PSYN840

Neuropsychological Disorders

S1 Day 2019

Department of Psychology

Contents

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General Information

Unit convenor and teaching staff
Senior Lecturer
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Contact via x8012
C3A522
Monday 12.00-2.00, Tuesday 2.00-3.00

Melanie Porter
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Credit points
4

Prerequisites
Admission to MClinNeuro or MClinPsych

Corequisites

Co-badged status

Unit description
This unit is designed as an introduction to common neuropsychological disorders including disorders of memory, adaptive functions, perception, praxis and language. Models of normal and abnormal function and case examples of dysfunction are presented.
This unit is designed to provide insight into how neuropsychological disorders typically manifest. It provides students with an understanding of how functions such as memory, adaptive abilities, perception, praxis and language are typically disrupted as a result of neurological dysfunction. The unit relates to material taught in psychological assessment, professional practice, neuroanatomy and neuropsychopathology.

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:

> Understanding the difference between psychological and neuropsychological assessment

> In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically
>
> In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically
>
> Skill in interpretation of neuropsychological test results including base rate analysis

General Assessment Information

PSYN840 Neuropsychological Disorders

Past Exam Paper

Answer **SIX** of the following nine questions. You have 90 minutes in which to complete this exam.

1. How does the episodic buffer contribute to Baddeley's model of Working Memory? Why the need to introduce this component to the model?

2. Characterise the neuropsychological impairments that are most likely to occur following damage to the dorsolateral prefrontal cortex. What is the likely significance of those deficits on a functional (day to day) level?

3. Describe the language functions that are disrupted and preserved in individuals suffering a transcortical motor aphasia? How would the disorder impact on daily life?

4. Describe the profile of neuropsychological test results that would give rise to a diagnosis of 'frontal amnesia'.

5. A patient is referred for assessment six months after sustaining a traumatic brain injury. What tests would you administer and why?

6. What performance deficits characterise an ideational apraxia? Why would he disorder potentially render a patient at risk of harm?

7. A patient is referred for neuropsychological assessment following a stroke that resulted in a large infarct in the region of the left occipital lobe. Explain what tests you would administer and

why you would choose those particular measures.

8. How would a general amnesic syndrome manifest on a measure such as the WMS-IV?

9. Explain the major differences between psychometric testing and a neuropsychological assessment.

Assessment Tasks

Name	Weighting	Hurdle	Due
Exam - open book	50%	No	Week 13.
Assignment 1	25%	No	27/3/18
Assignment 2	20%	No	7/5/19
Class participation in PP	5%	No	Week 1-13

Exam - open book

Due: **Week 13.**

Weighting: **50%**

Open book examination of 90 minutes duration. The assessment task relates to the following learning outcomes:

Understanding how cognitive functions can be disrupted

Understanding how neuropsychological disorders typically manifest

On successful completion you will be able to:

- In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically
- In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically
- Skill in interpretation of neuropsychological test results including base rate analysis

Assignment 1

Due: **27/3/18**

Weighting: **25%**

Interpretation of neuropsychological test results. The assessment task relates to the following learning outcomes

Understanding the difference between psychological and neuropsychological assessment

Skill in interpretation of neuropsychological test results including base rate analysis

Understanding how cognitive functions can be disrupted

Understanding of how neuropsychological disorders typically manifest

On successful completion you will be able to:

- Understanding the difference between psychological and neuropsychological assessment
- In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically
- In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically
- Skill in interpretation of neuropsychological test results including base rate analysis

Assignment 2

Due: **7/5/19**
Weighting: **20%**

Interpretation of clinical data. The assessment task relates to the following learning outcomes

Understanding the difference between psychological and neuropsychological assessment

Skill in interpretation of neuropsychological test results including base rate analysis

Understanding how cognitive functions can be disrupted

Understanding of how neuropsychological disorders typically manifest

On successful completion you will be able to:

- Understanding the difference between psychological and neuropsychological assessment
- In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically
- In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically
- Skill in interpretation of neuropsychological test results including base rate analysis

Class participation in PP

Due: **Week 1-13**
Weighting: **5%**

Class participation in the Professional Practice Seminar

On successful completion you will be able to:
- Understanding the difference between psychological and neuropsychological assessment
- In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically
- In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically
- Skill in interpretation of neuropsychological test results including base rate analysis

Delivery and Resources

Articles and texts provided during class

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.)*

Undergraduate 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 improve your marks and take control of your study.

- Workshops
- StudyWise
- Academic Integrity Module for Students
- Ask a Learning Adviser

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.

Graduate Capabilities

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

- Understanding the difference between psychological and neuropsychological assessment
- In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically
- In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically

Assessment tasks

- Exam - open book
- Assignment 1
- Assignment 2
- Class participation in PP

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

- Understanding the difference between psychological and neuropsychological assessment
- In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically
- In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically
- Skill in interpretation of neuropsychological test results including base rate analysis

Assessment tasks

- Exam - open book
- Assignment 1
- Assignment 2
- Class participation in PP

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

- Understanding the difference between psychological and neuropsychological assessment
- In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically
- In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically
- Skill in interpretation of neuropsychological test results including base rate analysis

Assessment tasks

- Exam - open book
- Assignment 1
- Assignment 2
- Class participation in PP

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

- In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically
- In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically
- Skill in interpretation of neuropsychological test results including base rate analysis

Assessment tasks

- Exam - open book
- Assignment 1
- Assignment 2

• Class participation in PP

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

• In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically

• Skill in interpretation of neuropsychological test results including base rate analysis

Assessment tasks

• Exam - open book

• Assignment 1

• Assignment 2

• Class participation in PP

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

• Understanding the difference between psychological and neuropsychological assessment

• In depth understanding of how cognitive functions can be disrupted following acquired brain damage that can be applied clinically

• In depth understanding of how neuropsychological disorders typically manifest that can be applied clinically

Assessment tasks

• Exam - open book

• Assignment 1

- Assignment 2
- Class participation in PP