## Module Specification

### ABOUT THIS DOCUMENT

This module specification applies for the academic year 2019-20

**Last revised** 30 August 2019

London School of Hygiene & Tropical Medicine, Keppel St., London WC1E 7HT.  [www.lshtm.ac.uk](http://www.lshtm.ac.uk)

### GENERAL INFORMATION

<table>
<thead>
<tr>
<th>Module name</th>
<th>Clinical Virology</th>
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</thead>
<tbody>
<tr>
<td>Module code</td>
<td>3187</td>
</tr>
<tr>
<td>Module Organiser</td>
<td>Dr David Allen, Victoria Miari</td>
</tr>
<tr>
<td>Contact email</td>
<td><a href="mailto:david.allen@lshtm.ac.uk">david.allen@lshtm.ac.uk</a>; <a href="mailto:victoria.miari@lshtm.ac.uk">victoria.miari@lshtm.ac.uk</a></td>
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<td>Home Faculty</td>
<td>Infectious &amp; Tropical Diseases</td>
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<tr>
<td>Credit</td>
<td>15 credits</td>
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<tr>
<td>Accreditation</td>
<td>Not currently accredited by any other body.</td>
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<tr>
<td>Keywords</td>
<td>Virus; viral infections; virus diagnostics; human virology, laboratory science</td>
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### AIMS, OBJECTIVES AND AUDIENCE

#### Overall aim

To provide a review of the aetiology, pathogenesis, epidemiology, diagnosis, control and therapy of human viral infections of clinical importance.

#### Intended learning Outcomes

By the end of this module, students should be able to:

- Demonstrate knowledge and understanding of pathogenetic, diagnostic and therapeutic aspects of clinical virology
- Demonstrate understanding of the role of viral infection within the hospital environment and evaluate different methods of infection control
- Perform various clinical laboratory procedures including specimen processing, isolation, identification of viral pathogens
- Demonstrate understanding of quality control as well as appropriate workflows for laboratory testing
- Evaluate recent molecular and immunological research developments that have important implications on the pathobiology, clinical management and laboratory diagnosis of virus infections

#### Target audience

This module is intended for students who wish to understand the principles of clinical virology and to be introduced to diagnostic laboratory practice and management. This module is a natural progression for students who have
taken the Bacteriology & Virology (3121) module during Term 1 and will complement the Clinical Bacteriology modules in Term 2 – C2 & D2.

### CONTENT

**Session content**
The module is expected to address most of the following topics (though please note that these may be subject to change):

- **Lecture topics:** respiratory infections, gastrointestinal infections, congenital infections, antiviral agents and therapy, childhood infections, HIV diagnosis & management, emerging viral infections, the discovery & pre-clinical development of Relenza, and diagnostic laboratory Quality Assurance and Health & Safety issues
- **Practical sessions:** enzyme immunoassay (EIA), serology- and microscopy-based applications for diagnosis, PCR-based applications for diagnosis, an infection control exercise and applications of immunofluorescence for diagnostics.

### TEACHING, LEARNING AND ASSESSMENT

**Study resources provided or required**
Module Information can be found on the Virtual Learning Environment (Moodle) containing information about each session and key references for the module. All materials and equipment for the practical sessions will be provided. Detailed handouts for both lectures and practical sessions will be provided via Moodle.

**Teaching and learning methods**
The module consists of lectures and practical sessions, and clinical case review-based sessions.

**Assessment details**
Students will sit a two hour written examination covering all aspects of the module. The written examination will consist of short notes questions. Resit/deferred/new attempts - The task will be a coursework assessment consisting of 4 short essay questions. Short essay titles will be provided in early September.

**Assessment dates**
Assessments will take place during **Week 5 of the C1 slot**.
Resit/deferred/new attempts - The next assessment deadline will be during mid/late September of the current academic year.

**Language of study and assessment**
English (please see ‘English language requirements’ below regarding the standard required for entry).

### TIMING AND MODE OF STUDY

**Duration**
5 weeks at 2.5 days per week

**Dates**
Monday morning to Wednesday lunchtime

**Timetable slot**
Term 2 - slot **C1**

**Mode of Study**
The module is taught face-to-face in London. Both full-time and part-time students follow the same schedule.

**Learning time**
The notional learning time for the module totals 150 hours, consisting of:
- **Contact time** ≈ 48 hours
- **Directed self-study** ≈ 26 hours
- **Self-directed learning** ≈ 26 hours
<table>
<thead>
<tr>
<th><strong>APPLICATION AND ADMISSION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pre-requisites</strong></td>
</tr>
<tr>
<td><strong>English language requirements</strong></td>
</tr>
<tr>
<td><strong>Student numbers</strong></td>
</tr>
<tr>
<td><strong>Student selection</strong></td>
</tr>
</tbody>
</table>