

Antimicrobial Resistance (AMR)

EPHA Position Paper on the 2017
EU Action Plan on AMR
April 2017

european public health alliance



Antimicrobial Resistance Amr Epha

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Antibiotic Resistance Siouxsie Wiles, 2017-04-10 In ten years time will antibiotics still work Have we let bacteria get the upper hand in the evolutionary arms race In the 1920s the discovery of the antibiotic penicillin started a golden age of medicine However experts warn that the end of that age may be just a decade away In this BWB Text microbiologist Siouxsie Wiles explores the looming crisis of antibiotic resistance and its threat to New Zealand Wiles concludes that New Zealand must do more to protect the public from a future without antibiotics

Water Management in South Asia Sumana Bandyopadhyay, Habibullah Magsi, Sucharita Sen, Tomaz Ponce Dentinho, 2020-01-29 This book highlights various challenges and opportunities for water management and cooperation in South Asia In light of increasing urbanization and development in the region and related pressure on water resources the contributions investigate water conflictual and cooperative attitudes and gestures between countries and regions analyse management trade offs between nature agriculture and urban uses and examine water sustainable management and related policies By studying major river basins in the region such as Indus Ganges Brahmaputra Narmada Godavari and Krishna the chapters highlight socio economic infrastructural environmental and institutional aspects of water scarcity in South Asia and present best practices for improved sustainable water management and security in the region

Regenerative Farming and Sustainable Diets Joyce D'Silva, Carol McKenna, 2024-09-04 This book makes the case for an urgent move away from industrial agriculture towards regenerative farming and the promotion of plant based diets How we produce distribute and consume food are critical issues for the health and well being of humans animals and the environment In order to develop a sustainable food system this book argues for a radical change in farming and food consumption Containing contributions from world renowned experts this book promotes regenerative farming as the means to preserve planetary health establish sustainable healthy and secure diets and safeguard the welfare of animals Chapters discuss broad ranging issues from climate change and biodiversity conservation to animal sentience and intensive farming and the role of financial markets and food businesses The book concludes with chapters discussing the routes in policy and practice to transforming the food system and achieving real world change This book is a must read for students scholars and policymakers interested in establishing sustainable farming and food systems for human health animal welfare and environmental protection The Open Access version of this book available at www.taylorfrancis.com has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Pharma, Prices and Power Horacio Falcão, Rodrigo Gouveia, Hervé Lamarque, 2025-06-10 This book brings a negotiation perspective to healthcare It opens the hidden box of pricing and reimbursement P R negotiations showing their huge impact on global healthcare systems and how they could be drastically improved The authors offer a comprehensive and unique negotiation based analysis of healthcare systems worldwide highlighting the historical structural and ethical challenges that shape P R negotiations From the role of governments and health insurers to the intricate dynamics between

healthcare providers and users the authors examine the forces driving healthcare costs and access With a unique blend of theoretical expertise and practical experience the authors propose a paradigm shift toward value oriented negotiations They show how to move away from adversarial win lose tactics to collaborative and transparent negotiations Praise for the book I ran dozens of negotiations with health authorities and payors in Italy France Spain Portugal Germany and England and the implementation of concepts developed by the authors such as made it possible to radically change the dynamic of those negotiations unlocking many complex reimbursement discussions and bringing innovative health solutions to patients across Europe Valentino Confalone Presidente Novartis Italia A must read for anyone seeking to better understand the complexities of healthcare systems and the multiple perspectives present On a foundation of win win negotiation excellence the authors are leading us through dilemmas and trade offs before finally leaving us equipped and inspired to collaboratively drive greater value in healthcare Caroline Kaas Kristiansen Head of Global Market Access Network Excellence at Novo Nordisk This book offers valuable guidance for navigating this minefield Through systematic analysis and practical approaches it charts a path toward a common goal enabling access to meaningful innovation that improves medical diagnosis and therapy while preserving a profitable environment capable of delivering the medicines we need Such guidance is both timely and essential From the foreword by Dr Otmar Kloiber Secretary General of the World Medical Association This is a crucial resource for those engaged in pharmaceutical negotiations providing a comprehensive view that reflects the complexity and significance of the process Highly recommended Catarina Costa Market Access and Public Affairs Professional at Novo Nordisk formerly Pharmaceutical Technician at INFARMED the Portuguese Medicine Agency I really enjoyed this book It explained the challenges behind government and biopharma and also the challenges in P R negotiation In the execution level this book even gives some vivid step by step examples on how to do a P R negotiation It gave me another angle to understand this toughest type of negotiation Jessie Sijing Xiong Strategy and Investment Director of WuXi Biologics Pharma Prices and Power is a must read and a very meaningful and insightful contribution to helping stakeholders find better ways of working together The authors share great insights about the role that negotiations can play in navigating complex sets of incentives in healthcare and in identifying innovative ways to share information and interact differently to improve health value creation Stephen Chick Professor and Academic Director INSEAD Healthcare Management Initiative The analyses made by the authors are intriguing and fundamental for us to have better days in health systems Like me everyone who reads this book will be delighted and will get to know this pharmaceutical market even more Congratulations to the authors and thank you very much for providing us with this excellent masterpiece Florentino Cardoso Oncological Surgeon and President of the Brazilian Medical Association 2011 2017 Steering Against Superbugs Olivier Rubin,Erik Baekkeskov,Louise Munkholm,2023 Many people correctly understand that superbugs can threaten health Superbugs are microbial organisms including bacteria viruses parasites or fungi that resist one or more antibiotic or other antimicrobial treatments What may be

less widely understood is that the threat is global growing and encompasses human systems surrounding healthcare agriculture and the environment In 2019 1.3 million people around the world are estimated to have died from resistant microbes Murray et al 2022 This is similar to how many succumb annually to HIV AIDS and Malaria combined Laxminarayan 2022 The recent coronavirus pandemic may have further exacerbated the global health challenge posed by superbugs Rizvi Adebisi et al 2021 Rodriguez Ba o et al 2021 By 2050 worst case projections include annual superbug fatalities of ten million people O Neil 2016 Some experts have started to refer to the increase and spread of superbugs as the overlooked or silent pandemic Laxminarayan 2022 UN 2020 Mahoney et al 2021 Other experts warn that we might be heading towards a post antibiotic era where minor infections become increasingly severe or even impossible to treat Reardon 2014 Kwon Powderly 2021 Annual economic losses related to superbugs are already estimated in the tens of billion U S dollars Hall McDonnell O Neil 2018 As a response to these global challenges this book analyses and discusses ways to reduce barriers to and create opportunities for global governance of antimicrobial resistance Or more briefly steering against superbugs **Development and implementation of national action plans for infection prevention and control** World Health

Organization, 2025-06-21 The practical guide provides a stepwise approach to the development and implementation of an infection prevention and control national action plan It outlines a suite of tools resources and inspirational country stories to help prioritize cost implement monitor and evaluate national action plan activities *Essentials of Nursing Practice*

Catherine Delves-Yates, 2022-03-25 Delivering knowledge theory and skills for the NMC Future Nurse curriculum This definitive textbook introduces the core topics and essential information that every nursing student will need to master during their degree Written by a diverse team of nursing educators from around the UK with input from patients practitioners and students the book delivers a complete solution that challenges modern nursing practice and prepares students for the changing health needs of communities and individuals Key features Adopts a values based and person centred approach to nursing Modelled on the NMC Standards providing full coverage of the core curriculum Real life voices and experiences from patients students and practitioners bring the subject to life Includes active learning features that develop graduate nursing skills such as critical thinking reflection and evidence based practice Lecturers and educators can also access a collection of exclusive teaching materials including presentation slides for each chapter hundreds of multiple choice and short form questions guided case studies as well as recommendations for video based activities with assignable questions *The*

Paradox of Communicable Diseases Governance in the EU Thibaud Deruelle, 2025-06-02 The European Centre for Disease Prevention and Control ECDC has played a pivotal role in the EU's approach to infectious diseases but its journey toward empowerment has been anything but straightforward Historically limited by member states reluctance to relinquish control over public health the ECDC's mandate was confined to detecting and assessing communicable diseases with no authority to offer advice on how to manage these risks This paradox assessing threats without the power to guide responses has been a

defining feature of the Centre's existence. However, during the Covid-19 pandemic, the ECDC's mandate was expanded formally, ending this contradiction and allowing the agency to take a more active role in public health decision making. The Paradox of Communicable Diseases Governance in the EU traces the evolving role of the ECDC, highlighting its empowerment despite a restrictive legal framework. Drawing on over two decades of history of the Centre, the book shows how the ECDC navigated the complex landscape of communicable diseases governance. The book offers valuable insights into the dynamics of European health governance, demonstrating how reputation is key in the development of the most limited agencies. It examines the paradox of the ECDC's mandate: assessing health risks without the power to recommend actions and how, over time, institutional entrepreneurs used the Centre's reputation as a useful resource to redefine its role. Deruelle offers a fresh perspective on the role of bureaucratic reputation in empowering European agencies, showing how even with limited authority, institutions can shape policy and practice.

The Evolving Threat of Antimicrobial Resistance World Health Organization, 2014-08-31. Antimicrobial resistance (AMR) is not a recent phenomenon, but it is a critical health issue today. Over several decades, to varying degrees, bacteria causing common infections have developed resistance to each new antibiotic, and AMR has evolved to become a worldwide health threat. With a dearth of new antibiotics coming to market, the need for action to avert a developing global crisis in health care is increasingly urgent. The World Health Organization has long recognized AMR as a growing global health threat, and the World Health Assembly, through several resolutions over two decades, has called upon member states and the international community to take measures to curtail the emergence and spread of AMR. The WHO Global strategy for the containment of antimicrobial resistance, published in 2001, set out a comprehensive set of recommendations for AMR control, which remain valid today. This book examines the experiences with implementing some of those recommendations ten years on, the lessons learnt along the way, and the remaining gaps.

Challenges to Tackling Antimicrobial Resistance: Economic and Policy Responses OECD, World Health Organization, 2020-04-01. Antimicrobial resistance (AMR) is a biological mechanism whereby a microorganism evolves over time to develop the ability to become resistant to antimicrobial therapies such as antibiotics. The drivers of and potential solutions to AMR are complex, often spanning multiple sectors. The internationally recognized response to AMR advocates for a One Health approach, which requires policies to be developed and implemented across human, animal, and environmental health.

Challenges to Tackling Antimicrobial Resistance Michael Anderson, Michele Cecchini, Elias Mossialos, 2020-04-23. An accessible overview of the challenges in tackling AMR and the economic and policy responses of the One Health approach. It will appeal to policy makers seeking to strengthen national and local policies tackling AMR, as well as students and academics who want an overview of the latest scientific evidence regarding effective AMR policies.

Surveying Antimicrobial Resistance: The New Complexity of the Problem Gilberto Igrejas, José Luis Capelo, Carlos Lodiero, Patrícia Poeta, 2020-07-10. In January of 2015, under the 1st International Caparica Conference in Antibiotic Resistance, a Research Topic entitled Surveying

Antimicrobial Resistance Approaches Issues and Challenges to overcome was published <http://journal.frontiersin.org/researchtopic/3763> surveying antimicrobial resistance approaches issues and challenges to overcome The problem of antimicrobial resistance AMR caused by excessive and inappropriate use of antibiotics is a public health issue that concerns us all The introduction of penicillin in the 1940s the start of the antibiotics era has been recognized as one of the greatest advances in therapeutic medicine However according to the World Health Organization WHO AMR infections are now an increasing worldwide public health threat and a post antibiotic era is imminent where common infections and minor injuries could be fatal AMR is a typical One Health problem in which livestock animals and the environment constitute AMR reservoirs and transmission routes to and from the human population Without effective antimicrobials to counter and prevent infections other major achievements in modern medicine such as organ transplantation cancer chemotherapy and major surgery risk being compromised AMR infections in animals have negative outcomes on animal health welfare biosecurity and production In 2006 the ban of growth promoting antibiotics highlighted antibiotic use in animal production as a risk factor in the development of antibiotic resistant bacteria Bacteria can be transferred to humans via several routes consumption of animal products exposure through contact with animals and the contamination of ground and surface waters by animal waste products Therefore it is of utmost importance that antimicrobial use in animals is reduced to a minimum without compromising animal health and welfare Mechanisms of bacterial antibiotic resistance are classified according to the types of antibiotic molecules or their targets in the cell Environmental antibiotic resistance genes are spread then acquired by clinically relevant microorganisms Many resistance genes are conveyed into pathogen genomes via mobile genetic elements such as plasmids transposons or integrons increasing the propagation of potential resistant pathogens Substantial progress has already been made in elucidating the basic regulatory networks that endow bacteria with their extraordinary capacity to adapt to a diversity of lifestyles and external stress factors So how will we face bacteria in the future

Emerging Modalities in Mitigation of Antimicrobial Resistance Nadeem Akhtar, Kumar Siddharth Singh, Prerna, Dinesh Goyal, 2022-01-31 Antimicrobial resistance AMR is one of the deadliest threats to global public health This book focuses on dynamics in the landscape of AMR while informing about the latest technologies and strategies to mitigate it The menace of AMR in different niches routes of penetration across various domains socio economic impact and the need for a One Health approach in mitigating AMR has been emphasized Factors involved in AMR underlying mechanisms and pharmacometrics in developing antimicrobials are highlighted Emphasis is given to emerging technologies that are sustainable scalable and applicable to the global community such as big data analytics bioactive agents phage therapy and nanotechnology The book also explores current and alternative treatment strategies to combat AMR emphasizing the use of nanoparticles to target pathogens and as a viable alternative to antibiotics

Antimicrobial Resistance (AMR) and Multidrug Resistance (MDR): Overview of current approaches, consortia and intellectual property issues World Intellectual Property

Organization, 2017-10-11 Based on a review of recent literature this WIPO Global Challenges Report includes a broad overview of current approaches and consortia designed to meet the challenge of research and development R D investment for new treatments It also examines patent applications by both the public and the private sectors as an indicator of innovative activity

Risking Antimicrobial Resistance Carsten Strøby Jensen, Søren Beck Nielsen, Lars Fynbo, 2018-07-14 Antimicrobial resistance AMR is predicted to be one of the greatest threats to public health in the twenty first century In this context understanding the reasons why perceptions of antibiotic risk differ between different groups is crucial when it comes to tackling antibiotic misuse This innovative volume gathers together chapters written by sociologists psychologists and linguists with the common aim of examining the social factors that affect use of antibiotics among humans and animals A unique focus on Denmark one of the world's most progressive countries when it comes to antibiotic regulation as well as Europe more broadly makes this book a valuable resource for regulatory deliberations on future antibiotic policy to effectively combat AMR

Antimicrobial Resistance Mihai Mares, Swee Hua Erin Lim, Kok-Song Lai, Romeo-Teodor Cristina, 2021-03-03 Tackling the realities of the antimicrobial resistance AMR situation today is no longer uncommon Many battles have been fought in the past since the discovery of antibiotics between man and microbes In the tussle of new antibiotic modifications the transmission of resistant genes both vertically and horizontally unveils yet another resistant attribute for the microbe for it only to be faced with a more powerful wide spectrum antibiotic the cycle continues and the winner is yet to be known This book aims to provide some insight into various molecular mechanisms agricultural mitigation methods and the One Health applications to maybe just maybe tip the scales towards us

Disentangling the Wicked Problem of Antibiotic Resistance Sylvia Adhiambo Omulo, 2017 Antimicrobial resistance AMR is currently an urgent public health concern worldwide For low income regions such as sub Saharan Africa absence of surveillance data and systematic investigations of risk factors prevents clear assessment of the impact that AMR has in these communities There is also no empirically based guidance for intervention strategies In chapter one we use PRISMA guidelines to review 116 journal articles from eastern Africa concerning AMR in people and animals with the aim of understanding the scale of the problem and contributors to the problem Over the last 40 years AMR has reportedly increased with unregulated antibiotic use invoked to explain the high prevalence of AMR in the region Nevertheless we note critical gaps i consistent speculation about the risk factors for AMR without critical examination ii no standardized system of testing and reporting of AMR data and iii lack of community based studies on AMR in people Chapter two reports the outcome of two cross sectional surveys on antibiotic use in an informal settlement slum in Kenya Results from this survey show that residents generally have limited and inconsistent knowledge of antibiotics including a perceived effectiveness of antibiotics for colds and flu Chapter three explores how variation in lab resources and deviations from prescribed laboratory protocols might impact estimates of AMR prevalence For the set of factors investigated i e culture conditions sample storage isolate selection and repeated re isolation

we observe that subtle variations are unlikely to significantly alter prevalence estimates In chapter four we use a longitudinal study design to examine how sanitation and antibiotic use impact household and individual AMR loads in households living within an informal settlement in Kenya While there is a relationship between reported antibiotic use and resistance to sulfamethoxazole and trimethoprim in children most of the variance in the distribution of resistant bacteria is explained by sanitation variables We conclude that although it is possible to design educational interventions based on our findings chapter 2 such interventions are not likely to have a significant impact on community level AMR when sanitation challenges continue to impact these communities chapter 4 **Anti-Microbial Resistance in Global Perspective** Louise

Ackers,Gavin Ackers-Johnson,Joanne Welsh,Daniel Kibombo,Samuel Opio,2020-11-23 The Maternal Sepsis Intervention has had a profound impact on maternal mortality and antibiotic use whilst also reducing hospital costs The Ministry of Health is keen to explore opportunities to extending the lessons learnt and integrate them in national policy making Dr Richard

Mugahi Ministry of Health Uganda This open access book provides an accessible introduction to the mechanics of international development and global health text for policy makers and students across a wide range of disciplines Antimicrobial resistance is a major threat to the well being of patients and health systems the world over In fragile health systems so challenged on a day today basis by the overwhelming burden of both infectious and non communicable disease it is easy to overlook the impacts of AMR The Maternal Sepsis Intervention focusing on a primary cause of maternal death in Uganda demonstrates the systemic nature of AMR and the gains that can be made through improved Infection Prevention Control and direct engagement of laboratory testing in antibiotic prescribing **Antimicrobial Resistance** Sunil Dasharath

Saroj,2022-08-03 Antimicrobial resistance has existed in nature long before the discovery of antibiotics The mechanisms of resistance are prevalent among the bacterial population Over a period of time and facilitated by indiscriminate usage of antibiotics these mechanisms are transferred from one type of bacteria to another including the pathogenic ones In addition the rate of discovery of novel antimicrobials is much slower than the rate of evolution of antimicrobial resistance Therefore there is a need for alternative strategies to control antimicrobial resistance to save lives In this book the novel strategies to combat antimicrobial resistance are described emphasizing collaborative measures of control We describe the concerted efforts undertaken by global communities to combat antimicrobial resistance in detail The most efficient strategy could be a behavioral change towards indiscriminate consumption usage and prescription of antibiotics *Antimicrobial Resistance*

(AMR) ,2018 Antimicrobial resistance AMR is the ability of microorganisms such as bacteria to become increasingly resistant to an antimicrobial to which they were previously susceptible An estimated 25 000 people die in the EU each year from resistant infections many of which are healthcare associated infections HCAI With the rise of AMR comes the threat of common infections becoming fatal Failing to address this serious health threat could lead to millions of lives being lost each year

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