

# Unit Outline (Higher Education)

<b>Institute / School:</b>	Institute of Health and Wellbeing
<b>Unit Title:</b>	CARDIOVASCULAR AND RESPIRATORY FOCUSED PHYSIOTHERAPY
<b>Unit ID:</b>	NHPPS2024
<b>Credit Points:</b>	15.00
<b>Prerequisite(s):</b>	(NHPPS2013 and NHPPS2113)
<b>Co-requisite(s):</b>	(NHPPS2124)
<b>Exclusion(s):</b>	Nil
<b>ASCED:</b>	061701

## Description of the Unit:

The unit provides physiotherapy students with an introduction to acute care issues as they relate to physiotherapy practice. Students apply their knowledge of body systems, particularly the cardiopulmonary system, gained in the Anatomy and Physiology units, to the analysis of clinical cases commonly seen across the lifespan in the acute health care setting. Students acquire assessment and intervention skills and further develop clinical reasoning abilities.

This unit contains 10 hours of Professional Experience Placement

**Grade Scheme:** Graded (HD, D, C, P, MF, F, XF)

## Work Experience:

Not wholly work experience: Student is not undertaking work experience in industry or student is undertaking work experience in industry where learning and performance is directed by the provider.

**Placement Component:** Yes

**Supplementary Assessment:** Yes

Where supplementary assessment is available a student must have failed overall in the Unit but gained a final mark of 45 per cent or above, has completed all major assessment tasks (including all sub-components where a task has multiple parts) as specified in the Unit Description and is not eligible for any other form of supplementary assessment

**Course Level:**

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Introductory	■	■	■	■	■	■
Intermediate	■	■	✓	■	■	■
Advanced	■	■	■	■	■	■

### Learning Outcomes:

#### Knowledge:

- K1.** Understand the impact of acute and chronic cardiorespiratory dysfunction on functional capacity and describe the implications for adult and paediatric acute care/ cardiorespiratory physiotherapy through the care continuum using sound clinical reasoning skill
- K2.** Explain the physiological rationale for the application of selected physiotherapy treatment techniques for adult and paediatric acute, subacute, and chronic care/cardiorespiratory patients

#### Skills:

- S1.** Demonstrate proficient and safe professional performance of selected physiotherapy techniques for individuals in an acute, subacute, and chronic care setting
- S2.** Develop appropriate physiotherapy relevant problem lists for individuals who have cardiorespiratory dysfunction
- S3.** Demonstrate an introductory understanding of appropriate physiotherapy treatment techniques for paediatric cardiorespiratory presentations

#### Application of knowledge and skills:

- A1.** Relate the structure and function of body systems to key illnesses and diseases seen in the acute, subacute, and chronic care setting to establish assessment findings and justify appropriate clinical interactions for patients across the lifespan
- A2.** Evaluate the literature relevant to a selected cardiac or pulmonary condition and utilising sound written communication skills, relate the findings to rehabilitation for this condition, in a timely manner

#### Unit Content:

Topics may include:

- Anatomy of the cardiorespiratory system
- Objective assessment
- Radiology - chest x-ray
- Respiration & ventilation
- Pulmonary function testing and MDI
- Integration of assessment, developing a problem list
- Gas exchange, ventilation/perfusion, alveolar hypoventilation and increasing ventilation
- Mucociliary clearance techniques
- Case Scenarios including abdominal surgery, respiratory conditions and other surgeries
- Exercise including pulmonary and cardiac rehabilitation
- Development of a treatment plan and evaluation
- Neonatal/ paediatric lung conditions
- Clinical reasoning
- Simulation

**Learning Task and Assessment:**

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1, K2, S1, S2, A1, A2	Tutorial participation and collaborative learning	Participation & resource contribution	5-20%
K1, K2, S2, A1, A2	Written presentation on concepts from classroom and laboratory sessions	Presentation/Essay	20-30%
K1, K2, S1, S2, S3, A1, A2	Skills Mastery	Practical Assessment	S/U
K1, K2, S1, S2, S3, A1, A2	Practical assessment of concepts and skills from workshop sessions	Practical Exams	25-40%
K1, K2, S1, S2, S3, A1, A2	Content from classroom and laboratory sessions	Written Final Examination	25-40%

**Adopted Reference Style:**

APA

Refer to the [library website](#) for more information

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