



PMSC13003 *Pharmacology in Paramedic Practice*

Term 1 - 2019

Profile information current as at 20/04/2024 04:35 am

All details in this unit profile for PMSC13003 have been officially approved by CQU University 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

You will develop an understanding of pharmacotherapy in paramedic practice through investigation of the appropriate use of pharmacological interventions in patient management. You will develop knowledge of specific medications common to patients requiring care by paramedics, as well as skills to calculate medication dosages through a series of coursework and case management exercises.

Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre requisites: PMSC12001 Procedures and Skills in Paramedic Care and Co requisites: PHRM19001 Pharmacology and Toxicology or BMSC13010 Pharmacology

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 1 - 2019

- Online

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).

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 Undergraduate 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. **Presentation and Written Assessment**

Weighting: 50%

2. **Online Quiz(zes)**

Weighting: 25%

3. **Online Quiz(zes)**

Weighting: 25%

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 Student feedback via Moodle.

Feedback

New lecture material was very good and the lecture length was perfect.

Recommendation

The twenty minute length lectures remain a favourite with students, as it was last term with previous Lecturers, so all new content will continue to be formatted to this length.

Feedback from Student feedback via Moodle and email.

Feedback

Presentation of pathophysiology material for each weekly topic preceding lectures on drug therapy protocols for that topic was very useful in helping to link patient presentation with treatment.

Recommendation

This approach gained great feedback over term three with the previous Lecturers, and will continue to be implemented for this unit.

Feedback from Student feedback via Moodle.

Feedback

Zoom sessions were engaging - students wish to have more of these sessions recorded.

Recommendation

Students had clinical placement during term one and responded via a survey earlier in the term stating that they would rather Zoom sessions be held back until they finished placement so that they could participate in more sessions. This was done, with sessions recorded, but many still did not attend. Greater participation is expected for the term three offering as students will not have other units to complete or placements to attend over the summer period.

Feedback from Student feedback via Moodle and email.

Feedback

Students appreciated the opportunity to submit the major written assessment piece as a draft to the Lecturer for general feedback on areas to improve.

Recommendation

This initiative was very helpful for students, encouraging them to get started on the major (50% value) task early, and enabling them to refine their submission in response to generalised feedback. It was however very time consuming for the Lecturer, so if offered again it will be subject to an earlier deadline for draft submission.

Feedback from Student feedback via Moodle and email.

Feedback

Students question the learning value of a major task with 50% value that is not directly related to a drug in current use within Australia.

Recommendation

This task required students to think more broadly around the requirements for drug introduction and use within ambulance services, with a focus more upon critical thinking, research, and presentation skills than a requirement to learn that particular drug itself. The task will however be reformatted for the term three offering to centre more upon clinical decision-making and clinical judgement in prehospital pharmacology.

Unit Learning Outcomes

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

1. Describe the indications, pharmacokinetics, actions, routes of administration, contraindications, side effects and precautions of medications and fluids administered by paramedics, and how you would evaluate the effects of administration
 2. Correctly calculate drug doses for the administration of paramedic medications
 3. Discuss the implications of renal or hepatic dysfunction, pregnancy and extremes of age on drug administration in the paramedic context
 4. Research and justify the most effective pharmacological treatment options in the pre-hospital context.
1. The educational institution **must** demonstrate it has developed a paramedic education course that provides students with the educational base for a graduate appropriate to the level of qualification to be attained, the specified level of competence to meet the requirements for employment as an entry level paramedic.
 2. The educational course / curriculum requirements for work readiness **must** be determined by the curriculum / course development committee through consultation with all major stakeholders in particular, the principal ambulance services in Australia and New Zealand represented by the CAA.
 3. The educational course / curriculum requirements to meet the work readiness requirements of the principal ambulance services in Australia and NZ and **should** be reviewed on a regular basis as part of a formal paramedic education course review process.
 4. Given the complex nature of out of hospital, unscheduled care and the diversity of health care situations encountered, Paramedics **must** be well educated, skilled and knowledgeable practitioners in a range of subjects and be able to appraise and adopt an enquiry-based approach to the delivery of care
 5. Paramedic education courses **should** produce graduates with an educational base and attributes appropriate to the level of qualification attained and specified level of competence required. These objectives and attributes **must** be clearly described for each course being assessed.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Presentation and Written Assessment - 50%	•			•
2 - Online Quiz(zes) - 25%		•		
3 - Online Quiz(zes) - 25%	•		•	

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Communication	•		•	•
2 - Problem Solving			•	•

Graduate Attributes	Learning Outcomes			
	1	2	3	4
3 - Critical Thinking	•	•	•	•
4 - Information Literacy	•		•	•
5 - Team Work				
6 - Information Technology Competence	•		•	•
7 - Cross Cultural Competence				
8 - Ethical practice	•			•
9 - Social Innovation				
10 - 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	9	10
1 - Presentation and Written Assessment - 50%	•	•	•	•		•		•		
2 - Online Quiz(zes) - 25%			•	•						
3 - Online Quiz(zes) - 25%	•	•	•	•				•		

Textbooks and Resources

Textbooks

PMSC13003

Prescribed

Pharmacology for Health Professionals

Edition: 5 (2019)

Authors: Bryant, Knights, Darroch, & Rowland

Elsevier

Chatswood , NSW , Australia

ISBN: 978-0-7295-4275-3

Binding: Paperback

Additional Textbook Information

This fifth edition is only newly released; for those who have already purchased their text, the previous version (4E) remains suitable to use.

If you are looking for the new edition, it is available at the CQUni Bookshop here: <http://bookshop.cqu.edu.au> (search on the Unit code)

[View textbooks at the CQUniversity Bookshop](#)

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: [American Psychological Association 6th Edition \(APA 6th edition\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Lisa Hurring Unit Coordinator

l.hurring@cqu.edu.au

Schedule

Week 1 - 11 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Foundations of pharmacology: <ul style="list-style-type: none">• Dosage measurements and calculations• Pharmacodynamics and drug action• Pharmacokinetics and metabolism	Textbook: <ul style="list-style-type: none">• Chapter 1: Dosage measurements & calculations, pp.21-30• Chapter 5: Molecular aspects of drug action & pharmacodynamics, pp.127-140.• Chapter 6: Drug absorption, distribution, metabolism & excretion, pp.141-161	

Week 2 - 18 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Adverse drug reactions & drug interactions Special considerations affecting pharmacokinetics: <ul style="list-style-type: none">• Geriatrics• Hepatic dysfunction• Paediatrics• Pregnancy• Renal failure• Shock	Textbook: <ul style="list-style-type: none">• Chapter 10: Adverse drug reactions & drug interactions, pp.203-215• Chapter 9: Individual and lifespan aspects of drug therapy, pp.188-202	

Week 3 - 25 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
The home pharmacy The essentials: <ul style="list-style-type: none">• Adrenaline• Oxygen• Sodium chloride 0.9%• Water for injection	Textbook: <ul style="list-style-type: none">• Chapter 3: OTC and complementary therapies, pp. 62-71 (read to end OTC section)• Chapter 12: Adrenaline monograph, pp.240-241 QAS DTPs: <ul style="list-style-type: none">• Adrenaline• Oxygen• Sodium chloride 0.9%• Water for injection	

Week 4 - 01 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Analgesics: <ul style="list-style-type: none">• Fentanyl• Ibuprofen• Methoxyflurane• Morphine• Paracetamol	Textbook: <ul style="list-style-type: none">• Chapter 15: Analgesics, pp.308-339 QAS DTPs: <ul style="list-style-type: none">• Fentanyl• Ibuprofen• Methoxyflurane• Morphine• Paracetamol	

Week 5 - 08 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
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Cardiovascular drugs:

- Adrenaline (review)

- Glyceryl trinitrate

Anti-platelet drugs:

- Aspirin

- Clopidogrel

- Ticagrelor

Anti-coagulants:

- Enoxaparin

- Heparin

Fibrinolytics:

- Tenecteplase

Textbook:

- Chapter 12: Adrenaline monograph, pp.240-241 (review)

- Chapter 15: Aspirin, pp.329-330 (review)

- Chapter 23: Drugs affecting vascular smooth muscle, pp.513-518 (read up to end of GTN)

- Chapter 26: Drugs affecting thrombosis & haemostasis, pp. 573-591

QAS DTPs:

- Adrenaline (review)

- Aspirin

- Clopidogrel

- Enoxaparin

- Glyceryl trinitrate

- Heparin

- Tenecteplase

- Ticagrelor

Vacation Week - 15 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 22 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
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Respiratory drugs:

- Salbutamol

- Ipratropium bromide

- Hydrocortisone

Textbook:

- Chapter 28: Drugs used in respiratory disorders, pp.601-608 (read up to end oxygen therapy);

- pp.611-617 (read up to end salbutamol monograph)

QAS DTPs:

- Hydrocortisone

- Ipratropium bromide

- Salbutamol

Week 7 - 29 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
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Neurological drugs & antibiotics:

- Ceftriaxone

- Droperidol

- Midazolam

- Naloxone

Textbook:

- Chapter 16: Antianxiety, sedative & hypnotic drugs, pp.345-350 (read only benzodiazepines section)

- Chapter 17: Antiepileptic drugs, pp.356-362 (read to end special situations section)

- Chapter 44: Antibacterial drugs, pp.931-3 (read to end cephalosporins section)

- Chapter 44: Antibacterial drugs, pp.931-3 (read to end cephalosporins section)

QAS DTPs:

- Ceftriaxone

- Droperidol

- Midazolam

- Naloxone

Week 8 - 06 May 2019

Module/Topic	Chapter	Events and Submissions/Topic
Endocrine & anti-emetic drugs: <ul style="list-style-type: none"> • Glucagon • Glucose gel • Glucose 10% • Ondansetron 	Textbook: <ul style="list-style-type: none"> • Chapter 36: Endocrine pancreas & diabetes mellitus, pp.756-765 (read to end treatment with hyperglycaemic agents section) • Chapter 29: Drugs affecting upper GI tract, pp.650-653 (read to end 5-HT3 agonists) QAS DTPs: <ul style="list-style-type: none"> • Glucagon • Glucose gel • Glucose 10% • Ondansetron 	Written report and poster presentation Due: Week 8 Monday (6 May 2019) 11:55 pm AEST
Week 9 - 13 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Other drugs: <ul style="list-style-type: none"> • Box jellyfish antivenom • Magnesium sulphate • Hydroxocobalamin • Loratadine • Oxytocin 	extbook: <ul style="list-style-type: none"> • Chapter 51: Envenomation & anti-venoms, pp.1088-1090 (marine envenomation section only) • Chapter 33: Neuroendocrine & pituitary gland, pp.723-724 (oxytocin section only) QAS DTPs: <ul style="list-style-type: none"> • Box jellyfish antivenom • Magnesium sulphate • Hydroxocobalamin • Loratadine • Oxytocin 	Drug Calculation Quiz opens
Week 10 - 20 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Exploring the CCP drugkit	No further readings	Drug Calculation Quiz Due: Week 10 Friday (24 May 2019) 11:55 pm AEST
Week 11 - 27 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
No further content - focus on quiz completion	No further readings	Short Answer Quiz opens
Week 12 - 03 Jun 2019		
Module/Topic	Chapter	Events and Submissions/Topic
		Short Answer Quiz Due: Week 12 Friday (7 June 2019) 11:55 pm AEST
Review/Exam Week - 10 Jun 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 17 Jun 2019		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Written report and poster presentation

Assessment Type

Presentation and Written Assessment

Task Description

Background:

Ambulance services have historically followed a medical model for determining future clinical direction, often deferring to a medical advisory board or medical director to determine suitable new skills, procedures, or pharmacology. Since the introduction of tertiary paramedic education, and due to the increasing professionalisation of our discipline, there has been a shift in thinking towards paramedics researching and determining their own destiny in a clinical sense. It is therefore becoming an important skill for paramedics to be able to look at current research and new trends, and to analyse the evidence base to determine whether or not this research should influence our practice, or whether a new skill, procedure, or pharmacology should be adopted into use.

Task introduction:

You have been tasked by a medical advisory board to review and propose the introduction of a new drug into the already extensive armament of drugs on offer in your chosen ambulance service. You can either choose a completely new drug not currently used by your service or you can research a drug currently used by another ambulance service for introduction into your service. **Adenosine and Entonox are not permitted for this task.**

The drug you choose must be approved by the Therapeutic Goods Administration of Australia (TGA), not the FDA or any other international agency. If you choose a drug already used by another service please note that you cannot simply alter the indications or the route of administration for that drug - this is not sufficient for this task. The medical advisory board would like for you to report on the introduction of this drug into the ambulance service and therefore require two parts to this proposal as follows:

PART A: Literature review (25%)

You are required to review recent (no greater than 5-10 years) literature for research articles (aim for a minimum of 5 articles) in relation to this drug of choice. Seek literature related to the context of use, i.e. suitability of this drug for use in the pre-hospital / emergency medicine setting.

You will review the information within this literature, critique, and discuss the findings. As a minimum your report should include the following:

- Introduction: Background and your report aim.
- Research methodology: Identify the search methodology and which databases you used. Your methods should be sufficient to enable the reader to replicate your study.
- Results: What did you find in your literature review? Present concise summary of your findings, noting important factors such as any limitations to the studies you used.
- Discussion: What conclusions can be drawn from the studies? Synthesise your research findings (your results) to justify your DTP introduction. Consider too the implications of introducing this drug into paramedic practice, for example, do you need to cease the use of one drug for the introduction of another? Are there any cost/equipment implications?
- Drug Therapy Protocol: Develop a new DTP for your drug of choice. This may be included within the body of your report or as an appendix, and must be fully cited.
- Conclusion: Summarise your findings and state your recommendations. Remember no new information or citations in the conclusion!
- Word limit is 1800 words +/-10%, excluding title page, in-text citations, your DTP, and the reference list.

PART B: Poster presentation (25%)

Using the information collected in Part A, you are required to develop a scientific poster about your drug of choice.

Approach this as though intending for the poster to be posted around ambulance stations, i.e. providing information on the new drug and the research underlying its introduction as a new DTP, as an informational and visual adjunct to training. This poster is presenting your report findings in a different format for a different audience, therefore you must rewrite your findings to better suit the poster context; do not simply paste in sections of your written report!

Your word limit is 800 words +/-10%, excluding in-text citations, the DTP, and the reference list. Remember that information on posters must be concise and clear, as a summary of the most pertinent information, and that too much text will overwhelm and decrease impact. Refer to the assessment page in Moodle for full requirements, exemplars, and rubric.

Assessment Due Date

Week 8 Monday (6 May 2019) 11:55 pm AEST

Due 2355hrs on Monday of Week Eight

Return Date to Students

Week 10 Monday (20 May 2019)

Returned Monday of Week Ten (two weeks turnaround)

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

A marking rubric for both parts of this assessment task together with exemplar material will be provided below for reference. This task is worth 50% of your overall mark. You must attain a minimum mark of 50% for this task to pass, and you must pass this task to pass the unit.

Part A: Literature review (25%)

- Presentation and layout: information presented in a clear & logical sequence; content clearly written in academic style; conforms to word count; abbreviations & diagrams are appropriate where used; layout formatting of report body is consistent and correct APA style; cover page included identifying word count (excluding citations, reference list, and DTP)
- Content: required subsections are present; selected drug meets criteria and is appropriate for introduction into prehospital use; current relevant literature used; results succinctly present literature review findings; discussion considers implications of findings for report aim and gives recommendations; concise conclusion
- Drug therapy protocol: fully cited with all information included; effective layout; concise and unambiguous language
- Referencing: all sources referenced appropriately throughout this task in correct APA style.
- File format: Submitted as Word document.

Part B: Poster presentation (25%)

- Presentation: Effective presentation of the scientific poster in terms of layout and use of visual content
- Content: Repurposes the content and findings of the literature review for the poster context and format; content must be rewritten for the new format and audience; poster must include required sections / content, though these may be renamed or recomposed as desired
- Referencing: Consistently accurate with in text and referencing list protocols in line with the APA system of referencing.
- Details: Include your name, student number, and the word count excluding citations, the DTP, and the reference list.
- File format: Submitted as PDF file.

Please refer to the Moodle assessment pages for further information, including rubric, exemplars, and instructional videos.

All submissions are subject to review of the associated Turnitin report.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Online

Submission Instructions

Please submit via Moodle assessment page. Submit Part A (Written Report) as a Word document, and Part B (Poster) as PDF.

Learning Outcomes Assessed

- Describe the indications, pharmacokinetics, actions, routes of administration, contraindications, side effects and precautions of medications and fluids administered by paramedics, and how you would evaluate the effects of administration
- Research and justify the most effective pharmacological treatment options in the pre-hospital context.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Ethical practice

2 Drug Calculation Quiz

Assessment Type

Online Quiz(zes)

Task Description

For this assessment task you are required to complete an online quiz. The quiz will be made up of case based management exercises that include drug calculations in accordance with the Queensland Ambulance Service Drug Therapy Protocols.

The quiz will become available on Monday of Week 9, and must be completed by Friday of Week 10. You will have a specific time limit imposed to complete the quiz. Please refer to the assessment page in Moodle for an example practice quiz from previous terms that you can use to experience the quiz format, layout, and time limit.

Number of Quizzes

1

Frequency of Quizzes

Other

Assessment Due Date

Week 10 Friday (24 May 2019) 11:55 pm AEST

Due 2355hrs on Friday of Week Ten

Return Date to Students

Week 12 Friday (7 June 2019)

Returned Friday of Week Twelve (two weeks turnaround)

Weighting

25%

Minimum mark or grade

50%

Assessment Criteria

- You will be required to answer each question at an Advanced Care Paramedic Two level (ACP2).
- In order to achieve the full marks allocated to that question you must complete the question fully and you must include any drug calculations in your answer.
- Please ensure that you read the question carefully. Some questions may ask you to give your answer as a dosage or as a volume to be given to the patient.
- This quiz is worth 25% of your overall mark.
- You must achieve a minimum pass mark of 50% to pass this assessment, and you must pass this assessment to pass the unit.
- You will only be given one attempt for this quiz.
- You will have a time limit of 90 minutes to complete the quiz.
- When time expires, any open attempts are automatically submitted.
- For this assessment task no late submissions will be accepted and the quiz will become unavailable after the due date and time.
- In the absence of an approved extension, there will be no opportunity to complete the task after this date, nor opportunity to apply a late penalty of five percent per day.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Online

Submission Instructions

Online quiz submission in Moodle

Learning Outcomes Assessed

- Correctly calculate drug doses for the administration of paramedic medications

Graduate Attributes

- Critical Thinking
- Information Literacy

3 Short Answer Quiz

Assessment Type

Online Quiz(zes)

Task Description

For this assessment task you will complete an online quiz. The quiz comprises short answer questions related to the material offered in this unit. Where drug calculations are required these will be in accordance with the Queensland Ambulance Service Drug Therapy Protocols at ACP2 level.

The quiz will become available on Monday of Week 11, and must be completed by Friday of Week 12. You will have a specific time limit imposed to complete the quiz.

Number of Quizzes

1

Frequency of Quizzes

Other

Assessment Due Date

Week 12 Friday (7 June 2019) 11:55 pm AEST

Due 2355hrs on Friday of Week Twelve

Return Date to Students

Exam Week Friday (21 June 2019)

Returned Friday of Exam Week (two weeks turnaround)

Weighting

25%

Minimum mark or grade

50%

Assessment Criteria

- You will be required to answer each question at an Advanced Care Paramedic Two level (ACP2).
- In order to achieve the full marks allocated to that question you must complete the question fully and you must include any drug calculations in your answer.
- Please ensure that you read the question carefully. Some questions may ask you to give your answer as a dosage or as a volume to be given to the patient.
- This quiz is worth 25% of your overall mark.
- You must achieve a minimum pass mark of 50% to pass this assessment.
- You will only be given one attempt for this quiz.
- You will have a time limit of 90 minutes to complete the quiz.
- When time expires, any open attempts are automatically submitted.
- For this assessment task no late submissions will be accepted and the quiz will become unavailable after the due date and time.
- In the absence of an approved extension, there will be no opportunity to complete the task after this date, nor opportunity to apply a late penalty of five percent per day.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Online

Submission Instructions

Online quiz submission in Moodle

Learning Outcomes Assessed

- Describe the indications, pharmacokinetics, actions, routes of administration, contraindications, side effects and precautions of medications and fluids administered by paramedics, and how you would evaluate the effects of administration
- Discuss the implications of renal or hepatic dysfunction, pregnancy and extremes of age on drug administration in the paramedic context

Graduate Attributes

- Communication
- Problem Solving

- Critical Thinking
- Information Literacy
- Ethical practice

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