



CHIR603

Chiropractic B

S2 Day 2015

Dept of Chiropractic

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General Information

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Credit points

8

Prerequisites

CHIR602

Corequisites

Co-badged status

Unit description

This unit develops the material covered in CHIR602. It covers spinal manipulation techniques for the cervical, thoracic and lumbo-pelvic regions. The unit covers a 'core' group of techniques and aims at proficiency of this core. The unit further develops the student's knowledge of research methodology.

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:

The ability 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.

The ability to control these 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 on all spinal and peripheral joints in the body.

An understanding of peripheral and spinal joint mechanics.

A thorough knowledge of human neuro-anatomy.

A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

An understanding of the basic tenants underpinning modern scientific research.

General Assessment Information

GRADES

HD	High Distinction	Denotes work of outstanding quality
D	Distinction	Denotes work of superior quality
Cr	Credit	Denotes work of predominantly good quality
P	Pass	Denotes work of satisfactory quality
F	Fail	Denotes a candidate has failed to complete the unit satisfactorily

Achievement of grades will be based on the following criteria:

Grade	
Pass (P)	A minimum mark of 50% in the neuroscience and technique practical components PLUS a minimum total raw mark of 50%
Credit (Cr)	A minimum mark of 50% in the neuroscience and technique practical components PLUS a minimum total raw mark of 65%
Distinction (D)	A minimum mark of 50% in the neuroscience and technique practical components PLUS a minimum total raw mark of 75%
High Distinction (HD)	A minimum mark of 50% in the neuroscience and technique practical components PLUS a minimum total raw mark of 85%

- Attendance is expected at lectures and tutorials. 85% attendance is the expected requirement for tutorials. Attendance will be recorded and will be taken into consideration when compiling a student's final grade for the unit.
- **In order to pass the unit a student must achieve a raw mark of at least 50% of the available mark for Parts A and B of the unit *i.e.* Neuroscience AND Technique Practical as well as a total raw mark of 50% overall (Neuroscience + Technique Theoretical + Technique Practical). A student who achieves a raw mark of at least 50% in Parts B and C AND a total raw mark of at least 50% overall, but fails to achieve a raw mark of at least 50% in Part A, will be eligible for a supplementary**

exam in Part A. If the student achieves a mark of more than 50% in this supplementary exam the student will have satisfied the requirements to pass the unit and be awarded a Pass grade. If the student does not achieve a mark of more than 50% in the Part A supplementary exam the student will be considered not to have met the requirements to pass the unit and be awarded a Fail grade.

Assessment Tasks

Name	Weighting	Due
<u>Neuroscience online Quiz</u>	5%	weeks 1-12
<u>Neuroscience Spot Test</u>	5%	week 7
<u>Neuroscience OSCE</u>	10%	week 13
<u>Technique Spot Test</u>	10%	week 6
<u>Technique OSCE</u>	20%	week 13
<u>Technique video assignments</u>	10%	weeks 3, 6, 11
<u>Written assignment</u>	10%	week 9
<u>In-class adjustments (ICAs)</u>	0%	weeks 3, 6, 11
<u>Written examination</u>	30%	examination period

Neuroscience online Quiz

Due: **weeks 1-12**

Weighting: **5%**

Online quizzes

On successful completion you will be able to:

- A thorough knowledge of human neuro-anatomy.

Neuroscience Spot Test

Due: **week 7**

Weighting: **5%**

Neuroscience mid-semester Spot test

On successful completion you will be able to:

- A thorough knowledge of human neuro-anatomy.

Neuroscience OSCE

Due: **week 13**

Weighting: **10%**

Neuroscience practical exam

On successful completion you will be able to:

- A thorough knowledge of human neuro-anatomy.

Technique Spot Test

Due: **week 6**

Weighting: **10%**

Technique practical exam

On successful completion you will be able to:

- The ability 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.
- The ability to control these 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 on all spinal and peripheral joints in the body.

Technique OSCE

Due: **week 13**

Weighting: **20%**

Technique OSCE

On successful completion you will be able to:

- The ability 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.
- The ability to control these 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 on all spinal and peripheral joints in the body.

Technique video assignments

Due: **weeks 3, 6, 11**

Weighting: **10%**

Three video technique assignments

On successful completion you will be able to:

- The ability 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/palpation skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Written assignment

Due: **week 9**

Weighting: **10%**

Written assignment on research methods.

On successful completion you will be able to:

- An understanding of the basic tenants underpinning modern scientific research.

In-class adjustments (ICAs)

Due: **weeks 3, 6, 11**

Weighting: **0%**

In-class adjustments (compulsory)

On successful completion you will be able to:

- The ability 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/palpation skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these 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 on all spinal and peripheral joints in the body.

Written examination

Due: **examination period**

Weighting: **30%**

End of semester written examination

On successful completion you will be able to:

- An understanding of peripheral and spinal joint mechanics.
- A thorough knowledge of human neuro-anatomy.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Delivery and Resources

- Number and length of classes per week:
 - 3 x 2 hour lectures
 - 4 x 2 hour tutorials
- The timetable for classes can be found on the University web site at:

<http://www.timetables.mq.edu.au/>

- **ALL TUTORIALS COMMENCE IN WEEK ONE.**

- **Tutorial attendance/participation is required and will be factored into the final grade.**

Required and Recommended texts and/or materials

TEXT

- Oatis CA. The mechanics and Pathomechanics of Human Movement. 2nd ed. Lippincott Williams & Wilkins. 2009.
- Esposito S, Philipson S. Spinal Adjustment Technique: The Chiropractic Art. Self Published. St. Ives, Australia. 2005.

Unit web page

The web page for this unit can be found at <http://ilearn.mq.edu.au/my>

Follow the links to CHIR 311. This includes links to Echo (formerly known as iLecture) at http://ilearn.mq.edu.au/blocks/echo360_echocenter/echocenter_frame.php?id=6154

iLearn access to HLTH 214 is also provided to all students enrolled in CHIR 311.

All essential information that is required for this unit including lecture and tutorial notes will be posted on the iLearn web page.

Unit Schedule

CHIR 603 Syllabus – 2015				
Week	Day	Topic	Lecturer	Tutorial
1	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	Intro/Biomechanics 1	Engel/Burrell	N/A

	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	Technique
2	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	Diagnostic Statement	Gustavo Machado	E6A 131
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Agius	Technique
3	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	RCT & Cross-over design studies	Gustavo Machado	E7B T5 (joint lecture)
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	Technique
4	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	Observational and case control studies	Paula Beckenkamp	E7B T5 (joint lecture)
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Agius	Technique
5	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	Technique	Agius	E6A 131
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	Technique
6	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	Risk of Bias & Systematic Reviews	Bruno Saragiotto	E7B T5 (joint lecture)

	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	TECHNIQUE SPOT TEST
7	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	Degeneration Part 1	Downie	E7B T5 (joint lecture)
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		NEURO SPOT TEST Technique
	Friday	CONCEPTION DAY	NO LECTURE	NO TUTORIAL
XXX	RECESS	XXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX
8	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	Meta analysis & Qualitative studies	Bruno Saragiotto	E7B T5 (joint lecture)
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	Technique
9	XXXXXX	PUBLIC HOLIDAY	XXXXXXXXXXXXXXXXXX	NO LECTURE
	Wednesday	Chain based mechanisms & core stability	Burrell	E7B T5 (joint lecture)
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Agius	Technique
10	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	Technique	Agius	E6A 131
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	Technique
11	Monday	Neuroanatomy	Whillier	Technique

	Wednesday	Evidenced based practice – Diagnostic test accuracy	Downie / Paula Beckenkamp	E7B T5 (joint lecture)
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Agius	Technique
12	Monday	Neuroanatomy	Whillier	Technique
	Wednesday	Technique	Agius	E6A 131
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	Technique
13	Monday	NO LECTURE		NO TUTORIAL
	Wednesday	NO LECTURE		NO TUTORIAL
	Wednesday	NO LECTURE		NEURO OSCE
	Friday	NO LECTURE		TECHNIQUE OSCE

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

- The ability to perform basic static and motion palpation on all spinal and peripheral joints in the body.

Assessment tasks

- Technique Spot Test
- Technique OSCE
- Technqie video assignments
- In-class adjustments (ICAs)

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

- The ability 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.
- The ability to control these 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 on all spinal and peripheral joints in the body.
- An understanding of peripheral and spinal joint mechanics.
- A thorough knowledge of human neuro-anatomy.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Assessment tasks

- Neuroscience online Quiz
- Neuroscience Spot Test
- Neuroscience OSCE
- Technique Spot Test
- Technique OSCE
- Technqie video assignments
- In-class adjustments (ICAs)
- Wriiten examination

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

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

Assessment task

- Wriiten examination

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 outcome

- An understanding of the basic tenants underpinning modern scientific research.

Assessment tasks

- Written assignment
- Written examination

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

- The ability to control these 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 on all spinal and peripheral joints in the body.

Assessment tasks

- Technique Spot Test
- Technique OSCE
- Technique video assignments
- In-class adjustments (ICAs)

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:

Assessment task

- Technique video assignments