



## MODULE SPECIFICATION

<b>Academic Year (student cohort covered by specification)</b>	2022-23
<b>Module Code</b>	IDM503
<b>Module Title</b>	Malaria
<b>Module Organiser(s)</b>	Prof Cally Roper & Dr Sam Wassmer
<b>Contact email</b>	The LSHTM distance learning programmes and modules are run in collaboration with University of London Worldwide. Enquiries may be made via <a href="#">the Student Advice Centre</a> . (Enquiries from face-to-face i.e. London-based the LSHTM MSc or research students regarding study of DL modules should be emailed to <a href="mailto:distance@lshtm.ac.uk">distance@lshtm.ac.uk</a> .)
<b>Faculty</b>	Infectious & Tropical Diseases: The London School of Hygiene & Tropical Medicine <a href="https://www.lshtm.ac.uk/research/faculties/itd">https://www.lshtm.ac.uk/research/faculties/itd</a>
<b>FHEQ Level</b>	Level 7
<b>Credit Value</b>	<b>CATS:</b> 15 <b>ECTS:</b> 7.5
<b>HECoS Code</b>	100265:101317 (1:1)
<b>Mode of Delivery</b>	Distance Learning
<b>Mode of Study</b>	Directed self-study, through provided and online materials
<b>Language of Study</b>	English
<b>Pre-Requisites</b>	Those who wish to study this module as an individual module or as part of another programme should have a prior knowledge of basic biochemistry, cell biology, genetics, immunology and parasitology in order to be able to work through and benefit fully from this module.
<b>Accreditation by Professional Statutory and Regulatory Body</b>	None
<b>Module Cap (Maximum number of students)</b>	None
<b>Target Audience</b>	This module is aimed at health professionals and scientists intending to gain a broader understanding of malaria, why it remains one of the more intractable diseases in the world, and importantly, to help in meeting the immense challenges posed by the disease.

<b>Module Description</b>	The module covers broad aspects of Malaria including the treatment and prevention of disease, the biology of malaria parasites and their mosquito vectors. You will also learn about the many interventions that can be used to control transmission of malaria and the factors that make it so difficult to control.
<b>Duration</b>	Distance learning module studies begin in early October. Students may start their studies at any time from receipt of study materials and work through the material until the start of the June examinations (although assessment submission deadlines which are earlier than this must be observed).
<b>Last Revised (e.g. year changes approved)</b>	March 2022

<b>Programme(s)</b>	<b>Status</b>
This module is linked to the following programme(s)	
PGDip/MSc Infectious Diseases (Distance Learning - University of London Worldwide)	Elective Option
PGDip/MSc Clinical Trials (Distance Learning - University of London Worldwide)	Elective Option
PGDip/MSc Epidemiology (Distance Learning - University of London Worldwide)	Elective Option
PGDip/MSc Global Health Policy (Distance Learning - University of London Worldwide)	Elective Option
PGDip Public Health (Distance Learning - University of London Worldwide)	Elective Option
MSc Public Health (General Stream) (Distance Learning - University of London Worldwide)	Elective Option
MSc Public Health: Environment and Health (Distance Learning - University of London Worldwide)	Elective Option
MSc Public Health: Health and Promotion (Distance Learning - University of London Worldwide)	Elective Option
MSc Public Health: Health Services Management (Distance Learning - University of London Worldwide)	Elective Option

## Module Aim and Intended Learning Outcomes

### Overall aim of the module

The overall module aim is to:

- give students an introduction to malaria parasites, their vectors, and to malaria as a disease. There is an emphasis on the practical aspects of control, and on completion of the module students should have a good understanding of malaria control interventions and the circumstances where these are most effectively applied.

### Module Intended Learning Outcomes

Upon successful completion of the module a student will be able to:

1. describe the malaria parasites and their vectors, and malaria as a disease.
2. explain how malaria can be controlled using interventions that target the vector or the parasite, and the factors that make malaria difficult to control.
3. understand the immunopathogenesis of the disease and the acquisition of anti-malarial immunity together with its relevance for vaccine development.

## Indicative Syllabus

### Session Content

The module is expected to cover the following topics:

- **Section 1 Malaria: parasites and vectors**  
The first Section is an introduction to the subject of malaria with the emphasis on the biology of the parasites and their vectors. The sessions include all the basic information you are likely to require about the parasites themselves and their mosquito vectors.
- **Section 2 Malaria: the disease**  
The second Section focuses on malaria as a disease and also covers the immunology of infection and the genetics of the parasites, hosts and vectors.
- **Section 3 Malaria: epidemiology and control**  
The third Section is mainly concerned with the epidemiology and control of malaria.
- **Section 4 Malaria: treatment**  
The fourth Section covers four specific topics, the biochemistry and treatment of the disease, malaria vaccines, malaria in pregnancy and imported malaria.

## Teaching and Learning

### Notional Learning Hours

Type of Learning Time	Number of Hours	Expressed as Percentage (%)
Directed self-study	100	66.7
Self-directed learning	25	16.7
Assessment, review and revision	25	16.7
<b>Total</b>	<b>150</b>	<b>100</b>

### Teaching and Learning Strategy

Learning is self-directed against a detailed set of learning objectives using the materials provided. Students are strongly encouraged to participate in the module-specific discussion forums available on Moodle to obtain tutor support, and to make use of the LSHTM online library resources. In addition, written feedback is provided on submitted assignments.

### Assessment

#### Assessment Strategy

Formal assessment of this module includes a two-hour unseen written paper examination with 15 minutes additional reading/planning time (70%) and an assessed assignment comprising a 2500 word report (30%).

#### Assessment submission deadlines

Assessed Assignment submission deadline **31<sup>st</sup> March**

Exam takes place in **June**

#### Summative assessment

Assessment Type	Assessment Length)	Weighting (%)	Intended Module Learning Outcomes Tested
Assessed Assignment	2500 words	30	2
Exam	2 hours 15 minutes	70	1, 2, 3

Assignments for this module can be submitted only once annually, no later than **31<sup>st</sup> March** and must be submitted via the online Assignment Management System.

Unseen written examinations for DL modules are held once a year, in **June** (including resits).

Assessment Type	Assessment Length)	Weighting (%)	Intended Module Learning Outcomes Tested
<p>Exams will be held in accordance with annual UoL guidance. They will be conducted in the same format for all students either online or in international exam centres.</p> <p>There are over 650 examination centres worldwide. They are arranged mainly through Ministries of Education or the British Council. A list of examination centres can be found at <a href="https://london.ac.uk/current-students/examinations/examination-centres">https://london.ac.uk/current-students/examinations/examination-centres</a></p> <p>A local fee will be payable direct to the examination centre. This fee is in addition to the programme/module fee and is set by, and paid directly to, the individual examination centres. The level of local examination centre fees varies across the world and neither the University of London nor the LSHTM have any control over the fee amount.</p>			

### Resitting assessment

Resits will accord with the LSHTM's [Resits Policy](#).

The Resit assessment will be the same assessment type as the first attempt (see previous table).

## Resources

### Indicative reading list (if applicable)

- WHO (1999). *Bench Aids for the Diagnosis of Malaria Infections*. 2<sup>nd</sup> Ed. World Health Organisation. ISBN: 9241545240
- Goering, R.V., Dockrell, H.M., Zuckerman, M. and Chiodini, P.L., (2018) *Mims' Medical Microbiology and Immunology*. 6<sup>th</sup> Ed. ISBN: 978-0702071560.

Textbooks will be made available in e-format or hard copy to registered students in early autumn.

### Other resources

**Study Guide:** Available online, and to download, via the virtual learning environment

**Reader:** Online reading list available via the virtual learning environment.

In addition to the materials above, students are given access to the **LSHTM Virtual Learning Environment, Moodle** where they can access the study guide, reading list, web-based discussion forums, assignments, supplementary materials, suggested relevant websites, audio and video recordings, activities and the **LSHTM online library resources**.

## Teaching for Disabilities and Learning Differences

The module-specific site on Moodle provides students with access to the module learning materials, including a study guide (with accessible printable versions of sessions) and online reading list (containing essential readings, and textbooks if available), and additional resources including supplementary exercises and “Panopto” recordings. All materials posted up on Moodle areas, including computer-based sessions, have been made accessible where possible. The LSHTM Moodle has been made accessible to the widest possible audience, using a VLE that allows for up to 300% zoom, permits navigation via keyboard and use of speech recognition software, and that allows listening through a screen reader. All students have access to “[SensusAccess](#)” software which allows conversion of files into alternative formats.

If you have specific, access requirements please contact the Inclusive Practice Manager via [special.arrangements@london.ac.uk](mailto:special.arrangements@london.ac.uk) to request an alternative format of the study guide and for special exam arrangements.