



# CHIR917

## Diagnostic Imaging 2

S2 Day 2018

*Dept of Chiropractic*

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#### **Disclaimer**

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## General Information

Unit convenor and teaching staff

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Credit points

4

Prerequisites

CHIR916

Corequisites

### Co-badged status

#### Unit description

This unit builds on the principles and concepts developed in CHIR916. 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:

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

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

Demonstrate knowledge of the appropriate use of imaging in chiropractic practice and critique ethical considerations related to imaging use

Construct narrative radiographic reports 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 to different clinical presentations

## General Assessment Information

### 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 honesty policy ([http://mq.edu.au/policy/docs/academic\\_honesty/policy.html](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 10am 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](mailto:hazel.jenkins@mq.edu.au)) PRIOR to the closing time of the quiz for manual grading.

### **COMPETENCY AND SLIDE EXAMS**

If a competency assessment or 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](http://www.ask.mq.edu.au) within 5 days of the assessment.

Attendance at a slide exam or competency declares that you are fit to sit the exam. Re-sitting of slide exams or competencies 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](http://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 2, 2018 is from November 12th to November 30th 2018.

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](http://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. You can check the supplementary exam information page on FSE101 in iLearn ([bit.ly/FSESupp](http://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
<a href="#">On-going Assessment</a>	20%	No	Weekly due 2pm Tuesday
<a href="#">Slide Exam</a>	15%	No	Friday 7/9/18 in lecture
<a href="#">Competency assessments</a>	0%	Yes	Ongoing
<a href="#">Slide Exam</a>	15%	No	Friday 2/11/18 in lecture
<a href="#">Theory Exam</a>	50%	No	Exam Period

### On-going Assessment

Due: **Weekly due 2pm Tuesday**

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 radiographic image description and diagnosis, clinical implications and radiographic report writing. All quizzes should be attempted.

On successful completion you will be able to:

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

### Slide Exam

Due: **Friday 7/9/18 in lecture**

Weighting: **15%**

Radiographic Interpretation Slide Exam 1: Exam on radiographic images from the spine, chest and abdomen. All previous material from CHIR916 is assumed knowledge.

On successful completion you will be able to:

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

## Competency assessments

Due: **Ongoing**

Weighting: **0%**

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

Radiographic Positioning Competency Based Assessments

These will be performed during tutorial time in weeks 5, 9 and 13

You must be marked as competent in 3 techniques to pass the unit. These competencies form part of your radiographic portfolio that will be continued in clinic

If you do not meet competency in a technique (but make a serious attempt) you will be given one opportunity to re-sit that assessment.

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 to different clinical presentations

## Slide Exam

Due: **Friday 2/11/18 in lecture**

Weighting: **15%**

Radiographic Interpretation Slide Exam 2: Exam on radiographic images from the extremities and a spinal narrative x-ray report. All previous material from CHIR916 is assumed knowledge.

On successful completion you will be able to:

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

## Theory Exam

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.
- Demonstrate knowledge of the appropriate use of imaging in chiropractic practice and critique ethical considerations related to imaging use
- Construct narrative radiographic reports 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 to different clinical presentations

## **Delivery and Resources**

### **Lecture and Tutorial Times:**

Lecture 1: Wednesday 8-10am 9 Wally's Walk 102 (E6A102)

Lecture 2: Friday 8-10am 17 Wally's Walk (C5C) Collaborative forum

Radiographic Positioning Tutorials (x1): Tuesday 2-3, 3-4, 4-5, 5-6pm E5A 340

Radiographic Interpretation Tutorials (x1): Tuesday 2-3, 3-4, 4-5, 5-6pm E5A 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, 2018 (same manual as CHIR916)

Radiographic Interpretation Tutorial Manual, 2018 (new manual for CHIR917)

Both manuals are available to download from ilearn

#### ***Radiographic Library:***

The radiographic library (RADLAB) houses over 1000 xrays 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.

The radiographic library is also available on iShare and a link will be provided from your ilearn page.

### ***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.

## **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/policy-central) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-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 shown in *iLearn*, 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](#).

## 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](http://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](http://ask.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/](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

- Synthesise radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.
- Demonstrate knowledge of the appropriate use of imaging in chiropractic practice and critique ethical considerations related to imaging use
- Construct narrative radiographic reports 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 to different clinical presentations

## Assessment tasks

- On-going Assessment
- Slide Exam
- Competency assessments
- Slide Exam
- Theory Exam

## 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

- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.
- Demonstrate knowledge of the appropriate use of imaging in chiropractic practice and critique ethical considerations related to imaging use
- Construct narrative radiographic reports 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 to different clinical presentations

## Assessment tasks

- On-going Assessment

- Slide Exam
- Competency assessments
- Slide Exam
- Theory Exam

## 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

- Execute a thorough assessment of the radiographic image and differentiate and describe abnormal radiographic appearances.
- Synthesise radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.
- Demonstrate knowledge of the appropriate use of imaging in chiropractic practice and critique ethical considerations related to imaging use
- Construct narrative radiographic reports 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 to different clinical presentations

### Assessment tasks

- On-going Assessment
- Slide Exam
- Competency assessments
- Slide Exam
- Theory Exam

## 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**

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

## **Assessment tasks**

- On-going Assessment
- Slide Exam
- Slide Exam
- Theory Exam

## **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 radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.
- Demonstrate knowledge of the appropriate use of imaging in chiropractic practice and critique ethical considerations related to imaging use
- Construct narrative radiographic reports 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 to different clinical presentations

## **Assessment tasks**

- On-going Assessment
- Slide Exam
- Competency assessments
- Slide Exam
- Theory Exam

## 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 outcomes

- Synthesise radiographic and advanced imaging findings to aid diagnosis and inform patient management within chiropractic clinical practice.
- Demonstrate knowledge of the appropriate use of imaging in chiropractic practice and critique ethical considerations related to imaging use
- Construct narrative radiographic reports 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 to different clinical presentations

### Assessment tasks

- On-going Assessment
- Slide Exam
- Competency assessments
- Slide Exam
- Theory Exam

## Changes from Previous Offering

No changes from the previous offering have been made