MEDI8201

Musculoskeletal, Neurosciences and Ageing

Medicine and Health Sciences MDA, Weekday attendance, North Ryde 2020

Medicine, Health and Human Sciences Faculty level units

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General Information

Unit convenor and teaching staff
Unit Convenor, Bedside Tutor and Portfolio Mentor
Associate Professor Andrew Davidson
andrew.davidson@mq.edu.au
Contact via Email

Unit Convenor, Bedside Tutor and Portfolio Mentor
Associate Professor Bernard Champion
bernard.champion@mq.edu.au
Contact via Email

Bedside Tutor and Portfolio Mentor
Dr Robin Gasiorowski
robin.gasiorowski@mq.edu.au
Contact via Email

Bedside Tutor and Portfolio Mentor
Dr Ruba Haddad
ruba.haddad@mq.edu.au
Contact via Email

Bedside Tutor and Portfolio Mentor
Dr Abdul Haidary - LDH Group
ahaidary1@bigpond.com
Contact via Email

Bedside Tutor and Portfolio Mentor
Professor Alvin Ing
alvin.ing@mq.edu.au
Contact via Email

Bedside Tutor and Portfolio Mentor
Associate Professor Fredrick Joshua
fredrick.joshua@mq.edu.au
Contact via Email

Bedside Tutor and Portfolio Mentor
Dr Jenny Lee
jenny.lee@mq.edu.au
Contact via Email

Bedside Tutor and Portfolio Mentor
Associate Professor Pirooz Poursoltan
pirooz.poursoltan@mq.edu.au

Contact via Email

Bedside Tutor and Portfolio Mentor
Dr Veronica Preda
veronica.preda@mq.edu.au
Contact via Email

Bedside Tutor and Portfolio Mentor
Dr Grant Shalaby
grant.shalaby@mq.edu.au
Contact via Email

Bedside Tutor and Portfolio Mentor
Associate Professor Vivek Thakkar
vivek.thakkar@mq.edu.au
Contact via Email

Bedside Tutor and Portfolio Mentor
Dr John Turchini
john.turchini@mq.edu.au
Contact via Email

Macquarie MD Course Support Officer
Joy Kennedy
joy.kennedy@mq.edu.au
Contact via Email

Credit points
20

Prerequisites
(MEDI8100 or MEDI910) and (MEDI8101 or MEDI911) and (MEDI8102 or MEDI912) and (MEDI8103 or MEDI913) and (MEDI8104 or MEDI914) and (MEDI8105 or MEDI915)

Corequisites

Co-badged status

Unit description
This unit expands on your clinical knowledge and advances your understanding of the clinical disciplines of Musculoskeletal, Neurosciences and Ageing. Over a 10-week period, you will build your understanding of a range of clinical disciplines integrated with applied medical sciences and the social sciences relevant to health and disease. The unit uses a weekly thematic structure, common across all units in the session to provide a central focus for your learning. These themes represent conceptual understanding of the complexity of health; major mechanisms of diseases and important challenges of modern health care delivery. The unit incorporates an experiential learning component contextually focused on patient-centred health care delivered in the clinical disciplines of Musculoskeletal, Neurosciences and Ageing. The unit includes weekly lectures/seminars, case based learning sessions, clinical bedside tutorials, procedural skills sessions, as well as clinical placements. You are expected to use these learning opportunities to demonstrate significant progress toward the development of the 4 Macquarie MD Graduate Capabilities: Scientist and Scholar, Clinical Practitioner, Engaged Global Citizen and Professional, and the Entrustable Professional Activities, at a standard appropriate to end of Stage 1 of the Macquarie MD.

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:

ULO1: Apply knowledge of relevant medical sciences, clinical presentations, scientific principles and mechanisms of disease to explain a variety of common or clinically-significant disease states, as well as how drugs and other treatments are used to manage or prevent disease in various population sub-groups (Capability 1: Scientist and Scholar).

ULO2: Identify questions and learning needs arising from clinical cases, and work individually or as part of a group to create appropriate responses to clinical scenarios relevant to musculoskeletal, neurosciences and ageing by evaluating evidence from a range of sources, including medical scientific literature (Capability 1: Scientist and Scholar).

ULO3: Elicit a concise and accurate medical history with real patients with common medical or surgical conditions. Identify relevant symptoms, recent and past medical history, medication, allergies and social history, and accurate physical examination identifying relevant abnormal signs (Capability 2: Clinical Practitioner).

ULO4: Summarise history and physical examination findings concisely and accurately in

verbal or written form to peers or colleagues (Capability 2: Clinical Practitioner).

ULO5: Use sound clinical reasoning skills to derive diagnoses, investigations and basic management plans for common medical and surgical conditions, as relevant to musculoskeletal, neurosciences and ageing (Capability 2: Clinical Practitioner).

ULO6: Demonstrate basic procedural skills in a simulated or clinical environment (Capability 2: Clinical Practitioner).

ULO7: Identify and discuss, social, cultural and economic factors as well as the healthcare team and health system factors which may impact on healthcare and population health relevant to musculoskeletal, neurosciences and ageing (Capability 3: Engaged Global Citizen)

ULO8: Participate as an effective team player in tutorial groups and clinical environment with peers and clinical staff (Capability 4: Professional).

ULO9: Use feedback from teachers, clinicians, peers and patients, to inform self-evaluation and critical reflection (Capability 4: Professional).

Assessment Tasks

Coronavirus (COVID-19) Update

Assessment details are no longer provided here as a result of changes due to the Coronavirus (COVID-19) pandemic.

Students should consult iLearn for revised unit information.

Find out more about the Coronavirus (COVID-19) and potential impacts on staff and students

General Assessment Information

Detailed information regarding the assessment for the Macquarie MD is available on the **Macquarie MD Assessment 2019 Intake iLearn site**. Further details for each assessment task will be available on iLearn.

Grading

In this unit two types of grading will be used, and a supervision recommendation will be given where a clinical assessment relates to a Stage 1 Entrustable Professional Activity (EPA). The clinical quiz will be graded numerically with a standardised mark out of 100, while the other assessments will be coarse graded. Coarse grades (P+, P, P-, F) will be assigned to the focused and generic MD Capability Aspects as well as overall task performance. The numeric marks for the examinations and overall coarse grade for the assessment task weighted according to their contribution will be used to calculate the overall unit aggregate. Unit outcomes, based on the unit aggregate, will be reported to the University using the standard Macquarie grades (High Distinction, Distinction, Credit, Pass, Fail). Because most assessment tasks in the unit are

coarse graded, a **single numerical grade (SNG)** equivalent will be reported for each University grade. Both the numeric equivalents for the coarse grades used in the calculation of the unit aggregate and the conversion of the aggregate to a single SNG are available in the Macquarie MD Rules of Assessment and Progression document posted in the Policies and Guidelines section of the **MDCU Doctor of Medicine Community iLearn site.**

All final grades in the Macquarie MD are reviewed by the MD Course Board and Faculty Assessment Committees and ratified by the FMHS Faculty Board so therefore are not the sole responsibility of the Unit Convenor.

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes, attempt all assessment tasks, meet any ungraded requirements which include professionalism, submission of sufficient number and satisfactory performance in Direct Observation of Procedural Skills (DOPS) and Mini Clinical Evaluation Exercise (Mini-CEX) and achieve a unit aggregate of 50% or better.

Extensions for Assessment tasks

Applications for assessment task extensions must be submitted via www.ask.mq.edu.au. For further details please refer to the Special Consideration Policy available at https://students.mq.edu.au/study/my-study-program/special-consideration.

Professional Expectations

Professionalism is a key capability embedded in the Macquarie MD. Professional Behaviour Notifications (PBN) which can be a breach (PBNB) or a commendation (PBNC) may be awarded. PBNs will be recorded in the student's portfolio. As part of developing professionalism, Macquarie MD students are expected to attend all small group interactive sessions including clinical, practical, laboratory and team-based learning activities. If attendance is deemed to be of concern, the student will be referred to the Lead (Student Professionalism) for remediation, subsequent monitoring, and recording in the portfolio. Similarly, as part of developing professionalism, Macquarie MD students are expected to submit all work by the due date. Late submission without prior approved extension will result in a professional behaviour notification-breach (PBNB) in the portfolio.

Delivery and Resources

Coronavirus (COVID-19) Update

Any references to on-campus delivery below may no longer be relevant due to COVID-19.

Please check here for updated delivery information: https://ask.mq.edu.au/account/pub/display/unit_status

MACQUARIE MD TEXTBOOK LIST - YEAR 2 2020

PRIMARY TEXTS:

- **Medicine:** Davidson's principles and practice of medicine (22nd edition). Colledge et al

(2014). ISBN: 9780702050350.

- **Surgery:** Davidson's Principles and Practice of Surgery. 7th Ed (2017). Garden OJ, Bradbury AW, Forsythe JLR, Parks RW editors. Philadelphia: Churchill Livingstone Elsevier.

ADDITIONAL OPTIONAL TEXTS:

- **Surgery:** Henry MM, Thompson JN, editors. Clinical Surgery. 3rd Edition. Edinburgh: Saunders; 2012
- **Microbiology:** Goering et al (2013). Mims' medical microbiology (5th edition). ISBN: 9780723436010.
- **Pathology:** Kumar et al. Robbins and Cotran pathologic basis of disease (9th edition). ISBN: 9781455726134.
- **Pharmacology:** Rang et al (2016). Rang and Dale's pharmacology (8th edition). ISBN: 9780702053627
- **Clinical Skills:** Talley, N., O'Connor, S. (2017) Clinical examination. A systematic guide to physical diagnosis (8th ed.) Elsevier. ISBN 9780729542869.
- **Procedural Skills:** Dehn, R & Asprey, D. (2013). Essential Clinical Procedures (3rd ed.) Elsevier Saunders. ISBN 9781455707812.

MEDI8200 Primary Care, Wellbeing and Cancer

- **General Practice:**
  - John Murtagh's General Practice 6th edition (2015)
  - Oxford Handbook of General Practice (4th Ed). Chantal Simon, Hazel Everitt, Francoise van Dorp, and Matt Burkes. Publisher: Oxford University Press 2014. Print ISBN-13: 9780199671038
- **Dermatology:** ABC of Dermatology (ABC Series) 5th Edition. Paul K. Buxton (Editor), Rachael Morris-Jones (Editor)
- **Oncology:** Davidson's principles and practice of medicine

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- **Neurosurgery:**
  - Davidson's principles and practice of surgery
  - Mark S Greenberg's "Handbook of Neurosurgery", 8th ed (2016)
- **Neurology:**
  - Davidson's principles and practice of medicine
  - Mayo Clinic Essential Neurology. Second Edition (2018). Andrea C. Adams. Mayo Clinic Scientific Press

- **Clinical Neuroanatomy:** Snell's Clinical Neuroanatomy. ISBN: 9780781794275.
- **Ophthalmology:** ABC of Eyes, 4th Edition (2004). Peng T. Khaw, Peter Shah, Andrew R. Elkington. ISBN: 978-0-727-91659-4. BMJ Books
- **ENT:** ABC of Ear, Nose and Throat, 5th Edition (2013). Harold S. Ludman (Editor), Patrick J. Bradley (Editor). ISBN: 978-1-118-70013-6. BMJ Books.
- **Orthopaedics:**
  - Davidson's principles and practice of Surgery
  - Solomon L, Warwick DJ, Nayagam S. Apley's Concise System of Orthopaedics and Fractures. 3rd Ed. Danvers: CRC Press 2005
- **Rheumatology:** Davidson's principles and practice of medicine

MEDI8202 Cardiovascular, Respiratory, Gastroenterology and Metabolism

- **Cardiology:**
  - Davidson's principles and practice of medicine
  - Lilly, L. (Ed.). (2016). Pathophysiology of Heart Disease. A Collaborative Project of Medical Students and Faculty (6th ed.). Philadelphia, PA: Wolters Kluwer.
  - Hampton, John. (2013). The ECG Made Easy, International Edition. London: Churchill Livingstone.
- **Respiratory:** Davidson's principles and practice of medicine
- **Gastroenterology:** Davidson's principles and practice of medicine & Davidson's principles and practice of surgery

MEDI8203 Critical Care, Patient Safety and Quality, and Research

- **Critical Care:** Bersten, A., (Ed.). (2013). Oh's Intensive Care Manual (7th ed.). Elsevier Health Sciences
- **Research Methodology:** Harris, M., & Taylor, G. (2014). Medical Statistics Made Easy: 3rd Edition. Scion Publications.

Technology and equipment

MQ is a BYOD environment where students are encouraged to bring their personally owned devices (laptops, tablets, etc.) to learning activities and to use these devices to access information and study.

On-campus

Teaching rooms are equipped with state of the art audio-visual and ICT equipment including iPads, internet connection and multiple LCD screens. Students will use a range of specific equipment typically used in the assessment and management of people with a range of health

conditions.

Off-campus

To study optimally when off campus you will need to have access to a reliable internet connection to retrieve unit information, and at times to submit assessment tasks via iLearn.

Consultation with staff

Staff will be available for individual consultations, please see iLearn site for information on staff availability for consultation.

Teaching and Learning Strategy

This unit will have a 2 hour unit specific and 2 hour case-based tutorial every week for 9 weeks as well as a weekly 2 hour bedside tutorial and 2 hour longitudinal lecture series spanning the 3 integrated clinical studies units MEDI8200 MEDI8201, MEDI8202. In addition students will have at least 8 hours per week of immersive clinical experiences in at least 6 of the 9 weeks to enhance their knowledge and skill development. The clinical opportunities across the cohort will vary as they are embedded in real health services, they are designed to teach you general principles and themes. Workshops exploring Aboriginal and Torres Strait Islander culture, history and knowledge will be embedded across the MDA Session.

iLearn

Unit specific content will be located on the **MEDI8200 iLearn site**.

The longitudinal lecture series materials will be located on **Macquare MD Full Year- 2019 Intake iLearn site**

Assessment information will be available on the M**acquarie MD Assessment -2019 Intake iLearn site.**

Logistical and organisational information specific to the cohort will be located on the **Macquarie MD 2019 Intake Noticeboard iLearn Site**

Policy and Guidelines for Macquarie MD will be located on the **MDCU Doctor of Medicine Community iLearn site.**

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
- Academic Integrity Policy
- Academic Progression Policy
- Assessment Policy
- Fitness to Practice Procedure

- Grade Appeal Policy
- Complaint Management Procedure for Students and Members of the Public
- Special Consideration Policy *(**Note:** The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.)*

Students seeking more policy resources can visit the Student Policy Gateway (https://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/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/study/getting-started/student-conduct

Results

Results published on platform other than eStudent, (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

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 help you improve your marks and take control of your study.

- Getting help with your assignment
- Workshops
- StudyWise
- Academic Integrity Module

The Library provides online and face to face support to help you find and use relevant information resources.

- Subject and Research Guides
- Ask a Librarian

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

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.

Changes from Previous Offering

Based on staff and student feedback, teaching blocks have been reduced by 1 week in 2020 and beyond to enable a recess period to be inserted between unit rotations in MDA session.