

School of Medicine

Medical Education Unit – Research

The relatively new and dynamic nature of the UWS Medical Program provides great potential for innovative research questions and collaborative projects.

Medical education research draws on a broad range of disciplines and methodologies. This is reflected in the backgrounds and expertise of Medical Education Unit (MEU) staff. Methodologies currently being employed include *qualitative* (Design Based Research, Participatory Action Research, Delphi methods, Video analysis, and Program Evaluation) and *quantitative* (Survey Validation, Clinical Epidemiology, Biostatistics and Mixed Methods) approaches. MEU research themes and research development activities are outlined below.

RESEARCH THEMES

1. CURRICULUM DESIGN and E-LEARNING

Project Title	Project Lead	Project Team and Grants
PBL Renewal – various projects 1. A Roadmap for Learning: a first year online learning support system 2. PBL Mechanisms Project	Bronwen Dalziel Shaun Wang	Glenn Mason, Wendy Hu, Iman Hegazi, Laura Surmon, Tony Succar, Shaun Wang (UWS Our Future Fund) Wendy Hu, Vicki Langendyk, Iman Hegazi, Laura Surmon, Tony Succar
Evaluating the introduction of iPads in medical education at UWS	Bronwen Dalziel	Glenn Mason
Evaluation of new technology in teaching professionalism	Vicki Langendyk	Glenn Mason, Shaun Wang
Evaluating students reflective learning journals	Vicki Langendyk	Glenn Mason
Design and development of an online educational intervention investigating the role of health beliefs in patients with type 2 diabetes	Glenn Mason	Wilson, I., Maeder, A., Hennessy, A., Olson, R., Mason, G.

2. ASSESSMENT and EVALUATION

Project Title	Project Lead	Project Team and Support
An evidence based model of clinical assessment workload in the health professions	Wendy Hu	Verona du Toit, Andrea Bialocerkowski, Yenna Salamonson, Lee Zakrzewski, Giselle Gallego, Peter Zelas, Lambert Schuwirth, Rick Iedema, James Kwan (UWS ECR Seed Grant, HWA Research Grant)
Review of assessment – a design based research program	James Kwan	Brad Frankum, Wendy Hu, Julie Uljanic (UWS LTEG Grant)
Development of Entrustable Professional Activities for students at the transition to professional practice	Ros Crampton (SWSLHD)	James Kwan, Roslyn Weaver, Lise Mogenson, Wendy Hu (ICTN Grant)
Developing an evaluation program for the MBBS course	Tony Succar	Wendy Hu
Evaluating the quality and safety curriculum	Kim Oates (CEC)	Vicki Langendyk
Impact of Progressive Self and Tutor Evaluation on Development of Student Clinical Reasoning Skills and Engagement In Problem Based Learning	Succar, T	Langendyk V, Wang S, Mason G

3. THE STUDENT EXPERIENCE

Project Title	Project Lead	Project Team and Support
Professional identity development in medical and nursing students	Leanne Cowin (SoNM)	Maree Johnson, Vicki Langendyk, Iman Hegazi
Selection of Medical Students – various projects 1. Interrater reliability of MMIs 2. Medical student career goals and interests	Barbara Griffin	Wendy Hu
Predictive validity of the UMAT	Margaret Hay (Monash)	Annette Mercer, Dulcie Lay, Emma Warnecke, Barbara Griffin, Wendy Hu (UMAT Consortium Grant)
Stress, Physical Activity and the Medical Student	Laura Surmon	Joanne Lind, Bronwen Dalziel, Christine Chiu
Adolescent health choices: physical activity in females – a pilot study	Erin Mathieu	Chris Lonsdale (SoM ECR Grant)
Medical student motivations and intentions to do research	Wendy Hu	Sara Rosenkranz, Shaun Wang
Medical student reflections on developing professionalism	Vicki Langendyk	Glenn Mason
Moral judgment in medical students at two medical schools	Iman Hegazi,	Vicki Langendyk, Ian Wilson

4. FACULTY DEVELOPMENT

Project Title	Project Lead	Project Team and Support
Supporting Staff who Support Students: A narrative study	Wendy Hu	Eleanor Flynn, Robyn Woodward-Kron (ANZAHPE and ACEN Research Grants)
Medical Education Workforce: the missing pipeline	Wendy Hu	Geoff McColl, Jill Thistlethwaite, Jennifer Weller, Gisselle Gallego, Joseph Monteith, Carolina Radwan, Hussain elRamadani (MDANZ Project Grant)
Understanding and awareness of research ethics among medical students and supervisors	Wendy Hu	Judy Mullan, Peter McLennan, Kath Weston, Warren Rich, Brahm Marjadi

RESEARCH DEVELOPMENT

1. PHD CANDIDATES

Project	Candidate	Supervisor
The Sapience of the Clinical Supervisor in Assessing the Safety of Medical Students	Jenelle Matic	Wendy Hu, Lambert Schuwirth
Development, Implementation and Evaluation of an Emergency Dental Program for Emergency Clinicians in Austria	Tony Skapetis	Tania Gerzina, Wendy Hu
General Practitioners and Health Care for Women Released from Custody	Penny Abbott	Wendy Hu, Parker Magin
Role of General Practitioners in Disasters	Penny Burns	Beverley Raphael, Wendy Hu, Kirsty Douglas
Assessing & Developing Empathy in Medical Students	Iman Hegazi	Ian Wilson, Annemarie Hennessy
The Effect of the 'Digital Divide' on the Patient-Doctor Relationship	Glenn Mason	Ian Wilson, Anthony Maeder, Annemarie Hennessy
Preparing Medical Students for Ethical Practice: An Examination of the Effectiveness of a Personal and Professional Development Theme in One Medical School in Indonesia	Ruliana Agustin	Ian Wilson, David Mahns
Skills Training and Assessment in Professional Psychology	Leanne Humphreys	Ian Wilson, Alexander Yeung, Rocco Crino

2. MBBS Honours CANDIDATES

Project	Candidate	Supervisor
Determining medical student competency: A multisource view from clinical placement supervisors and staff	Anna Bui	Wendy Hu, Wendy Stevens

3. RESEARCH TEACHING

Postgraduate: Prof Wendy Hu, Dr Bronwen Dalziel, Dr Erin Mathieu, Dr Laura Surmon and Dr Tony Succar and Dr Shaun Wang are registered as UWS research supervisors.

Undergraduate: Prof Wendy Hu and Dr Brahm Marjadi coordinate the compulsory Community Research rotation in Year 4 of the MBBS program. Research skills teaching and support is provided to all medical students in research design, ethics, data collection and analysis, and research dissemination.

4. RESEARCH DEVELOPMENT

Activities to promote medical and health professional research at UWS hosted by MEU in 2013 include:

1. **UWS HREC approval** of a program of research to evaluate all aspects of the MBBS program. Appropriate low risk medical education research projects can now be approved within several weeks of application. Chief Investigator: Prof Wendy Hu.
2. **Postgraduate Research Scholarships** in Medical and Health Professional Educational Research. Up to 2 scholarships are to be awarded in 2013.
3. Medical Education Research support, including listservs, resources and expertise in educational design and the use of technology and simulation in learning.
4. **Hosting of Research Events:**
 - a. *Masterclass in Health Professional Educational Research – Assessment*
Presenter: Prof Lambert Schuwirth, Flinders and Maastricht University
School of Medicine, 19th September, 2013
 - b. *Mixed Methods in Health Professional Educational Research*
Presenter: A/Prof Pat Bazeley, UNSW
School of Medicine, 9th October, 2013
 - c. *Systematic Reviews of Qualitative Evidence*
Presenter: A/Prof Allison Tong
School of Medicine, 12th March, 2014