



CHIR916

Diagnostic Imaging 1

S1 Day 2019

Dept of Chiropractic

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Disclaimer

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General Information

Unit convenor and teaching staff

Unit Convenor

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Credit points

4

Prerequisites

Admission to MChiroprac and (CHIR311 or CHIR316 or (CHIR602 and CHIR603 and CHIR604 and CHIR605 and CHIR606 and (CHIR607 or CHIR608)))

Corequisites

Co-badged status

Unit description

This unit develops radiographic interpretation skills of the spine, skeleton, chest and abdomen. Routine radiographic positioning of the spine and extremities is also taught. 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:

Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.

Recognise the range of normal radiographic appearances of the spine, extremities, chest and abdomen, including anatomical and positional variances.

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

Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.

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

Interpret normal CT and MR appearances in the spine and differentiate specific abnormalities.

General Assessment Information

TUTORIALS

Tutorial attendance and active participation is expected at a minimum of 80% (9 of 11) tutorials in both radiographic interpretation and radiographic positioning to demonstrate a serious attempt at completing this unit.

QUIZZES

Quizzes will be available through ilearn unless otherwise indicated.

It is expected that the academic honesty policy (http://mq.edu.au/policy/docs/academic_honesty/policy.html) be followed at all times. Breaches of the academic honesty policy may result in disciplinary procedures for the involved student.

All quizzes should be attempted. Quizzes will open each week on Wednesday at 8am and close

the following Tuesday at 2pm. 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

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 practical or slide exams 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.

THEORY EXAMINATIONS

The University Examination period for Semester 1, 2019 is from June 11th to June 28th 2019.

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 15th to 26th July. 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. You can check the supplementary exam information page on FSE101 in iLearn ([bit.ly/FSESupp](#)) for dates, and approved applicants will receive an individual notification one week prior to the exam with the exact date and time of their supplementary examination. 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 [Campus Wellbeing and Support Services](#).

Assessment Tasks

Name	Weighting	Hurdle	Due
On-going Assessment	20%	No	On-going
Slide Exam	15%	No	5 April 2019 8-10am
Skills Competency Assessments	0%	Yes	During weeks 4, 8 and 13
Slide Exam	15%	No	31 May 2019 8-10am
Final Exam	50%	No	Exam Period
Tutorial Participation	0%	Yes	On-going

On-going Assessment

Due: **On-going**

Weighting: **20%**

On-line quizzes to be performed prior to the radiographic interpretation tutorial each week.

These will be available on ilearn. Quizzes may include multiple choice questions, radiographic image description and diagnosis, and radiographic critique. All quizzes should be attempted.

Quizzes will open each week on Wednesday at 8am and close the following Tuesday at 2pm.

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.

On successful completion you will be able to:

- Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.
- Recognise the range of normal radiographic appearances of the spine, extremities, chest and abdomen, including anatomical and positional variances.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.
- Interpret normal CT and MR appearances in the spine and differentiate specific abnormalities.

Slide Exam

Due: **5 April 2019 8-10am**

Weighting: **15%**

In-lecture slide exam for radiographic interpretation covering normal radiographic anatomy, congenital disorders and dysplasias, trauma and arthritides. The exam format and examination schedule will be released during the semester.

On successful completion you will be able to:

- Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.
- Recognise the range of normal radiographic appearances of the spine, extremities, chest and abdomen, including anatomical and positional variances.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.

Skills Competency Assessments

Due: **During weeks 4, 8 and 13**

Weighting: **0%**

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

Radiographic positioning competency assessment. During tutorial times in weeks 4, 8 and 13 students will be expected to demonstrate one radiographic technique. This will be a competency based assessment with no marks awarded. Students must demonstrate three competent techniques to pass the unit. If an attempt is not assessed as competent, students will be given a single further opportunity to demonstrate competence in that technique.

On successful completion you will be able to:

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

Slide Exam

Due: **31 May 2019 8-10am**

Weighting: **15%**

Radiographic interpretation slide exam 2 covering infection, endocrine and metabolic disorders, tumours, vascular and growth disorders, chest and abdomen and spinal CT and MR imaging. The exam format and examination schedule will be released during the semester.

On successful completion you will be able to:

- Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.
- Recognise the range of normal radiographic appearances of the spine, extremities, chest and abdomen, including anatomical and positional variances.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.
- Interpret normal CT and MR appearances in the spine and differentiate specific abnormalities.

Final Exam

Due: **Exam Period**

Weighting: **50%**

Exam period final theory exam for radiographic interpretation and positioning

On successful completion you will be able to:

- Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.
- Recognise the range of normal radiographic appearances of the spine, extremities, chest and abdomen, including anatomical and positional variances.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.
- Implement and explain principles of radiography as applicable to chiropractic practice.
- Interpret normal CT and MR appearances in the spine and differentiate specific abnormalities.

Tutorial Participation

Due: **On-going**

Weighting: **0%**

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

Tutorial attendance and active participation is expected at a minimum of 80% (9 out of 11) tutorials in both radiographic interpretation and radiographic positioning to demonstrate a

serious attempt at completing this unit.

On successful completion you will be able to:

- Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.
- Recognise the range of normal radiographic appearances of the spine, extremities, chest and abdomen, including anatomical and positional variances.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.
- Interpret normal CT and MR appearances in the spine and differentiate specific abnormalities.

Delivery and Resources

Lecture and Tutorial Times:

Lecture 1: Tuesday 8-10am 14 S.C.O Ave T2

Lecture 2: Friday 8-10am 14 S.C.O Ave T2

Radiographic Positioning Tutorials (x1): Tuesday 1-2pm, 2-3pm, 3-4pm, 4-5pm, 5-6pm 11 Wally's Walk 340

Radiographic Interpretation Tutorials (x1): Tuesday 1-2pm, 2-3pm, 3-4pm, 4-5pm, 5-6pm 11 Wally's Walk 350 (RADLAB)

Technology:

Audiovisual: all lectures will be recorded and available on ECHO

iLearn: all lecture, tutorial, assignment and on-going assessment material will be available. Due to the large number of pictures within these presentations download times can be slow

Resources:

Required Texts:

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

Required Manuals:

Radiographic Positioning Manual, 2019 (available electronically on ilearn)

Radiographic Interpretation Tutorial Manual, 2019 (available electronically on ilearn)

Radiographic Library:

The radiographic library (RADLAB) houses over 1000 xray and is available for your use in E5A 350 whenever classes are not occurring within the room. It is expected that the RADLAB is utilised for your revision for 1-2hrs per week. It is expected that the RADLAB is kept clean and tidy and that the xrays are re-catalogued correctly at the end of your study session. Failure to do this may lead to lack of further access to the RADLAB.

Digital access to the radiographic library will be provided through iLearn

iLearn:

iLearn will be used to post all information regarding the course. This includes all course materials and information about assessments.

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

Please see the ilearn page for the weekly schedule

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>). 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](#) (**Note:** *The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.*)

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

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/p) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/p>

[olicy-central](#)).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/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 improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

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.

Graduate Capabilities

PG - Capable of Professional and Personal Judgment and

Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

Learning outcomes

- Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.
- Implement and explain principles of radiography as applicable to chiropractic practice.

Assessment tasks

- On-going Assessment
- Slide Exam
- Skills Competency Assessments
- Slide Exam
- Final Exam
- Tutorial Participation

PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

Learning outcomes

- Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.
- Recognise the range of normal radiographic appearances of the spine, extremities, chest and abdomen, including anatomical and positional variances.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a

radiographic image using a categorical approach.

- Implement and explain principles of radiography as applicable to chiropractic practice.
- Interpret normal CT and MR appearances in the spine and differentiate specific abnormalities.

Assessment tasks

- On-going Assessment
- Slide Exam
- Skills Competency Assessments
- Slide Exam
- Final Exam
- Tutorial Participation

PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

Learning outcomes

- Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.
- Recognise the range of normal radiographic appearances of the spine, extremities, chest and abdomen, including anatomical and positional variances.
- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.
- Implement and explain principles of radiography as applicable to chiropractic practice.
- Interpret normal CT and MR appearances in the spine and differentiate specific abnormalities.

Assessment tasks

- On-going Assessment
- Slide Exam
- Skills Competency Assessments

- Slide Exam
- Final Exam
- Tutorial Participation

PG - Research and Problem Solving Capability

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

Learning outcomes

- Explain radiographic terms and distinguish possible reasons for variance in image appearance and imaging faults.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.

Assessment tasks

- On-going Assessment
- Slide Exam
- Slide Exam
- Final Exam
- Tutorial Participation

PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

Learning outcomes

- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiological and clinical findings to determine a differential diagnosis for a radiographic image using a categorical approach.
- Implement and explain principles of radiography as applicable to chiropractic practice.

Assessment tasks

- On-going Assessment
- Slide Exam
- Skills Competency Assessments
- Slide Exam
- Final Exam
- Tutorial Participation

PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues

This graduate capability is supported by:

Learning outcome

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

Assessment tasks

- Skills Competency Assessments
- Final Exam

Changes from Previous Offering

No changes from the previous offering have been made