



Public Health
England

Protecting and improving the nation's health

Antimicrobial Resistance Resource Handbook

Version 1.0
Edition 2
(Updated March 2017)

About Public Health England

Public Health England exists to protect and improve the nation's health and wellbeing, and reduce health inequalities. It does this through world-class science, knowledge and intelligence, advocacy, partnerships and the delivery of specialist public health services. PHE is an operationally autonomous executive agency of the Department of Health.

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Published April 2016

Updated March 2017

PHE publications gateway number: 2016021

This document is available in other formats on request. Please call 020 368 20013 or email HCAI@phe.gov.uk



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Purpose

This handbook is a collation of national antimicrobial resistance, (AMR), antimicrobial stewardship (AMS) and infection prevention and control (IPC) resources which are relevant for an array of care settings.

Introduction

This resource handbook contains a list of current national policy, guidance and supporting materials on AMR, AMS and IPC in relation to healthcare associated infections (HCAI). The resources listed in this handbook have been produced by PHE, DH and other key stakeholders within the UK. In addition, it includes HCAI guidance which has been developed internationally by other organisations which may be applicable or helpful for use across the NHS and by allied health professionals.

The UK Antimicrobial Resistance (AMR) Five Year Strategy was developed in 2013 in and sets out actions to address the key challenges to AMR in order to slow and prevent the rise of antimicrobial resistant organisms. As part of its strategic aims and approach the strategy outlines measures to conserve the effectiveness of existing treatments. This includes a combination of better prescribing practice through antimicrobial stewardship and improved infection prevention and control measures.

This document will be updated with new national resources, guidance or policies as they become available; it is subject to review every six months. Locally saved copies or printed versions of this document are not subject to copy control.

This document will be kept up to date as reliably as possible, and remain as inclusive for appropriate material as possible; however, responsibility will not be taken for the contents within this document or any omissions. Any questions regarding this handbook or suggestions for supporting documents, corrections or additional sections which would be beneficial for this handbook should be directed to; HCAI@phe.gov.uk

Key

AACE	Association of Ambulance Chief Executives
AHCP	Association of Healthcare Cleaning Professionals
AMR	Antimicrobial Resistance
AMS	Antimicrobial Stewardship
APS	Antimicrobial and Stewardship Competencies
ARHAI	Advisory Committee on Antimicrobial Resistance and Healthcare Associated Infections
BBVs	Blood borne viruses
BMJ	BMJ (Formerly: British Medical Journal)
BSAC	The British Society for Antimicrobial Chemotherapy
CBRNE	Chemical, Biological, Radiological, Nuclear and Explosives
CPPE	Centre for Pharmacy Postgraduate Education
CU	Cardiff University
DEFRA	Department for Environment, Food & Rural Affairs
DH	Department of Health
EAAD	European Antibiotic Awareness Day
ECDC	European Centre for Disease Prevention and Control
ESPAUR	English Surveillance Programme for Antimicrobial Utilisation and Resistance
ESPID	European Society for Paediatric Infectious Diseases
GLASS	WHO Global AMR Surveillance System
HAZMAT	Hazardous materials
HBN	Health building notes (DH)
HCAI	Healthcare Associated Infections
HEE	Health Education England
HENW	Health Education North West
HF	(The) Health Foundation
HIS	Healthcare Infection Society
HSE	Health and Safety Executive
IPS	Infection Prevention Society
MERS-CoV	Middle East respiratory syndrome coronavirus
MRC	Medical Research Council
MRSA	Meticillin Resistant <i>Staphylococcus aureus</i>
MSSA	Meticillin Susceptible <i>Staphylococcus aureus</i>
NARU	National Ambulance Resilience Unit
NEJM	New England Journal of Medicine
NES	NHS Education for Scotland
NHS	National Health Service
NHSE	NHS England
NICE	National Institute for Health and Care Excellence
PHE	Public Health England
RCGP	Royal College of General Physicians
RCOG	Royal College of Obstetricians and Gynaecologists
RCN	Royal College of Nursing
RPS	Royal Pharmaceutical Society
SEWTU	South East Wales Trials Unit
SSTF	Start Smart then Focus
STIs	Sexually transmitted infections
TARGET	Treat Antibiotics Responsibly, Guidance, Education, Tools
TCC	The Cochrane Collaboration
UKCPA	United Kingdom Clinical Pharmacy Association
VMD	Veterinary Medicines Directorate
VTEC	Verotoxin-producing <i>Escherichia coli</i>
WAAW	World Antibiotic Awareness Week
WHO	World Health Organisation

Strategy and national guidance (AMR, AMS, IPC)

Guidance/Policy document	Author	Type	Key message(s)	Year
<p>UK 5 Year Antimicrobial Resistance Strategy 2013 to 2018</p> <p>https://www.gov.uk/government/publications/uk-5-year-antimicrobial-resistance-strategy-2013-to-2018</p>	<p>DH</p> <p>DEFRA</p>	Strategy	<p>This strategy sets out actions to address the key challenges to AMR with an overarching goal being to slow the development and spread of AMR. It focusses activities around 3 strategic aims: (1) Improve the knowledge and understanding of AMR (2) Conserve and steward the effectiveness of existing treatments (3) Stimulate the development of new antibiotics, diagnostics and novel therapies.</p>	2013
<p>The Health and Social Care Act 2008: code of practice on the prevention and control of infections and related guidance</p> <p>https://www.gov.uk/government/publications/the-health-and-social-care-act-2008-code-of-practice-on-the-prevention-and-control-of-infections-and-related-guidance</p>	DH	Code of Practice	<p>This revised version of the code of practice now reflects the changes required to meet the health and social care act 2008 and the role of infection prevention (including cleanliness) in optimising antimicrobial use and reducing antimicrobial resistance</p>	2015
<p>UK one health report: antibiotics use in humans and animals</p> <p>https://www.gov.uk/government/publications/uk-one-health-report-antibiotics-use-in-humans-and-animals</p>	<p>PHE</p> <p>and</p> <p>VMD</p>	Research and analysis	<p>A joint report on human and animal antibiotic use, sales and resistance in the UK in 2013.</p>	2013

<p>Review on antimicrobial resistance (O’Neill Report)</p> <p>http://amr-review.org/</p> <p>https://amr-review.org/Publications.html</p>	<p>O’Neill Review team</p>	<p>Review</p>	<p>The review on antimicrobial resistance is independent and engages widely with international stakeholders. This includes reviews:</p> <ul style="list-style-type: none"> • Infection prevention, control and surveillance: Limiting the development and spread of drug-resistance • Tackling drug-resistant infections globally: An overview of our work • Vaccines and alternative approaches: reducing our dependence on antimicrobials • Antimicrobials in agriculture and the environment: reducing unnecessary use and waste • Safe, Secure and Controlled: Managing the Supply Chain of Antimicrobials • Rapid Diagnostics: Stopping unnecessary use of antibiotics • Securing New Drugs for Future Generations – the Pipeline of Antibiotics • Tackling a global health crisis: Initial steps • Antimicrobial Resistance: Tackling a Crisis for the Future Health and Wealth of Nations 	<p>2014 -16</p>
<p>Health Matters: Antimicrobial Resistance</p> <p>https://www.gov.uk/government/publications/health-matters-antimicrobial-resistance/health-matters-antimicrobial-resistance</p>	<p>PHE</p>	<p>Guidance</p>	<p>This guidance focuses on what we know works to help improve appropriate prescribing. It is aimed at those responsible for prescribing, local authorities and public health policymakers.</p>	<p>2015</p>

<p>Chief Medical Officer annual report 2011: volume 2</p> <p>https://www.gov.uk/government/publications/chief-medical-officer-annual-report-volume-2</p>	<p>DH</p>	<p>Report</p>	<p>This report sets out the challenges and opportunities facing us in the prevention, diagnosis and management of infectious diseases and AMR. It includes a series of recommendations that are framed as challenges for action.</p>	<p>2011</p>
<p>The green book: immunisation against infectious diseases</p> <p>https://www.gov.uk/government/collections/immunisation-against-infectious-disease-the-green-book</p>	<p>PHE</p>	<p>Collection</p>	<p>The “Green Book” has the latest information on vaccines and vaccination procedures, for vaccine preventable infectious diseases in the UK.</p>	<p>2013</p>
<p>Collections page; Antimicrobial Resistance (AMR)</p> <p>https://www.gov.uk/government/collections/antimicrobial-resistance-amr-information-and-resources</p>	<p>DEFRA, DH, PHE, VMD</p>	<p>Collection</p>	<p>Information and resources on the government’s plans to slow the growth of antimicrobial resistance.</p>	<p>2014-2016</p>

Policy and recommendations

Antimicrobial stewardship

Guidance/Policy Document	Author	Type	Key message(s)	Year
<p>NICE Guidance: Antimicrobial stewardship; behaviours, systems and processes, prescribing and quality statement.</p> <ol style="list-style-type: none"> https://www.nice.org.uk/guidance/ng63 https://www.nice.org.uk/Guidance/NG15 https://www.nice.org.uk/advice/ktt9 https://www.nice.org.uk/guidance/qs121 	NICE	Guidance	<p>The purpose of these guidelines is to provide good practice recommendations for the effective use of antimicrobials</p> <ol style="list-style-type: none"> AMS: changing risk related behaviours in the general population AMS: systems and processes for effective antimicrobial medicine use AMS: prescribing antibiotics Antimicrobial stewardship QS121 	2015
<p>Patient safety alert: Addressing antimicrobial resistance through implementation of an antimicrobial stewardship programme 18 August 2015</p> <p>https://www.england.nhs.uk/wp-content/uploads/2015/08/psa-amr-stewardship-prog.pdf</p>	HEE, NHSE, PHE	Safety Alert	<p>This alert has been jointly issued by HEE, NHSE and PHE to highlight the challenge of AMR and to signpost the toolkits developed by PHE to support the NHS in improving antimicrobial stewardship in both primary and secondary care</p>	2015

<p>Start smart then focus: Antimicrobial stewardship toolkit for english hospitals</p> <p>https://www.gov.uk/government/publications/antimicrobial-stewardship-start-smart-then-focus</p>	<p>PHE</p>	<p>National Toolkit</p>	<p>This toolkit provides an outline of evidence-based antimicrobial stewardship in the secondary healthcare setting to help reduce inappropriate prescribing and optimise antibiotic use.</p>	<p>2011</p>
<p>Start smart then focus: resource materials (examples of audit tools, review stickers and drug charts)</p> <p>https://www.gov.uk/government/publications/antimicrobial-stewardship-start-smart-then-focus</p>	<p>PHE</p>	<p>National Toolkit resource materials</p>	<p>This appendix section of the Start Smart Then Focus Antimicrobial Stewardship Toolkit for secondary care contains Antimicrobial Stewardship resource materials</p>	<p>2011</p>
<p>Treat antibiotics responsibly, guidance, education, tools (TARGET): Antibiotic toolkit for primary care</p> <p>http://www.rcgp.org.uk/clinical-and-research/toolkits/target-antibiotics-toolkit.aspx</p>	<p>PHE, RCGP</p>	<p>National Toolkit</p>	<p>The TARGET antibiotics toolkit aims to help influence prescribers' and patients' personal attitudes, social norms and perceived barriers to optimal antibiotic prescribing used by the whole primary care team within the GP practice or out of hours setting</p>	<p>2012</p>
<p>2017/19 Antimicrobial and Sepsis CQUIN</p>	<p>NHSE</p>	<p>Quality improvement</p>	<p>The CQUIN scheme is intended to deliver clinical quality improvements and drive transformational change. One of the indicators is focussed on reducing the impact of serious antimicrobial resistance and includes incentives for achieving this.</p>	<p>2017</p>

<p>Quality Premium guidance 2017/19</p> <p>https://www.england.nhs.uk/resources/resources-for-ccgs/ccg-out-tool/ccg-ois/qual-prem/</p>	<p>NHSE</p>	<p>Guidance</p>	<p>The quality premium is intended to reward clinical commissioning groups (CCGs) for improvements in the quality of the services that they commission and for associated improvements in health outcomes and reducing inequalities. There is also a focus on reducing antimicrobial resistance and includes incentives for achieving this.</p>	<p>2017</p>
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Infection prevention and control

Guidance/Policy Document	Author	Type	Key message(s)	Year
<p>epic3: National evidence-based guidelines for preventing healthcare-associated infections in nhs hospitals in england</p> <p>http://www.his.org.uk/files/3113/8693/4808/epic3_National_Evidence-Based_Guidelines_for_Preventing_HCAI_in_NHSE.pdf</p>	HIS, JHI	Guidance	Comprehensive recommendations for preventing HCAI in hospital and other acute care settings based on the best currently available evidence.	2013
<p>epic3: Revised recommendation for intravenous catheter and catheter site care</p> <p>http://www.journalofhospitalinfection.com/article/S0195-6701(15)00488-0/pdf</p>	HIS, JHI	Addendum	Review of the evidence and wording of the recommendation relating to the use of CHG-impregnated dressings.	2015
<p>NICE guidelines (PH36): Healthcare-associated infections: prevention and control</p> <p>https://www.nice.org.uk/guidance/ph36</p>	NICE	Guidance	Quality improvement guide for board members working in (or with) hospitals to reduce the risk of harm from healthcare-associated infections for patients, staff and visitors; and to reduce the costs associated with preventable infection.	2011
<p>Healthcare-associated infections: prevention and control in primary and community care Clinical guideline (CG139)</p> <p>https://www.nice.org.uk/guidance/cg139</p>	NICE	Clinical guideline	This guideline covers preventing and controlling healthcare-associated infections in children, young people and adults in primary and community care settings.	2012-2017
<p>NICE quality standard (QS113): Healthcare-associated infections</p> <p>https://www.nice.org.uk/guidance/qs113</p>	NICE	Quality Standards	This quality standard covers organisational factors in preventing and controlling healthcare-associated infections in secondary care settings.	2016

<p>NICE quality standard (QS61): Infection prevention and control</p> <p>https://www.nice.org.uk/guidance/qs61</p>	<p>NICE</p>	<p>Quality Standards</p>	<p>This quality standard covers the prevention and control of infection for people receiving healthcare in primary, community and secondary care settings.</p>	<p>2014</p>
<p>Patient safety alert: stage two: Resources to support the prompt recognition of sepsis and the rapid initiation of treatment</p> <p>http://www.nhs.uk/CurrentActivity/Documents/Patient%20Safety%20Alert%20-%20Sepsis.pdf</p>	<p>NHSE</p>	<p>Safety Alert</p>	<p>This patient safety alert applies to all patient age groups. Sepsis is a time-critical medical emergency, which can occur as part of the body's response to infection.</p>	<p>2014</p>
<p>Decontamination of surgical instruments (HTM 01-01)</p> <p>https://www.gov.uk/government/publications/management-and-decontamination-of-surgical-instruments-used-in-acute-care</p>	<p>DH</p>	<p>Health Technology Memorandum</p>	<p>HTM 01-01: guidance about the management and decontamination of reusable medical devices</p>	<p>2013</p>
<p>Decontamination of linen for health and social care (HTM 01-04)</p> <p>https://www.gov.uk/government/publications/decontamination-of-linen-for-health-and-social-care</p>	<p>DH</p>	<p>Health Technical Memoranda</p>	<p>Health Technical Memorandum (HTM) 01-04: guidance about decontaminating linen used in health and social care.</p>	<p>2013</p>
<p>Management and decontamination of flexible endoscopes (HTM 01-06)</p> <p>https://www.gov.uk/government/publications/management-and-decontamination-of-flexible-endoscopes</p>	<p>DH</p>	<p>Choice Framework for local Policy and Procedures</p>	<p>HTM 01-06 provides guidance on the management and decontamination of flexible endoscopes.</p>	<p>2013</p>

<p>Management and disposal of healthcare waste (HTM 07-01)</p> <p>https://www.gov.uk/government/publications/guidance-on-the-safe-management-of-healthcare-waste.</p>	DH	Health Technical Memoranda	Health technical memorandum (HTM) 07-01: management and disposal of healthcare waste.	2013
<p>Safe water in healthcare premises (HTM 04-01)</p> <p>https://www.gov.uk/government/publications/hot-and-cold-water-supply-storage-and-distribution-systems-for-healthcare-premises</p>	DH	Health Technical Memoranda	Guidance on design, installation, commissioning, testing, monitoring and operation of water supply systems in healthcare premises.	2006 2016
<p>Communicable disease outbreak management: operational guidance</p> <p>https://www.gov.uk/government/publications/communicable-disease-outbreak-management-operational-guidance</p>	PHE	Guidance	Roles and responsibilities of key agencies and the agreed procedures during local and national outbreak investigations.	2014
<p>Safe water in healthcare premises (HTM 04-01)</p> <p>https://www.gov.uk/government/publications/hot-and-cold-water-supply-storage-and-distribution-systems-for-healthcare-premises</p>	DH	Health Technical Memoranda	Health technical memorandum 04-01: guidance on the design, installation commissioning , testing monitoring and operation of water supply systems healthcare premises.	2016
<p>In addition to those above, please see: Health technical memoranda if you are unable to find the specific HTM you require.</p>	DH	Website	This series brings together all documents relating to Health technical memoranda.	2013

<p>https://www.gov.uk/government/collections/health-technical-memorandum-disinfection-and-sterilization</p>				
<p>Infection prevention and control: lessons from acute care in England: Towards a whole health economy approach.</p> <p>http://www.health.org.uk/publication/infection-prevention-and-control-lessons-acute-care-england</p>	<p>HF</p>	<p>Learning report</p>	<p>This report considers what has been learned from the infection prevention and control (IPC) work carried out over the last 15 years in hospitals in England and looks at how these lessons should be applied in future.</p>	<p>2015</p>

Education and training

Antimicrobial stewardship

Guidance/Policy Document	Author	Type	Key message(s)	Year
<p>Antimicrobial prescribing and stewardship competencies</p> <p>https://www.gov.uk/government/publications/antimicrobial-prescribing-and-stewardship-competencies</p>	PHE	Competencies	These competencies are intended for all independent prescribers to help improve the quality of antimicrobial treatment and stewardship and so reduce the risks of inadequate, inappropriate and ill-effects of treatment.	2013
<p>Reducing antimicrobial resistance e-learning course</p> <p>http://www.e-lfh.org.uk/programmes/antimicrobial-resistance</p>	HEE PHE	E-Learning Course	This resource provides an educational tool intended for all health and social care staff (both clinical and non-clinical), to improve infection prevention and control practices and antimicrobial stewardship programmes. This in turn can reduce healthcare-associated infection and antimicrobial resistance.	2015
<p>Massive open online course (MOOC) on antimicrobial stewardship</p> <p>https://www.futurelearn.com/courses/antimicrobial-stewardship</p>	BSAC	Online Course	This resource provides a free online education tool intended to help healthcare professionals understand what antimicrobial stewardship is and how they can apply it every day.	2015

Antimicrobial stewardship educational workbook for nurses and midwives http://www.nes.scot.nhs.uk/about-us/whats-new/antimicrobial-stewardship-workbook-for-nurses-and-midwives-launched.aspx	NES	Workbook	A resource for nurses and midwives to learn about the nursing and midwifery role in antimicrobial stewardship	2015
e-Bug http://www.e-bug.eu/	PHE	Website	e-Bug is a free educational resource for classroom and home use and makes learning about micro-organisms, the spread, prevention and treatment of infection fun and accessible for all students.	2015
Antibiotic guardian http://antibioticguardian.com/	PHE	Website	A campaign led by PHE which urges members of the public and healthcare professionals to take action in helping to slow antibiotic resistance by taking a pledge about how they can personally prevent infections and make better use of antibiotics to help protect these vital medicines.	2014
Antibacterial resistance - a global threat to public health: the role of the pharmacy team https://www.cppe.ac.uk/programmes//antibac-res-p-01/	CPPE	Learning Programme	A learning programme for pharmacists about the issues of antimicrobial resistance and healthcare-associated infections (HCAs) and the important role of the pharmacy team in supporting healthcare professionals and patients to optimise patient outcomes in antimicrobial therapy, while minimising harm.	2014
Infection and antimicrobial stewardship: expert professional practice curriculum http://bsac.org.uk/wp-content/uploads/2014/10/Professional-Curriculum-Infection-and-Antimicrobial-Stewardship.pdf	UKCPA RPS	Curriculum	This curriculum provides an overview of the knowledge, skills, experiences and behaviours required to practice at advanced level in Infection and Antimicrobial Stewardship at three stages. It is intended to be used by practitioners to support the development of their practice at an advanced level within Infection and Antimicrobial Stewardship.	2014

<p>Antimicrobials and infection management</p> <p>https://www.cppe.ac.uk/programmes//antimicro-e-01/</p>	CPPE	Learning Programme	This programme provides pharmacists with the knowledge and skills required to promote prudent antimicrobial prescribing and minimise the occurrence of healthcare associated infections (HCAIs).	2010
<p>ESPID Antibiotic management course</p> <p>http://penta-id.org/education/esp-id-antibiotic-management-course.html</p>	ESPID	Course	Online course on antibiotic prescribing and management of antimicrobial resistance among neonatal and paediatric patients for European physicians and physician trainees.	2015
<p>theLearningPharmacy.com antibacterial module</p> <p>http://www.thelearningpharmacy.com/content/programme.asp?topic=35</p>	CPPE	Online Learning Programme	An interactive online learning environment for the whole pharmacy team. It offers bite-sized learning activities to help the community pharmacy team develop together to deliver better outcomes for patients.	2015
<p>Core skills training framework: infection prevention and control</p> <p>http://www.cmtpct.nhs.uk/north-west-core-skills/resources/education-resources.asp</p>	HENW	Online Learning Programme	There are two levels of training on Infection Prevention and Control modules. These are part of the core skills framework adopted by most NHS Trusts.	2015
<p>Royal college of physicians' top ten tips for effective antibiotic prescribing</p> <p>https://www.rcplondon.ac.uk/sites/default/files/rcp-insight-haiwg-0005-07-2011-effective-antibiotic-prescribing-top-10-tips.pdf</p>	RCP	Guidance	A series of 'top ten tips' produced by the RCP's Healthcare Associated Infections working group as a response to the rise in healthcare associated infection (HCAI).	2016
<p>PHE TARGET Educational Modules</p> <p>http://www.rcgp.org.uk/TARGETantibiotics</p>	PHE RCGP	Learning Resource	The training resources help to fulfil CPD and revalidation requirements, including group and training presentations and e-learning modules on a range of topics such as AMR, UTI, RTI, Skin infections, diarrhoea, STIs etc.	2016

PHE TARGET Antibiotics webinars http://www.target-webinars.com/	PHE RCGP	Learning Resource - webinars	The PHE TARGET antibiotics webinars cover 7 key things GP staff can do to improve antibiotic prescribing covering audit, communication, near patient tests, delayed/back-up prescribing, UTIs, children and the whole practical approach.	2016
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Infection prevention and control

Guidance/Policy Document	Author	Type	Key message(s)	Year
Infection prevention society http://www.ips.uk.net/education-events/courses/	IPS	Website	List of Infection Prevention and control courses, including Master's and Post-Graduate Diplomas.	2015
Skills for health resources; infection prevention and control http://www.skillsforhealth.org.uk/resources/service-area/30-infection-prevention-and-control	Skills for Health	Website	Training, competencies, e-learning and additional resources to support the workforce in the area of infection, prevention and control.	2016
e-LfH. Infection control module http://portal.e-lfh.org.uk/Component/Details/391213	Health Education England	e-Learning	Skills required for the appropriate management of patients with a variety of infective disorders. These skills will relate to the treatment of patients with infections, whilst at the same time reducing the risk these infections pose to patients and staff alike.	2012
e-LfH. Infection prevention and control modules: level 1 http://portal.e-lfh.org.uk/Component/Details/395566	Health Education England	e-Learning	e-Learning Lite package on Infection Prevention and Control - Level 1. It is aimed at all staff, including contractors, unpaid and voluntary staff. It has been designed to meet the relevant learning outcomes in the UK Core Skills Training Framework.	2015

<p>e-LfH. Infection prevention and control modules: level 2</p> <p>http://portal.e-lfh.org.uk/Component/Details/395569</p>	<p>Health Education England</p>	<p>e-Learning</p>	<p>e-Learning Lite package on Infection Prevention and Control - Level 2. It is aimed at all healthcare staff groups involved in direct patient care or services. It has been designed to meet the relevant learning outcomes in the UK Core Skills Training Framework.</p>	<p>2015</p>
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Guidance and tools

Antimicrobial stewardship

Guidance/Policy Document	Author	Type	Key message(s)	Year
<p>The antimicrobial self-assessment toolkit for nhs trusts (ASAT)</p> <p>http://imperial-asat.herokuapp.com/</p>	<p>ARHAI</p> <p>DH</p>	Toolkit	The aim of this antimicrobial self-assessment toolkit (ASAT) is to evaluate and assess the antimicrobial stewardship programmes that exist within NHS acute hospitals.	2010
<p>Practical guide to antimicrobial stewardship in hospitals</p> <p>http://bsac.org.uk/wp-content/uploads/2013/07/Stewardship-Booklet-Practical-Guide-to-Antimicrobial-Stewardship-in-Hospitals.pdf</p>	BSAC	Guideline	The objective of this booklet is to provide practical recommendations for healthcare workers in hospitals to improve the quality of antibiotic prescribing and thereby improve patient clinical outcomes.	2012
<p>Cochrane review: Interventions to improve antibiotic prescribing practices for hospital inpatients</p> <p>http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD003543.pub3/pdf</p>	TCC	Review (PDF)	The primary aim of this review was to identify interventions that, alone, or in combination, are effective in improving antibiotic prescribing to hospital inpatients.	2013

Quality Premium: 2015/16 guidance for CCGs https://www.england.nhs.uk/wp-content/uploads/2013/12/qual-prem-guid.pdf	NHS England	Guidance (PDF)	The 'quality premium' is intended to reward clinical commissioning groups (CCGs) for improvements in the quality of the services that they commission and includes a measure to improve antibiotic prescribing in primary and secondary care.	2015
NICE quality standard (QS75): Neonatal infection https://www.nice.org.uk/guidance/qs75	NICE	Quality Standard	This quality standard covers the use of antibiotics to prevent and treat infection in newborn babies (both term and preterm) from birth to 28 days in primary (including community) and secondary care.	2014
NICE guidelines (CG160): Fever in under 5s: assessment and initial management https://www.nice.org.uk/guidance/cg160	NICE	Guidance	This clinical guideline updates and replaces NICE guideline CG47 (published May 2007). It offers evidence-based advice on the care of young children with feverish illness.	2013
NICE guidelines (CG69): Respiratory tract infections (self-limiting): prescribing antibiotics https://www.nice.org.uk/guidance/cg69	NICE	Guidance	The advice in the NICE guideline covers adults and children (3 months and older) who see their GP or nurse practitioner because of a respiratory tract infection.	2014
Dental Antimicrobial Stewardship toolkit https://www.gov.uk/guidance/dental-antimicrobial-stewardship-toolkit	BDA FGDP PHE	Toolkit	The dental antimicrobial stewardship toolkit for primary care was developed to provide a set of tools to help primary care practitioners promote the appropriate use of antibiotics in dental care.	2016
PrescQIPP AMS Hub https://www.prescqipp.info/antimicrobial-stewardship/projects/antimicrobial-stewardship	NHS NHSI	Resources	The AMS Hub which is hosted as part of a PrescQIPP collaboration with NHSI and NHSE to support CCG AMR Quality Premium. The AMS Hub has been designed to sign post to resources to support local stewardship activity and reports England CCG and GP practice level primary care prescribing data in both excel and Tableau formats.	2016

<p>All Our Health Resources</p> <p>https://www.gov.uk/government/collections/all-our-health-personalised-care-and-population-health</p>	<p>PHE</p>	<p>Resources</p>	<p>All Our Health is a call to action for all healthcare professionals to use their skills and relationships to maximise their impact on avoidable illness, health protection and promotion of wellbeing and resilience.</p>	<p>2016 (2nd update)</p>
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Infection prevention and control

Ambulance guidelines

Document	Author	Type	Key message(s)	Year
<p>Pandemic flu</p> <p>Pandemic flu infection control: ambulance services</p> <p>https://www.gov.uk/government/publications/pandemic-flu-infection-control-ambulance-services</p>	DH	Guidance	Provides information on infection control for ambulance services and lay responders during an influenza (flu) pandemic.	2010
<p>HCAI (pre-hospital)</p> <p>Ambulance guidelines: Reducing infection through effective practice in the pre-hospital environment.</p> <p>http://aace.org.uk/wp-content/uploads/2011/11/New-DH-Guidelines-Reducing-HCAIs.pdf</p>	DH	Guidance (PDF)	This guide explains how the risk of infection can be reduced by adhering to good practice in: hand hygiene; the use of personal protective equipment; aseptic technique; and working in the pre-hospital environment.	2008
<p>Chemical biological radiological nuclear explosives (CBRNE) / HAZMAT</p> <p>National Ambulance Resilience Unit HAZMAT-CBRNE Guidance</p> <p>http://naru.org.uk/documents/naru-hazmat-cbrne-guidance/?doing_wp_cron=1453722480.7785489559173583984375</p>	NARU	Guidance	Structured guidance to assist in the management of NHS resources as part of the multi-agency response to a CBRNE/HazMat event.	2014

Built environment, water and waste

Document	Author	Type	Key message(s)	Year
Health building note 00-09: Infection control in the built environment https://www.gov.uk/government/publications/guidance-for-infection-control-in-the-built-environment	DH	Guidance	Discusses the various stages of a capital build project from initial concept to post-project evaluation highlighting IPC issues and risks.	2013
HSE: Legionella and Legionnaires' disease website http://www.hse.gov.uk/legionnaires/	HSE	Website and Guidance	This website provides practical advice and guidance to control the risks from exposure to Legionella in manmade water systems.	2014
In addition to those above, please see: DH Health building notes if you are unable to find the specific HBN you require. https://www.gov.uk/government/collections/health-building-notes-core-elements	DH	Website	This series brings together all documents relating to Health building notes	2014
Guidelines on the facilities required for minor surgical procedures and minimal access interventions. http://www.his.org.uk/files/8813/7389/0782/Guidelines_on_the_facilities_required_for_min_or_surgical_procedures_and_minimal_access_interventions.pdf	HIS	Guidelines (PDF)	Recommendations for those designing new facilities or upgrading existing facilities for minor surgical procedures and minimal access interventions.	2012

<p>National specifications for cleanliness in the NHS</p> <p>http://www.nrls.npsa.nhs.uk/resources/?EntryId45=59818</p>	NHSE	Guidance	<p>This document sets out the national specifications for cleanliness in the NHS. The specifications apply chiefly to ‘traditional’ hospitals – whether in the acute, mental health or primary care trust communities – but their principles apply equally to other settings.</p>	2007
<p>Patient-led assessments of the care environment (PLACE)</p> <p>https://www.england.nhs.uk/ourwork/qual-clin-lead/place/</p>	NHSE	Assessment tools	<p>Hospital assessments by local people as part of teams to assess how the environment supports patient’s privacy and dignity, food, cleanliness and general building maintenance. It focuses entirely on the care environment and does not cover clinical care provision or how well staff are doing their job.</p>	2016

Clinical practice and Commissioning

Document	Author	Type	Key message(s)	Year
IPC commissioning toolkit: Guidance and information for nursing and commissioning staff in England https://www2.rcn.org.uk/__data/assets/pdf_file/0006/481290/Infection_prevention_Final.pdf	RCN IPS	Guidance	The toolkit provides information for professionals involved in the commissioning or assurance of health and social care services. It relates specifically to the organisational approach to infection prevention and control.	2014
Infection Prevention Society & NHS improvement High Impact Interventions https://improvement.nhs.uk/	IPS NHSI	Tools and Resources	Provides the tools and resources for Trusts to achieve effective prevention and control of HCAs. (NB; Not published at time of handbook update as still under review)	
Carbapenemase-producing Enterobacteriaceae: early detection, management and control toolkit for acute trusts https://www.gov.uk/government/publications/carbapenemase-producing-enterobacteriaceae-early-detection-management-and-control-toolkit-for-acute-trusts	PHE	Toolkit	This toolkit provides expert advice on the management of colonisation or infection due to carbapenemase-producing Enterobacteriaceae in England, to prevent or reduce their spread into (and within) health and residential care settings.	2014
Development of a sporicidal test method for <i>Clostridium difficile</i> http://www.his.org.uk/files/6514/3798/2352/1-s2.0-S0195670114003120-main.pdf	HIS	Guidelines (PDF)	Development of a method for testing the activity of disinfectants against <i>Clostridium difficile</i> spores using exposure times and pass criteria which are relevant to clinical application.	2015

<p>Guidance on the use of respiratory and facial protection equipment</p> <p>http://www.his.org.uk/files/1113/8425/5518/Guidance_on_the_Use_of_Respiratory_and_Facial_Protection_Equipment.pdf</p>	HIS	Guidelines (PDF)	This article provides guidance (best practice guidelines) to support HCWs in hospital or community settings to select and wear the appropriate respiratory and facial protection to minimize the risk of acquisition of infection in the workplace.	2013
<p>Decontamination of breast pump milk collection kits and related items at home and in hospital: guidance from a joint working group of the healthcare infection society and infection prevention society</p> <p>http://www.journalofhospitalinfection.com/article/S0195-6701(15)00352-7/pdf</p>	HIS	Guidelines (PDF)	A variety of methods are in use for decontaminating breast pump milk collection kits and related items associated with infant feeding.	2015
<p>Prevention and control of multi-drug-resistant Gram-negative bacteria: recommendations from a Joint Working Party</p> <p>http://www.journalofhospitalinfection.com/article/S0195-6701(15)00314-X/pdf</p>	HIS	Guidance (PDF)	Provides advice on screening (testing), treatment and precautions needed to prevent the spread of MDR Gram-negative bacteria.	2016
<p>In addition to those above, please see: Healthcare Infection Society Guidelines if you are unable to find the specific disease/organism listed here.</p> <p>http://www.his.org.uk/resources-guidelines/his-guidelines/</p>	HIS	Guidance	Guidelines produced by HIS working parties and in collaboration with other professional organisations.	2016

Bacterial sepsis in pregnancy: green-top guideline no. 64a https://www.rcog.org.uk/globalassets/documents/guidelines/gtg_64a.pdf	RCOG	Guidelines	This guideline covers the recognition and management of serious bacterial illness in the antenatal and intrapartum periods, arising in the genital tract or elsewhere, and its management in secondary care.	2012
The prevention of early-onset neonatal group b streptococcal disease: green-top guideline no. 36 https://www.rcog.org.uk/globalassets/documents/guidelines/gtg_36.pdf	RCOG	Guidelines	This guideline is to provide guidance for obstetricians, midwives and neonatologists on the prevention of early-onset neonatal group B streptococcal (EOGBS) disease.	2012
Chickenpox in pregnancy: green-top guideline no. 13 https://www.rcog.org.uk/globalassets/documents/guidelines/gtg13.pdf	RCOG	Guidelines	This guideline addresses the role of varicella vaccination in susceptible women of reproductive age.	2015
Catheter associated urinary tract infections Catheter care: RCN guidance for nurses https://www2.rcn.org.uk/__data/assets/pdf_file/0018/157410/003237.pdf	RCN	Guidance	Further clarity and depth to the six competences related to aspects of catheter care.	2012
Central venous catheters Preventing Complications of Central Venous Catheterization http://www.nejm.org/doi/full/10.1056/nejmra011883	NEJM	Review Article	Review to explain methods for reducing the frequency of complications in adult patients.	2003

<p>Enteral feeding</p> <p>NICE Guidelines CG32: Nutrition support for adults: oral nutrition support, enteral tube feeding and parenteral nutrition</p> <p>http://www.nice.org.uk/guidance/cg32</p>	NICE	Guidance	The NICE guideline on nutrition support in adults covers the care of patients with malnutrition or at risk of malnutrition, whether they are in hospital or at home.	2015
<p>Surgical site infections</p> <p>NICE Guidelines CG74: Surgical site infections: prevention and treatment</p> <p>http://www.nice.org.uk/guidance/cg74</p>	NICE	Guidance	The NICE guideline on Surgical site infections covers adults and children who are going to have a cut through the skin for an operation.	2008
<p>Respiratory Tract Infections</p> <p>NICE Guidelines CG191: Pneumonia in adults: diagnosis and management</p> <p>http://www.nice.org.uk/guidance/cg191</p> <p>Clinical guideline CG69: Respiratory tract infections (self-limiting): prescribing antibiotics</p> <p>https://www.nice.org.uk/guidance/cg69</p>	NICE	Guidance	The NICE guideline on respiratory tract infections covers evidence-based advice on the care and management of adults with community and hospital acquired pneumonia, and self-limiting respiratory tract infections.	2014
<p>Ventilator associated pneumonia</p> <p>BMJ Clinical Review: Ventilator associated pneumonia</p> <p>http://www.bmj.com/content/344/bmj.e3325</p>	BMJ	Clinical Review	This review is to update readers on the diagnosis, management, and prevention of this serious infection.	2012

Quality improvement and audit

Document	Author	Type	Key message(s)	Year
NICE evidence search: health and social care http://www.evidence.nhs.uk/	NICE	Search engine	Evidence search for governance information, up-to-date policies, procedures and publications.	2014
Infection prevention society: information to access/use the Quality Improvement Tool database http://www.ips.uk.net/professional-practice/quality-improvement-tools/information-accessuse-qit-database/	IPS	Database	Quality Improvement Tool Database	2016
Clinical guideline CG139; Healthcare-associated infections: prevention and control in primary and community care https://www.nice.org.uk/guidance/cg139/resources	NICE	Clinical guideline	This guideline covers preventing and controlling healthcare-associated infections in children, young people and adults in primary and community care settings. It provides a blueprint for the infection prevention and control precautions that should be applied by everyone involved in delivering NHS care and treatment.	

Sepsis; Prevention and Management

Document	Author	Type	Key message(s)	Year
<p>Sepsis: recognition, diagnosis and early management resources;</p> <p>https://www.nice.org.uk/guidance/ng51/</p> <p>https://www.nice.org.uk/guidance/ng51/resources</p>	NICE	Guidance and resources	<p>These guidelines and tools cover the recognition, diagnosis and early management of sepsis for all populations. The NICE guidance includes the following information;</p> <ol style="list-style-type: none"> 1. Sepsis: recognition, diagnosis and early management NG51 2. Baseline assessment tool 3. Educational resources 4. Algorithm for managing suspected sepsis in adults and young people 5. Algorithm for managing suspected sepsis in children 	2016
<p>The UK sepsis trust website</p> <p>http://sepsistrust.org/</p>	The UK Sepsis Trust	Website	<p>The UK Sepsis Trust (UKST) was established as a charity in 2012 with the objective of saving 12,500 lives every year They are committed to changing the way the NHS deals with Sepsis, to increasing public awareness and supporting those affected by Sepsis</p>	2016

Specific organisms

Document	Author	Type	Key message(s)	Year
<p>Blood borne viruses (BBVs)</p> <p>Blood borne infections in blood, tissue and organ donors (BIBD): guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/bloodborne-infections-in-blood-and-tissue-donors-bibd-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The NHSBT / PHE epidemiology unit and the epidemiology of infections among blood, tissue and organ donors and recipients.	2014
<p>Blood borne viruses in healthcare workers: report exposures and reduce risks</p> <p>https://www.gov.uk/guidance/bloodborne-viruses-in-healthcare-workers-report-exposures-and-reduce-risks</p>	PHE	Monitoring and Advice	Monitoring significant occupational exposures to HIV, hepatitis B and hepatitis C in healthcare workers, and advising on avoiding injuries.	2012
<p>Carbapenem resistance</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/carbapenem-resistance-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The management, surveillance and epidemiology of carbapenem resistance.	2013

<p>Creutzfeldt-Jakob disease (CJD)</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/creutzfeldt-jakob-disease-cjd-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The characteristics, diagnosis, management, surveillance and epidemiology of CJD.	2008
<p><i>Clostridium difficile</i></p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/clostridium-difficile-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The characteristics, diagnosis, management, surveillance and epidemiology of <i>Clostridium difficile</i> (<i>C. difficile</i>).	2014
<p>NICE interventional procedure guidance (IPG485) Faecal microbiota transplant for recurrent <i>Clostridium difficile</i> infection</p> <p>https://www.nice.org.uk/guidance/ipg485</p>	NICE	Guidance	Full guidance to the NHS in England, Wales, Scotland and Northern Ireland on Faecal microbiota transplant for recurrent <i>Clostridium difficile</i> infection.	2014
<p><i>Escherichia coli</i> (<i>E. coli</i>)</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/escherichia-coli-e-coli-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	<i>Escherichia coli</i> (<i>E. coli</i>): guidance, data and analysis	2014

<p><i>Resources to support the reduction in Gram-negative blood stream infections will also be available from the NHSI website. (Due April 2017)</i></p> <p>https://improvement.nhs.uk/</p>	NHSI	Resources (to be published)		2017
<p>Extended-spectrum beta-lactamases (ESBLs)</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/extended-spectrum-beta-lactamases-esbls-guidance-data-analysis</p>	PHE	Guidance, data and analysis	The diagnosis, management and surveillance of extended-spectrum beta-lactamases (ESBLs).	2014
<p>Gastrointestinal infections</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/gastrointestinal-infections-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The characteristics, diagnosis, management and epidemiology of gastrointestinal infections.	2014
<p>Group A streptococcal infections</p> <p>https://www.gov.uk/government/collections/group-a-streptococcal-infections-guidance-and-data</p>	PHE		The characteristics, diagnosis and management of group A streptococci infections.	2014

<p>Group B streptococcal infections</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/guidance/group-b-streptococcal-infections</p>	PHE	Guidance, data and analysis	The characteristics, diagnosis, treatment, and epidemiology of group B streptococci.	2013
<p>Klebsiella species</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/guidance/klebsiella-species</p>	PHE	Guidance, data and analysis	The diagnosis, management and surveillance of Klebsiella spp.	2008
<p>Legionnaires' disease</p> <p>Guidance data and analysis</p> <p>https://www.gov.uk/government/collections/legionnaires-disease-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The symptoms, diagnosis, management, surveillance and epidemiology of Legionnaires' disease.	2014
<p>Middle East respiratory syndrome coronavirus (MERS-CoV)</p> <p>Clinical management and guidance</p> <p>https://www.gov.uk/government/collections/middle-east-respiratory-syndrome-coronavirus-mers-cov-clinical-management-and-guidance</p>	PHE	Guidance, data and analysis	Middle East respiratory syndrome coronavirus (MERS-CoV): clinical management and guidance	2012

<p>Norovirus</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/norovirus-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The symptoms, diagnosis, management and epidemiology of norovirus.	2014
<p><i>Pseudomonas aeruginosa</i></p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/pseudomonas-aeruginosa-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The characteristics, diagnosis, management and epidemiology of <i>Pseudomonas aeruginosa</i> .	2014
<p>Rotavirus</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/rotavirus-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The characteristics, diagnosis and epidemiology of rotavirus.	2013
<p>Seasonal influenza</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/seasonal-influenza-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The symptoms, diagnosis, management, surveillance and epidemiology of seasonal influenza (flu).	2014

<p>Sexually transmitted infections (STIs)</p> <p>Surveillance, data, screening and management</p> <p>https://www.gov.uk/government/collections/sexually-transmitted-infections-stis-surveillance-data-screening-and-management</p>	<p>PHE</p>	<p>Guidance, data and analysis</p>	<p>The surveillance and epidemiology of sexually transmitted infections (STIs).</p>	<p>2014</p>
<p>Sexually transmitted infections (STIs): managing outbreaks</p> <p>https://www.gov.uk/government/publications/sexually-transmitted-infections-stis-managing-outbreaks#history</p>	<p>PHE</p>	<p>Guidance</p>	<p>Guidance on planning an STI outbreak prevention and control strategy, and investigating such an outbreak.</p>	
<p><i>Staphylococcus aureus</i> (Meticillin Resistant/Susceptible) (MRSA/MSSA)</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/staphylococcus-aureus-guidance-data-and-analysis</p>	<p>PHE</p>	<p>Guidance, data and analysis</p>	<p>The characteristics, diagnosis, management, surveillance and epidemiology of <i>Staphylococcus aureus</i>.</p>	<p>2014</p>
<p>Who to screen for MRSA</p> <p>https://www.gov.uk/government/publications/how-to-approach-mrsa-screening</p>	<p>DH</p>	<p>Guidance</p>	<p>Outlines a more focused, cost-effective approach to MRSA screening whilst concentrating on reducing infections and improving patient health</p>	<p>2014</p>

<p>Tuberculosis</p> <p>NICE guideline (NG33)</p> <p>https://www.nice.org.uk/guidance/ng33</p>	NICE	Guidance	This guideline covers preventing, identifying and managing latent and active tuberculosis (TB) in children, young people and adults.	2016
<p>Urinary tract infections</p> <p>NICE quality standard (QS90)</p> <p>https://www.nice.org.uk/guidance/qs90</p>	NICE	Quality Standard	This quality standard covers the management of suspected community-acquired bacterial urinary tract infection in adults aged 16 years and over.	2015
<p>Verotoxin-producing <i>Escherichia coli</i> (VTEC/E.Coli)</p> <p>Guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/verotoxin-producing-escherichia-coli-vtec-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	The characteristics, diagnosis, management, surveillance and epidemiology of Verocytotoxin-producing <i>Escherichia coli</i> (VTEC).	2014
<p>In addition to those above, please see: Health protection Infectious diseases if you are unable to find the specific disease/organism listed here.</p> <p>https://www.gov.uk/topic/health-protection/infectious-diseases</p>	PHE	Website	List of information about Infectious diseases.	2016

Specific settings

Document	Author	Type	Key message(s)	Year
<p>Acute healthcare</p> <p>Essential practice for infection prevention and control Guidance for nursing staff</p> <p>https://www2.rcn.org.uk/__data/assets/pdf_file/0008/427832/004166.pdf</p>	RCN	Guidance	This guidance is intended as a reference document for use by RCN members, and highlights essential elements of good infection prevention and control practice.	2012
<p>Adult care homes</p> <p>Care homes: infection prevention and control</p> <p>https://www.gov.uk/government/publications/infection-prevention-and-control-in-care-homes-information-resource-published</p>	DH & PHE	Guidance	Information resource for care home workers about preventing and controlling infection in care homes.	2013
<p>Childcare settings</p> <p>Infection control in schools</p> <p>https://www.gov.uk/government/publications/infection-control-in-schools-poster</p>	PHE	Guidance	Guidance for school staff on hygiene and vaccination.	2010-2014

<p>Clinical laboratories</p> <p>UK Standards for Microbiology Investigations (SMI): quality and consistency in clinical laboratories</p> <p>https://www.gov.uk/guidance/uk-standards-for-microbiology-investigations-smi-quality-and-consistency-in-clinical-laboratories</p>	PHE	Guidance	UK SMIs are algorithms and procedures for clinical microbiology, developed through consultation.	2014
<p>Primary care</p> <p>NICE guidelines CG139: Healthcare-associated infections: prevention and control in primary and community care</p> <p>https://www.nice.org.uk/guidance/cg139</p>	NICE	Guidance	Evidence-based advice on the prevention and control of healthcare-associated infections in primary and community care.	2014
<p>Primary care</p> <p>Managing common infections: guidance for primary care</p> <p>https://www.gov.uk/government/publications/managing-common-infections-guidance-for-primary-care</p>	PHE	Guidance	Guidance for managing common infections, including upper respiratory, lower respiratory and urinary tract infections, for consultation and local adaptation.	2010 - 2017

<p>Prison service and detention centres</p> <p>Infection control in prisons and places of detention</p> <p>https://www.gov.uk/government/publications/infection-control-in-prisons-and-places-of-detention</p>	<p>PHE</p>	<p>Guidance</p>	<p>This manual advises healthcare workers, prison and detention centre staff about dealing with outbreaks; immunisation; infection control and prevention.</p>	<p>2011</p>
<p>Mental health</p> <p>NICE quality standard QS61: Infection Prevention and Control</p> <p>https://www.nice.org.uk/guidance/qs61</p>	<p>NICE</p>	<p>Quality Standards</p>	<p>NICE quality standards describe high-priority areas for quality improvement in a defined care or service area.</p>	<p>2014</p>

Surveillance

Document	Author	Type	Key message(s)	Year
<p>Healthcare associated infections (HCAI): guidance, data and analysis</p> <p>https://www.gov.uk/government/collections/healthcare-associated-infections-hcai-guidance-data-and-analysis</p>	PHE	Guidance, data and analysis	Monitoring the numbers of certain infections that occur in healthcare settings through routine surveillance programmes, and advice on how to prevent and control infection in establishments such as hospitals, care homes and schools.	2014
<p>Public Health Profiles (Fingertips)</p> <p>https://fingertips.phe.org.uk/</p>	PHE	Indicators and Guidance	These profiles are a rich source of indicators across a range of health and wellbeing themes that has been designed to support JSNA and commissioning to improve health and wellbeing, and reduce inequalities.	2016-2017
<p>Surgical site infection surveillance service (SSISS)</p> <p>https://www.gov.uk/guidance/surgical-site-infection-surveillance-service-ssiss</p>	PHE	Guidance	This service allows hospitals to record incidents of infection after surgery, track patient results and review or change practice to avoid further infections.	2014
<p>Specialist and reference microbiology: laboratory tests and services</p> <p>https://www.gov.uk/guidance/specialist-and-reference-microbiology-laboratory-tests-and-services</p>	PHE	Guidance	List of Public Health England's laboratory services which provide a comprehensive range of microbiological tests and services.	2014

<p>English Surveillance programme for antimicrobial utilisation and resistance (ESPAUR) report</p> <p>https://www.gov.uk/government/publications/english-surveillance-programme-antimicrobial-utilisation-and-resistance-espaur-report</p>	PHE	Report	<p>Details trends in antibiotic prescribing/consumption and resistance from 2010 to 2015; highlights the progress in antimicrobial stewardship (AMS) activities in primary and secondary care; and outlines professional and public facing activities that were undertaken in relation to antibiotic education and awareness.</p>	2016
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International resources

Document	Author	Type	Key message(s)	Year
<p>WHO AMR Global report on surveillance 2014</p> <p>http://www.who.int/drugresistance/documents/surveillancereport/en/</p>	WHO	Report	<p>This WHO report, produced in collaboration with Member States and other partners, provides a picture of the magnitude of AMR and the current state of surveillance globally.</p>	2014
<p>WHO Global Action Plan</p> <p>http://www.who.int/antimicrobial-resistance/global-action-plan/en/</p>	WHO	Action Plan	<p>At the Sixty-eight World Health Assembly in May 2015, the World Health Assembly endorsed a global action plan to tackle antimicrobial resistance, including antibiotic resistance, the most urgent drug resistance trend.</p>	2015
<p>Clean Care is Safer Care; New Global guidelines on the prevention of surgical site infections</p> <p>http://www.who.int/gpsc/en/</p>	WHO	Guidelines	<p>New Guidelines on core components of infection prevention and control programmes at the national and acute health care facility level.</p>	2016

<p>Patient safety, satisfaction, and quality of hospital care: cross sectional surveys of nurses and patients in 12 countries in Europe and the United States</p> <p>http://www.bmj.com/content/344/bmj.e1717</p>	<p>BMJ</p>	<p>Research Paper</p>	<p>To determine whether hospitals with a good organisation of care (such as improved nurse staffing and work environments) can affect patient care and nurse workforce stability in European countries.</p>	<p>2012</p>
<p>ECDC surveillance report 2014</p> <p>http://ecdc.europa.eu/en/publications/_layouts/forms/Publication_DispForm.aspx?List=4f55ad51-4aed-4d32-b960-af70113dbb90&ID=1400</p>	<p>ECDC</p>	<p>Report</p>	<p>This ECDC report provides a picture of the AMR situation in Europe.</p>	<p>2014</p>
<p>Systematic review of the effectiveness of infection control measures to prevent the transmission of extended-spectrum betalactamase-producing Enterobacteriaceae (ESBL-E) through cross-border transfer of patients</p> <p>http://ecdc.europa.eu/en/publications/Publications/ESBL-systematic-review-effectiveness-infection-control-measures.pdf</p>	<p>ECDC</p>	<p>Technical Document (PDF)</p>	<p>This systematic review sought to identify evidence for the effectiveness of targeted infection control measures to control the spread and transmission of ESBL-E when transferring patients between healthcare settings, especially when the transfer is cross-border.</p>	<p>2014</p>
<p>Systematic review and evidence based guidance on perioperative antibiotic prophylaxis</p> <p>http://ecdc.europa.eu/en/publications/Publications/Perioperative%20antibiotic%20prophylaxis%20-%20June%202013.pdf</p>	<p>ECDC</p>	<p>Technical Document (PDF)</p>	<p>Identification of the effectiveness of key modalities of perioperative antibiotic prophylaxis from a systematic review and development five key indicators for monitoring their implementation.</p>	<p>2013</p>

<p>Core competencies for infection control and hospital hygiene professionals in the European Union.</p> <p>http://ecdc.europa.eu/en/publications/Publications/infection-control-core-competencies.pdf</p>	ECDC	Technical Document (PDF)	Document outlining effective HAI prevention and control in healthcare organisations relies on specialised infection control staff in charge of elaborating, implementing and monitoring local preventive measures such as hand hygiene and patient isolation.	2013
<p>WHO global AMR surveillance system (GLASS)</p> <p>http://www.who.int/drugresistance/surveillance/en/</p>	WHO	Manual	The Global Antimicrobial Resistance Surveillance System (GLASS) supports the Global Action Plan on Antimicrobial Resistance. The goal is to enable standardized, comparable and validated data on AMR to be collected, analysed and shared with countries, in order to inform decision-making, drive local, national and regional action and provide the evidence base for action and advocacy.	2015
<p>WHO World antibiotic awareness week</p> <p>http://www.who.int/mediacentre/events/2015/world-antibiotic-awareness-week/en/</p>	WHO	Website	This online resource provides a wide range of information about World Antibiotic Awareness Week.	2015
<p>European antibiotic awareness day</p> <p>http://ecdc.europa.eu/en/eaad/Pages/Home.aspx</p>	ECDC	Website	This online resource provides a wide range of information about European Antibiotic Awareness Day.	2015
<p>My 5 Moments for hand hygiene</p> <p>http://www.who.int/gpsc/5may/background/5moments/en/</p>	WHO	Tools and Resources	Hand Hygiene approach which defines the key moments when health-care workers should perform hand hygiene.	2016

<p>WHO surgical safety checklist</p> <p>http://www.who.int/patientsafety/safesurgery/checklist/en/</p>	<p>WHO</p>	<p>Patient Safety</p>	<p>This document aims to decrease errors and adverse events, and increase teamwork and communication in surgery.</p>	
<p>Hospital organisation, management, and structure for prevention of health-care-associated infection: a systematic review and expert consensus</p> <p>http://ecdc.europa.eu/en/healthtopics/Healthcare-associated_infections/guidance-infection-prevention-control/Documents/hospital-organisation-management-structure-for-prevention-health-care-associated-infection-systematic-review.pdf</p>	<p>SIGHT Study Group</p>	<p>Systematic Review (PDF)</p>	<p>A systematic review to identify crucial elements for the organisation of effective infection-prevention programmes in hospitals and key components for implementation of monitoring.</p>	<p>2015</p>

Appendix A: *E.coli* Specific IPC Resources based on focus of infection

Documents:

a. Urinary tract;

- [Excellence in continence care](#): practical guidance for commissioners providers, health and social care staff and information for the public
- RCN – [hospital hydration best practice toolkit](#)
- Prevention and appropriate treatment of UTI – [primary care unit](#)
- [Diagnosis of UTI quick reference guide](#)
- [NICE guidelines](#) - UTI in children and young people; UTI in adults
- [National Evidence-Based Guidelines for preventing HCAI -Epic 3](#)
- BMJ article: [Prevention of recurrent UTI in women](#)

b. Catheter Associated Urinary Tract;

- Use short-term indwelling urethral catheter in patients - where clinically indicated and ensure all staff siting catheters are appropriately trained [Epic3](#)
- High Impact Intervention for best practice insertion and care (in final draft – to be added)
- [APIC Implementation guide to preventing CAUTI](#)
- Catheter care: [RCN guidance for nurses](#)
[NICE Catheter audit tools](#)

c. Skin or soft tissue including ulcers or cellulitis;

- Prevention of infection in chronic wounds – High Impact Intervention (in final draft – to be added)
- [Prevention of pressure areas](#)
- [Management of patients with venous leg ulcers RCN](#)
- [BNF wound formulary](#)

d. Intravascular associated infection;

- National Evidenced based guidelines to reduce HCAI - **Epic 3**
- **RCN standards for infusion therapy**

e. Surgical site infections;

- High Impact Intervention (in final draft – to be added)
- Getting it Right First Time – Improving the Quality of Orthopaedic Care with the NHS in England (**GIRFT**)
- Public Health England Surgical Site Infection Surveillance Service (**SSISS**)
- Prevention of surgical site infection **NICE** guidelines