

AMR

Issue Brief

More guidelines, online courses, posters and videos can be found in our AMR TOOLBOX:
<https://amrbox.org>

Antimicrobial Resistance (AMR)

Antimicrobial resistance (AMR) can occur when viruses, bacteria, parasites and fungi change over time. There is no longer a response to medicines, and the infection treatment gets really difficult which increases the risk of a disease spread, which can lead to severe health problems. AMR is an increasing threat to global public health worldwide that requires cross-sectional and cross-disciplinary action. It is present in every country and is spurred by several human-made factors, including over- and/or inadequate use of antibiotics, poor hygiene and infection prevention control, and excessive usage of antibiotics outside the health care sector e.g. in life stock production.

Therefore, MEDBOX decided to raise awareness regarding this topic by producing an issue brief.

General Information/ Guidelines

African Antibiotic Treatment Guidelines for Common Bacterial Infections and Syndromes – Recommended Antibiotic Treatments in Adult Patients

Africa Centres for Disease Control and Prevention Center for Disease Dynamics, Economics & Policy Africa Centres for Disease Control and Prevention Center for Disease Dynamics, Economics & Policy (2021)

<https://www.medbox.org/pdf/619e11fcb74ea35bd736b022>

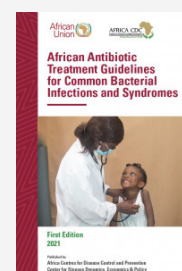
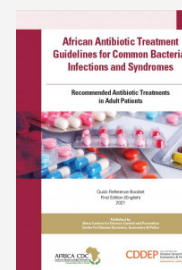
<https://africacdc.org/download/african-antibiotic-treatment-guidelines-for-common-bacterial-infections-and-syndromes-recommended-antibiotic-treatments-in-adult-patients/>

African Antibiotic Treatment Guidelines for Common Bacterial Infections and Syndromes – Final Report

Africa Centres for Disease Control and Prevention Center for Disease Dynamics, Economics & Policy Africa Centres for Disease Control and Prevention Center for Disease Dynamics, Economics & Policy (2021)

<https://www.medbox.org/pdf/619e157d7f128f0295318013>

<https://africacdc.org/download/african-antibiotic-treatment-guidelines-for-common-bacterial-infections-and-syndromes-2/>



Treatment of newborn sepsis is threatened *ReAct Action on Antibiotic Resistance (2020)*

Effective antibiotics are essential for childrens' survival

<https://www.medbox.org/pdf/5fc4bb3df7edd5579b133b17>
<https://www.reactgroup.org/wp-content/up>



Antimicrobials supplied in community pharmacies in eastern Europe and central Asia in the early phases of the COVID-19 pandemic *World Health Organization WHO (2022)*

<https://www.medbox.org/pdf/62a97e6c3a491dd9c5002b43>
<https://apps.who.int/iris/bitstream/hand>



Understanding the Antibiotic Manufacturing Ecosystem *Wellcome Trust; Boston Consulting Group (2022)*

A view of global supply chains, pressure points, and implications for antimicrobial resistance respon

<https://www.medbox.org/pdf/6253e874dfc952711d1cc7b2>
<https://cms.wellcome.org/sites/default/files/2022-04/understanding-the-antibiotic-manufacturing-ecosystem-2022.pdf>



WHO policy guidance on integrated antimicrobial stewardship activities *World Health Organization WHO (2021)*

<https://www.medbox.org/pdf/60b64ca7ca1e2650d01bd882>
<https://apps.who.int/iris/handle/10665/341432>



Ensuring sustainable access to effective antibiotics for EVERYONE - EVERYWHERE *ReAct Action on Antibiotic Resistance (2021)*

<https://www.medbox.org/pdf/606c33e630f32508f224a8a2>
<https://www.reactgroup.org/wp-content/uploads/2021/03/ReAct-Report-Ensuring-sustainable-access-to-effective-antibiotics-for-everyone-everywhere-How-to-address-the-global-crisis-in-antibiotic-Research-and-Development-March-2021.pdf>



Antibiotic resistance: using a cultural contexts of health approach to address a global health challenge
World Health Organization (WHO) (2020)

<https://www.medbox.org/pdf/5eab2328ccae854f79676d23>
<https://apps.who.int/iris/handle/10665/3>



Surveillance

Global antimicrobial resistance and use surveillance system (GLASS) Report: 2022
World Health Organization (WHO) (2022)

Report 2022

<https://www.medbox.org/dl/6396e0f29bfb36c30808b8a3>
<https://apps.who.int/iris/rest/bitstreams/1483639/retrieve>



Training on GLASS methodology for national surveillance of antimicrobial consumption
World Health Organization (WHO) (2022)

<https://www.medbox.org/pdf/6282360b9ad8ab455a01d512>
<https://apps.who.int/iris/bitstream/handle/10665/354258/9789240012790-eng.pdf>



ResistanceMap
The Center for Disease Dynamics Economics & Policy CDDEP (2022)

ResistanceMap is an interactive collection of charts and maps that summarize national and subnational data on antimicrobial use and resistance worldwide.

<https://www.medbox.org/externpage/61f52819b92e4447597946f3>
<https://resistancemap.cddep.org/>



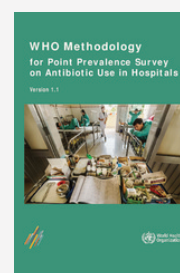
Neisseria gonorrhoeae Antimicrobial Resistance Surveillance: Consolidated Guidance
World Health Organization WHO (2020)

<https://www.medbox.org/pdf/5efc7e427ba9264ab406f232>
<https://iris.paho.org/handle/10665.2/523>



WHO Methodology for Point Prevalence Survey on Antibiotic Use in Hospitals
World Health Organization WHO (2019)

<https://www.medbox.org/pdf/5e148832db60a2044c2d537c>
<https://apps.who.int/iris/bitstream/hand>



Surveillance of antimicrobial resistance in Europe 2020 data: executive summary
World Health Organization WHO, Regional Office of Europe (2021)

Europe specific data

<https://www.medbox.org/pdf/623e1d49036af076c1715182>
<https://apps.who.int/iris/bitstream/hand>



Infection Prevention & Hygiene

Water and Sanitation for Health Facility Improvement Tool (WASH FIT): A practical guide for improving quality of care through water, sanitation and hygiene in health care facilities

World Health Organization WHO (2022)

<https://www.medbox.org/pdf/5e148832db60a2044c2d49d6>
<https://apps.who.int/iris/bitstream/handle/10665/353411/9789240043237-eng.pdf>



Minimum requirements for infection prevention and control programmes
World Health Organization WHO (2020)

<https://www.medbox.org/pdf/5f3a22e3b3b5ff4edc613c03>
<https://apps.who.int/iris/rest/bitstreams/1262934/retrieve>



Implementation manual to prevent and control the spread of carbapenem-resistant organisms at the national and health care facility level
World Health Organization WHO (2020)

<https://www.medbox.org/pdf/5f3a26b9b3b5ff4edc613c04>
<https://apps.who.int/iris/rest/bitstream>



Standard precautions: Environmental cleaning and disinfection World Health Organization WHO (2020)

<https://www.medbox.org/externpage/5ede1cf680b695095c53d7e5>
<https://openwho.org/courses/IPC-EC-EN>

Analysis of the challenges in implementing guidelines to prevent the spread of multidrug-resistant gram-negatives in Europe Evelina Tacconelli, Michael Buhl, Hilary Humphreys et al. (2019)

<https://www.medbox.org/externpage/5e722f7e708e8e3c0e7e3778>
<https://bmjopen.bmj.com/content/bmjopen/9/5/e027683.full.pdf>

Water, sanitation and hygiene in healthcare facilities: practical steps to achieve universal access to quality care World Health Organization WHO, Unicef (2019)

Purpose of this document: to present eight practical steps that Member States can take at the national and sub-national level to improve WASH in health care facilities

<https://www.medbox.org/pdf/5e6fa950726cd565a834a964>
<https://apps.who.int/iris/bitstream/hand>

Improving infection prevention and control at the health facility World Health Organization WHO (2018)

Interim practical manual supporting implementation of the WHO guidelines on core components of infection prevention and control programmes

<https://www.medbox.org/pdf/5f3a293c6fbc0666ea1d8b72>
<https://apps.who.int/iris/rest/bitstreams/1174128/retrieve>



Livestock Production

WHO guidelines on use of medically important antimicrobials in food-producing animal - Policy brief World Health Organization WHO (2017)

<https://www.medbox.org/pdf/5e810118044a30639834813a>
<https://apps.who.int/iris/bitstream/hand>



Poster: AMR What the Agriculture Sector Can Do Food and Agriculture Organization of the United Nations FAO, World Health

Organization WHO (2019)

Poster - Handle Antibiotics with care

<https://www.medbox.org/pdf/5e78cd8e3b5912022e7d4334>

<https://www.fao.org/3/a-bc310e.pdf>



Guidelines for the use of antibiotics in production animals: Cattle, pigs, sheep and goats

The Swedish Veterinary Association SVS (2017)

<https://www.medbox.org/pdf/5e78c5a3c0b5ac7468310dc4>

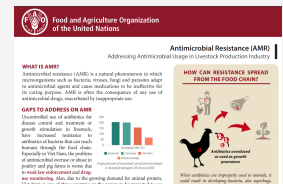
<https://www.svf.se/media/vd5ney4l/svfs-riktlinje-antibiotika-till-produktionsdjur-eng-2017.pdf>



Antimicrobial Resistance (AMR) Addressing Antimicrobial Usage in Livestock Production Industry

Food and Agriculture Organization of the United Nations FAO (2016)

<https://www.medbox.org/pdf/5e78bf25dab54e2e523a0b53>



Antimicrobial resistance and our food systems: challenges and solution

Food and Agriculture Organization of the United Nations FAO (2016)

<https://www.medbox.org/pdf/5e78c0fec0b5ac7468310dc3>

<https://www.fao.org/3/a-i6106e.pdf>



Review of Evidence on Antimicrobial Resistance and Animal Agriculture in Developing Countries

Grace, D. International Livestock Research Institute (ILRI) (2015)

<https://www.medbox.org/pdf/5e419464ee5ba76a525a34d2>

https://assets.publishing.service.gov.uk/media/57a0897e40f0b649740000e0/EoD_Consultancy_June15_Ag_Related_AMR.pdf



Antimicrobial Resistance in Food-Animal Production INDIA OVERVIEW

Action on Antibiotic Resistance (ReAct) (2018)

<https://www.medbox.org/pdf/63a42b7b7a8eb4e7ad0751d2>

<https://www.reactgroup.org/wp-content/up>



Training Material & Videos

Health workers' education and training on antimicrobial resistance: curricula guide
World Health Organization WHO (2019)

<https://www.medbox.org/pdf/5ed8f2f822366f36f14af682>
<https://www.medbox.org/pdf/5ed8f2f822366f36f14af682>



WHO Competency Framework for Health Workers' Education and Training on Antimicrobial Resistance
World Health Organization WHO (2018)

<https://www.medbox.org/pdf/5e148832db60a2044c2d4af7>
<http://www.who.int/foodsafety/publicatio>



European nurse: Information and communication guide on microbes
European specialist nurse organisation (ESN) (2020)

<https://www.medbox.org/pdf/5ef54ac134900729c0105a64>
<https://www.esno.org/assets/files/Microbes-Guide.pdf>



WHO Science in 5 Episode #86 - Microbes are becoming resistant to antibiotics
World Health Organization WHO (2022)

<https://www.medbox.org/externpage/6384bbcfcc7630664c09ceb2>
<https://youtu.be/ELRw0jRiJe0>



Antibiotic Resistance
Goff, D. The Ohio State University (2020)

You Tube Video Accessed February 4, 2020

<https://www.medbox.org/externpage/5e398e6d92820912174ddfa3>
<https://www.youtube.com/watch?v=i7JdBfusaAo&feature=youtu.be>



How an ICU works to prevent or treat hospital-acquired infections
Pan American Health Organisation PAHO (2021)

<https://www.medbox.org/externpage/63763e568c4de7aae70c79d4>
<https://youtu.be/9iy3ePq3xSM>



How to prevent resistant bacteria in hospital facilities
Pan American Health Organisation PAHO (2021)



<https://www.medbox.org/externpage/63763dc97ca2bcb527014b04>
<https://youtu.be/gaWaN-RWzTg>



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