CHIR904

Clinical Chiropractic 4

S2 Day 2014

Chiropractic

Contents

General Information

Unit convenor and teaching staff
Unit Convenor
Roger Engel
roger.engel@mq.edu.au
Contact via roger.engel@mq.edu.au

Contract Lecturer & Tutor
Stephen Esposito
stephen.esposito@mq.edu.au
Contact via Email
N/A
By appointment

Contract Lecturer & Tutor
Andrew Stevenson
andrew.stevenson@mq.edu.au
Contact via Email
N/A
By appointment

Contract Lecturer
Mario Pribicevic
mario.pribicevic@mq.edu.au
Contact via Email
N/A
By appointment

Tutor
Angelo Angelopoulos
angelo.angelopoulos@mq.edu.au
Contact via Email
N/A
By appointment

Tutor
Dean Rhodes
dean.rhodes@mq.edu.au
Contact via Email
N/A
By appointment

Tutor
Sukmun Cumberworth
sukmun.cumberworth@mq.edu.au

Contact via Email
N/A
By appointment

Tutor
Jonathan Gill
jonathan.gill@mq.edu.au
Contact via Email
N/A
By appointment

Tutor
Daniel Walters
daniel.walters@mq.edu.au
Contact via Email
N/A
By appointment

Tutor
Katherine Bull
katherine.bull@mq.edu.au
Contact via Email
N/A
By appointment

Tutor
Stuart Knox
stuart.knox@mq.edu.au
Contact via Email
N/A
By appointment

Tutor
Mei Wong
mei.wong@mq.edu.au
Contact via Email
N/A
By appointment

Tutor
Christopher Jolliffe
christopher.jolliffe@mq.edu.au
Contact via Email
N/A

By appointment

Tutor
Christopher Burrell
christopher.burrell@mq.edu.au
Contact via Email
N/A
By appointment

Tutor
Rosemary Giuriato
rosemary.giuriato@mq.edu.au
Contact via Email
C5C (west) Room 345
By appointment

Tutor
Aron Downie
aron.downie@mq.edu.au
Contact via Email
C5C 9west) Room 356
By appointment

Tutor
Hazel Jenkins
hazel.jenkins@mq.edu.au
Contact via Email
C5C (west) Room 347
By appointment

Credit points
4

Prerequisites
CHIR903

Corequisites

Co-badged status

Unit description
This unit further develops both Gonstead and Diversified manual techniques and introduces the student to a broader range of techniques commonly used in the management of patients who attend a chiropractic clinic. The unit emphasises evidence-based practice. The unit facilitates the student's competency in the assessment and management of a wide range of sports injuries in the chiropractic setting in Australia. Students will use a multidisciplinary team-based approach to achieve this goal.

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 spinal adjustments and/or mobilisations with the appropriate psychomotor skills associated with 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 joints in the body.
An understanding of spinal joint mechanics.
A thorough knowledge of the clinical anatomy of all joints of the body and the biomechanics of these joints including: a)A thorough 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 orthopaedic testing, motion palpation and static palpation findings, indications and contraindication testing for each technique and methods of modification to suit special circumstances.
The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

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 raw mark of 50% of the practical component PLUS clinical competency in manipulation across all three spinal regions (cervical, thoracic & lumbar/SI) PLUS a minimum total raw mark of 50%**
Credit (Cr)	**A minimum raw mark of 50% of the practical component PLUS clinical competency in manipulation across all three spinal regions (cervical, thoracic & lumbar/SI) PLUS a minimum total raw mark of 65%**
Distinction (D)	**A minimum raw mark of 50% of the practical component PLUS clinical competency in manipulation across all three spinal regions (cervical, thoracic & lumbar/SI) PLUS a minimum total raw mark of 75%**
High Distinction (HD)	**A minimum raw mark of 50% of the practical component PLUS clinical competency in manipulation across all three spinal regions (cervical, thoracic & lumbar/SI) PLUS a minimum total raw mark of 85%**

ASSESSMENT FEEDBACK

Feedback for each assessment task will be provided as soon as is practically possible after the assessment task is performed or submitted. For the OSCEs, in-class test and video assignments (TA 1, 2, 3, 4 & 5), feedback will be given as soon as possible after each assessment.

IMPORTANT NOTES

- 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.

To pass the unit the student must achieve clinical competency in manipulation across all three spinal regions

Achieving clinical competency

- Clinical competency across a spinal region means a minimum aggregate mark of 50% for the Gonstead and Diversified OSCEs for that spinal region i.e. cervical, thoracic and lumbar/SI.
- To pass the unit a student must achieve clinical competency in manipulation across all three spinal regions. The student may be offered a supplementary practical assessment if they have achieved clinical competency in manipulation in two out of three spinal regions. Supplementary practical assessments will be held in week 13. If a student satisfies the minimum practical and total mark requirements to pass the unit but fails to achieve clinical competency in manipulation across more than one spinal region then the student will be considered not to have satisfied the minimum requirements to pass the unit and a Fail (F) grade will be awarded.

Assessment Tasks

Name	Weighting	Due
Diversifed OSCE	15%	week 10
Gonstead OSCE	25%	week 11
Gonstead in-class test	5%	week 7
Technique video assignments	20%	weeks 3, 5, 7, 8, 9
End of semester written exam	35%	University examination period

Diversifed OSCE

Due: **week 10**
Weighting: **15%**

Diversified OSCE practical exam

On successful completion you will be able to:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills associated with 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 joints in the body.
- An understanding of spinal joint mechanics.
- A thorough knowledge of the clinical anatomy of all joints of the body and the biomechanics of these joints including: a)A thorough 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 orthopaedic testing, motion palpation and static palpation findings, indications and contraindication testing for each technique and methods of modification to suit special circumstances.
- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Gonstead OSCE

Due: **week 11**
Weighting: **25%**

Gonstead OSCE practical exam

On successful completion you will be able to:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills associated with 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 joints in the body.
- An understanding of spinal joint mechanics.
- A thorough knowledge of the clinical anatomy of all joints of the body and the biomechanics of these joints including: a)A thorough 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 orthopaedic testing, motion palpation and static palpation findings, indications and contraindication testing for each technique and methods of modification

to suit special circumstances.
- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Gonstead in-class test

Due: **week 7**
Weighting: **5%**

Gonstead in-class practical test

On successful completion you will be able to:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills associated with 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 joints in the body.
- An understanding of spinal joint mechanics.
- A thorough knowledge of the clinical anatomy of all joints of the body and the biomechanics of these joints including: a)A thorough 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 orthopaedic testing, motion palpation and static palpation findings, indications and contraindication testing for each technique and methods of modification to suit special circumstances.
- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Technique video assignments

Due: **weeks 3, 5, 7, 8, 9**
Weighting: **20%**

The Technique video assignments are designed as a self-directional learning tool. They involve a student being videoed while performing one or more spinal manipulative techniques. Written feedback on the student's performance is combined with the student's appraisal of their own

performance. There are five video assignments: 3 x Gonstead and 2 x Diversifed.

On successful completion you will be able to:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills associated with 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.
- An understanding of spinal joint mechanics.
- A thorough knowledge of the clinical anatomy of all joints of the body and the biomechanics of these joints including: a)A thorough 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 orthopaedic testing, motion palpation and static palpation findings, indications and contraindication testing for each technique and methods of modification to suit special circumstances.
- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

End of semester written exam

Due: **University examination period**
Weighting: **35%**

The end of semester written examination covers material from all sections of the unit including Technique and Sports Medicine.

On successful completion you will be able to:

- An understanding of spinal joint mechanics.
- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Delivery and Resources

This unit is designed to advance the students' proficiency in manual therapy across a variety of clinical settings including sports medicine. The unit also covers an overview of ancillary modalities including indications and contraindications for the techniques and their clinical applications. The unit is worth 4 credit points.

Number and length of classes per week:

- ◦ 3 x 1 hour lectures
  ◦ 2 x 1 hour Diversified tutorials
  ◦ 2 x 2 hour Gonstead tutorials

The timetable for classes can be found on the University web site at:

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

TUTORIALS START IN WEEK 2. Please check iLearn for announcements.

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

TEXTS

- Esposito S, Philipson S. Spinal Adjustment Technique: The Chiropractic Art. Self Published. St. Ives, Australia. 2005
- Herbst RW. Gonstead Chiropractic Science & Art: Chiropractic Methodology of Clarence S. Gonstead. Gonstead Chiropractic Society (Australia).
- Knight KL, Draper DI. Therapeutic Modalities The Art and Science. Lippincott Williams & Wilkins, Baltimore, 2008.
- Brukner P, Khan K (eds). Clinical sports medicine. 4th edition 2012. McGraw Hill, New York.

SUGGESTED READING

1 Kapandji, Physiology of the Joints Vol.1-3. Churchill Livingstone

2 Managing Low Back Pain: Kirkaldy Willis

3 Principle and Practice of Chiropractic: Haldeman

4 Clinical Anatomy of the Lumbar Spine: Bogduk, Twomey

5 Chiropractic Management of Spine related disorders: Gatterman

6 Chiropractic Technique: Bergman & Lawrence

7 Therapeutic Exercise for Spinal Segmental Stabilization in Low Back Pain: Richardson and Jull

8 Back Pain Revolution: Waddell

9 Hertling D, Kessler RM. Management of common musculoskeletal disorders: Physical Therapy Principles and Methods. 4th ed. Lippincott Williams & Wilkins,

2006. Philadelphia.

IMPORTANT NOTES

· 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.

Unit Schedule

CHIR 904 Syllabus – 2014

Week	Day	Topic	Lecturer	Tutorial
1	Tues 8-9	Introduction	Roger Engel (RE)	Tutorial allocation
	Wed 8-9	Gonstead	Andrew Stevenson (AS)	No tutorial
	Thurs 8-9	Hockey	RE	
2	Tues 8-9	Diversified	Stephen Esposito (SE)	Diversified
	Wed 8-9	Gonstead	AS	Gonstead
	Thurs 8-9	Rowing	RE	
3	Tues 8-9	Skills acquisition & scheduling	RE	Diversified
	Wed 8-9	Gonstead	AS	Gonstead
	Thurs 8-9	Football (soccer)	Mario Pribicevic (MP)	
4	Tues 8-9	Diversified	SE	Diversified
	Wed 8-9	Gonstead	AS	Gonstead
	Thurs 8-9	Falls prevention	RE	
5	Tues 8-9	Manual therapy & COPD	RE	Diversified
	Wed 8-9	Gonstead	AS	Gonstead
	Thurs 8-9	Tennis & racket sports	MP	
6	Tues 8-9	Diversified	SE	Diversified
	Wed 8-9	Gonstead	AS	Gonstead
	Thurs 8-9	Baseball/cricket	Brian Nook (BN)	
7	Tues 8-9	Diversified	SE	Diversified
	Wed 8-9	Gonstead	AS	Gonstead

	Thurs 8-9	Basketball/Netball	MP	
XXX	**RECESS**	**XXXXXXXXXXX**	**XXXXXX**	**XXXXXXXXXXX**
8	Tues 8-9	Dosage & intensity	RE	Diversified
	Wed 8-9	Gonstead	AS	Gonstead
	Thurs 8-9	Aerobics/gymnastics	BN	
9	Tues 8-9	Diversified	SE	Diversified
	Wed 8-9	Gonstead	AS	Gonstead
	Thurs 8-9	TBA	MP	
10	Tues 8-9	NO LECTURE		**Diversified OSCE**
	Wed 8-9	Gonstead	AS	Gonstead
	Thurs 8-9	Aerobic training	Luke Khoury (LK)	
11	Tues 8-9	Diversified	SE	Diversified
	Wed 8-9	NO LECTURE		**Gonstead OSCE**
	Thurs 8-9	Dry needling	LK	
12	Tues 8-9	Diversified	SE	NO TUTORIALS
	Wed 8-9	Exam preparation	RE	NO TUTORIALS
	Thurs 8-9	Vibration/Laser therapy	LK	
13	Tues 8-9	xxxxxxxxxxx	No lecture	**Supplementary OSCE (D)**
	Wed 8-9	xxxxxxxxxxx	No lecture	**Supplementary OSCE (G)**
	Thurs 8-9	xxxxxxxxxxx	No lecture	

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/

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 - 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 spinal adjustments and/or mobilisations with the appropriate psychomotor skills associated with 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.
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- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Assessment tasks

- Diversifed OSCE
- Gonstead OSCE
- Gonstead in-class test
- Technique video assignments
- End of semester written exam

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 spinal adjustments and/or mobilisations with the appropriate psychomotor skills associated with these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
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Assessment tasks

- Diversifed OSCE

- Gonstead OSCE
- Gonstead in-class test
- Technique video assignments
- End of semester written exam

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

- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Assessment tasks

- Technique video assignments
- End of semester written exam

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 perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills associated with 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.
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- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Assessment tasks

- Diversifed OSCE
- Gonstead OSCE
- Gonstead in-class test

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

- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Assessment task

- End of semester written exam

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 outcomes

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills associated with 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.
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Assessment tasks

- Diversifed OSCE
- Gonstead OSCE
- Gonstead in-class test
- Technique video assignments
- End of semester written exam

Changes since First Published

Date	Description
28/02/2014	The Description was updated.