CHIR8511
Clinical Neurology
Session 1, Weekday attendance, North Ryde 2021
Department of Chiropractic

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Notice
As part of Phase 3 of our return to campus plan, most units will now run tutorials, seminars and other small group activities on campus, and most will keep an online version available to those students unable to return or those who choose to continue their studies online.

To check the availability of face-to-face activities for your unit, please go to timetable viewer. To check detailed information on unit assessments visit your unit’s iLearn space or consult your unit convenor.

https://unitguides.mq.edu.au/unit_offerings/138187/unit_guide/print 1
General Information

Unit convenor and teaching staff
convenor
Stephney Whillier
stephney.whillier@mq.edu.au
Contact via 9850 9387
17WW 356
by appointment

Credit points
10

Prerequisites
Admission to MChiroprac and (CHIR3106 or CHIR316) or (CHIR6110 or CHIR602) and
(CHIR6111 or CHIR603) and (CHIR6302 or CHIR604) and (CHIR6303 or CHIR605) and
(CHIR6410 or CHIR606) and (CHIR6510 or CHIR608)

Corequisites

Co-badged status

Unit description
This unit covers a wide spectrum of clinically relevant neurological conditions for chiropractic
students. Students will develop competency in neurological examination and in formulating a
differential diagnosis based on the patient's clinical presentation. The knowledge and
understanding constructed in this way also enables students to discuss and analyse pertinent
case studies with the necessary depth required. The knowledge and skills acquired during this
unit are fundamental for diagnostic competence in chiropractic practice. A variety of teaching
methods are employed, from lectures based on current evidence that are also made available
online, to tutorials that are underpinned by a social constructivist approach to building
knowledge, using the discussion of case studies to develop diagnostic skill.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are
available at https://students.mq.edu.au/important-dates

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

ULO1: Perform the clinical neuromusculoskeletal history taking and examination
competently

ULO2: Draw on acquired theoretical knowledge in order to tailor the physical examination to the clinical presentation of the patient, and from this develop a differential diagnosis and clinical management plan.

ULO3: Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are contraindicated for chiropractic care including conditions of non-musculoskeletal origin.

ULO4: Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings

ULO5: Develop a respect and empathy for patients, and an ethical and professional attitude to health care. In this regard, you should develop a commitment to remain informed and up-to-date in your profession

General Assessment Information

Assessment Tasks Description

1. **Weekly Quizzes**: Eleven (11) quizzes: 10 minute quizzes to be completed online in WEEKS 2 - 12 that will test lecture material of the previous week. See the schedule above for details on content that is covered by looking at the previous week’s lecture content. The format will be multiple choice questions or fill in the missing word/s. Each quiz will open on Monday at 8am and close on Sunday at 11pm of that week. The first quiz will be posted on Monday of week 2. There will be absolutely no opportunity to submit a quiz after the closing time as answers are released at that point. If you have technical difficulties, email your answers to your convenor and they will be manually marked. If you email these after the closing time, they will not be marked. The quizzes will have a time limit of 10 minutes, and there will be only one submission per student. The resultant mark will be an **AVERAGE of the 11 quiz marks (please note, NOT best x of 11)**.

2. **OSCE**: These will assess your competency in performing the neurological examination. Details will be given on iLearn and in the tutorials nearer to the date

3. **Final examination**: This will cover the content for the entire semester. It tests your knowledge of the theory, and the ability to connect that knowledge to real life situations (e.g., case studies, clinical presentations). It will consist of a 2 hour written exam with multiple choice questions, short answer questions and case studies.
**Unit guide** CHIR8511 Clinical Neurology

**Attendance Requirements**

You must attend and participate in at least 18 of the 21 weekly tutorial classes to pass this unit. **Student roll will be taken.**

You must attend the class in which you are enrolled. You must not exchange your class time without consultation with the convenor. In special circumstances, if you are unable to attend your assigned tutorial in any week, you may request attendance at the alternative session on that day, through written request to the unit convenor. This allowance may be used on a maximum of 2 occasions.

**Examinations**

The Semester 1 University Examination period is from: 7 - 25 June, 2021

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:

http://www.timetables.mq.edu.au/exam

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. The University’s Special Consideration Policy can be found at: https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration. Information can also be found at https://students.mq.edu.au/study/my-study-program/special-consideration

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 special consideration, the examination will be scheduled after the conclusion of the official examination period.

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) 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.

NOTE: Supplementary exams may be in a different format to the exam set in the normal examination period.

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.

Returning Assessment Tasks

1. Quizzes: automatic feedback is given when the quiz is closed
2. OSCEs: Students will receive feedback during the examination, and in the term I OSCE, further feedback will be given in the tutorial.
3. Examination: Papers will not be returned. Marks will be incorporated into the final unit grade.

Extensions and penalties

Extensions to assignments are at the discretion of the unit convenor. It is your responsibility 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.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final written examination</td>
<td>40%</td>
<td>No</td>
<td>end of semester exam period</td>
</tr>
<tr>
<td>OSCE I</td>
<td>20%</td>
<td>No</td>
<td>Wednesday, week 7</td>
</tr>
<tr>
<td>weekly quizzes</td>
<td>20%</td>
<td>No</td>
<td>weekly, weeks 2 - 12</td>
</tr>
<tr>
<td>OSCE II</td>
<td>20%</td>
<td>No</td>
<td>Wednesday, week 13</td>
</tr>
</tbody>
</table>
Final written examination

Assessment Type 1: Examination
Indicative Time on Task 2: 20 hours
Due: end of semester exam period
Weighting: 40%

The final exam tests your knowledge of the theory, and the ability to connect that knowledge to real life situations (e.g. case studies, clinical presentations). It will consist of a 2 hour written exam with multiple choice questions and case studies.

On successful completion you will be able to:

• Draw on acquired theoretical knowledge in order to tailor the physical examination to the clinical presentation of the patient, and from this develop a differential diagnosis and clinical management plan.
• Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are contraindicated for chiropractic care including conditions of non-musculoskeletal origin.
• Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings

OSCE I

Assessment Type 1: Clinical performance evaluation
Indicative Time on Task 2: 10 hours
Due: wednesday, week 7
Weighting: 20%

The OSCE will assess competency in performing the neurological examination.

On successful completion you will be able to:

• Perform the clinical neuromusculoskeletal history taking and examination competently
• Draw on acquired theoretical knowledge in order to tailor the physical examination to the clinical presentation of the patient, and from this develop a differential diagnosis and clinical management plan.
• Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are contraindicated for chiropractic care including conditions of non-musculoskeletal origin.
• Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings
• Develop a respect and empathy for patients, and an ethical and professional attitude to
health care. In this regard, you should develop a commitment to remain informed and up-to-date in your profession.

weekly quizzes
Assessment Type 1: Quiz/Test
Indicative Time on Task 2: 10 hours
Due: weekly, weeks 2 - 12
Weighting: 20%

students complete online weekly quizzes based on the previous week’s lectures and case studies

On successful completion you will be able to:
- Perform the clinical neuromusculoskeletal history taking and examination competently
- Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are contraindicated for chiropractic care including conditions of non-musculoskeletal origin.
- Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings

OSCE II
Assessment Type 1: Clinical performance evaluation
Indicative Time on Task 2: 10 hours
Due: Wednesday, week 13
Weighting: 20%

The OSCE will assess competency in performing the neurological examination and skill in differential diagnosis

On successful completion you will be able to:
- Perform the clinical neuromusculoskeletal history taking and examination competently
- Draw on acquired theoretical knowledge in order to tailor the physical examination to the clinical presentation of the patient, and from this develop a differential diagnosis and clinical management plan.
- Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are contraindicated for chiropractic care including conditions of non-musculoskeletal origin.
- Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings
- Develop a respect and empathy for patients, and an ethical and professional attitude to
health care. In this regard, you should develop a commitment to remain informed and up-to-date in your profession.

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 Learning Skills Unit 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

Delivery mode

This unit is characterised by a moderate degree of flexibility. It incorporates a variety of learning tools and media. It will comprise:

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lectures</strong></td>
<td>4 hours per week, weeks 1-12</td>
</tr>
<tr>
<td>Lecture 1:</td>
<td>2 x 2 hour lectures per week online</td>
</tr>
<tr>
<td>Lecture 2:</td>
<td>2 x 2 hour lectures per week online</td>
</tr>
<tr>
<td><strong>Tutorials</strong></td>
<td>4 hours per week, weeks 2-12</td>
</tr>
<tr>
<td>Tutorial 1:</td>
<td>2 x 2 hour tutorial class per week, weeks 2 – 12</td>
</tr>
<tr>
<td>Tutorial 2:</td>
<td>2 x 2 hour tutorial class per week, weeks 2 – 12</td>
</tr>
<tr>
<td>Note:</td>
<td>You must attend one of the Wednesday, and one of the Thursday tutorials per week. This means you attend a total of two tutorials a week.</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td>2.5 hours per week</td>
</tr>
<tr>
<td>Revision,</td>
<td></td>
</tr>
<tr>
<td>self-instructional learning, preparation for tutorials and readings from the manual/text</td>
<td></td>
</tr>
</tbody>
</table>

Please note that the venues are subject to change until just before the start of the semester. So, for further details on class time and locations for this unit follow the link below:

http://students.mq.edu.au/student_admin/timetables
Unit Web Page

You can log in to iLearn System via the link listed below:

https://ilearn.mq.edu.au/login/MQ/

All lecture materials will be posted on ilearn, and there is also a link to ECHO360 for audio recordings of the lectures.

Required and recommended resources

Required:

1. CHIR8511 – Clinical Neurology *Tutorial Course Manual 2021*– This has been uploaded to iLearn. Please be sure to either download, print and bind the manual, or have an iPad or laptop to access the manual during the tutorial.

Recommended:


Required Diagnostic Equipment (Neurological Diagnosis Kit):

1. A diagnostic set with otoscope and ophthalmoscope (Welsh Allen series 97200-BI recommended - ~$515)
2. A tailor’s measuring tape
3. A 128Hz or 256Hz (vibration) and also a 512Hz (auditory) tuning fork
4. Neurotips
5. Long stem cotton tips
6. Disposable tongue depressors
7. Tomahawk reflex hammer
8. A number of tactile items e.g., key, coin etc
9. A compass:
A note about textbooks:

Textbooks for this unit can be purchased online from Booktopia [https://www.booktopia.com.au/coop](https://www.booktopia.com.au/coop).

The list of Macquarie University S1 2020 units and texts can be found on the [Booktopia website](https://www.booktopia.com.au/coop).

### Unit Schedule

#### The Neurology Timetable:

Note that you must attend one of the Wednesday, and one of the Thursday tutorials.

<table>
<thead>
<tr>
<th>Week</th>
<th>Start Date of week</th>
<th>Monday Lecture (1-3pm)</th>
<th>Wednesday Tutorial (2 – 4pm or 4 - 6 pm)</th>
<th>Thursday Tutorial (9-11am or 11 – 1pm)</th>
<th>Friday Lecture (1-3pm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>22 Feb</td>
<td>L1: Clinical Decision Framework. Mental Status Examination</td>
<td>None</td>
<td>None</td>
<td>L2: Cognitive Impairment</td>
</tr>
<tr>
<td>2</td>
<td>1 Mar</td>
<td>L3: Psychiatric Disorders</td>
<td>Clinical Decision Framework History Taking and the neuroexamination</td>
<td>Mental Status Examination</td>
<td>L4: Headaches</td>
</tr>
<tr>
<td>3</td>
<td>8 Mar</td>
<td>L5: Eye Presentations</td>
<td>Cranial nerves</td>
<td>cranial nerves</td>
<td>L6: Eye Presentations Continued</td>
</tr>
<tr>
<td>4</td>
<td>15 Mar</td>
<td>L7: Hearing and Balance Presentations</td>
<td>cranial nerves</td>
<td>cranial nerves</td>
<td>L8: Hearing and Balance Presentations Continued</td>
</tr>
<tr>
<td>5</td>
<td>22 Mar</td>
<td>L9: Clinical History and Examination of Motor and Sensory Systems</td>
<td>Motor testing</td>
<td>motor testing and DTRs</td>
<td>L10: Cerebrovascular Disease: cerebral and spinal cord stroke</td>
</tr>
<tr>
<td>6</td>
<td>29 March (Friday holiday)</td>
<td>L11: Chronic Pain I</td>
<td>Sensory testing</td>
<td>Sensory Testing</td>
<td>L12: Chronic pain II</td>
</tr>
<tr>
<td>7</td>
<td>19 April</td>
<td>L13: Examination of the Peripheral Nerves</td>
<td>OSCE I</td>
<td>OSCE I Feedback Peripheral nerve testing</td>
<td>L14: Abnormal Movements, Gait and Co-ordination</td>
</tr>
</tbody>
</table>

Good Friday, 2 April – Sunday, 18 April: Mid-semester Break
### 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). 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.)*

Students seeking more policy resources can visit the 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 (http://...
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

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 help you improve your marks and take control of your study.

- Getting help with your assignment
- Workshops
- StudyWise
- 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 Enquiry Service

For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

Equity 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.

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.

Changes from Previous Offering

2021 is the first offering of CHIR8511. The material was previously split into CHIR8501 and CHIR8502, which were units that contained both clinical neurology and orthopaedics. Clinical neurology is now a standalone unit in semester 1, followed by CHIR8512 which is a standalone unit of orthopaedics.