Commonwealth Partnerships for Antimicrobial Stewardship: Preliminary international resource toolkit

This document presents a compilation on recognised international documents and resources to support the CwPAMS programme. These should be draw on and applied where relevant. Development of resources which overlap with or a redundant to those below is out of scope of the programme. This compilation is a preliminary draft and not expected to be exhaustive.

Document	Author	Type	Key message(s)	Year
Antimicrobial resistance and stewardship				
WHO AMR Global report on surveillance 2014 http://www.who.int/drugresistance/documents/surveillancereport/en/	WHO	Report	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.	2014
WHO Global Action Plan http://www.who.int/antimicrobial-resistance/global-action-plan/en/ http://apps.who.int/iris/bitstream/handle/10665/193736/9789241509763_eng.pdf?sequence=1	WHO	Action Plan	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.	2015
ECDC consumption surveillance data https://ecdc.europa.eu/en/publications-data/downloadable-tables-antimicrobial-consumption-annual-epidemiological-report-2017	ECDC	Data set	Dataset to assess antimicrobial consumption in Europe	2017
ECDC consumption surveillance report https://ecdc.europa.eu/en/publications-data/antimicrobial-consumption-annual-epidemiological-report-2017	ECDC	Report	Picture of antimicrobial consumption in Europe	2017
ECDC resistance report https://ecdc.europa.eu/en/publications-data/surveillance-antimicrobial-resistance-europe-2017	ECDC	Report	Picture of resistance in Europe	2017

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WHO global AMR surveillance system (GLASS) http://www.who.int/drugresistance/surveillance/en/	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.	2018
WHO World antibiotic awareness week http://www.who.int/who-campaigns/world-antibiotic-awareness-week/advocacy-material	WHO	Website	This online resource provides a wide range of information about World Antibiotic Awareness Week.	2018
European antibiotic awareness day http://ecdc.europa.eu/en/eaad/Pages/Home.aspx	ECDC	Website	This online resource provides a wide range of information about European Antibiotic Awareness Day.	2018
Global monitoring of country progress on addressing antimicrobial resistance: Self-assessment questionnaire 2017-18 http://www.who.int/antimicrobial-resistance/global-action-plan/AMR-self-assessment-2017/en/	WHO	Website	Progress on implementing AMR action plans based on WHO self-assessment survey	2018
Global PPS http://www.global-pps.com/	Global PPS	Website	Reports on antimicrobial use as well as tools and protocols to monitor	2018
Tackling Antimicrobial Resistance (AMR) Together Working Paper 1.0: Multisectoral coordination http://www.who.int/antimicrobial-resistance/publications/Tackling-AMR-multisectoral-coordination-june2018.pdf?ua=1	WHO	Report	Practical tips and suggestions on how to establish and sustain the multisectoral collaboration needed to develop and implement National Action Plans on AMR	2018
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 http://ecdc.europa.eu/en/publications/Publications/ESBL-systematic-review-effectiveness-infection-control-measures.pdf	ECDC	Technical Document (PDF)	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.	2014

Systematic review and evidence based guidance on perioperative antibiotic prophylaxis http://ecdc.europa.eu/en/publications/Publications/Perioperative%20antibiotic%20prophylaxis%20-%20June%202013.pdf	ECDC	Technical Document (PDF)	Identification of the effectiveness of key modalities of perioperative antibiotic prophylaxis from a systematic review and development five key indicators for monitoring their implementation.	2013
BSAC eBook http://bsac.org.uk/antimicrobial-stewardship-from-principles-to-practice-e-book/	BSAC	eBook	eBook provides information on applying antimicrobial stewardship principles to practice	
Antimicrobial Stewardship: Managing Antibiotic Resistance https://www.futurelearn.com/courses/antimicrobial-stewardship	BSAC	Course	Free online course for health professionals, this six-week course will inform and empower to provide – safe, high-quality antibiotic use and facilitate interaction with colleagues globally	2017
Antibiotic Resistance – The Silent Tsunami https://www.reactgroup.org/antibiotic-resistance/course-antibiotic-resistance-the-silent-tsunami/	ReAct	Course	Introduction to AMR through online course	
ReAct Toolbox for action on AMR https://www.reactgroup.org/toolbox/	ReAct	Toolbox	Web-based resource for taking action on antibiotic resistance. The aim of the Toolbox is to provide inspiration and guidance on what can be done to address AMR. It is built on what has been done in the past in a variety of settings and is aligned with ongoing and current initiatives globally.	2018
Antimicrobial Stewardship: A competency-based approach https://openwho.org/courses/AMR-competency	WHO	Course	Course to equip clinicians with knowledge and tools to improve their use of antimicrobials in daily clinical practice. Includes case based examples, to highlight how antimicrobial stewardship principles can be applied to common clinical scenarios.	2016

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Antibiotic prescribing and resistance: Views from low- and middle-income prescribing and dispensing professionals http://www.who.int/antimicrobial-resistance/LSHTM-Antibiotic-Prescribing-LMIC-Prescribing-and-Dispensing-2017.pdf?ua=1	WHO	Report	This report draws together data from nine studies undertaken with 246 qualified health care professionals in six low and middle income country (LMIC) settings. The studies aimed to ascertain and situate awareness of AMR and knowledge of antibiotics within the lived experience of prescribing and dispensing across a range of LMIC settings.	2017
Resource mobilisation for antimicrobial resistance (AMR): Getting AMR into plans and budgets of government and development partners (Ghana Report) http://www.who.int/antimicrobial-resistance/national-action-plans/Ghana-AMR-integration-report-WHO-June-2018.pdf?ua=1	WHO	Report	identifies entry points within the operational divisions of Ghana Health Services, as potential areas where the AMR policy platform may seek to embed AMR activities	2018
Tackling Antimicrobial Resistance (AMR) Together Working Paper 5.0: Enhancing the focus on gender and equity http://www.who.int/antimicrobial-resistance/national-action-plans/AMRGenderEquityGuidance-Sept2018.pdf?ua=1	WHO	Report	to assist countries to take the first step towards better considering gender and equity issues in their efforts to tackle antimicrobial resistance (AMR), to inform the implementation of strategies in national action plans and contribute to improved reach and effectiveness of AMR efforts in the longer term	2018
Antimicrobial Resistance Behaviour Change First informal technical consultation http://www.who.int/antimicrobial-resistance/AMR-Behaviour-Change-Consultation-Report_6-and-7-Nov-2017.pdf?ua=1	WHO	Report	Group of experts to provide evidence-based guidance, on an informal basis, on the development of behaviour change policies and actions, with reference to examples of best practice and lessons learned	2017
Massive open online course (MOOC) on antimicrobial stewardship https://www.futurelearn.com/courses/antimicrobial-stewardship	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 for Africa https://www.futurelearn.com/courses/antimicrobial-stewardship-for-africa	BSAC	Online Course	Aims to improve knowledge of the spread of antimicrobial resistance in Africa and how to reduce it	2018

WHO Competency Framework for Health Workers' Education and Training on Antimicrobial Resistance http://www.who.int/hrh/resources/WHO-HIS-HWF-AMR-2018.1/en/	WHO	Guidelines	To support the Global Action Plan on AMR The framework is a matrix menu of core and additional knowledge, skills and attitudes for health workers in the field of human health. It is designed to be used as a reference guide and applied according to local priorities and needs	2018
Pulchini C, Binda F, Lamkang AS, et al. Developing core elements and checklist items for global hospital antimicrobial stewardship programmes: a consensus approach [published online April 3, 2018]. *Clin Microbiol Infect*. doi: 10.1016/j.cmi.2018.03.033	*Clin Microbiol Infect*	Technical document	Provides checklist of elements to include in AMS including in low resource settings	2018
The Core Elements of Human Antibiotic Stewardship Programs in Resource-Limited Settings: National and Hospital Levels	CDC	Guidelines	Guidelines provide introduction to developing AMS programmes in low resource settings	2018
AMR Framework for Action Supported by the IACG http://www.who.int/antimicrobial-resistance/interagency-coordination-group/20170818_AMR_FfA_v01.pdf	IACG / WHO	Implementation support tool	Provides a short introduction to AMR, suggests a common language and outlines a proposed agenda for the global community and individual countries	2017
Chatterjee, Anuja, Maryam Modarai, Nichola R. Naylor, Sara E. Boyd, Rifat Atun, James Barlow, Alison H. Holmes, Alan Johnson, and Julie V. Robotham. "Quantifying Drivers of Antibiotic Resistance in Humans: A Systematic Review." *The Lancet Infectious Diseases* 0, no. 0 (August 29, 2018). https://doi.org/10.1016/S1473-3099(18)30296-2.	Lancet	Research paper	Systematic review of research on the drivers of AMR	2018
WHO Report on Surveillance of Antibiotic Consumption 2016-2018 Early Implementation http://www.who.int/medicines/areas/rational_use/oms-amr-amc-report-2016-2018/en/	WHO	Report	This report presents 2015 data on the consumption of systemic antibiotics from 65 countries and areas, contributing to our understanding of how antibiotics are used in these countries. In addition, the report documents early efforts of the World Health Organization (WHO) and participating countries	2018

			to monitor antimicrobial consumption, describes the WHO global methodology for data collection, and highlights the challenges and future steps in monitoring antimicrobial consumption.	
CIDRAP-ASP The Core Elements of Human Antibiotic Stewardship Programs in Resource Limited Settings https://www.youtube.com/watch?v=wo0Dpxm0fsY	CIDRAP-ASP	Webinar	Presentation on 'The Core Elements of Human Antibiotic Stewardship Programs in Resource-Limited Settings".	2018
Infection prevention control				
Core competencies for infection control and hospital hygiene professionals in the European Union. http://ecdc.europa.eu/en/publications/Publications/infection-control-core-competencies.pdf	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
Hospital organisation, management, and structure for prevention of health-care-associated infection: a systematic review and expert consensus 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	SIGHT Study Group	Systematic Review (PDF)	A systematic review to identify crucial elements for the organisation of effective infection-prevention programmes in hospitals and key components for implementation of monitoring.	2015
My 5 Moments for hand hygiene http://www.who.int/gpsc/5may/background/5moments/en/	WHO	Tools	Hand Hygiene approach which defines the key moments when health-care workers should perform hand hygiene.	2016
WHO surgical safety checklist http://www.who.int/patientsafety/safesurgery/checklist/en/	WHO	Website	This document aims to decrease errors and adverse events, and increase teamwork and communication in surgery.	2018
Clean Care is Safer Care; New Global guidelines on the prevention of surgical site infections http://www.who.int/gpsc/en/	WHO	Guidelines	Guidelines on core components of infection prevention and control programmes at the national and acute health care facilities level.	2016

Document	Source	Type	Description	Year
Patient safety, satisfaction, and quality of hospital care: cross sectional surveys of nurses and patients in 12 countries in Europe and the United States http://www.bmj.com/content/344/bmj.e1717	BMJ	Research Paper	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.	2012
Response to Global Call to Action on WASH in Health Care Facilities: Updated Summary https://www.dropbox.com/s/zgbsxbsrkeuws9o/UpdatedGlobalResponse WASHinHCFSept2018forsharing.pdf?dl=0	WHO	Report	Respond to call to action in 2018 for WASH – water, sanitation and hygiene	2018
WHO Water, Sanitation and Hygiene strategy 2018-2025. http://apps.who.int/iris/bitstream/handle/10665/274273/WHO-CED-PHE-WSH-18.03-eng.pdf?ua=1	WHO	Strategic document	Global action plan for water, sanitation and hygiene and fundamental elements to ensure patient safety	2018
Water and Sanitation for Health Facility Improvement Tool (WASH FIT) http://apps.who.int/iris/bitstream/handle/10665/254910/9789241511698-eng.pdf;jsessionid=22DF20F68914A13BDD4826E7BF5DA534?sequence=1	WHO	Toolkit	A practical guide for improving quality of care through water, sanitation and hygiene in health care facilities	2018
WASH, IPC and AMR Flyer http://www.who.int/water_sanitation_health/facilities/amr-ipc-wash-flyer-nov16.pdf?ua=1	WHO	Flyer	Call to action for IPC and WASH to address AMR	2018
Allegranzi, Benedetta, Alexander M Aiken, Nejla Zeynep Kubilay, Peter Nthumba, Jack Barasa, Gabriel Okumu, Robert Mugarura, et al. "A Multimodal Infection Control and Patient Safety Intervention to Reduce Surgical Site Infections in Africa: A Multicentre, before–after, Cohort Study." *The Lancet Infectious Diseases* 18, no. 5 (May 2018): 507–15. https://doi.org/10.1016/S1473-3099(18)30107-5.	Lancet	Research paper	Research output from SUSP in Africa by WHO	2018
The Surgical Unit-based Safety Programme in African hospitals (SUSP) http://www.who.int/infection-prevention/countries/surgical/en/	WHO	Website	Update and reporting on SUSP	2018

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African Partnerships for Patient Safety http://apps.who.int/iris/bitstream/handle/10665/44189/9789241598545 _eng.pdf;jsessionid=0173013601AD05382C90715BB5C58342?sequence= 1	WHO	Report	Report on the outcomes and progress with the programme in	
WHO | Core components for IPC - Implementation tools and resources http://www.who.int/infection-prevention/tools/core-components/en/	WHO	Website	WHO have a range of resources available to support IPC at the facility and national level including assessment tools, practical manuals, presentation templates, and infographics	2018
Webinars and modules on handwashing https://globalhandwashing.org/learn/education-modules/	Global Handwashing Partnership	Course	Educational modules on handwashing	
INFECTION PREVENTION AND CONTROL ASSESSMENT FRAMEWORK AT THE FACILITY LEVEL http://www.who.int/infection-prevention/tools/core-components/IPCAF-facility.PDF?ua=1	WHO	Assessment tool	Tool to support the implementation of the World Health Organization (WHO) Guidelines on core components of IPC programmes1 at the acute health care facility level.	2018
Improving infection prevention and control at the health facility: Interim practical manual supporting implementation of the WHO Guidelines on Core Components of Infection Prevention and Control Programmes. http://www.who.int/infection-prevention/tools/core-components/facility-manual.pdf?ua=1	WHO	Practical manual	To support health care facilities to achieve effective implementation of their infection prevention and control (IPC) programmes according to the World Health Organization (WHO) Guidelines on core components of IPC	2018
Antimicrobial Resistance and Infection Control (ARIC) publication on Core Components of Infection Prevention and Control Programmes at the National and Acute Health Care Facility Level https://aricjournal.biomedcentral.com/articles/10.1186/s13756-016-0149-9	WHO /BMC	Article	Recommendations and three good practice statements are presented here, including a summary of the supporting evidence, and form the substance of a new WHO IPC guideline	2017
WHO guidelines on hand hygiene in health care http://www.who.int/infection-prevention/publications/hand-hygiene-2009/en/	WHO	Guidelines	Provides health-care workers (HCWs), hospital administrators and health authorities with a thorough review of evidence on hand hygiene in health care and specific recommendations to improve practices and reduce transmission of pathogenic microorganisms to patients and HCWs	2009

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Other				
WHO Model Lists of Essential Medicines http://www.who.int/medicines/publications/essentialmedicines/en/	WHO	Website	The WHO Model Lists of Essential Medicines has been updated every two years since 1977. The current versions are the 20th WHO Essential Medicines List (EML) and the 6th WHO Essential Medicines List for Children (EMLc) updated in March 2017	2017
Critically Important Antimicrobials for Human Medicine 5th Revision 2016 http://apps.who.int/iris/bitstream/handle/10665/255027/9789241512220-eng.pdf?sequence=1	WHO	Guidelines	Ranking of medically important antimicrobials for risk management of antimicrobial resistance due to non-human use	2016
E Health Dashboards http://healthenabled.org/wordpress/healthe-africa/	K4Health (USAID)	Website	Assessment of mobile/digital capacity of African countries included in CwPAMS directly relating to health	2018
Working Document 38: Broadening the range of designs and methods for impact evaluations	DfID	Report	Review of best approach and implementation of evaluation of international aid	2012
Michie, S. et al. The behaviour change wheel: A new method for characterising and designing behaviour change interventions. *Implement. Sci.* **6**, 42 (2011)	*Implement. Sci*	Research paper	Key reference on behaviour change	2011