool.

Unit Schedule

The unit schedule is available on ilearn

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](https://policies.s.mq.edu.au) (<https://policies.s.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](#)
- [Assessment Procedure](#)
- [Complaints Resolution 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

Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and

courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing and maths support](#), [academic skills development](#) and [wellbeing consultations](#).

Student Support

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

The Writing Centre

[The Writing Centre](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Workshops](#)
- [Chat with a WriteWISE peer writing leader](#)
- [Access StudyWISE](#)
- [Upload an assignment to Studiosity](#)
- [Complete the 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

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)
- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)

Student Enquiries

Got a question? Ask us via [AskMQ](#), or contact [Service Connect](#).

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.

Inclusion and Diversity

Social inclusion at Macquarie University is about giving everyone who has the potential to benefit from higher education the opportunity to study at university, participate in campus life and flourish in their chosen field. The University has made significant moves to promote an equitable, diverse and exciting campus community for the benefit of staff and students. It is your responsibility to contribute towards the development of an inclusive culture and practice in the areas of learning and teaching, research, and service orientation and delivery. As a member of the Macquarie University community, you must not discriminate against or harass others based on their sex, gender, race, marital status, carers' responsibilities, disability, sexual orientation, age, political conviction or religious belief. All staff and students are expected to display appropriate behaviour that is conducive to a healthy learning environment for everyone.

Professionalism

In the Faculty of Medicine, Health and Human 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 clinical, practical, laboratory, work-integrated learning (e.g., PACE placements), and team-based learning activities. Some learning activities are recorded (e.g., face-to-face lectures), however you are encouraged to avoid relying upon such material as they do not recreate the whole learning experience and technical issues can and do occur. As an adult learner, we respect your decision to choose how you engage with your learning, but we would remind you that the learning opportunities we create for you have been done so to enable your success, and that by not engaging you may impact your ability to successfully complete this unit. We equally expect that you show respect for the academic staff who have worked hard to develop meaningful activities and prioritise your learning by communicating with them in advance if you are unable to attend a small group interactive session.

Another dimension of professionalism is having respect for your peers. It is the right of every student to learn in an environment that is free of disruption and distraction. Please arrive to all learning activities on time, and if you are unavoidably detained, please join activity as quietly as possible to minimise disruption. Phones and other electronic devices that produce noise and other distractions must be turned off prior to entering class. Where your own device (e.g., laptop) is being used for class-related activities, you are asked to close down all other applications to avoid distraction to you and others. Please treat your fellow students with the utmost respect. If you are uncomfortable participating in any specific activity, please let the relevant academic know.