



**UNIVERSITY
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MEDICINE



MODULE SPECIFICATION

Academic Year (student cohort covered by specification)	2020-21
Module Code	IDM202
Module Title	Nutrition and Infection
Module Organiser(s)	Kate Godden
Contact email	The LSHTM distance learning programmes and modules are run in collaboration with University of London Worldwide. Enquiries may be made via the Student Advice Centre . (Enquiries from face-to-face i.e. London-based the LSHTM MSc or research students regarding study of DL modules should be emailed to distance@lshtm.ac.uk .)
Faculty	Infectious & Tropical Diseases: The London School of Hygiene & Tropical Medicine https://www.lshtm.ac.uk/research/faculties/itd
FHEQ Level	Level 7
Credit Value	CATS: 15 ECTS: 7.5
HECoS Code	100247:100345 (1:1)
Mode of Delivery	Distance Learning
Mode of Study	Directed self-study, through provided and online materials
Language of Study	English
Pre-Requisites	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 and immunology in order to be able to work through and benefit fully from this module. It is useful, but certainly not essential for students to have a pre-existing knowledge of nutrition.
Accreditation by Professional Statutory and Regulatory Body	None
Module Cap (Maximum number of students)	None
Target Audience	This module is intended for those who wish to understand the principles of nutrition and infection. This can be applied in the field such as feeding programmes, community nutrition programmes, nutrition and infection education and

	programme planning. It is also relevant for those who work in clinical based settings.
Module Description	This module covers the interaction between nutrition and infection.
Duration	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).
Last Revised (e.g. year changes approved)	May/2020

Programme(s)	Status
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



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Module Aim and Intended Learning Outcomes

Overall aim of the module

The overall module aim is to:

- provide students with a basic understanding of the interactions between nutrition and infections, and better prepare students to deal with the practical and basic operational management of infectious disease or under-nutrition at either the individual or population level.

Module Intended Learning Outcomes

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

1. contextualise discussions of nutrition and infection and understand that the field is positioned in between nutrition and immunology, and appreciate that knowledge, insights and concepts are rapidly developing and changing.
2. demonstrate an understanding of the role nutrients play in immune mechanisms,
3. appraise the role infection plays in the aetiology and pathogenesis of under-nutrition,
4. explain how and why under-nutrition affects the host defence mechanisms and influences resistance to infection,
5. identify the most specific nutrients that influence the risk of infection, and evaluate the evidence for this interaction between specific micronutrients and infections,
6. appraise the consequences of the vicious cycle of the relationship between infection and nutrition
7. critically appraise the literature and demonstrate a good understanding of the basic principles of several disciplines needed to be combined to understand the current concepts in this field, rather than just acquiring textbook knowledge.

Indicative Syllabus

Session Content

The module includes sections addressing the following topics:

Section 1 - The study of nutrition and infection

Section 2 - Basics of immunology and nutrition

Section 3 - Inter-relationship between undernutrition and infection

Section 4 - The role of micronutrients in the risk of infection

Section 5- Nutrition through the lifecycle

Section 6 - Key infections

Section 7 - Emerging associations in nutrition and infection



Teaching and Learning

Notional Learning Hours

Type of Learning Time	Number of Hours	Expressed as Percentage (%)
Directed self-study	77	51.3
Self-directed learning	23	15.3
Assessment, review and revision	50	33.3
Total	150	100

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 essay (30%).

Summative assessment

Assessment Type	Assessment Length	Weighting (%)	Intended Module Learning Outcomes Tested
Assessed Assignment	2500 words	30	1, 2, 3, 4, 5, 6, 7
Exam	2 hours 15 minutes	70	1, 2, 3, 4, 5, 7

Assignments for this module can be submitted only once annually, no later than 31 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). Examinations are normally held in a student's country of residence, in one of 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 <https://london.ac.uk/current-students/examinations/examination-centres>.

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.

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

- Goering, R.V., Dockrell, H.M., Zuckerman, M. and Chiodini, P.L., (2018) *Mims' Medical Microbiology and Immunology*. 6th Ed.
ISBN: 978-0702071560.

Other resources

Study Guide: Paper version

Reader: Reprints of associated journal articles

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 and the **LSHTM online library resources**.



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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. 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 to request an alternative format of the study guide and for special exam arrangements.