



# CHIR917

## Diagnostic Imaging 2

S2 Day 2017

*Dept of Chiropractic*

### Contents

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<u>General Information</u>	2
<u>Learning Outcomes</u>	3
<u>General Assessment Information</u>	3
<u>Assessment Tasks</u>	5
<u>Delivery and Resources</u>	7
<u>Policies and Procedures</u>	8
<u>Graduate Capabilities</u>	9
<u>Disruption from Studies Policy</u>	13
<u>Grading</u>	14

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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.

### COMPETENCY AND SLIDE EXAMS

If a competency assessment or slide exam is missed a supplementary exam will only be considered under the disruption to studies policy ([http://students.mq.edu.au/student\\_admin/exams/disruption\\_to\\_studies/](http://students.mq.edu.au/student_admin/exams/disruption_to_studies/)), applied for through [www.ask.mq.edu.au](http://www.ask.mq.edu.au) within 5 days of the disruption.

### THEORY EXAMINATIONS

The University Examination period for Semester 2, 2017 is from November 13th to December 1st 2017.

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 disruption to studies. Information about unavoidable disruption and the disruption to studies process is available at [http://students.mq.edu.au/student\\_admin/exams/disruption\\_to\\_studies/](http://students.mq.edu.au/student_admin/exams/disruption_to_studies/), applied for through [www.ask.mq.edu.au](http://www.ask.mq.edu.au) within 5 days of the disruption

If you attend and complete an examination or assessment you are declaring that you are fit to sit that assessment and disruption from studies will not normally be granted.

**Serious and unavoidable disruption:** The University classifies a disruption as **serious and unavoidable** if it:

- could not have reasonably been anticipated, avoided or guarded against by the student; and
- was beyond the student's control; and
- caused substantial disruption to the student's capacity for effective study and/or completion of required work; and
- occurred during an event critical study period and was at least three (3) consecutive days duration, and/or
- prevented completion of a final examination.

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](#).

***If you are granted a supplementary exam via the Disruption to Studies process, you will have to write a supplementary exam in the supplementary exam period. The supplementary exam may be in a different format to the original exam and you will be notified of this when you are granted a supplementary exam. Only your supplementary exam mark will be counted towards your final exam mark.***

***If you apply for Disruption to Study for your final examination, you must make yourself available for the week of Faculty of Science and Engineering supplementary exams. If you are not available at that time, there is no guarantee an additional examination time will be offered. Specific examination dates and times will be determined at a later date.***

## Assessment Tasks

Name	Weighting	Hurdle	Due
<u>On-going Assessment</u>	20%	No	Weekly
<u>Slide Exam</u>	15%	No	Friday 8/9/17 in lecture
<u>Competency assessments</u>	0%	Yes	Ongoing
<u>Slide Exam</u>	15%	No	Friday 3/11/17 in lecture
<u>Theory Exam</u>	50%	No	Exam Period

### On-going Assessment

Due: **Weekly**

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 8/9/17 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 you will be given one opportunity to re-sit that assessment at a later date

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 3/11/17 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 E7BT2

Lecture 2: Friday 8-10am E7BT5

Radiographic Positioning Tutorials (x1): Monday 1-2pm, 2-3pm, Thursday 1-2pm, 2-3pm E5A 340

Radiographic Interpretation Tutorials (x1): Thursday 1-2pm, 2-3pm, 3-4pm, 4-5pm 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, 2017 (same manual as CHIR916)

Radiographic Interpretation Tutorial Manual, 2017 (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.

### ***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](#). Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy [http://mq.edu.au/policy/docs/academic\\_honesty/policy.html](http://mq.edu.au/policy/docs/academic_honesty/policy.html)

Assessment Policy [http://mq.edu.au/policy/docs/assessment/policy\\_2016.html](http://mq.edu.au/policy/docs/assessment/policy_2016.html)

Grade Appeal Policy <http://mq.edu.au/policy/docs/gradeappeal/policy.html>

Complaint Management Procedure for Students and Members of the Public [http://www.mq.edu.au/policy/docs/complaint\\_management/procedure.html](http://www.mq.edu.au/policy/docs/complaint_management/procedure.html)

Disruption to Studies Policy (in effect until Dec 4th, 2017): [http://www.mq.edu.au/policy/docs/disruption\\_studies/policy.html](http://www.mq.edu.au/policy/docs/disruption_studies/policy.html)

Special Consideration Policy (in effect from Dec 4th, 2017): <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration>

In addition, a number of other policies can be found in the [Learning and Teaching Category](#) of 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/support/student\\_conduct/](https://students.mq.edu.au/support/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](http://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

## Disruption from Studies Policy

**Serious and unavoidable disruption:** The University classifies a disruption as **serious and unavoidable** if it:

- could not have reasonably been anticipated, avoided or guarded against by the student; and
- was beyond the student's control; and
- caused substantial disruption to the student's capacity for effective study and/or completion of required work; and
- occurred during an event critical study period and was at least three (3) consecutive days duration, and/or
- prevented completion of a final examination.

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](#).

If a supplementary examination is granted as a result of the disruption to studies process the examination will be scheduled after the conclusion of the official examination period. (Individual Faculties may wish to signal when the Faculty Supplementary exams are normally scheduled.)

***If you are granted a supplementary exam via the Disruption to Studies process, you will have to write a supplementary exam in the supplementary exam period. In this scenario, only your supplementary exam mark will count towards your final exam mark, irrespective of whether or not you attended the final exam in the normal examination period. The submission of a Disruption to Studies form should not be used as a 'just in case' strategy.***

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.

## Grading

Achievement of grades will be based on the following criteria:

Grade	
High Distinction (85-100)	A minimum of 85% total raw mark
Distinction (75-84)	A minimum mark of 75% total raw mark
Credit (65-74)	A minimum mark of 65% total raw mark
Pass (50-64)	A minimum mark of 50% total raw mark
Fail (< 50)	Less than 50% total raw mark

What does each grade mean?

*High Distinction:* provides consistent evidence of deep and critical understanding in relation to the learning outcomes. There is substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem solving approaches; critical evaluation of problems, their solutions and their implications; creativity in application.

*Distinction:* provides evidence of integration and evaluation of critical ideas, principles and theories, distinctive insight and ability in applying relevant skills and concepts in relation to learning outcomes. There is demonstration of frequent originality in defining and analysing issues or problems and providing solutions; and the use of means of communication appropriate to the discipline and the audience.

*Credit:* provides evidence of learning that goes beyond replication of content knowledge or skills relevant to the learning outcomes. There is demonstration of substantial understanding of fundamental concepts in the field of study and the ability to apply these concepts in a variety of contexts; plus communication of ideas fluently and clearly in terms of the conventions of the discipline.

*Pass:* provides sufficient evidence of the achievement of learning outcomes. There is demonstration of understanding and application of fundamental concepts of the field of study; and communication of information and ideas adequately in terms of the conventions of the

discipline. The learning attainment is considered satisfactory or adequate or competent or capable in relation to the specified outcomes.

*Fail:* does not provide evidence of attainment of all learning outcomes. There is missing or partial or superficial or faulty understanding and application of the fundamental concepts in the field of study; and incomplete, confusing or lacking communication of ideas in ways that give little attention to the conventions of the discipline.