



CHIR8505

Diagnosis and Management 1

Session 1, In person-scheduled-weekday, North Ryde 2022

Department of Chiropractic

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General Information

Unit convenor and teaching staff

Christopher Agius

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Credit points

10

Prerequisites

(CHIR8512 or CHIR8502 or CHIR874) and (CHIR8102 or CHIR892) and (CHIR8402 or CHIR917) and (CHIR8514 or CHIR8504 or CHIR919)

Corequisites

Co-badged status

Unit description

The focus of this unit is to continue to develop students' clinical reasoning skills, by exposing them to a range of clinical scenarios, which may be encountered in chiropractic practice. It aims to act as a 'virtual clinic', exposing students to a standardised range of clinical experiences. Students go over the case studies prior to the tutorials, and discuss them as a student-based group activity in the tutorials, in order to imitate the independence required in clinical practice. The clinical management of the patient includes nutritional, pharmacological and mental health interventions, and thus these studies are included in this unit.

CHIR8505 articulates with CHIR8506 with the two units together covering the full spectrum of clinically relevant conditions for chiropractors.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

ULO1: Integrate and assess presented data (including history, physical examination, and investigations where appropriate) using problem-solving techniques to successfully diagnose patients presenting for chiropractic care across the lifespan

ULO2: Formulate patient-specific management plans under an evidence-based framework, including referral for further investigations or alternative management when

appropriate.

ULO3: Outline commonly presented mental health conditions and consider how the patient's mental health status can influence their clinical presentation, their therapeutic relationship with the chiropractor, and the clinical outcomes

ULO4: Interpret a wide range of diagnostic images and evaluate how imaging findings will affect patient management

ULO5: Discuss drug usage relevant to chiropractic practice, including pharmacodynamics and pharmacokinetics, and explain the significance of toxicity, adverse reactions and contraindications

ULO6: Use current research to critically evaluate present nutritional information, issues and trends

Assessment Tasks

Name	Weighting	Hurdle	Due
<u>Case Study Examination</u>	20%	No	Week 7
<u>Pharmacology Assessment Task</u>	10%	No	End of Week 8
<u>Radiology Slide Exam</u>	15%	No	Week 13, Friday 8am
<u>Online case study quizzes</u>	15%	No	Weekly
<u>Final Examination</u>	40%	No	Exam Period

Case Study Examination

Assessment Type ¹: Examination

Indicative Time on Task ²: 10 hours

Due: **Week 7**

Weighting: **20%**

A summative assessment of case study diagnosis and management. Students are provided with history and examination information and asked to present their diagnosis and a management plan.

On successful completion you will be able to:

- Integrate and assess presented data (including history, physical examination, and investigations where appropriate) using problem-solving techniques to successfully diagnose patients presenting for chiropractic care across the lifespan
- Formulate patient-specific management plans under an evidence-based framework,

including referral for further investigations or alternative management when appropriate.

- Outline commonly presented mental health conditions and consider how the patient's mental health status can influence their clinical presentation, their therapeutic relationship with the chiropractor, and the clinical outcomes
- Interpret a wide range of diagnostic images and evaluate how imaging findings will affect patient management
- Discuss drug usage relevant to chiropractic practice, including pharmacodynamics and pharmacokinetics, and explain the significance of toxicity, adverse reactions and contraindications
- Use current research to critically evaluate present nutritional information, issues and trends

Pharmacology Assessment Task

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 10 hours

Due: **End of Week 8**

Weighting: **10%**

This assessment task is based on a patient profile which contains a list of medications taken by the patient. Based on the information provided students must answer a series of questions assessing their ability to apply their knowledge of pharmacology.

On successful completion you will be able to:

- Discuss drug usage relevant to chiropractic practice, including pharmacodynamics and pharmacokinetics, and explain the significance of toxicity, adverse reactions and contraindications

Radiology Slide Exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 10 hours

Due: **Week 13, Friday 8am**

Weighting: **15%**

A slide examination related to radiographic and medical imaging, in which students answer questions on slide images in a written examination

On successful completion you will be able to:

- Integrate and assess presented data (including history, physical examination, and investigations where appropriate) using problem-solving techniques to successfully diagnose patients presenting for chiropractic care across the lifespan

- Formulate patient-specific management plans under an evidence-based framework, including referral for further investigations or alternative management when appropriate.
- Interpret a wide range of diagnostic images and evaluate how imaging findings will affect patient management

Online case study quizzes

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 10 hours

Due: **Weekly**

Weighting: **15%**

Weekly online quizzes accessible through ilearn. The quizzes will assess theory and radiology related to weekly case studies, and nutrition and mental health questions based on lecture material from the previous week.

On successful completion you will be able to:

- Integrate and assess presented data (including history, physical examination, and investigations where appropriate) using problem-solving techniques to successfully diagnose patients presenting for chiropractic care across the lifespan
- Formulate patient-specific management plans under an evidence-based framework, including referral for further investigations or alternative management when appropriate.
- Interpret a wide range of diagnostic images and evaluate how imaging findings will affect patient management

Final Examination

Assessment Type ¹: Examination

Indicative Time on Task ²: 20 hours

Due: **Exam Period**

Weighting: **40%**

The final exam covers pharmacology, nutrition and mental health theory.

On successful completion you will be able to:

- Outline commonly presented mental health conditions and consider how the patient's mental health status can influence their clinical presentation, their therapeutic relationship with the chiropractor, and the clinical outcomes
- Discuss drug usage relevant to chiropractic practice, including pharmacodynamics and pharmacokinetics, and explain the significance of toxicity, adverse reactions and contraindications
- Use current research to critically evaluate present nutritional information, issues and

trends

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

Unit Web Page

You can log in to [iLearn](#) System via the link listed below:

<http://learn.mq.edu.au>

All lecture materials will be posted on [ilearn](#), and there is also a link to ECHO360 for **audio** recordings of the lectures plus livestreaming.

There are 3 lectures per week one in each stream. The streams are - Nutrition, Mental Health and Clinical Pharmacology.

All Nutrition lectures will be delivered Pre-recorded in 2021. Mental Health and Clinical Pharmacology will be a mixture of pre-recorded and live online lectures.

[Required and Recommended Resources](#)

Core:

Beirman R. Cases in Differential Diagnosis for the Physical and Manipulative Therapies. Churchill Livingstone, 2012

Highly recommended:

Souza, T. Differential Diagnosis for the Chiropractor

Yochum, T., & Rowe, L., 20, Essentials of Skeletal Radiology – Vols I & II, (ed.) Lippincott, William & Wilkins, Baltimore.

A note about textbooks:

Textbooks for this unit can be purchased online from Booktopia <https://www.booktopia.com.au>

[Link to textbook at booktopia](#)

Tutorials:

Case Studies & Evidence Informed Practice

The schedule of weekly tutorials is available on iLearn. It details the case studies that will be covered in the tutorials, the extra reading cases and the online quiz cases for theory and radiology, all laid out week by week. Please consult the schedule at the start of every week and prepare before coming to tutorials and go through the assigned cases before undertaking the weekly online quizzes. Attendance and participation in tutorials are a hurdle requirement and it is necessary to attend at least 8 of the 10 sessions.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](https://policies.mq.edu.au) (<https://policies.mq.edu.au>). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

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

To find other policies relating to Teaching and Learning, visit [Policy Central](https://policies.mq.edu.au) (<https://policies.mq.edu.au>) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

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

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

Student Support

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

The Writing Centre

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

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

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

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

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

Student Enquiries

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

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#).

The policy applies to all who connect to the MQ network including students.