CHIR315
Chiropractic Science 5
S1 Day 2015
Dept of Chiropractic

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Disclaimer
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Credit points
3
Prerequisites
[Admission to BChiroSc and (CHIR213(P) or CHIR201(P)) and (CHIR214(P) or CHIR202(P))] or admission to PGQualChiro

Corequisites

Co-badged status

Unit description
This unit is an introduction to chiropractic spinal technique and extends palpation from the technique units at 100 and 200 level. It further develops psychomotor skill acquisition from previous units. Students gain proficiency in a core group of spinal and peripheral joint manipulative techniques. The hypotheses and scientific rationale relating to chiropractic intervention is explored. The major themes relating to evidence-based practice (EBP) are explored. Biomechanics of the spine and how this relates to clinical application is explored in detail.

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
1. The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
2. The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
3. The ability to perform basic static and motion palpation of spinal joints.
4. An understanding of spinal and peripheral joint mechanics.
5. A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
6. Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tutorial attendance</td>
<td>0%</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Video Assignments (2x)</td>
<td>0%</td>
<td>Rolling</td>
</tr>
<tr>
<td>Name</td>
<td>Weighting</td>
<td>Due</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-----------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>iLearn quizzes (2x)</td>
<td>5%</td>
<td>Weeks 6 &amp; 11.</td>
</tr>
<tr>
<td>Assignment</td>
<td>15%</td>
<td>Week 6</td>
</tr>
<tr>
<td>FoCA (2x10%)</td>
<td>20%</td>
<td>Weeks 6 &amp; 11.</td>
</tr>
<tr>
<td>OSCE</td>
<td>30%</td>
<td>Week 13.</td>
</tr>
<tr>
<td>End of semester written exam</td>
<td>30%</td>
<td>University Examination Period</td>
</tr>
</tbody>
</table>

**Tutorial attendance**

Due: **Ongoing**  
Weighting: **0%**

This Assessment Task relates to the following Learning Outcomes:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation of spinal joints.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
- Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

**Video Assignments (2x)**

Due: **Rolling**  
Weighting: **0%**

A Technique Video Assignment is a task that aims to help you develop the challenging skill of ‘putting it all together’. You will need to address the clinical presentation of a fellow student. You need to take a case history, conduct a physical examination, develop a treatment plan, deliver the first adjustment of that treatment plan, conduct a post treatment examination and appropriately record all aspects of this clinical interaction.

You will work independently up to the point of performing the adjustment. At that point you shall consult a tutor about the case you have worked up. Your tutor will discuss the clinical presentation with you and provide feedback on your clinical interaction, reasoning and records.
up to that point. Your tutor will then either agree with your proposed adjustment or propose an alternate approach. You will then video record the performance of the adjustment in a supervised environment (in class or in supervised practice). You will then submit the video and associated paperwork through the iLearn system. A tutor will then grade the performance offer feedback. You will then be able to watch your performance again in light of this feedback to help your technique development.

The Technique Video Assignments are a crucial part of your development as a Chiropractor. We have weighted these tasks at 0% to encourage you to seek feedback on your performance of the techniques and procedures that you find more challenging.

This Assessment Task relates to the following Learning Outcomes:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation of spinal joints.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.

iLearn quizzes (2x)

Due: **Weeks 6 & 11.**

Weighting: 5%

Online Quiz covering material from the week it is released and the previous 5 weeks. There will be some overlap of weeks.

The quiz will be available online Wednesday evening at 6pm and will stay open for 24 hours closing 6pm Thursday evening.

This Assessment Task relates to the following Learning Outcomes:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
• Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

Assignment
Due: **Week 6**
Weighting: **15%**

An assignment that allows you to demonstrate your understanding of biomechanics as it relates to chiropractic manipulative therapy.

This Assessment Task relates to the following Learning Outcomes:
• An understanding of spinal and peripheral joint mechanics.
• A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
• Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

FoCA (2x10%)
Due: **Weeks 6 & 11.**
Weighting: **20%**

Ongoing assessment (2x10%)

This Assessment Task relates to the following Learning Outcomes:
• The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
• The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
• The ability to perform basic static and motion palpation of spinal joints.
• An understanding of spinal and peripheral joint mechanics.
• A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.

OSCE
Due: **Week 13.**
Weighting: **30%**

This Assessment Task relates to the following Learning Outcomes:
• The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
• The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
• The ability to perform basic static and motion palpation of spinal joints.
• An understanding of spinal and peripheral joint mechanics.
• A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.

End of semester written exam
Due: University Examination Period
Weighting: 30%

This Assessment Task relates to the following Learning Outcomes:
• An understanding of spinal and peripheral joint mechanics.
• A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
• Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

Delivery and Resources

Classes
• The timetable for classes can be found on the University web site at:
  http://www.timetables.mq.edu.au/
• Tutorials begin on Wednesday of week 2.
• Tutorial attendance/participation is required and will be factored in to the final grade

Required and Recommended Texts and/or Materials

TEXT

• Esposito & Philipson, Manual of Spinal Technique - Printed adjustment compilation available via the Department
• Manual of Peripheral Technique, Department of Chiropractic, Macquarie University - online adjustment compilation available via iLearn download
• RECOMMENDED READING
  • Bergmann & Peterson: Chiropractic technique, principles and procedures 3rd Ed. 2011, Mosby
  • Specific week-week resources available as links via iLearn

Teaching and Learning Strategy / technology required
  • This unit is comprised of lectures and technique tutorials. There will also be some self-directed learning within the course.
  • The assignment contributes 15% of the overall mark.
  • The unit is an internal offering.
  • Students are expected to attend lectures and tutorials (tutorial minimum attendance 85%)
  • iLearn is not a substitute for lecture attendance. Complex concepts are discussed as a group within the lecture format.
  • The assignment will be submitted via Turnitin
  • The online quizzes will be accessed via iLearn

What has changed?
Since 2013 there has been an increase in the degree of clinically based reasoning in this unit.

Unit Schedule
Refer to CHIR315 iLearn 2015 for unit schedule

Learning and Teaching Activities

Lecture
Lecture/class discussion

Tutorial
Demonstration/tutorial

FoCA
Feedback on Chiropractic Assessment
iLearn Quiz
online quiz

Assignment
Assignment

Theory assessment
End of semester exam

OSCE
End of semester practical

Video Assignment
Video Assignment

**Policies and Procedures**

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


*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](http://mq.edu.au/policy/docs/) 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](https://estudent.mq.edu.au). For more information visit [ask.mq.edu.au](http://ask.mq.edu.au).
Passing the unit
To pass CHIR315, students need to pass the practical component of the unit AS WELL AS achieve an overall passing grade. The passing grade is 50%. Tutorial attendance needs to be ≥85% in addition to the condition above.

TWO video assignments must be completed to satisfy unit requirements. These are formative assessments.

You are required to read and understand the marking criteria found at the link below:

CHIR315/CHIR316 OSCE marking standards

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 Enquiry Service
For all student enquiries, visit Student Connect at ask.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://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
Discipline Specific Knowledge and Skills
Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where
relevant, professional technical competence and meet professional standards. They will be able
to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific
knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary
solutions to problems.

This graduate capability is supported by:

**Learning outcomes**

- The ability to perform spinal adjustments and/or mobilisations with the appropriate
  psychomotor skills.
- The ability to control adjustment/mobilisation procedures with regard to patient position,
  practitioner position, primary contact, secondary contact, lock-up/set-up, speed,
  amplitude and line of drive.
- The ability to perform basic static and motion palpation of spinal joints.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures
taught in this unit.

**Assessment tasks**

- Tutorial attendance
- Video Assignments (2x)
- iLearn quizzes (2x)
- Assignment
- FoCA (2x10%)
- OSCE
- End of semester written exam

**Learning and teaching activities**

- Lecture/class discussion
- Demonstration/tutorial
- Feedback on Chiropractic Assessment
- online quiz
- End of semester exam
- End of semester practical
- Video Assignment

**Problem Solving and Research Capability**

Our graduates should be capable of researching; of analysing, and interpreting and assessing
data and information in various forms; of drawing connections across fields of knowledge; and
they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

**Learning outcomes**

- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
- Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

**Assessment task**

- End of semester written exam

**Learning and teaching activity**

- Lecture/class discussion
- Demonstration/tutorial
- End of semester exam

**Creative and Innovative**

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

**Learning outcomes**

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

**Assessment tasks**

- Tutorial attendance
- Video Assignments (2x)
- End of semester written exam
Learning and teaching activities

• Lecture/class discussion
• Demonstration/tutorial
• Assignment

Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

Learning outcomes

• The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
• The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
• The ability to perform basic static and motion palpation of spinal joints.

Assessment tasks

• Tutorial attendance
• Video Assignments (2x)
• FoCA (2x10%)  
• OSCE

Learning and teaching activities

• Lecture/class discussion
• Demonstration/tutorial
• Feedback on Chiropractic Assessment
• End of semester practical
• Video Assignment

Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should
have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

**Learning outcome**
- Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

**Assessment task**
- Tutorial attendance

**Learning and teaching activity**
- Lecture/class discussion

**Capable of Professional and Personal Judgement and Initiative**
We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

**Learning outcomes**
- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation of spinal joints.

**Assessment tasks**
- Tutorial attendance
- Video Assignments (2x)
- FoCA (2x10%)
- OSCE

**Learning and teaching activities**
- Demonstration/tutorial
- End of semester practical
- Video Assignment
Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

**Learning outcome**

- Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

**Assessment tasks**

- Tutorial attendance
- Video Assignments (2x)
- iLearn quizzes (2x)
- End of semester written exam

**Learning and teaching activities**

- Lecture/class discussion
- online quiz
- Assignment
- End of semester exam

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

**Learning outcomes**

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation of spinal joints.
• An understanding of spinal and peripheral joint mechanics.
• A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
• Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

Assessment tasks
• Tutorial attendance
• Video Assignments (2x)
• iLearn quizzes (2x)
• End of semester written exam

Learning and teaching activities
• Lecture/class discussion
• Demonstration/tutorial
• Assignment
• End of semester exam
• End of semester practical

Socially and Environmentally Active and Responsible
We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

Learning outcomes
• A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
• Research skills at the level of closed inquiry within structured guidelines as part of a research skills development (RSD) progression.

Assessment task
• Tutorial attendance

Learning and teaching activity
• Lecture/class discussion
• Demonstration/tutorial
Changes from Previous Offering
In 2015, video assignments have been introduced (formative assessment only).