CHIR6111
Chiropractic B
Session 2, In person-scheduled-weekday, North Ryde 2022

Department of Chiropractic

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General Information

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by appointment

Neuroanatomy Lecturer
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Credit points
20

Prerequisites
CHIR6110 or CHIR602

Corequisites

Co-badged status

Unit description
This unit develops the material covered in the preceding unit. It covers spinal manipulation
techniques for the cervical, thoracic and lumbo-pelvic regions and upper and lower limb
peripheral manipulation techniques. The unit covers a ‘core’ group of techniques and aims the
develop a student's proficiency in these techniques. The unit further develops the student's
knowledge of research methodology and neuroanatomy.

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: Perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.

ULO2: Control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

ULO3: Perform basic static and motion palpation on all spinal and peripheral joints in the body.

ULO4: Demonstrate an understanding of peripheral and spinal joint mechanics.

ULO5: Demonstrate a thorough knowledge of human neuroanatomy.

ULO6: Demonstrate a basic knowledge of the functional anatomy of the human body including: the biomechanical effects of an adjustment or mobilisation and the indications for their use; structural analysis as it relates to posture and dysfunction; and motion palpation as it relates to spinal and peripheral joints.

ULO7: Demonstrate an understanding of the basic tenants underpinning modern scientific research

General Assessment Information

General assessment Information

Grade descriptors and other information concerning grading are contained in the Macquarie University Assessment Policy.

All final grades are determined by a grading committee, in accordance with the Macquarie University Assessment Policy, and are not the sole responsibility of the Unit Convenor.

Students will be awarded a final grade and a mark which must correspond to the grade descriptors specified in the Assessment Procedure (clause 128).

To pass this unit, you must demonstrate sufficient evidence of achievement of the learning outcomes, meet any ungraded requirements, and achieve a final mark of 50 or better.

Further details for each assessment task will be available on iLearn.

Late Submissions

Unless a Special Consideration request has been submitted and approved, a 5% penalty (OF THE TOTAL POSSIBLE MARK) will be applied each day a written assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of ‘0’ will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical concern.
Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technique Spot test</td>
<td>10%</td>
<td>No</td>
<td>Week 7</td>
</tr>
<tr>
<td>Technique OSCE</td>
<td>20%</td>
<td>Yes</td>
<td>Week 13</td>
</tr>
<tr>
<td>Video technique assignments</td>
<td>10%</td>
<td>No</td>
<td>Weeks 4/7/10</td>
</tr>
<tr>
<td>Research Assignment</td>
<td>10%</td>
<td>No</td>
<td>Week 9</td>
</tr>
<tr>
<td>Neuroanatomy mid-session assessment</td>
<td>10%</td>
<td>No</td>
<td>Week 6</td>
</tr>
<tr>
<td>Neuroanatomy OSCE</td>
<td>20%</td>
<td>Yes</td>
<td>Week 12</td>
</tr>
<tr>
<td>End of semester examination</td>
<td>20%</td>
<td>No</td>
<td>Exam Period</td>
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Technique Spot test

Assessment Type 1: Clinical performance evaluation
Indicative Time on Task 2: 8 hours
Due: Week 7
Weighting: 10%

For example:

<table>
<thead>
<tr>
<th>Number of days (hours) late</th>
<th>Total Possible Marks</th>
<th>Deduction</th>
<th>Raw mark</th>
<th>Final mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 day (1-24 hours)</td>
<td>100</td>
<td>5</td>
<td>75</td>
<td>70</td>
</tr>
<tr>
<td>2 days (24-48 hours)</td>
<td>100</td>
<td>10</td>
<td>75</td>
<td>65</td>
</tr>
<tr>
<td>3 days (48-72 hours)</td>
<td>100</td>
<td>15</td>
<td>75</td>
<td>60</td>
</tr>
<tr>
<td>7 days (144-168 hours)</td>
<td>100</td>
<td>35</td>
<td>75</td>
<td>40</td>
</tr>
<tr>
<td>&gt;7 days (&gt;168 hours)</td>
<td>100</td>
<td>-</td>
<td>75</td>
<td>0</td>
</tr>
</tbody>
</table>

For any late submissions of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for Special Consideration.
On successful completion you will be able to:

- Perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- Control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- Perform basic static and motion palpation on all spinal and peripheral joints in the body.
- Demonstrate a basic knowledge of the functional anatomy of the human body including: the biomechanical effects of an adjustment or mobilisation and the indications for their use; structural analysis as it relates to posture and dysfunction; and motion palpation as it relates to spinal and peripheral joints.

**Technique OSCE**

Assessment Type 1: Clinical performance evaluation
Indicative Time on Task 2: 16 hours
Due: **Week 13**
Weighting: **20%**

This is a hurdle assessment task (see assessment policy for more information on hurdle assessment tasks)

Technique OSCE practical assessment

On successful completion you will be able to:

- Perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- Control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- Perform basic static and motion palpation on all spinal and peripheral joints in the body.
- Demonstrate a basic knowledge of the functional anatomy of the human body including: the biomechanical effects of an adjustment or mobilisation and the indications for their use; structural analysis as it relates to posture and dysfunction; and motion palpation as it relates to spinal and peripheral joints.
Video technique assignments

Assessment Type 1: Practice-based task
Indicative Time on Task 2: 8 hours
Due: Weeks 4/7/10
Weighting: 10%

Video performance of manipulation techniques

On successful completion you will be able to:

- Perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- Control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- Demonstrate a basic knowledge of the functional anatomy of the human body including: the biomechanical effects of an adjustment or mobilisation and the indications for their use; structural analysis as it relates to posture and dysfunction; and motion palpation as it relates to spinal and peripheral joints.

Research Assignment

Assessment Type 1: Presentation
Indicative Time on Task 2: 8 hours
Due: Week 9
Weighting: 10%

Presentation of research assignment

On successful completion you will be able to:

- Demonstrate an understanding of the basic tenants underpinning modern scientific research

Neuroanatomy mid-session assessment

Assessment Type 1: Quiz/Test
Indicative Time on Task 2: 6 hours
Due: **Week 6**  
Weighting: **10%**

Neuroanatomy mid-session test which assesses practical content

On successful completion you will be able to:  
- Demonstrate a thorough knowledge of human neuroanatomy.

**Neuroanatomy OSCE**

Assessment Type: Quiz/Test  
Indicative Time on Task: 16 hours  
Due: **Week 12**  
Weighting: **20%**  
**This is a hurdle assessment task (see assessment policy for more information on hurdle assessment tasks)**

Neuroanatomy Objective Structured Clinical Exam (OSCE)

On successful completion you will be able to:  
- Demonstrate a thorough knowledge of human neuroanatomy.

**End of semester examination**

Assessment Type: Examination  
Indicative Time on Task: 16 hours  
Due: **Exam Period**  
Weighting: **20%**

End of semester written examination

On successful completion you will be able to:  
- Demonstrate an understanding of peripheral and spinal joint mechanics.  
- Demonstrate a basic knowledge of the functional anatomy of the human body including:  
  - the biomechanical effects of an adjustment or mobilisation and the indications for their use;  
  - structural analysis as it relates to posture and dysfunction; and motion palpation as
it relates to spinal and peripheral joints.

- Demonstrate an understanding of the basic tenants underpinning modern scientific research

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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

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### Delivery and Resources

As a student enrolled in this unit, you will engage in a range of face to face learning activities, including Skills tutorials, anatomy labs, lectures, video recordings and readings. Details can be found on the iLearn site for this unit.

#### Technology Used:

Active participation in the learning activities throughout the unit will require students to have access to a tablet, laptop or similar device. Students who do not own their own laptop computer may borrow one from the university library.

#### Technique Content:

- Lectures (2 - 2h/week)
- Tutorials (3 - 2h/week)

#### Neuroanatomy content:

- 1 x 3h lecture (recordings are available via ECHO360)
- 1 x 2h practical laboratory class (in person in the anatomy laboratory; students required to wear enclosed shoes, lab coat and face mask; active participation is highly recommended as laboratory activities are directly aligned with LOs and assessment)


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### Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:
Students seeking more policy resources can visit Student 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) 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**
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.

Inclusion and Diversity

Social inclusion at Macquarie University is about giving everyone who has the potential to benefit from higher education the opportunity to study at university, participate in campus life and flourish in their chosen field. The University has made significant moves to promote an equitable, diverse and exciting campus community for the benefit of staff and students. It is your responsibility to contribute towards the development of an inclusive culture and practice in the areas of learning and teaching, research, and service orientation and delivery. As a member of the Macquarie University community, you must not discriminate against or harass others based on their sex, gender, race, marital status, carers' responsibilities, disability, sexual orientation, age, political conviction or religious belief. All staff and students are expected to display appropriate behaviour that is conducive to a healthy learning environment for everyone.
Professionalism

In the Faculty of Medicine, Health and Human Sciences, professionalism is a key capability embedded in all our courses.

As part of developing professionalism, students are expected to attend all small group interactive sessions including clinical, practical, laboratory, work-integrated learning (e.g., PACE placements), and team-based learning activities. Some learning activities are recorded (e.g., face-to-face lectures), however you are encouraged to avoid relying upon such material as they do not recreate the whole learning experience and technical issues can and do occur. As an adult learner, we respect your decision to choose how you engage with your learning, but we would remind you that the learning opportunities we create for you have been done so to enable your success, and that by not engaging you may impact your ability to successfully complete this unit. We equally expect that you show respect for the academic staff who have worked hard to develop meaningful activities and prioritise your learning by communicating with them in advance if you are unable to attend a small group interactive session.

Another dimension of professionalism is having respect for your peers. It is the right of every student to learn in an environment that is free of disruption and distraction. Please arrive to all learning activities on time, and if you are unavoidably detained, please join activity as quietly as possible to minimise disruption. Phones and other electronic devices that produce noise and other distractions must be turned off prior to entering class. Where your own device (e.g., laptop) is being used for class-related activities, you are asked to close down all other applications to avoid distraction to you and others. Please treat your fellow students with the utmost respect. If you are uncomfortable participating in any specific activity, please let the relevant academic know.