



CHIR605

Medical Sciences B

S2 Day 2015

Dept of Chiropractic

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General Information

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C5C-341

Monday 3pm-5pm

Credit points

4

Prerequisites

CHIR604

Corequisites

Co-badged status

Unit description

This is another unit in which students continue to explore the relationship between health and disease, from both the biological and psychosocial perspective. The pathologies studied in this unit are those of the musculoskeletal, nervous and integumentary systems, as well as those relating to the eye and the ear. Their causes, mechanisms and effects are explored. The links between these disease mechanisms and their clinical manifestations is highlighted. By the completion of this unit, students will have completed their study of the major diseases of the body, and how they manifest in the patient. This will ultimately deepen their understanding of the complex relationship between ourselves and our environment.

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:

Name the pathologies that can occur in the nervous, musculoskeletal and integumentary systems, as well as those of the eye and ear.

For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.

Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.

Explain the multifactorial nature of the development of disease states

Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.

Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

General Assessment Information

Examination(s)

The University Examination period in for Second Half Year 2015 is from Monday 9th November to Friday 27th November 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 is available at Policy Central: <http://www.mq.edu.au/policy/>

If a Supplementary Examination is granted as a result of your application, the examination will be scheduled after the conclusion of the official examination period. The Supplementary Examination will not be the same as the original exam sat in the formal exam period. The Supplementary Examination may be given in the form of a *viva voce* (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.

Assignment submission

Assignments should be submitted through Turnitin, by midnight on the due date.

Extensions and penalties

Extensions to assignments is at the discretion of the unit convenor. It is the responsibility of the student to prove to the convenor that there has been unavoidable disruption. Marks will be deducted for late submissions in the absence of an approved extension.

Grades

Achievement of grades will be based on the following criteria:

Grade	
High Distinction SNG (85-100)	A minimum of 50% achievement in each assessment task, PLUS a minimum 90% total raw mark
Distinction SNG (75-84)	A minimum of 50% achievement in each assessment task, PLUS a minimum 80% total raw mark
Credit SNG (65-74)	A minimum of 50% achievement in the examination, PLUS a minimum 70% total raw mark
Pass SNG (50-64)	A minimum of 50% achievement in the examination, PLUS a minimum 60% total raw mark
Fail SNG (< 50)	Less than 50% achievement in the examination, OR less than 60% 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.

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.

Assessment Tasks

Name	Weighting	Due
On-line quizzes	20%	Ongoing
Essay	20%	11/09/2015
Final Examination	50%	University Examination Period
Assignment	10%	30/10/2015

On-line quizzes

Due: **Ongoing**

Weighting: **20%**

There are 10 online quizzes worth 2% each. Details will be found on iLearn.

On successful completion you will be able to:

- Name the pathologies that can occur in the nervous, musculoskeletal and integumentary systems, as well as those of the eye and ear.

- For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the multifactorial nature of the development of disease states
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.

Essay

Due: **11/09/2015**

Weighting: **20%**

You will be required to submit an essay of 1500 words.

The topic for this paper is:

"Describe how the pathological changes in Rheumatoid Arthritis relate to the clinical manifestations of the disorder".

On successful completion you will be able to:

- For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.
- Explain the multifactorial nature of the development of disease states
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.

Final Examination

Due: **University Examination Period**

Weighting: **50%**

This will cover the content of the entire semester. Questions may include both multiple choice and short answer questions. See iLearn for more details.

On successful completion you will be able to:

- Name the pathologies that can occur in the nervous, musculoskeletal and integumentary systems, as well as those of the eye and ear.
- For each disorder, describe its aetiology, epidemiology, pathogenesis,

pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.

- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the multifactorial nature of the development of disease states
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.

Assignment

Due: **30/10/2015**

Weighting: **10%**

“Explain why chiropractors need to have a sound knowledge and understanding of skin disorders.” (Max 1000 words)

On successful completion you will be able to:

- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.
- Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

Delivery and Resources

Delivery mode

It will comprise:

1. 2 X 1 hour lectures per week, weeks 1-13
2. 1 x 1.5 hour tutorial per week, weeks 2-13
3. 6 hours per week self instructional learning, set readings from the text and exercises on lecture topics

Class times and locations

Lectures:

Thursdays 9am-10am & Fridays 12pm-1pm both in W5A-T1

Tutorial:

Thursday 10am-11:30am (Tutorial 5). Room E5A-350 (Chiro Rad Lab). Tutor - Joshua Fitzgerald

Required and recommended resources

Core

1. Unit workbook for CHIR605

2. J Craft et al. (2011) Understanding Pathophysiology, Mosby OR

K L McCance & S E Heuther. (2010) Pathophysiology. The Biological Basis for Disease in Adults and Children. Mosby

Highly recommended

A medical dictionary (This will be useful for all health science units)

Unit web page

The URL of the CHIR605 iLearn site is: <http://ilearn.mq.edu.au/>

You will be asked for a username and password. Your username is your student MQID. Your MQID and password have been mailed to you by the University. If you have lost them go to the student portal: <http://students.mq.edu.au/home/>

Recommended web sites and other reading

See ilearn

Unit Schedule

Week	Date (week starting)	Topic
1	July 27	Lecture 1A Introduction to course, Bone and cartilage pathologies 1 Lecture 1B Bone and cartilage pathologies 2
2	August 3	Tutorial 1 Musculoskeletal disorders 1 Lecture 2A Bone and cartilage pathologies 3 Lecture 2B Arthritides 1
3	August 10	Tutorial 2 Musculoskeletal disorders 2 Lecture 3A Arthritides 2 Lecture 3B Arthritides 3
4	August 17	Tutorial 3 Musculoskeletal disorders 3 Lecture 4A Connective tissue disorders Lecture 4B Muscle, tendon, bursae and ligamentous pathologies 1

5	August 24	Tutorial 4 Musculoskeletal disorders 4 Lecture 5A Muscle, tendon, bursae and ligamentous pathologies 2 Lecture 5B Dorsopathies
6	August 31	Tutorial 5 Musculoskeletal disorders 5 Lecture 6A Disorders of the Eye Lecture 6B Disorders of the Ear
7	September 7	Tutorial 6 Disorders of the Eye and Ear Lecture 7A Disorders of the Integumentary System Lecture 7B Disorders of the Integumentary System
RECESS		
8	September 28	Tutorial 7 Disorders of the Integumentary System Lecture 8A Nervous System Pathology 1 - A quick review of neuroanatomy, symptoms and signs, overview of neuropathology, alterations in cerebral haemodynamics Lecture 8B Nervous System Pathology 2 - Neurodegeneration
9	October 5	Tutorial 8 Nervous System Pathology 1 Lecture 9A Nervous System Pathology 3 – Infection and inflammation Lecture 9B Nervous System Pathology 4 – Neoplasia, Demyelination
10	October 12	Tutorial 9 Nervous System Pathology 2 Lecture 10A Nervous System Pathology 5 – Vascular disturbances Lecture 10B Nervous System Pathology 6 – Trauma
11	October 19	Tutorial 10 Nervous System Pathology 3 Lecture 11A Nervous System Pathology 7 – CNS malformations, Toxic/metabolic influences Lecture 11B Nervous System Pathology 8 - Seizures, Altered levels of consciousness

12	October 26	Tutorial 11 Nervous System Pathology 4. Lecture 12A Mental health disorders 1 Lecture 12B Mental health disorders 2
13	November 2	Tutorial 12 Revision Lecture 13A Mental health disorders 3 Lecture 13B Revision

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 outcome

- Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

Assessment task

- Assignment

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

- Name the pathologies that can occur in the nervous, musculoskeletal and integumentary systems, as well as those of the eye and ear.
- For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the multifactorial nature of the development of disease states
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.
- Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

Assessment tasks

- On-line quizzes
- Essay
- Final Examination
- Assignment

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

- For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the multifactorial nature of the development of disease states
- Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

Assessment tasks

- On-line quizzes
- Essay
- Final Examination
- Assignment

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

- For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the multifactorial nature of the development of disease states
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.
- Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

Assessment tasks

- On-line quizzes
- Essay
- Final Examination
- Assignment

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

- For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the multifactorial nature of the development of disease states
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.
- Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

Assessment tasks

- Essay
- Final Examination
- Assignment

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

- Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

Assessment task

- Assignment

Changes from Previous Offering

This is the first offering of CHIR605