



# PMSC20005 Advanced Assessment, Diagnostic Interpretation and Management

## Term 2 - 2018

Profile information current as at 02/05/2024 07:52 pm

All details in this unit profile for PMSC20005 have been officially approved by CQUUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

### General Information

#### Overview

On completion of this unit you will be able to articulate the relationship between medical conditions, pathophysiology, clinical assessment findings and management in the critical care context. You will be able to advocate for the appropriate use of clinical measurement assessments, demonstrate analysis, and interpret abnormal results with regard to underlying pathophysiology. You will also employ evidence-based knowledge and practice in the management of patients, incorporating the use of clinical problem solving and decision making.

#### Details

Career Level: *Postgraduate*

Unit Level: *Level 8*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

#### Pre-requisites or Co-requisites

Pre-Requisites PMSC20001 Advanced Clinical Assessment and Decision Making Co-requisites PMSC20002 Advanced Critical Skills Application

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

#### Offerings For Term 2 - 2018

- Distance

#### Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

#### Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are:

Click here to see your [Residential School Timetable](#).

#### Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

## Class and Assessment Overview

### Recommended Student Time Commitment

Each 6-credit Postgraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

### Class Timetable

#### [Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

#### [Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

### Assessment Overview

#### 1. **Written Assessment**

Weighting: 30%

#### 2. **On-campus Activity**

Weighting: 50%

#### 3. **Online Quiz(zes)**

Weighting: 20%

### Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

## CQUniversity Policies

**All University policies are available on the [CQUniversity Policy site](#).**

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

## Previous Student Feedback

### Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

#### Feedback from Personal observation; informal student feedback

##### Feedback

Engagement with expert sonographers during residential school

##### Recommendation

Continuing engagement of cross-discipline expertise to facilitate authentic learning experiences for students.

## Unit Learning Outcomes

### On successful completion of this unit, you will be able to:

1. Clearly articulate the relationship between medical conditions, their pathophysiology, clinical assessment findings and management
2. Advocate for the benefits and appropriate use of clinical measurement assessments by critical care paramedics
3. Demonstrate the ability to analyse the results of clinical measurement assessments, identify abnormal results and expand on their underlying pathophysiology
4. Employ evidence-based theoretical knowledge and practice, including skills and interventions, while incorporating the use of clinical problem solving and decision making.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Written Assessment - 30%	•	•	•	
2 - On-campus Activity - 50%			•	•
3 - Online Quiz(zes) - 20%		•		

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Knowledge	◦	◦	◦	◦
2 - Communication	◦	◦		
3 - Cognitive, technical and creative skills	◦	◦	◦	◦

Graduate Attributes	Learning Outcomes			
	1	2	3	4
4 - Research		○		○
5 - Self-management				
6 - Ethical and Professional Responsibility				
7 - Leadership				
8 - Aboriginal and Torres Strait Islander Cultures				

## Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes							
	1	2	3	4	5	6	7	8
1 - Written Assessment - 30%	○	○		○				
2 - On-campus Activity - 50%	○	○	○			○	○	
3 - Online Quiz(zes) - 20%	○		○		○			

## Textbooks and Resources

### Textbooks

**There are no required textbooks.**

#### Additional Textbook Information

A clinical laboratory reference text may be recommended during term, so you can learn the normal ranges of chemistries, blood values, etc. and then apply this knowledge in clinical scenarios. Online links to other relevant texts will also be provided.

### IT Resources

**You will need access to the following IT resources:**

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

## Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)  
For further information, see the Assessment Tasks.

## Teaching Contacts

**Kirsty Shearer** Unit Coordinator  
[k.shearer@cqu.edu.au](mailto:k.shearer@cqu.edu.au)

## Schedule

### Week 1 - 09 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
General assessment & diagnosis		

### Week 2 - 16 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Focused assessment & diagnosis - CNS		

### Week 3 - 23 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Focused assessment & diagnosis - CVS 1		

### Week 4 - 30 Jul 2018

Module/Topic	Chapter	Events and Submissions/Topic
Focused assessment & diagnosis - CVS 2		

### Week 5 - 06 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
Focused assessment & diagnosis - RESP		

### Vacation Week - 13 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 6 - 20 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
Focused assessment & diagnosis - ENDO		

### Week 7 - 27 Aug 2018

Module/Topic	Chapter	Events and Submissions/Topic
Focused assessment & diagnosis - TRAUMA		

### Week 8 - 03 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
Prehospital ultrasound - introduction		<b>Written assessment</b> Due: Week 8 Friday (7 Sept 2018) 11:45 pm AEST

### Week 9 - 10 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
Prehospital ultrasound - FAST		

### Week 10 - 17 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
Focused assessment & diagnosis - GIT		

### Week 11 - 24 Sep 2018

Module/Topic	Chapter	Events and Submissions/Topic
RESIDENTIAL SCHOOL		<b>On-campus activity</b> Due: Week 11 Tuesday (25 Sept 2018) 5:00 pm AEST

### Week 12 - 01 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
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Focused assessment & diagnosis -  
General medical/other

### Review/Exam Week - 08 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
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### Exam Week - 15 Oct 2018

Module/Topic	Chapter	Events and Submissions/Topic
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## Assessment Tasks

### 1 Written assessment

#### Assessment Type

Written Assessment

#### Task Description

##### Preamble

In this written assessment, you will be presented with a simulated case and asked to write an essay exploring the diagnostic information provided and linking this information back to the pathophysiology, patient presentation and possible treatment, with clinical reasoning.

##### Task Description

While working in a regional community you are dispatched at 0300hrs to a high-speed single vehicle motor collision, car versus power-pole. You find a 27yo male trapped by confinement in the driver's seat of the vehicle, with the driver's side against the power-pole. You have the following current information:

- Unknown history or medications, estimated weight 90kg
- Unresponsive, GCS 7 (E 1 V 2 M 4)
- Airway open, RR at 6/min, HR 138/min, BP 84/44mmHg, Temp 35°C
- Physical exam findings include:
  - severe facial trauma with multiple lacerations & abrasions across exposed tissue (with dirt/splinters embedded) & gurgling in the airway with blood present
  - early ecchymosis developing
  - compound fractures to the right radius/ulna
  - shortening of the right leg consistent with a femur fracture and no pedal pulse with some pooling of blood in the foot-well (estimated 750 mL)

Diagnostic values gained from i-STAT (arterial):

- Sodium - 133 mmol/L
- Potassium - 5.6 mmol/L
- Chloride - 93 mmol/L
- Glucose - 8 mmol/L
- Lactate - 2.9 mmol/L
- Creatinine - 130 umol/L
- pH - 7.3
- PCO<sub>2</sub> - 56 mmHg
- PO<sub>2</sub> - 64 mmHg
- Haemoglobin - 95 g/L
- Haematocrit - 42%

You are to write an essay (word limit 3000 words) addressing the following components:

1. Integrate and discuss why each of these diagnostic values may be at their current value relative to the patient's presentation, injuries and case (either why within normal range or not)
2. Explain how the pathophysiology of the injuries caused the diagnostic value changes (either why they are still within normal range or not)
3. Discuss how each of the following treatments would have an impact on the diagnostic values (only if relative to the diagnostic value):

- Fluid boluses totalling 4 litres of 0.9% Sodium Chloride
- Fluid boluses totalling 4 litres of Hartmann's or Compound Sodium Lactate

- Fluid bolus of 2 litres of 0.9% Sodium Chloride and 2 units of packed red blood cells
- Restoration of the pedal pulse through traction of the right leg
- Warming of the patient
- Rapid sequence intubation of the patient, then placing them on a ventilator with the following settings: RR of 16, FiO2 100%, Vt of 500 mL, PEEP 5cm, Pmax 40cm

#### **Assessment Due Date**

Week 8 Friday (7 Sept 2018) 11:45 pm AEST

#### **Return Date to Students**

Week 10 Friday (21 Sept 2018)

Returned to students within 2 week turnaround

#### **Weighting**

30%

#### **Minimum mark or grade**

Minimum mark or grade - A minimum mark of 50% must be achieved on this assessment to pass the unit.

#### **Assessment Criteria**

This assessment is worth 30% of your overall mark for this unit. The written assessment will be assessed using the rubric provided on the unit Moodle page, covering the following areas:

- Presentation & layout – presentation of material, word count etc
- Content – based upon the set questions & use of supportive evidence-based material
- Referencing – use of Harvard referencing, reference list

#### **Referencing Style**

- [Harvard \(author-date\)](#)

#### **Submission**

Online

#### **Submission Instructions**

Please save/upload your file in a Word format (.doc or .docx).

#### **Learning Outcomes Assessed**

- Clearly articulate the relationship between medical conditions, their pathophysiology, clinical assessment findings and management
- Advocate for the benefits and appropriate use of clinical measurement assessments by critical care paramedics
- Demonstrate the ability to analyse the results of clinical measurement assessments, identify abnormal results and expand on their underlying pathophysiology

#### **Graduate Attributes**

- Knowledge
- Communication
- Research

## **2 On-campus activity**

#### **Assessment Type**

On-campus Activity

#### **Task Description**

During the compulsory residential school, you will undertake an assessment task designed to explore your practical and declarative knowledge with regard to prehospital diagnostics learned throughout this unit, including (but not limited to) ultrasound and iStat.

#### **Assessment Due Date**

Week 11 Tuesday (25 Sept 2018) 5:00 pm AEST

This assessment will occur during the residential school on the 24th & 25th September 2018

#### **Return Date to Students**

Week 12 Friday (5 Oct 2018)

Feedback will be uploaded into the unit Moodle page within two weeks

#### **Weighting**

50%

**Minimum mark or grade**

A minimum mark of 50% must be achieved on this assessment to pass the unit.

**Assessment Criteria**

A marking rubric for this assessment task will be provided on the unit Moodle page. Students will have a maximum of two (2) attempts for each component assessed. The assessment will be based on marking criteria covering the following key points:

- Successful completion of each component of the assessment
- Demonstration of each component in a timely manner
- Ability to minimise missed steps or minor errors

You must achieve a pass mark for each component of this assessment (achieve a minimum of 50% for each assessment component). This assessment is worth 50% of the overall mark for this unit.

**Referencing Style**

- [Harvard \(author-date\)](#)

**Submission**

Offline

**Learning Outcomes Assessed**

- Demonstrate the ability to analyse the results of clinical measurement assessments, identify abnormal results and expand on their underlying pathophysiology
- Employ evidence-based theoretical knowledge and practice, including skills and interventions, while incorporating the use of clinical problem solving and decision making.

**Graduate Attributes**

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Ethical and Professional Responsibility
- Leadership

### 3 Online Quiz(zes)

**Assessment Type**

Online Quiz(zes)

**Task Description**

You will be required to complete two (2) online quizzes; the first will close at the end of Week 5; the second at the end of Week 12. The quizzes will open on the Friday of the preceding week to when the quiz is due, and each will have a specific time limit imposed.

The quizzes will be made up of multiple choice questions exploring content based upon the previous weeks of content (including lecture materials, online modules, links & required readings). Quizzes are cumulative and content will aggregate across the term. The quiz will assess your ability to integrate clinical history and assessment with physiological systems and distinguish between pathologies and pathophysiology within a clinical context.

**Number of Quizzes**

2

**Frequency of Quizzes**

Other

**Assessment Due Date**

Quiz 1 will open at 0800hrs AEST on the Friday of Week 4, and close at 2345hrs AEST on the Friday of Week 5. Quiz 2 will open at 0800hrs AEST on the Friday of Week 11 and close at 2345hrs AEST on the Friday of Week 12.

**Return Date to Students**

Quizzes are marked and returned to students after every student has completed each quiz.

**Weighting**

20%

**Minimum mark or grade**

A minimum mark of 50% must be achieved on this assessment to pass the unit.

**Assessment Criteria**

You will be required to answer each question to receive the marks allocated to that question. Non-attempts will score a



zero mark. Quizzes may not be reattempted. This is an individual assessment with no collaboration allowed. Each quiz is worth 10% of your overall mark for this unit. The first quiz must be completed by 2345hrs on the Friday of Week 5; the second quiz must be completed by 2345hrs on the Friday of Week 12. In the absence of an approved extension, there will be no opportunity to complete the task after this date, and there will be no opportunity to apply a late penalty of five percent per day.

**Referencing Style**

- [Harvard \(author-date\)](#)

**Submission**

Online

**Learning Outcomes Assessed**

- Advocate for the benefits and appropriate use of clinical measurement assessments by critical care paramedics

**Graduate Attributes**

- Knowledge
- Cognitive, technical and creative skills
- Self-management

## Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

### What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

### Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

### Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

### What can you do to act with integrity?



#### Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



#### Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



#### Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem