# CHIR921

## Topics in Chiropractic 1

### S1 Day 2013

*Chiropractic*

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General Information

Unit convenor and teaching staff
Unit Convenor
Stephney Whillier
stephney.whillier@mq.edu.au
Contact via stephney.whillier@mq.edu.au

Credit points
4

Prerequisites
CHIR918 and CHIR919

Corequisites

Co-badged status

Unit description
This unit includes studies in nutrition, pharmacology, developing research methodology and conducting research, plus professional studies. It facilitates the development of skills which are fundamental to both the establishment and successful running of a chiropractic practice. The unit comprises:
1. Lecture sessions covering professional topics such as medical ethics, law and jurisprudence, business and communication skills.
2. A substantial research project including critical evaluation of clinical literature.
3. An understanding of fundamental concepts in the fields of nutrition and pharmacology.

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. Critically analyse ethical and legal issues.
2. Recognise ethically compromising situations.
3. Understand the Chiropractic code of practice, and legal concepts in chiropractic.
4. Know the principles of establishing and managing a chiropractic practice.
5. Demonstrate small business management skills.
6. Understand ethical practice management.
7. Explain the importance of detailed protocols to guide research projects as well as
systematic reviews.
8. Demonstrate skills in planning and writing protocols.
9. Summarise the central elements involved in the process of writing protocols for both research projects and systematic reviews.
10. Demonstrate an understanding of the role of ethical considerations in research project proposals.
11. Describe the importance of pre-planned protocols for systematic reviews.
12. Apply a knowledge of research design to analyse, interpret and critique journal articles.
13. Appreciate the importance of evidence based health care and the different levels of evidence.
14. Use library and internet resources for accessing Chiropractic and health literature.
15. Write papers suitable for publication in scientific journals.
16. Demonstrate an understanding of the basic concepts of pharmacodynamics (drug action), pharmacokinetics (drug movement through the body) and mechanisms of action
17. Define a range of therapeutic drug classes
18. Name commonly used pharmacological agents in the treatment of common disorders
19. Demonstrate an understanding of the ethical and safety issues related to drug usage
20. Explain the significance of toxicity, adverse reactions, contraindications and side effects as it relates to drug use
21. Demonstrated an understanding of how to utilise the information contained in drug references such as MIMS and the Australian Prescription Properties Guide
22. Demonstrate a sound knowledge of the fundamentals in nutritional science, including energy and metabolism, macronutrients and micronutrients.
23. Use current research to critically evaluate present nutritional issues and trends.

**Assessment Tasks**

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>40%</td>
<td>1a: W 7, 1b: W11</td>
</tr>
<tr>
<td>2</td>
<td>10%</td>
<td>W8</td>
</tr>
<tr>
<td>3</td>
<td>50%</td>
<td>exam week</td>
</tr>
</tbody>
</table>

1
Due: **1a: W 7, 1b: W11**
Weighting: **40%**
Task 1a: ‘Developing a protocol for clinical research projects and systematic reviews’

Based on the lectures in week 2 and 3 that highlight the steps involved in the process of writing detailed protocols for research projects (lecture 1) and systematic reviews (lecture 2), develop a detailed protocol for either your clinical research project or systematic literature review, fulfilling the learning outcomes associated with the research project.

Task 1b: Submission of midyear report

This submission will reflect your understanding of the current status on the topic you have chosen and will outline your proposed work for the 2nd semester in CHIR922 Research Project component. It will showcase your ability to search the appropriate databases for relevant literature and critically appraise the published literature.

This Assessment Task relates to the following Learning Outcomes:

- Explain the importance of detailed protocols to guide research projects as well as systematic reviews.
- Demonstrate skills in planning and writing protocols.
- Summarise the central elements involved in the process of writing protocols for both research projects and systematic reviews.
- Demonstrate an understanding of the role of ethical considerations in research project proposals.
- Describe the importance of pre-planned protocols for systematic reviews.
- Apply a knowledge of research design to analyse, interpret and critique journal articles.
- Appreciate the importance of evidence based health care and the different levels of evidence.
- Use library and internet resources for accessing Chiropractic and health literature.
- Write papers suitable for publication in scientific journals.

Due: W8
Weighting: 10%
TBA
This Assessment Task relates to the following Learning Outcomes:

- Critically analyse ethical and legal issues.
- Recognise ethically compromising situations.
- Understand the Chiropractic code of practice, and legal concepts in chiropractic.
- Know the principles of establishing and managing a chiropractic practice.
- Demonstrate small business management skills.
- Understand ethical practice management.

Due: exam week
Weighting: 50%

20% each for nutrition and pharmacology, 10% for professional studies

This Assessment Task relates to the following Learning Outcomes:

- Critically analyse ethical and legal issues.
- Recognise ethically compromising situations.
- Understand the Chiropractic code of practice, and legal concepts in chiropractic.
- Know the principles of establishing and managing a chiropractic practice.
- Demonstrate small business management skills.
- Understand ethical practice management.
- Demonstrate an understanding of the basic concepts of pharmacodynamics (drug action), pharmacokinetics (drug movement through the body) and mechanisms of action.
- Define a range of therapeutic drug classes.
- Name commonly used pharmacological agents in the treatment of common disorders.
- Demonstrate an understanding of the ethical and safety issues related to drug usage.
- Explain the significance of toxicity, adverse reactions, contraindications and side effects as it relates to drug use.

21. Demonstrated an understanding of how to utilise the information contained in drug references such as MIMS and the Australian Prescription Properties Guide.
22. Demonstrate a sound knowledge of the fundamentals in nutritional science, including energy and metabolism, macronutrients and micronutrients.
23. Use current research to critically evaluate present nutritional issues and trends.

Delivery and Resources
**Topic 1: Research Methods**

**RECOMMENDED READINGS**


5. Edward J. Huth. 1999. Writing and publishing in medicine. 3rd ed. Williams & Wilkins, Baltimore


**USEFUL WEB-RESOURCES:**

http://www.cochrane.org (Cochrane Collaboration, the most reliable source of evidence in health care)

http://www.fcer.org (Federation of Chiropractic Education and Research)

http://www.pedro.fhs.usyd.edu.au (Physiotherapy Evidence Database)

http://www.nwhealth.edu/library/journals.html (List and links to many Journals)

**Topic 2: Nutrition**

**Required text:**

Introduction to Clinical Nutrition, Third Edition

- Sardesai; Vishwanath | Publisher: Taylor and Francis
Recommended reading:


   Taylor and Francis, CRC Press


   The International Olympic Committee Consensus on Sports Nutrition. Taylor and Francis, Routledge


**Topic 3: Professional Studies**

Required reading:


Recommended reading:

8. The Business and Practice Essential. Prepared for the graduate chiropractor. CAA Victoria Branch.

**Topic 4: Pharmacology**

Recommended reading:

1. Herbs & Natural Supplements
2. Clinical Naturopathy
3. Pharmacology resources
4. Workbook for Pharmacology
5. Pharmacology for Health Professionals (this comes with comprehensive additional resources on Evolve)


<table>
<thead>
<tr>
<th>Topic 1</th>
<th>Topic 2</th>
<th>Topic 3</th>
<th>Topic 4</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Methods</td>
<td>Nutrition</td>
<td>Professional Studies</td>
<td>Pharmacology</td>
<td></td>
</tr>
<tr>
<td><strong>Lectures</strong></td>
<td>1 × 2 hour lectures in weeks 2 and 3 only.</td>
<td>1 × 1 hour lectures per week, weeks 1 – 12</td>
<td>1 x 2 hour lectures in weeks 4 – 12</td>
<td>No scheduled lectures. Recorded lectures are available on iLearn, with powerpoint and additional notes</td>
</tr>
<tr>
<td><strong>Class times &amp; locations</strong></td>
<td>Monday, 8-10am, E7B T2</td>
<td>Thursday, 10-11am, E7B T4 (exception to this in weeks 1 and 4 – see timetable)</td>
<td>Monday, 8-10am, E7B T2 (exception to this week 4 – see timetable)</td>
<td>3 hours per week, weeks 1-12</td>
</tr>
</tbody>
</table>
### Other

1-2 hours per week with supervisor and 1-2 hours a week in research project development.

### 2hrs a week going through online lectures and information

### 4-6 hours per week

### Unit Schedule

<table>
<thead>
<tr>
<th>Wk</th>
<th>Start Date</th>
<th>Lecture (Monday, 8-10am)</th>
<th>Lecture (Thursday, 10-11 am)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Venue: E7B T2</td>
<td>Venue: E7B T4</td>
</tr>
<tr>
<td>1</td>
<td>25 Feb</td>
<td>Introduction to the course</td>
<td>Nutrition: Energy and Metabolism (SW)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nutrition: Energy and Metabolism (SW)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>4 Mar</td>
<td>Research Project: Developing a protocol for clinical research projects and systematic reviews (RZP)</td>
<td>Nutrition: What should dietary intake be based on? (SW)</td>
</tr>
<tr>
<td>3</td>
<td>11 Mar</td>
<td>Research Project: Developing a protocol for clinical research projects and systematic reviews (RZP)</td>
<td>Nutrition: What should dietary intake be based on? (SW)</td>
</tr>
<tr>
<td>4</td>
<td>18 Mar</td>
<td>Professional studies: Professional Ethics and Ethical Issues in Chiropractic. (RB)</td>
<td>Professional studies: Interprofessional Communications. (RB)</td>
</tr>
<tr>
<td>6</td>
<td>1 April</td>
<td>Easter Monday</td>
<td>Nutrition: Macronutrients (SW)</td>
</tr>
<tr>
<td>7</td>
<td>8 April</td>
<td>Professional studies: Professional Registration, Professional Associations and Societies. (CB)</td>
<td>Nutrition: Macronutrients (SW)</td>
</tr>
<tr>
<td></td>
<td>15-28 April</td>
<td>Midsemester break</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>29 April</td>
<td>Professional studies: Practice Management and Practice Promotion. (RB)</td>
<td>Nutrition: Macronutrients (SW)</td>
</tr>
<tr>
<td>9</td>
<td>6 May</td>
<td>Professional studies: Medicolegal Issues and Record Keeping (RB and JZ)</td>
<td>Nutrition: Macronutrients (SW)</td>
</tr>
<tr>
<td>10</td>
<td>13 May</td>
<td>Professional studies: What is Law? And Legal Frameworks. (JZ)</td>
<td>Nutrition: Micronutrients (SW)</td>
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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:


In addition, a number of other policies can be found in the Learning and Teaching Category of Policy Central.

**Student Support**

Macquarie University provides a range of Academic Student Support Services. Details of these services can be accessed at: [http://students.mq.edu.au/support/](http://students.mq.edu.au/support/)

**UniWISE provides:**

- Online learning resources and academic skills workshops [http://www.students.mq.edu.au/support/learning_skills/](http://www.students.mq.edu.au/support/learning_skills/)
- Personal assistance with your learning & study related questions.
- The Learning Help Desk is located in the Library foyer (level 2).
- Online and on-campus orientation events run by Mentors@Macquarie.

**Student Enquiry Service**

Details of these services can be accessed at [http://www.student.mq.edu.au/ses/](http://www.student.mq.edu.au/ses/).

**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
If you wish to receive IT help, we would be glad to assist you at 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 and it outlines what can be done.

Graduate Capabilities

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

- Recognise ethically compromising situations.
- Know the principles of establishing and managing a chiropractic practice.
- Demonstrate small business management skills.
- Explain the importance of detailed protocols to guide research projects as well as systematic reviews.
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- Use library and internet resources for accessing Chiropractic and health literature.
- Write papers suitable for publication in scientific journals.

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**

- Critically analyse ethical and legal issues.
- Recognise ethically compromising situations.
- Understand the Chiropractic code of practice, and legal concepts in chiropractic.
- Know the principles of establishing and managing a chiropractic practice.
- Demonstrate small business management skills.
- Understand ethical practice management.
- Demonstrate an understanding of the role of ethical considerations in research project proposals.
- Demonstrate an understanding of the ethical and safety issues related to drug usage

**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**

- Critically analyse ethical and legal issues.
- Recognise ethically compromising situations.
- Understand the Chiropractic code of practice, and legal concepts in chiropractic.
- Know the principles of establishing and managing a chiropractic practice.
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23. Use current research to critically evaluate present nutritional issues and trends.

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

• Critically analyse ethical and legal issues.
• Recognise ethically compromising situations.
• Know the principles of establishing and managing a chiropractic practice.
• Demonstrate small business management skills.
• Explain the importance of detailed protocols to guide research projects as well as systematic reviews.
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• Apply a knowledge of research design to analyse, interpret and critique journal articles.
• Appreciate the importance of evidence based health care and the different levels of evidence.
• Write papers suitable for publication in scientific journals.
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

- Demonstrate small business management skills.
- Explain the importance of detailed protocols to guide research projects as well as systematic reviews.
- Demonstrate skills in planning and writing protocols.
- Summarise the central elements involved in the process of writing protocols for both research projects and systematic reviews.
- Describe the importance of pre-planned protocols for systematic reviews.
- Apply a knowledge of research design to analyse, interpret and critique journal articles.
- Write papers suitable for publication in scientific journals.

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

- Critically analyse ethical and legal issues.
- Recognise ethically compromising situations.
- Know the principles of establishing and managing a chiropractic practice.
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