

Technical Training for Exercise Physiology

Module Information

2022.01, Approved

Summary Information

Module Code	7101SPOSCI
Formal Module Title	Technical Training for Exercise Physiology
Owning School	Sport and Exercise Sciences
Career	Postgraduate Taught
Credits	40
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Sport and Exercise Sciences

Learning Methods

Learning Method Type	Hours
Lecture	36
Practical	14
Tutorial	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	The aim of this module is provide the student with the knowledge, technical and critical appraisal skills required to work as an effective clinical physiologist. The module will focus on the practical skills required for the assessment of patients with non-communicable diseases at rest and during exercise.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically evaluate the effects of exercise on physiological responses and pathophysiological processes in a variety of non-communicable diseases.
MLO2	2	Screen, assess and stratify patients with non-communicable diseases according to their risk of performing exercise including contraindications
MLO3	3	Interpret clinical exercise physiological assessments in health and disease
MLO4	4	Explain and assess the skills involved in emergency procedures and management.

Module Content

Outline Syllabus	Resting and exercise cardiovascular assessments (e.g. blood pressure, 12-lead ECG).Respiratory assessments at rest and exercise (e.g. Peak flow, CPEX).Measurements of metabolic health. Novel measurements of human physiology (e.g. 3D echocardiography, vascular ultrasound).
Module Overview	The aim of this module is to provide the knowledge, technical and critical appraisal skills required to work as an effective clinical physiologist. The module focuses on the practical skills required for the assessment of patients with non-communicable diseases at rest and during exercise. Techniques include 12-lead ECG, resting and exercise blood pressure, CPEX, respiratory function tests and an introduction to novel cardiac and vascular ultrasound measurements.
Additional Information	Technical Training for Exercise Physiology offers the student the opportunity to develop the skills required to become a competent and effective clinical physiologist. Theory and practical workshops using internal and external specialists will offer extensive practical exposure to a broad range of skills.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Literature Review	50	0	MLO1, MLO2, MLO4
Practice	Practical exam	50	0	MLO1, MLO3, MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings

Greg Whyte	Yes	N/A
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Partner Module Team

Contact Name	Applies to all offerings	Offerings
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