PHTY90094 Research and Evidence 1

Credit Points:	6.25
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2011, Parkville This subject commences in the following study period/s: February, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 35 hours of lectures, tutorials, computer labs and computer based modules. Total Time Commitment: 70 Hours
Prerequisites:	N/A Fixed Course
Corequisites:	N/A Fixed Course
Recommended Background Knowledge:	None.
Non Allowed Subjects:	N/A Fixed Course
Core Participation Requirements:	None.
Coordinator:	Assoc Prof Rana Hinman
Contact:	Dr Louisa Remedios
Subject Overview:	This subject is the first in a series of four Research and Evidence subjects that will be delivered over the three year course duration. Specifically these subjects will focus on research as it applies to physiotherapy and the process of evidence based practice. Research and Evidence 1 will target the following foundations of research: 1 Principles of evidence based practice; 2 Concepts of measurement; 3 Ethics of clinical human research; 4 Descriptive statistics and introduction to epidemiology. Research principles taught in this subject will be integrated and implemented into concurrent and subsequent first year subjects in the Doctor of Physiotherapy. For example, concepts of measurement taught in this subject will be the basis of the measurement tools studied in the concurrent subject Physiotherapy Theory and Practice 1.
Objectives:	Learning Outcomes: Element 1: Physiotherapy Theory and Practice # Describe the steps involved in practicing evidence-based physiotherapy; # Analyse factors that may impact upon a measurement tool's ability to accurately evaluate change with physiotherapy intervention and/or predict clinical outcome. # Identify the ethical dimensions of conducting clinical human and animal research. # Compute and interpret descriptive statistics for a quantitative data set. Element 2: Evidence in Physiotherapy # Analyse clinimetric properties when choosing measurement tools in physiotherapy practice. # Describe the significance of high quality ethical clinical research in contemporary physiotherapy practice. Element 3: Health in Context # Explain how evidence-based physiotherapy practice is important for patients, the profession, policy makers and funders of physiotherapy services. # Describe how practice contexts (including access to research findings, cultural preferences and values, available resources and politics) influence the application of evidence based practice.

Assessment:	Group assignment: to prepare a Wiki or a Podcast summarising existing evidence regarding clinimetric properties and patient/context specific issues applicable to an allocated physiotherapy measurement tool. 1000 words due mid-semester (25%). Annotated bibliography: related to the Wiki or Podcast assignment 1000 words due mid semester (30%). Group oral presentation: on methodology and results of a reliability study using an allocated physiotherapy measurement tool. 20 minutes at end of semester (45%).
Prescribed Texts:	Practice Evidence-Based Physiotherapy. (R Herbert, G Jamtvedt, J Mead and K Birger Hagen), London, Butterworth Heinemann, 2006. Foundations of Clinical Research: Applications to Practice (Portney LG & Watkins MP), 3rd ed, Pearson/Prentice Hall, Upper Saddle River, New Jersey, 2008
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	By the completions of this subject, students will have had the opportunity to develop the following generic skills # Skills in searching for and evaluating research evidence # The ability to begin to apply new research data to problem solving in clinical cases; # Construction and expression of logical arguments in the application of evidence.
Related Course(s):	Doctor of Physiotherapy