Nutrition, Metabolism and Reproduction 1

Module Code: PHA5004-C  
Academic Year: 2018-19  
Credit Rating: 30  
School: School of Pharmacy and Medical Sciences  
Subject Area: Pharmacy  
FHEQ Level: FHEQ Level 5  
Module Leader: Dr Bishwa Tuladhar

Additional Tutors: Dr Talat Nasim, Dr Ritchie Williamson, Dr Diana Wood, Dr Rajendran Gopalan, Dr Sriharsha Kantamneni, Mr Scott Dalgliesh, Mr Hadar Zaman, Mrs Helen Cook, Mrs Diane Butterworth, Ms Shanaz Khaliq, Miss Zaynab Nejadhamzeeigilani, Dr Richard Wheelhouse, Mr James Johnston, Dr Ian Grimsey, Mr Babir Malik, Dr Xiangli Liu, Dr Venu Vangala, Professor Colin Wright

Pre-requisites: Capability in Pharmacy 1 2017-18, Foundation Studies for  
Co-requisites: Capability in Pharmacy 2 2018-19, Senses, Thoughts and

Contact Hours

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Lectures</td>
<td>5</td>
</tr>
<tr>
<td>Tutorials</td>
<td>46</td>
</tr>
<tr>
<td>Laboratory</td>
<td>14</td>
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<tr>
<td>Directed Study</td>
<td>235</td>
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Availability Periods

<table>
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<tr>
<th>Occurrence</th>
<th>Location/Period</th>
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<tr>
<td>BDA</td>
<td>University of Bradford / Academic Year (Sept - May)</td>
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Module Aims

This module builds on the Foundation Studies in Pharmacy modules and aims to provide you with the integrated knowledge and skills needed to:
recognise the normal structure and function of, the gastrointestinal, endocrine and
reproductive systems;
recognise important symptoms of disease of the gastrointestinal, endocrine and reproductive systems;
recognise the contribution of the gastrointestinal system to drug absorption;
explain how drugs acting on the gastrointestinal, endocrine and reproductive systems work;
identify the strengths and weaknesses of oral transmucosal, oral, rectal and vaginal drug delivery;
understand the application of a range of theories of change that are used in the development of health promotion interventions and the role of the pharmacist;
process prescriptions for patients with a single health problem/disease (of the gastrointestinal, endocrine or reproductive system) managed by multiple drugs.

Outline Syllabus

The anatomical features and physiological and biochemical concepts/principles of the gastrointestinal, endocrine and reproductive system
Interpreting normal historical, physical and laboratory findings
The strengths and weaknesses of drug delivery systems used in the gastrointestinal, endocrine and reproductive system and their effective use
The pharmacology and medicinal chemistry of drugs used in treating diseases of the gastrointestinal, endocrine and reproductive system
Explaining the symptoms of diseases affecting the gastrointestinal, endocrine and reproductive system
Applying the theories and models of health promotion to prevent hazardous alcohol consumption, and oral disease.
Processing multiple-item prescriptions for commonly prescribed medicines used to treat or prevent gastrointestinal, metabolic and reproductive problems.
Veterinary prescriptions

Module Learning Outcomes

On successful completion of this module, students will be able to...

1. Relate anatomical features and physiological and biochemical concepts/principles of the gastrointestinal, endocrine and reproductive systems in order to: recognise normal historical, physical and laboratory findings; assess the strengths and weaknesses of drug delivery systems and explain their effective use; explain how drugs work; explain the symptoms of disease.

2. Appraise the theories and models of health promotion and apply them in order to prevent hazardous alcohol consumption, and oral disease.

3. Process multiple-item prescriptions for commonly prescribed medicines used to treat or prevent gastrointestinal, metabolic and reproductive problems.

Learning, Teaching and Assessment Strategy

Students will develop the knowledge, understanding and skills necessary to meet the learning outcomes of the module through the programme's instructional learning and teaching strategy; team-based learning. Students will study the core knowledge-based content of the module out of class; this is then assessed through a series of individual
readiness assurance tests (i-RAT), which are MCQ assessments for learning taken at regular intervals throughout the academic year. Students discuss the i-RAT assessment in teams of 5-7 and retake the assessment as a team (t-RAT). In class sessions, students will apply their new knowledge to a number of formative and summative team application exercises during the academic year. Finally, students will be assessed that they can individually meet learning outcomes through a summative module exam at the end of the stage. To pass the module, students will need to demonstrate a pass standard of 40% in the module overall and must also achieve at least 40% in the exam. Marks from the 'synoptic' written examination paper for the question that relates to nutrition, metabolism &/or reproduction will contribute to this module, as outlined in 'Assessment components and weightings'.

Supplementary Assessment for the module is as original, the only exception is for the Peer Review of Team performance component where the supplementary will be a reflection exercise.

### Mode of Assessment

<table>
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<tr>
<th>Type</th>
<th>Method</th>
<th>Description</th>
<th>Length</th>
<th>Weighting</th>
<th>Final Assess'</th>
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<tbody>
<tr>
<td>Summative</td>
<td>Other form of assessment</td>
<td>Ongoing auditive assessment (i-RATs(15%) t-RATs(5%) Team Application Exercise(15%)&amp;Peer review of performance in team(5%))</td>
<td>40%</td>
<td>40%</td>
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<tr>
<td>Summative</td>
<td>Examination - MCQ</td>
<td>Final MCQ &amp; EMQ examination must be passed at 40%</td>
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<td>45%</td>
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<td>Summative</td>
<td>Examination - closed book</td>
<td>PHA5004-C-related question (from the synoptic written exam paper)</td>
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<td>15%</td>
<td>No</td>
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### Legacy Code (if applicable)

PH-2227U

### Reading List
To view Reading List, please go to rebus:list.