

Summary Information

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|----------------------------|-----------------------------|
| Module Code | 7171SPOSCI |
| Formal Module Title | Pathophysiology |
| Owning School | Sport and Exercise Sciences |
| Career | Postgraduate Taught |
| Credits | 20 |
| Academic level | FHEQ Level 7 |
| Grading Schema | 50 |

Module Contacts

Module Leader

| Contact Name | Applies to all offerings | Offerings |
|--------------|--------------------------|-----------|
| Ellen Dawson | Yes | N/A |

Module Team Member

| Contact Name | Applies to all offerings | Offerings |
|-----------------|--------------------------|-----------|
| Dick Thijssen | Yes | N/A |
| Matthew Cocks | Yes | N/A |
| David Low | Yes | N/A |
| David Oxborough | Yes | N/A |

Partner Module Team

| Contact Name | Applies to all offerings | Offerings |
|--------------|--------------------------|-----------|
|--------------|--------------------------|-----------|

Teaching Responsibility

| LJMU Schools involved in Delivery |
|-----------------------------------|
| Sport and Exercise Sciences |

Learning Methods

| Learning Method Type | Hours |
|----------------------|-------|
| Lecture | 20 |
| Practical | 10 |
| Tutorial | 10 |

Module Offering(s)

| Offering Code | Location | Start Month | Duration |
|---------------|----------|-------------|----------|
| JAN-CTY | CTY | January | 12 Weeks |

Aims and Outcomes

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|-------------|--|
| Aims | This module will mainly focus on the pathophysiological processes underlying several non-communicable diseases. The main focus will be on cardiovascular disease, respiratory diseases and metabolic diseases. The role of exercise in primary and secondary prevention and treatment of these diseases will be discussed. |
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Learning Outcomes

After completing the module the student should be able to:

| Code | Description |
|------|---|
| MLO1 | Evaluate the data describing the pathological basis for major non-communicable diseases |
| MLO2 | Synthesise the data to describe the incidence, diagnosis, treatment and prevention of major non-communicable diseases |
| MLO3 | Analyse the data examining the effects of exercise on physiological responses and pathophysiological processes |
| MLO4 | Critically evaluate research evidence concerning exercise in the secondary prevention of non-communicable diseases |

Module Content

Outline Syllabus

Cardiovascular diseases: pathophysiology
Cardiovascular diseases: drugs
Respiratory diseases: pathophysiology
Respiratory diseases: drugs
Metabolic diseases: pathophysiology
Metabolic diseases: drugs

Module Overview

This module focuses on the pathophysiological processes underlying several non-communicable diseases. The main focus is on cardiovascular disease, respiratory diseases and metabolic diseases. The role of exercise in primary and secondary prevention and treatment of these diseases is discussed. The module follows on from the Advanced Exercise Physiology module and then leads onto the Exercise Prescription and Promotion module to provide a full understanding of the physiological system, how diseases can develop and how to best treat them using exercise.

Additional Information

This module will follow on from the 'Advanced Exercise Physiology module' and then lead into 'Exercise Programming' so that students will have a full understanding of the physiological system, how diseases can develop and how to best treat them using exercise. The module will focus on non-communicable diseases, examining the role of exercise in their treatment and the interactive effect of the disease and pharmacotherapy on exercise capacity and prescription. This module will draw together current theory and practice to provide the student with a broad understanding of non-communicable diseases for the clinical exercise physiologist. This will be delivered in a 4-week block. The presentation assessment will be at the end of the module in a presentation which covers 7171SPOSCI, 7172SPOSCI and 7174SPOSCI.

Assessments

| Assignment Category | Assessment Name | Weight | Exam/Test Length (hours) | Learning Outcome Mapping |
|---------------------|-------------------------|--------|--------------------------|--------------------------|
| Report | Patient Pathway | 50 | 0 | MLO3, MLO1, MLO4, MLO2 |
| Practice | Case Study Presentation | 50 | 0 | MLO3, MLO1, MLO4, MLO2 |