

Module Specification

Module Summary Information

1	Module Title	Prevention, Recognition and Management of Sepsis
2	Module Credits	20
3	Module Level	Level 6
4	Module Code	LBR6633
5	Semester Taught	1

6	Module Overview
<p>Welcome</p> <p>Welcome to the 'prevention, recognition and management of sepsis' module.</p> <p>This is an optional module and delivered as an online distance learning module, focusing on the prevention, recognition and management of sepsis in a range of settings, including pre-hospital, primary care, ward settings and specialist areas.</p> <p>This module aims to provide you with knowledge and skills to deliver evidence-based prevention, recognition and clinical management for a patient with sepsis in a range of settings. The module will enable you to explore the pathophysiological processes of sepsis, understand the complexities of sepsis in a range of settings and evaluate the reliability and validity of current evidence used to justify the management of interventions. To help translate theory to practice, a series of case studies will be used, to identify the early recognition of sepsis causing critical illness and impacting on an illness process, initial treatment, stabilisation, ongoing treatment, and the impact of anti-microbial resistance, post-sepsis syndrome, change management and human factors.</p> <p>Sepsis is a life-threatening medical emergency that is indiscriminate. Prior to the Covid-19 pandemic, it was estimated by the World Health Organisation that the global burden of sepsis accounts for 48.9 million cases and 11 million sepsis-related deaths worldwide. As outlined in section 7, sepsis is an international cause for concern. The WHO (2020) have further identified serious gaps in knowledge and the need for urgent scale up and access to education opportunities. Therefore, this module is relevant for all healthcare practitioners locally, national and internationally who are involved in sepsis care.</p> <p>The module has been aligned to professional standards for healthcare professionals who must be able to identify and respond to signs of deterioration and sepsis, NICE Guidelines for the recognition, diagnosis and early management, and international standards including the World Health Organization and the United Nations Sustainable Development Goals.</p> <p>This module aligns with the Programme philosophy and is designed to be flexible, and practice led. You will have the opportunity to develop skills of enquiry, reflection and problem solving.</p> <p>A distance learning approach is taken (incorporating both online classroom taught sessions and online activities via Moodle) in line with the university's learning and teaching strategy. You will be encouraged to think critically and share practice experiences with your fellow students, as well as engaging in both directed and self-directed learning activities. You will be an active partner in your own learning and development and in return you will receive regular feedback and feedforward support, as well as individual and group tutorial support aimed at developing your academic skills; and have the opportunities to discuss your progress with the module team.</p>	

7	Indicative Content
<p>This level 6 module will critically examine the prevention, recognition and management of sepsis in a range of clinical settings.</p> <ul style="list-style-type: none"> • Epidemiology and aetiology of sepsis • Development of international consensus definitions and guidelines for sepsis • Microbiology • Antimicrobial resistance • Pathophysiology of sepsis • Clinical evaluation and screening tools • Sepsis resuscitation and referral • Sepsis in primary care • Preventing sepsis among vulnerable groups including learning disabilities, mental health, immunosuppressed individuals • Healthcare Associated Infections (HCAI) • Post-sepsis syndrome • Using academic skills to evaluate evidence • Change management • Human factors and communication • Consolidation through case studies 	

8	Module Learning Outcomes
On successful completion of the module, students will be able to:	
1	Utilising academic skills, retrieve and apply appropriate evidence and knowledge to demonstrate critical arguments required at level 6.
2	Critically analyse the contemporary literature relating to an aspect of sepsis care.
3	Apply clinical reasoning and integrate knowledge of sepsis into a variety of clinical contexts
4	Critically discuss theories of change management and the wider organisational drivers relevant to sepsis care

9	Module Assessment		
Learning Outcome Number <i>(from table 8)</i>	Coursework	Exam	In-Person
1, 2, 3 and 4	100%		

10	Breakdown Learning and Teaching Activities	
Learning Activities	Hours	Details of Duration, Frequency and other comments
Scheduled Learning (SL) includes online lectures and workshops as specified in timetable	42 hours	2-hour online lectures x 15 2hr seminar x6

<p>Directed Learning (DL) includes placements, work-based learning, peer group learning external visits, on-line activity, Graduate+, peer learning, as directed on VLE</p>	<p>38 hours</p>	<p>3-hours asynchronous online content engagement x 10</p> <p>8-hours online tutorial support.</p>
<p>Private Study (PS) includes preparation for exams</p>	<p>120 hours</p>	<p>Regular engagement with MOODLE-based learning resources, literature searching, reading, critical thinking and applying this to completion of module summative assessment</p>
<p>Total Study Hours:</p>	<p>200 hours</p>	

11 | **Key Texts and Online Learning Resources**

No books are recommended as must-purchase titles, due to the individual nature of academic skill development, diversity of clinical backgrounds of students completing this module, and the well-resourced library. The following books/ articles/ reports are highly recommended and will be referred to throughout the module:

Carter C. Notter J. (2021). Covid-19: Critical care textbook. 1st Edition. Elsevier.

NCEPOD. (2015). Sepsis: just say sepsis! <https://www.ncepod.org.uk/2015sepsis.html>

NICE. (2020). Sepsis. Revised April 2020.
https://cks.nice.org.uk/topics/sepsis/?_escaped_fragment_=diagnosis

Singer, M. Deutschman, CS. Seymour, CW. et al. (2016). The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3). JAMA. 315. 8. 801–810.
doi:10.1001/jama.2016.0287

Shirley D. (2020). Project management for healthcare. 2nd Edition. Milton CRD Press

Tortora, GJ. Funke, B. Berdell, R. Case C. (2019). Microbiology: an introduction. Pearson Education. 13th Edition.

Ward, NS. Levy, MM. (2017). Sepsis: Definitions, pathophysiology and the challenge of bedside management (respiratory medicine). Humana Press