



MEDI7101

Epidemiology and Biostatistics for Research

Session 1, Special circumstances 2021

Medicine, Health and Human Sciences Faculty level units

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Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

Notice

As part of [Phase 3 of our return to campus plan](#), most units will now run tutorials, seminars and other small group activities on campus, and most will keep an online version available to those students unable to return or those who choose to continue their studies online.

To check the availability of face-to-face activities for your unit, please go to [timetable viewer](#). To check detailed information on unit assessments visit your unit's iLearn space or consult your unit convenor.

General Information

Unit convenor and teaching staff

Unit Convenor

Janaki Amin

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Contact via janaki.amin@mq.edu.au

75 Talavera Road

By appointment only

Credit points

10

Prerequisites

Admission to MRes

Corequisites

Co-badged status

HSYP8101

Unit description

This unit provides an introduction to scientific inquiry and evaluation of evidence fundamental to research and practice with particular reference to public health. You will be introduced to epidemiology, biostatistics, and qualitative methods, via modules designed with an integrated approach to learning in mind. You will learn about study design, analysis, and interpretation. You will also gain an appreciation of the importance of evidence to the field of health research and apply techniques directly to your field of research interest.

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: Calculate and interpret the epidemiologic measures of occurrence; and association between exposure and disease and measures of public health impact

ULO2: Characterise analytic epidemiology study designs and describe the measures associated with these studies.

ULO3: Explain epidemiological and statistical concepts commonly used in public health.

ULO4: Organise, summarise, analyse and interpret data relevant to public health.

General Assessment Information

Information concerning Macquarie University's assessment policy is available at <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/assessment>. Grade descriptors and other information concerning grading requirements are contained in Schedule 1 of the Macquarie University Assessment Policy.

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes and attempt all assessment tasks.

Further details for each assessment task will be available on iLearn, including marking rubrics.

All final grades in the department of Health Systems and Populations are determined by a grading committee and are not the sole responsibility of the Unit Convenor.

Students will be awarded one of these grades plus a Standardised Numerical Grade (SNG). The SNG is not necessarily a summation of the individual assessment components. The final grade and SNG that are awarded reflect the corresponding grade descriptor in Schedule 1 of the Assessment Policy.

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 Disruption to Studies Policy available at <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/disruption-to-studies>.

Late Submission of Work

All assignments which are officially received after the due date, and where no extension has been granted by the course convenor or tutor, will incur a deduction of 5% for the first day including the actual day on which the work is received, and 5% for each subsequent day. Weekends and public holidays are included. Late penalty is capped at 50%. For example:

Due date	Received	Days late	Deduction	Raw mark	Final mark
Friday 14th	Saturday 15th	1	5%	75%	70%
Friday 14th	Monday 17th	3	15%	75%	60%
Friday 14th	Tuesday 25th	11	50% (capped)	75%	25%

Assessment Tasks

Name	Weighting	Hurdle	Due
Introductory concepts	10%	No	Week 4
Critical appraisal	40%	No	Week 11
Final Exam	50%	No	Exam Week

Introductory concepts

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 9 hours

Due: **Week 4**

Weighting: **10%**

Online quiz to examine understanding of introductions epidemiological terms and concepts.

On successful completion you will be able to:

- Calculate and interpret the epidemiologic measures of occurrence; and association between exposure and disease and measures of public health impact
- Explain epidemiological and statistical concepts commonly used in public health.
- Organise, summarise, analyse and interpret data relevant to public health.

Critical appraisal

Assessment Type ¹: Case study/analysis

Indicative Time on Task ²: 34 hours

Due: **Week 11**

Weighting: **40%**

You will choose an epidemiological article relevant to their area of research interest. You will use the knowledge of study designs and their strengths and limitations, to critique their chosen study using an appropriate critical appraisal framework.

On successful completion you will be able to:

- Calculate and interpret the epidemiologic measures of occurrence; and association between exposure and disease and measures of public health impact
- Characterise analytic epidemiology study designs and describe the measures associated with these studies.
- Explain epidemiological and statistical concepts commonly used in public health.

Final Exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 35 hours

Due: **Exam Week**

Weighting: **50%**

Open book exam which will cover epidemiological and statistical concepts covered in the course.

On successful completion you will be able to:

- Calculate and interpret the epidemiologic measures of occurrence; and association between exposure and disease and measures of public health impact
- Characterise analytic epidemiology study designs and describe the measures associated with these studies.
- Explain epidemiological and statistical concepts commonly used in public health.
- Organise, summarise, analyse and interpret data relevant to public health.

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

Unit Organisation

This is a ten credit point unit run over a 13 week session. Further information is available via the MEDI7101 online Learning Management System (LMS) iLearn <http://ilearn.mq.edu>.

Readings

The readings for each week will be listed in iLearn using the Leganto system. Leganto is the reading list management system, which you can access through your iLearn unit. More information on Leganto is available here: <http://libguides.mq.edu.au/leganto>

Readings marked as 'required' are essential for completion in the marked week. Some readings may be included that are marked as 'recommended' or 'secondary sources', these are additional materials that may be of interest to you. Please use these at your discretion.

Technology and equipment

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 join interactive session (eg zoom) or submit assessment tasks via iLearn.

On-campus

Teaching rooms are equipped with state of art audio-visual and ICT equipment including internet connection, high quality video cameras and multiple LCD screens.

Please note that this unit has been altered to accommodate our delivery provisions in compliance with current COVID-19 requirements (Special Circumstance delivery). Learning activities (such as tutorials and other small group learning activities) will be offered on-campus while keeping an online version available for those students who choose to continue their studies online (selected via eStudent).

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.s.mq.edu.au\)](https://policies.s.mq.edu.au). 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](#)

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

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/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.