



CHIR917

Diagnostic Imaging 2

S2 Day 2015

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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C5C 347

Wednesday 12-3pm

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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 develops further differential diagnostic skills for radiological pathologies of the spine, skeleton, chest and abdomen and further instructs in radiographic positioning of the spine and extremities. This unit forms part of a suite of units in radiological 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 abnormal radiographic appearances.

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

Summarise indications and contraindications for radiography and advanced imaging within chiropractic clinical practice

Critique ethical considerations associated with the use of imaging in chiropractic practice

Construct narrative radiographic reports for use in clinical chiropractic practice.

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

General Assessment Information

TUTORIALS

All tutorials in this unit are compulsory. A minimum of 80% of radiographic interpretation and radiographic positioning tutorials must be attended for successful completion of this unit.

ASSIGNMENTS

Submission of assignments will be 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.

References should be cited using the Harvard style of referencing (<http://libguides.mq.edu.au/content.php?pid=459099&sid=3759396>).

Assignment word limits should be adhered to. A deduction of 10% of the final grade will be applied for every 10% increase in word count above the set limit. Word count does not include reference lists.

Late submission of assignments will result in a grade deduction of 10% per day late. Submissions handed in more than 1 week after the due date will not be assessed.

Extensions to assessment due dates may be granted under extenuating circumstances.

Application for extensions must be made under the disruption to studies policy (http://students.mq.edu.au/student_admin/exams/disruption_to_studies/), applied for through www.ask.mq.edu.au within 5 days of the disruption and prior to the submission date of the assignment. Resubmission of assignments will not be considered under usual circumstances.

PRACTICAL AND SLIDE EXAMS

If a practical exam 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/), applied for through www.ask.mq.edu.au within 5 days of the disruption.

Re-sitting of practical or slide exams will only be considered under the disruption to studies policy (http://students.mq.edu.au/student_admin/exams/disruption_to_studies/), applied for through www.ask.mq.edu.au within 5 days of the disruption. If a re-sit occurs, a VIVA (oral) format will be used.

THEORY EXAMINATIONS

The University Examination period in for Semester 2, 2015 is from November 9th to November 27th 2015.

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.

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/, applied for through www.ask.mq.edu.au within 5 days of the disruption

If a Supplementary Examination is granted the examination will be scheduled after the conclusion of the official examination period.

If you sit the theory exam but successfully apply for disruption from studies for that exam you will be required to sit a supplementary examination. This exam will take the format of short answer questions in a VIVA (oral) exam.

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

Assessment Tasks

Name	Weighting	Due
<u>On-going Assessment</u>	5%	Weekly
<u>Slide Exam</u>	15%	Friday 4/9/15 in lecture
<u>Assignment</u>	15%	Wednesday 30/9/15 5pm
<u>Practical Exam</u>	10%	Week 13
<u>Slide Exam</u>	15%	Friday 30/10/15 in lecture
<u>Theory Exam</u>	40%	Exam Period

On-going Assessment

Due: **Weekly**

Weighting: **5%**

On-line quizzes to be performed prior to the radiographic interpretation tutorial each week. These will be available on ilearn and are timed.

On successful completion you will be able to:

- Synthesise radiographic and advanced imaging findings to aid diagnosis and direct patient management within chiropractic clinical practice.
- Summarise indications and contraindications for radiography and advanced imaging within chiropractic clinical practice

Slide Exam

Due: **Friday 4/9/15 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 abnormal radiographic appearances.
- Synthesise radiographic and advanced imaging findings to aid diagnosis and direct patient management within chiropractic clinical practice.
- Summarise indications and contraindications for radiography and advanced imaging

within chiropractic clinical practice

Assignment

Due: **Wednesday 30/9/15 5pm**

Weighting: **15%**

Written assignment

On successful completion you will be able to:

- Execute a thorough assessment of the radiographic image and differentiate abnormal radiographic appearances.
- Critique ethical considerations associated with the use of imaging in chiropractic practice
- Construct narrative radiographic reports for use in clinical chiropractic practice.
- Implement and explain principles of radiography as applicable to chiropractic practice.

Practical Exam

Due: **Week 13**

Weighting: **10%**

Radiographic Positioning Practical Exam

On successful completion you will be able to:

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

Slide Exam

Due: **Friday 30/10/15 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 abnormal radiographic appearances.
- Synthesise radiographic and advanced imaging findings to aid diagnosis and direct patient management within chiropractic clinical practice.
- Summarise indications and contraindications for radiography and advanced imaging within chiropractic clinical practice
- Construct narrative radiographic reports for use in clinical chiropractic practice.

Theory Exam

Due: **Exam Period**

Weighting: **40%**

Radiographic interpretation and positioning theory exam

On successful completion you will be able to:

- Synthesise radiographic and advanced imaging findings to aid diagnosis and direct patient management within chiropractic clinical practice.
- Summarise indications and contraindications for radiography and advanced imaging within chiropractic clinical practice
- Critique ethical considerations associated with the use of imaging in chiropractic practice
- Construct narrative radiographic reports for use in clinical chiropractic practice.
- Implement and explain principles of radiography as applicable to chiropractic practice.

Delivery and Resources

Lecture and Tutorial Times:

Lecture 1: Wednesday 8-10am E7BT2

Lecture 2: Friday 8-10am E7BT2

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, 2015 (same manual as CHIR916)

Radiographic Interpretation Tutorial Manual, 2015 (new manual for CHIR917)

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

Assessment Policy <http://mq.edu.au/policy/docs/assessment/policy.html>

Grading Policy <http://mq.edu.au/policy/docs/grading/policy.html>

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

Grievance Management Policy http://mq.edu.au/policy/docs/grievance_management/policy.html

Disruption to Studies Policy http://www.mq.edu.au/policy/docs/disruption_studies/policy.html *The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.*

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/

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) 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

IT Help

For help with University computer systems and technology, visit <http://informatics.mq.edu.au/help/>.

When using the University's IT, you must adhere to the [Acceptable Use 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

- Summarise indications and contraindications for radiography and advanced imaging within chiropractic clinical practice
- Critique ethical considerations associated with the use of imaging in chiropractic practice
- Construct narrative radiographic reports for use in clinical chiropractic practice.

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

Assessment tasks

- On-going Assessment
- Slide Exam
- Assignment
- Practical Exam
- 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 abnormal radiographic appearances.
- Synthesise radiographic and advanced imaging findings to aid diagnosis and direct patient management within chiropractic clinical practice.
- Summarise indications and contraindications for radiography and advanced imaging within chiropractic clinical practice
- Construct narrative radiographic reports for use in clinical chiropractic practice.
- Implement and explain principles of radiography as applicable to chiropractic practice.

Assessment tasks

- On-going Assessment
- Slide Exam
- Assignment
- Practical Exam
- 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 abnormal radiographic appearances.
- Synthesise radiographic and advanced imaging findings to aid diagnosis and direct patient management within chiropractic clinical practice.
- Summarise indications and contraindications for radiography and advanced imaging within chiropractic clinical practice
- Critique ethical considerations associated with the use of imaging in chiropractic practice
- Implement and explain principles of radiography as applicable to chiropractic practice.

Assessment tasks

- On-going Assessment
- Slide Exam
- Assignment
- Practical Exam
- 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 outcome

- Synthesise radiographic and advanced imaging findings to aid diagnosis and direct 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 abnormal radiographic appearances.
- Synthesise radiographic and advanced imaging findings to aid diagnosis and direct patient management within chiropractic clinical practice.
- Summarise indications and contraindications for radiography and advanced imaging within chiropractic clinical practice
- Critique ethical considerations associated with the use of imaging in chiropractic practice
- Construct narrative radiographic reports for use in clinical chiropractic practice.
- Implement and explain principles of radiography as applicable to chiropractic practice.

Assessment tasks

- On-going Assessment
- Slide Exam
- Assignment
- Practical Exam
- 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

- Summarise indications and contraindications for radiography and advanced imaging within chiropractic clinical practice
- Critique ethical considerations associated with the use of imaging in chiropractic practice

Assessment tasks

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

Grading

This subject is comprised of 2 distinct strands: radiographic interpretation and radiographic positioning. Each of these strands must be passed for a final (overall) grade of a pass or higher to be awarded.

To pass the radiographic interpretation strand a minimum mark of 50% must be achieved from the cumulative marks of the slide exams (1 and 2) and the radiographic interpretation components of the theory exam.

To pass the radiographic positioning strand a minimum mark of 50% must be achieved from the cumulative marks of the practical exam and the radiographic positioning components of the theory exam

Achievement of grades will be based on the following criteria:

Grade	
High Distinction (85-100)	A minimum mark of 50% achievement in radiographic interpretation and 50% achievement in radiographic positioning, PLUS a minimum 85% total raw mark
Distinction (75-84)	A minimum mark of 50% achievement in radiographic interpretation and 50% achievement in radiographic positioning, PLUS a minimum 75% total raw mark
Credit (65-74)	A minimum mark of 50% achievement in radiographic interpretation and 50% achievement in radiographic positioning, PLUS a minimum 65% total raw mark
Pass (50-64)	A minimum mark of 50% achievement in radiographic interpretation and 50% achievement in radiographic positioning, PLUS a minimum 50% total raw mark
Fail (< 50)	Less than 50% achievement in radiographic interpretation and/or 50% achievement in radiographic positioning, AND/OR less than 50% total raw mark

NOTE: Raw mark vs SNG

"The Standard Numerical Grade (SNG) is the number that is associated with the grade (high distinction, distinction, credit and so on) that a student is awarded. It is called a grade as it does

not represent the raw marks, it reflects where within the grading structure the student sits."

<http://www.mq.edu.au/glossary/term/StandardisedNumericalGrade>

It is NOT necessarily the same as your RAW mark, which represents the total of your marks for each assessment task.

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.