

Module Details	
Module Title	Diagnostic Histopathology
Module Code	BIS6019-B
Academic Year	2022/3
Credits	20
School	School of Chemistry and Biosciences
FHEQ Level	FHEQ Level 6

Contact Hours	
Type	Hours
Tutorials	6
Laboratories	6
Lectures	24
Directed Study	164

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2

Module Aims
The aim of this module is to expand understanding and gain experience of the application and delivery of a range of core and specialised methods and techniques from across the cellular sciences and to understand their importance in the clinical investigation of patients.

Outline Syllabus

Overview of pathological processes including inflammation, embolism, infarction, ischemia, congestion, fibrosis & oedema; carcinogenesis & metastasis & the epidemiology of specified common pathologies. Recognition of general cellular pathology features of abnormality, & the tests that assess the molecular basis of acquired disease. Case studies to illustrate the timing & role of cellular pathology in the patient pathways associated with a range of common clinical disorders, including diagnostic & treatment options that are informed by the cellular pathology findings. Relationship of cellular pathology to a range of invasive & non-invasive surgical procedures (eg smears, aspirates, biopsies, excisions, resections). Knowledge of sampling, staining & preparation techniques including cell block techniques & imprint smears; using accepted cellular pathology nomenclature. Overview of the role of imaging & other non-cellular pathology tests in the investigation of patients with a range of clinical conditions. Pathogenesis & clinical presentation of common diseases of the major organs (heart, lungs, liver, kidney, GI tract, brain, muscle). Application & outcome of initial cellular pathology testing in the investigation of specified common diseases of major organs & the role of molecular pathology tests in assisting with diagnosis & prognosis of acquired disease. Overview of the process & practice of autopsy

Learning Outcomes

Outcome Number	Description
01	Demonstrate an understanding of the pathological basis of disease & the application of cellular science methods & techniques in clinical practice.
02	Discuss the systematic investigation of pathological specimens as part of the diagnostic & monitoring processes in a range of common conditions.
03	Critically analyse the application of histopathology methods and techniques & illustrate their value when influencing the choice of treatment and clinical outcomes.
04	Understand common pathological processes including inflammation, embolism, infarction, ischemia, congestion, fibrosis and oedema.
05	Discuss carcinogenesis and metastasis & the epidemiology of specified common pathologies.
06	Recognise general cellular pathology features of abnormality & tests that assess the molecular basis of acquired disease.
07	Appreciate the relationship of cellular pathology to a range of invasive & non-invasive surgical procedures (eg smears, aspirates, biopsies, excisions, resections).
08	Evaluate the role of sampling and preparation techniques, imaging and other non-cellular pathology tests in the investigation of patients with a range of clinical.
09	Effectively manage your workload, resources & work successfully to a deadline.
10	Demonstrate personal responsibility for self-directed learning & time management.
11	Communicate clearly & concisely with correct use of terminology to answer questions & discuss a specialist topic.
12	Clarify factors which may influence the type & detail of advice you provide.
13	Clearly convey information & results in detail.
14	Evaluate the role of sampling and preparation techniques, imaging and other non-cellular pathology tests in the investigation of patients with a range of clinical conditions.
15	Analyse investigation, pathogenesis and clinical presentation of common diseases of the major organs and their use in diagnosis and prognosis.

Learning, Teaching and Assessment Strategy

Learning will be facilitated by a series of lectures, seminars and workshops as well as practical work. Lectures will be supported by case studies that aim to develop the students' abilities to apply their knowledge to pathological problems. Here the students will work in groups under the guidance of facilitators to solve problems and interpret data. Finally the practical class will develop written communication and data presentation skills.

HCPC competencies covered by this module include: 1.2, 3.3, 4.2, 4.3, 4.4, 4.5, 5.1, 9.1, 10.3, 13.1, 13.8, 13.9, 13.10, 14.9, 14.19, 14.28.

Mode of Assessment

Type	Method	Description	Weighting
Summative	Examination - Closed Book	One 2-hour examination comprising two from a choice of five essays (2 Hrs)	60%
Summative	Examination - Closed Book	Data analysis interpretation of a case study	20%
Summative	Examination - oral/viva voce	Oral presentation	20%

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.