Infection Control 6KNIN323

Level: 6
Credits: 15

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This handbook must be read in conjunction with module information provided on KEATS, the King’s E-Learning And Teaching Service. You will be given access to KEATS on enrolment. Important information relating to assessment and related regulations can be found in Post Qualification the Undergraduate Programme Handbook, available on KEATS and via the Student Services Centre.

This handbook can also be provided in alternative formats (such as large print) upon request to asc@kcl.ac.uk.
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Module overview

Module aims
This module will enable you to develop existing infection prevention and control practice in your clinical area, utilising research and evidence based theoretical knowledge.

The module will demonstrate how micro-organisms, host factors, clinical interventions and the care setting interact with and contribute to patterns of infection.

The implementation of infection control and public health systems in both hospital and community settings will be considered in relation to local, national and international infection control challenges.

Learning outcomes
During this module students will be able to:

- Identify actual and potential risk factors for infection in patients/clients in differing clinical settings and relate these to implementation of appropriate infection control strategies.
- Discuss infection prevention and control practices in light of the current research knowledge base
- Demonstrate knowledge of microbiological and immunological principles and their application to patient care
- Discuss the contributory factors involved in patterns of hospital and community acquired infection.
- Discuss the impact of infection control measures for patients, their families and clinical staff.
- Examine current changes in health care provision and the implications for the management of infection.

Teaching arrangements
A variety of teaching and learning strategies will be utilised throughout the module, including lectures, discussions, seminars and small group work. Students will be required to undertake directed learning activities. Students will also be expected to undertake private study
Submitting coursework
For this module you are assessed by Roseline Agyekum and Edward Purssell.

Assessment criteria

Formative assessment
This consist of eLearning component which must be completed prior to each session.

Summative assessment
An analytical discussion of a selected infection control issue and its implications for clinical practice.

The word limit is 2,000 words. Assessment value 100%.

Guidelines

- Select a specified infection/infection control issue that is of relevance to your area of practice.
- Define the issue and explain its relevance to your clinical practice.
- Analyse key elements of the issue e.g. microbiology, incidence, mode of spread, environmental, clinical and patient factors.
- Critically analyse one or two infection prevention/control strategies used to manage this issue in practice.
- Make reference to relevant national and local policy in your discussion.
- Discuss the implications of this infection control issue and its management for clinical practice in your area including relevant professional issues e.g. evidence base, ethical decision making, risk management, multi-disciplinary working etc.
- Use relevant literature to develop and support your critical analysis.

Your assignment should be accurately referenced and include a reference list. Referencing must be in the JAN style [see programme handbook].

It is essential that you use your candidate number on all assignments/examinations. You can find your candidate number on ‘OneSpace’.

Coursework submission are provided on the modules KEATS site. It is essential that you use your candidate number on all assignments/examinations. Your candidate number, which will begin with X for the academic year 2016/17, will be available via Student Records on the King’s Intranet approximately one month after you enrol.

If you are unable to submit your work by the deadline please refer to the information in your programme handbook on “mitigating circumstances”. If you require further support in these circumstances you are advised to contact KCLSU.

Submission date for coursework: Tuesday 11 April 2017, 11.59am
Late submissions will be accepted for 24 hours following the submission date. All work submitted late will be marked as normal but will be capped at the pass mark for the module. The assignment is submitted electronically through TurnItIn, information about how to submit late will be provided on KEATS module sites under assessment information. Please label the file with your candidate number and double-check you have submitted the correct file.

The external examiner for this module is John Gammon. Students are not to make direct contact with external examiners, in particular regarding their individual performance in assessments.

The College and its Examination Boards in the ten Faculties (Institutes/Schools, King’s Learning Institute and the Association of King’s College (AKC), work with over 500 external examiners to ensure the quality and standard of our taught awards. Find the latest report on the External Examiners Report page, navigate to the Faculty of Nursing and Midwifery section.

Results and resubmissions for coursework
Students will receive a provisional (unratified) mark for their coursework 4 weeks following the Examination Board. According to the method of submission as detailed on your KEATS site, if your work was submitted online you will be able to download marked coursework from KEATS; alternatively, if you completed a hard copy submission you can collect your coursework and feedback from the Student Services Centre.

To collect a hard copy assignment, you must provide your candidate number. Alternatively, you may send a stamped addressed envelope to the Student Services Centre ensuring that this is large enough to accommodate your assignments and that you have applied sufficient postage. Hard copy assignments will be retained for four weeks; if you have not collected your assignment by then, it will be destroyed.

Feedback will include the award of a numerical grade which remains provisional until ratified by the examination boards. The dates for the examination boards are available on KEATS. Ratified marks can be viewed via Student Records on the King’s Intranet, the Monday following the relevant examination board.

The marking criteria by which your work is judged are provided in full in your programme handbook. Please also refer to the section in your programme handbook on plagiarism and how to avoid it. If you have a query about how to refer to a specific piece of work please ask your module leader, your group leader or a member of library staff for guidance or please use King’s Libguides site.

The feedback you receive on your assignment will guide you towards how to do better next time or how to maintain your existing high standard!

If you do not understand your mark or the feedback you receive please contact Roseline Agyekum.

If you are unsuccessful, it is recommended that you contact the module leader before submitting your second attempt. This will enable the module leader to provide you with an appropriate level of support as you prepare to resubmit your work.
Learning resources

Session 1a — Introduction to the Module
During this session you will learn:

• Explore the module learning outcomes and content and understand their relevance for practice
• Explore the role of the infection Control Team in the prevention and management of Health Care Acquired Infection.

Session 1b — Interpretation and Implementation of National and Local Policy/Guidelines
During this session you will learn:

• Critically evaluate the current evidence base for infection control and management interventions
• Critically analyse issues in implementing policy and guidelines in practice.

Reading material


Session 2 — Immunology
During this session you will learn:
- Understand the main parts of the immune system and its role in protecting patients from infection
- The importance of antigens in the immune response
- The key parts of the immune system, in particular intact skin and mucous membranes, the microbiome, and the innate and acquired immune systems
- How vaccines and other medical treatments can affect immunity.

Reading material


Session 3 — Epidemiology and Surveillance
During this session you will learn:
- The meaning of the term epidemiology
- Measures for monitoring diseases
- The factors that need to be assessed in order to understand how disease spreads
- The spread infectious diseases and how this can be addressed.

Reading material


Session 4 — Microbiology: Specimen Collection and Interpretation of Clinical Data
During this session you will be able to:

• Identify the main biological features of different groups of micro-organisms and their significance in the clinical environment
• Demonstrate knowledge of the rationale for the collection of a range of specimens
• Critically understand the significance of clinical findings in the prevention and management of infection.

Session 5 — Standard Principles of Infection Prevention & Control
During this session you will be able to:

• Demonstrate detailed knowledge of the mechanisms by which micro-organisms cause disease and implications for infection control practice
• Demonstrate detailed knowledge of the range of infection control interventions
• Critically analyse and discuss compliance issues
• Critically discuss the implementation of infection control interventions in a range of clinical practice settings.

Reading material


Session 6 — Preventing Device-related Infections: Urinary Catheters

By the end of the session students will be able to:

- Identify the risk urinary catheters pose
- Describe the situations in which a urinary catheter might be necessary
- Undertake a patient assessment prior to selecting an appropriate urinary catheters
- Discuss the risks associated with urinary catheters and the means to reduce in these
- Discuss the key management messages with reference to the latest national guidance.

Reading material (additional)


Session 7 — Antimicrobial Agents and Anti-microbial Resistance

During this session you will be able to:

- Demonstrate understanding the role of the immune response in infectious disease
- Critically discuss the use of antimicrobial agents
- Critically understand the mechanisms of antimicrobial resistance and implications for practice

Reading material (additional)


Carbapenem-Resistant Enterobacteriaceae: Epidemiology and Prevention. Available online http://cid.oxfordjournals.org/content/53/1/60.full.pdf+html

Session 8 — Management of Infectious Outbreak through Best Practice

During this session you will be able to:

- Gain comprehensive knowledge of interventions to manage infection
- Critically discuss implications for practice in a range of settings.

Session 9 — Infectious Disease and Public Health

During this session you will be able to:

- Demonstrate critical understanding of the role of public health initiatives in infection control prevention and management.
Session 10 — Current Issues in Infection Control: TB, HIV, MRSA, Ebola—public Anxiety and Implications for Practice
By the end of the session students will be able to:

- Demonstrate knowledge of key, topical issues in infection control
- Demonstrate detailed understanding of infections that generate public anxiety and the ability to communicate clearly with patients and clients about these issues
- Critically evaluate the implications of public anxiety for practice in a range of settings.

Session 11 — Assignment Workshop
During this session you will be able to:

- Discuss choice of topics
- Review marking criteria.

Session 12 — Preventing Device-related Infections: Vascular Access
During this session you will be able to:

- Identify the risk vascular access devices (VAD) pose
- Describe the situations in which a VAD might be necessary
- Undertake a patient assessment prior to selecting an appropriate VAD
- Discuss the risks associated with a VAD and the means to reduce these
- Discuss the key management messages with reference to the latest national guidance

Reading material (additional)
Delivering the NHS Safety Thermometer CQUIN 2013/14- A new mind set in patient safety improvement. Available online

Session 13 — Role of the Environment in Infection Control
During this session you will be able to:

- Demonstrate detailed knowledge of the role of the environment in the prevention and management of infection.
- Critically analyse the implications for practice in a range of practice settings.
Useful websites
You will be given references at each lecture; however, because practice and epidemiology change rapidly, it is essential that you regularly consult official websites for the most up to date information. Important sites are:

Health Protection Agency http://www.hpa.org.uk/

Department of Health

Institute for Healthcare Improvement www.ihi.org

Safety Thermometer www.harmfreecare.org/nhs-safety-thermometer

Reducing Healthcare Associated Infections http://hcai.dh.gov.uk/
Module evaluation
At the end of the module you are requested to complete the short online evaluation which will be available on your module KEATS site. Student evaluations are very important to us and are required by Health Education England and the regional London Local Education and Training Boards.

Action from previous evaluations
- Include assignment workshop and choice of topics.
<table>
<thead>
<tr>
<th>Teaching mode</th>
<th>Date</th>
<th>Title</th>
<th>Time</th>
<th>Lecturer</th>
<th>Room</th>
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<tr>
<td>University based</td>
<td>19 Jan 2017</td>
<td>Welcome &amp; Introduction to Infection Prevention and control National &amp; local policies</td>
<td>10.00-11.30</td>
<td>Roseline Agyekum</td>
<td>FWB 2.46</td>
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<td>Immunology</td>
<td>11.30-13.00</td>
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<td></td>
<td></td>
<td>Epidemiology &amp; Surveillance</td>
<td>14.00-16.00</td>
<td>Edward Purssell</td>
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<td>2 Feb 2017</td>
<td>Introduction to Microbiology</td>
<td>10.00-12.00</td>
<td>Amita Patel</td>
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<td>Standard Principles of Infection Control</td>
<td>13.00-14.30</td>
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<td>Antimicrobials &amp; Antibiotic Resistance</td>
<td>10.00-13.00</td>
<td>Paul Wade</td>
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<td>Management of an Outbreak</td>
<td>14.00-16.00</td>
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<td>2 March 2017</td>
<td>Managing Infectious Diseases and Public Health</td>
<td>10.00-11.30</td>
<td>Victoria Davis</td>
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<td>Creative Infection Control Issues: Current Issues</td>
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<td>Role of the Environment in Infection Control</td>
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<td>Ceesay Yusupha</td>
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<td>Assignment Workshop: Identification of Topics Submission Tips</td>
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**Location Key:**
FWB – Franklin-Wilkins building; Waterloo Campus