

Module Code:	PHY501
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Module Title:	Cardiorespiratory Physiotherapy and Rehabilitation
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Level:	5	Credit Value:	20
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Cost Centre(s):	GAPT	<u>JACS3</u> code:	B160
		<u>HECoS</u> code:	100252

Faculty	Social and Life Sciences	Module Leader:	Julie Wilkins
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Scheduled learning and teaching hours	45 hrs
Guided independent study	155 hrs
Placement	0 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered (not including exit awards)	Core	Option
BSc (Hons) Physiotherapy	✓	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

Pre-requisites

Office use only

Initial approval: 24/05/2019
 With effect from: 23/09/2019
 Date and details of revision:

Version no: 1

Version no:

Module Aims

To enable students to apply anatomy, physiology and pathology to develop problem solving skills in the assessment and rehabilitation of cardiorespiratory conditions across a variety of settings.

Intended Learning Outcomes

Key skills for employability

- KS1 Written, oral and media communication skills
- KS2 Leadership, team working and networking skills
- KS3 Opportunity, creativity and problem solving skills
- KS4 Information technology skills and digital literacy
- KS5 Information management skills
- KS6 Research skills
- KS7 Intercultural and sustainability skills
- KS8 Career management skills
- KS9 Learning to learn (managing personal and professional development, self-management)
- KS10 Numeracy

At the end of this module, students will be able to**Key Skills**

1	Integrate the cardiorespiratory physiology, anatomy and normal values to the physiotherapy assessment, treatment and rehabilitation for cardiorespiratory conditions.	KS1	KS2
		KS3	KS5
		KS6	KS8
2	Demonstrate an understanding of the pathology of and physiotherapy for cardiorespiratory conditions	KS1	KS2
		KS3	KS6
		KS8	
3	Demonstrate, analyse and justify the use of a selection of examination, treatment techniques and outcome measures used in the physiotherapy management for cardiorespiratory conditions.	KS2	KS3
		KS7	KS8
		KS9	KS10
4	Discuss the general and physiotherapy management with cardiorespiratory patients including the role and input of the multi-disciplinary team	KS1	KS2
		KS3	KS7
		KS8	KS9
5	Discuss the role of the physiotherapist in cardiorespiratory care across a range of settings and the psychological, social and emotional effects of these conditions.	KS1	KS2
		KS3	KS7
		KS8	KS9

Transferable skills and other attributes

By the end of the module the student will demonstrate:

Professional skills
Team working
Communication skills
Reflective skills
Inter-professional working

Derogations

Students are permitted a maximum of two attempts in any modules
A minimum pass mark of 40% must be achieved in all modules, therefore condonement is not permitted

Assessment:

Indicative Assessment Tasks:

Justified Objective Structured practical examination – students will demonstrate their ability to carry out practical skills of assessment and treatment in a clinical scenario for 15 minutes, followed by a 15-minute discussion to demonstrate their knowledge of the pathology, clinical reasoning, wider patient management and social and psychological factors relevant to the case. Students will be provided with the clinical scenario on the day and allowed 15-minute preparation time.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration or Word count (or equivalent if appropriate)
1	1 -5	Justified OSPE	100%	30 Minutes

Learning and Teaching Strategies:

The delivery of this module will consist of lectures, interactive classroom sessions, tutorials, group and practical sessions. In order to provide sufficient contact time to develop and refine practical skills of assessment and treatment, the contact time for this module provides an additional 6 hours above the recommended amount for level 5.

It is intended that the module will provide support to students throughout the module; however, students will be encouraged to become increasingly autonomous as they gain competence and confidence within their studies.

A flipped classroom approach will be used to move the learning of essential content such as normal anatomy and dysfunction so that application can be transparently consolidated.

All learning and teaching is supported by the University's virtual learning environment Moodle and students will be able to access clear and timely information to support delivery of content such as videos, links to intranet information, open forums and pre-recorded lectures.

Syllabus outline:

Cardiorespiratory physiotherapy is a core skill for physiotherapists in all care settings, working with critically ill patients in intensive care to patients with chronic respiratory disease in the community. This module designed to prepare students with the assessment and treatment skills to apply in all settings.

The module will cover the pathology and physiotherapy of the common cardiac and respiratory conditions such as:

COPD, asthma, bronchiectasis and CF

Cardiovascular disease

Heart disease

Myocardial infarction

Patients undergoing major thoracic and abdominal surgery

type 1 and 2 respiratory failure

Students will learn assessment and treatment skills such as:

Auscultation and palpation of the chest

ABGs

Interpretation of CXR

Fluid balance

Charts

Evaluation of the surgical patients' risk of post-operative respiratory complications

ACBT and other airway clearance techniques

Management of the tracheostomy

Outcome measures relevant to cardiorespiratory physiotherapy

PR and CR

The module will also consider the wider management of patient including topics such as ventilation, pharmacology and anaesthesia and telemetry.

This module will enable students to consider the management of patients with chronic cardiac and respiratory conditions and the psychological and social impacts on patients.

Indicative Bibliography:**Essential reading**

Harden, B., Cross, J, Broad, M., Quint, M., Ritson, P and Thomas, S. (2009), Respiratory Physiotherapy: An On-call Survival Guide, 2nd Ed. London: Churchill

Hough, A. (2018), Cardiorespiratory Care: An Evidence Based, Problem-Solving Approach, 5th ed. Edinburgh: Elsevier.

Main, E. and Denehy, L. (2016), Cardiorespiratory Physiotherapy: Adults and Paediatrics, 5th ed. London: Elsevier.

Other indicative reading



