

CHIR903 Clinical Chiropractic 3

S1 Day 2014

Chiropractic

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General Information

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Credit points

4

Prerequisites CHIR892

Corequisites

Co-badged status

Unit description

This unit has three aims: 1. The unit focuses on developing basic proficiency in Gonstead manual techniques and further developing proficiency in Diversified manual techniques. It covers indications and contraindications to manipulation and includes the clinical applications of these techniques. 2. The unit introduces students to the subject of electrophysical therapy: biophysical principles, dosimetry, indications for use, contra-indications for use, precautions, dangers and risks associated with use. A multidisciplinary and evidence-based approach to rehabilitation including functional restoration, pain and psychological management will be emphasised. 3. The unit provides an introduction to the assessment and management of musculoskeletal sports injuries within a chiropractic setting in Australia. Students will learn the basic principles of sports medicine and the regulatory framework within which sports injury management operates. A multidisciplinary team-based approach to the management of sports injuries will be emphasised.

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 mobilisations with the appropriate

psychomotor skills at a clinically safe and competent level.

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 clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.

The ability to choose and apply clinically appropriate electrophysical therapy.

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.

Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

Name	Weighting	Due
Technique Assignment	14%	ТВА
Written assignment	10%	2/5/2014
Gonstead Spot test	10%	ТВА
Diversified OSCE	12%	Week 13
EPT Practical exam	0%	Week 6
Gonstead OSCE	24%	Week 13
Theory exam	30%	University examination period

Assessment Tasks

Technique Assignment

Due: **TBA** Weighting: **14%**

Gonstead 1: 3%

Diversified 1: 3%

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Gonstead 2:4%

Diversified 2: 4%

On successful completion you will be able to:

- The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- 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 clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

Written assignment

Due: 2/5/2014 Weighting: 10%

On successful completion you will be able to:

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

Gonstead Spot test

Due: **TBA** Weighting: **10%**

On successful completion you will be able to:

- The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- 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.

Diversified OSCE

Due: Week 13 Weighting: 12%

On successful completion you will be able to:

- The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- 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.

EPT Practical exam

Due: Week 6 Weighting: 0%

Compulsory pass

On successful completion you will be able to:

- The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- 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 clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- The ability to choose and apply clinically appropriate electrophysical therapy.

Gonstead OSCE

Due: Week 13 Weighting: 24%

On successful completion you will be able to:

- The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- 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.

Theory exam

Due: University examination period Weighting: 30%

On successful completion you will be able to:

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- The ability to choose and apply clinically appropriate electrophysical therapy.
- 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.
- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

Delivery and Resources

CLASSES

Number and length of classes per week:

- 3 x 1 hour lectures
- 2 x 2 hour Gonstead tutorial

- 1 x 1 hour Diversified tutorial
- 1 x 1 hour EPT/Sports Medicine tutorial

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

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

ONLY EPT TUTORIAL (Tutorial 4) WILL RUN IN WEEK ONE. ALL OTHER TUTORIALS START IN WEEK 2. Please check iLearn for announcements. Tutorial attendance/participation is required and will be factored into the final grade.

TEXT

1. Knight KL, Draper DI. Therapeutic Modalities The Art and Science. Lippincott Williams & Wilkins, Baltimore, 2008.

2. Brukner P, Khan K (eds). Clinical sports medicine. 4th edition. McGraw Hill, New York, 2012.

SUGGESTED READING

1 Esposito S, Philipson S. Spinal Adjustment Technique: The Chiropractic Art. Self Published. St. Ives, Australia. 2005

2 Herbst RW. Gonstead Chiropractic Science & Art: Chiropractic Methodology of Clarence S. Gonstead. Gonstead Chiropractic Society (Australia).

- 3 Kapandji, Physiology of the Joints Vol.1-3. Churchill Livingstone
- 4 Managing Low Back Pain: Kirkaldy Willis
- 5 Principle and Practice of Chiropractic: Haldeman
- 6 Clinical Anatomy of the Lumbar Spine: Bogduk, Twomey
- 7 Chiropractic Management of Spine related disorders: Gatterman
- 8 Chiropractic Technique: Bergman & Lawrence
- 9 Therapeutic Exercise for Spinal Segmental Stabilization in Low Back Pain: Richardson and Jull
- 10 Back Pain Revolution: Waddell
- 11 Electrophysical evidence based practice. 12th ed. T Watson (ed). Churchill Livingstone, 2008.

12 Hertling D, Kessler RM. Management of common musculoskeletal disorders: Physical Therapy Principles and Methods. 4th ed. Lippincott Williams & Wilkins, 2006. Philadelphia.

Teaching and Learning Strategy / electronic resources

• This unit is comprised of lectures and technique tutorials. There will also be some self directed learning within the course.

- 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.
- Video assignments will be submitted by email.
- Written assignments will be submitted by Turnitin.

Changes to CHIR903 in 2014

• The practical component of CHIR903 now focuses on 'Gonstead' spinal technique. Prior to 2013, the practicum included Gonstead *and* Diversified technique streams.

Learning and Teaching Activities

Lecture

Lecture/class discussion

Tutorial

Demonstration/tutorial

Spot test

In class practicum assessment

Video Assignment

Assignment

Written Assignment

Written Assignment

Theory Assessment

End of semester exam

OSCE

End of semester practicum

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 <u>http://mq.edu.au/policy/docs/academic_honesty/policy.ht</u> ml

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 <u>http://mq.edu.au/policy/docs/grievance_managemen</u> t/policy.html

Disruption to Studies Policy <u>http://www.mq.edu.au/policy/docs/disruption_studies/policy.html</u> 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/

GENERAL DEPARTMENTAL POLICIES FOR THE TECHNIQUE ROOMS

GENERAL:

1. All students will display a professional and responsible attitude towards fellow students, equipment, and staff at the Department of Health & Chiropractic.

2. In the event of injury or accident during class, the customary Medical

Emergency procedures are to be followed. In addition to that, an incident report must be complete and signed by the student and tutor on the same day or as soon as possible. The form and/or notification of the incident should be brought immediately to the attention of the Principles and Practice Coordinator. Forms are located in the Administrators Office.

3. In the case of student concern, confusion, poor performance or any problem concerning a unit, contact the convenor of the unit as soon as possible.

4. All students must be cleared by the "Chiropractic Skills Participation Assessment" (SPA form) in the initial weeks of Semester 1.

5. A student will report all incidents or factors which may influence the student's ability to participate in classes to their tutor immediately.

6. The practice of Chiropractic Procedures will only occur under supervision by qualified tutor.

TUTORIAL LABORATORIES:

7. All chiropractic tables must be covered with a towel, including face piece before any use.

8. All students will bring a towel, face cloth, and a patient gown (or other suitable garment) for tutorial classes.

9. Tutorial Dress Code: Shorts (loose pants, not denim) and Patient gown (shirt that opens in back) such that a fellow student will be able to make "skin-on-skin" contact on relevant landmarks from the second sacral tubercle and above as well as the proximal 1/3 thigh and below.

10. Shoes and belts are to be removed and stowed away before using the chiropractic tables.

11. Food and drink must remain outside all Laboratories (skills rooms).

12. Chiropractic tables are to remain in their present location unless change is agreed to by a tutor.

13. All personal items are to be placed in cubicles so that the floor and tables will be clear of debris.

14. NO ADJUSTING in class will occur without the approval and direct supervision of a tutor.

15. The Laboratory is to be restored to a clean and orderly state at the completion of each tutorial. Trash will be thrown way and equipment will be returned to its original location.

16. Only Tutors are to operate Audio Visual Equipment; including monitor volume control.

17. Wash your hands before and throughout the tutorial

18. Failure to comply with these rules may lead to disciplinary actions.

Student Support

Macquarie University provides a range of support services for students. For details, visit <u>http://stu</u> dents.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 <u>http://informatics.mq.edu.au/hel</u>p/.

When using the University's IT, you must adhere to the <u>Acceptable Use Policy</u>. 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 mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- 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 clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- The ability to choose and apply clinically appropriate electrophysical therapy.
- 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 Assignment
- Written assignment
- Gonstead Spot test
- Diversified OSCE
- EPT Practical exam

- Gonstead OSCE
- · Theory exam

Learning and teaching activities

- Lecture/class discussion
- Demonstration/tutorial
- Written Assignment
- · End of semester 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

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

Assessment tasks

- Technique Assignment
- Written assignment
- · Theory exam

Learning and teaching activities

- Lecture/class discussion
- Demonstration/tutorial
- Written Assignment
- · End of semester 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 outcomes

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- The ability to choose and apply clinically appropriate electrophysical therapy.
- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

Assessment tasks

- Technique Assignment
- Written assignment
- · Theory exam

Learning and teaching activities

- Demonstration/tutorial
- Assignment
- Written Assignment
- End of semester 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

• A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all

joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.

- The ability to choose and apply clinically appropriate electrophysical therapy.
- 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

- Gonstead Spot test
- Diversified OSCE
- EPT Practical exam
- Gonstead OSCE

Learning and teaching activities

- Demonstration/tutorial
- Assignment
- End of semester practicum

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 outcomes

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- 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.

• Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

Assessment tasks

- EPT Practical exam
- Theory exam

Learning and teaching activities

- Lecture/class discussion
- Demonstration/tutorial
- Assignment

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

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- 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 Assignment
- Written assignment
- EPT Practical exam
- · Theory exam

Learning and teaching activities

• Demonstration/tutorial

- Assignment
- Written Assignment

Achieving a pass in CHIR903

The relative weighting of the two parts of the assement are as follows:

Pa	Part A (Theory): 40% of total mark			
i.	End of semester written exam	30%		
ii.	Written assignment	10%		
Ра	rt B (Practical): 60% of total mark			
i.	EPT practical exam	Compulsory pass		
ii.	Gonstead Spot test	10%		
iii.	Diversified OSCE	12%		
iv.	Gonstead OSCE	24%		
V.	Technique assignments (2 x 3%, 2 x 4%)	14%		

GRADES

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

Achievement of grades will be based on the following criteria:

Grade	
Pass (P)	A minimum raw overall mark of 50% AND a passing grade in the EPT practical exam AND a passing grade in EACH of the final technique OSCE's
Credit (Cr)	A minimum raw overall mark of 65% AND a passing grade in the EPT practical exam AND a passing grade in EACH of the final technique OSCE's

Distinction (D)	A minimum raw overall mark of 75% AND a passing grade in the EPT practical exam AND a passing grade in EACH of the final technique OSCE's
High Distinction (HD)	A minimum raw overall mark of 85% AND a passing grade in the EPT practical exam AND a passing grade in EACH of the final technique OSCE's

ASSESSMENT FEEDBACK

Feedback for each assessment task (except the OSCE and end of semester written exam) will be provided as soon as is practically possible after the assessment task is performed or submitted. For the Spot Test and Technique assignments (TA 1-4), feedback will be given as soon as possible after each test and for the written assignment due in in week 7, feedback will be given by week 12.

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.

Pass the EPT component of CHIR903

The EPT component of this unit has a PASS/FAIL grade attached to it. To pass CHIR 903 a student <u>must pass the EPT component</u>. To pass the EPT component a student needs to achieve a minimum mark of 50% in the practical exam held in week 6. If a student does not achieve the minimum mark in the week 6 exam they will be offered a supplementary EPT practical exam in week 7. If the student does not achieve the minimum mark in the supplementary exam in week 7 they will be deemed to have failed the EPT component and therefore the unit as a whole.

Pass the technique component of CHIR903

Passing the technique portion of this unit means:

- o Passing the unit as a whole
- Passing each of the final technique OSCE's (Gonstead & Diversified)

If the student achieves an overall pass, but does not pass one or more of the technique OSCE's, they may be offered a supplementary OSCE. Supplementary OSCE(s) will be held during the written examination period for semester one. The highest grade achieved in this scenario will be a PASS grade regardless

of the student's overall score in the unit.