



RSTMH Annual Meeting

Drug resistant infections: causes, consequences and considerations

11 – 12 October 2021

Online event

Day One: 11 October

Time BST	Session information
08:30 - 09:30	Pre-meeting networking An opportunity to meet other attendees, catch up with colleagues and make new connections through our online networking platform.
09.30 - 09.40	Welcome and introduction Tamar Ghosh, Chief Executive, Royal Society of Tropical Medicine and Hygiene (RSTMH)
09.40 – 10:00	Session 1 Sally Davies, UK Envoy on Antimicrobial Resistance
10.30 - 12:10	Session 2: Presentations on impact from implementation of policy frameworks and interventions Different considerations will be presented by experts from different One Health sectors Chair: Sabrina Moyo , Researcher, Norwegian national advisory unit on tropical infectious diseases Haukelan University Hospital, Bergen <u>Recasting the mould - integrating history and social sciences research into antimicrobial policy</u> Claas Kirchhelle , Lecturer History of Medicine, University College Dublin <u>Antimicrobial stewardship at Queen Elizabeth Central Hospital, Blantyre, Malawi</u> Rebecca Lester , Wellcome Trust Clinical PhD Fellow, Liverpool School of Tropical Medicine <u>Antimicrobial Usage in Food Animal Production in Pakistan: Trends and Lesson Learned</u> Mashkooor Mohsin , Assistant Professor Microbiology, University of Agriculture Faisalabad, Pakistan <u>One Health Drivers of AMR (OH-DART study)</u> Katy Turner , Managing Consultant, Aquarius Population Health
12:15- 12:50	Poster presentations networking Meet poster presenters and find out more about their research.

13:00 - **Session 3: Turbo talks**

13:40

Chair: Buddha Basnyat, RSTMH Trustee

A series of five-minute presentations selected from submitted abstracts from early career researchers

[Youth engagement in antimicrobial resistance through training programmes for university students: a pilot study](#)

Anya Webber, Antimicrobial Resistance Working Group co-chair, Students for Global Health Cambridge

[Effects of devolution on collaboration of One Health Stakeholders in fighting antimicrobial resistance at the district level in Malawi](#)

Elias Phiri, Health Policy Fellow & Associate, Malawi-Liverpool-Wellcome Trust

[A randomised controlled trial of the triple artemisinin-based combination therapy artemether-lumefantrine plus amodiaquine versus artemether-lumefantrine for multidrug-resistant Plasmodium falciparum malaria](#)

James Callery, Research Physician (Malaria), Mahidol Oxford Tropical Medicine Research Unit

[Poor quality anti-tuberculosis medicines – a neglected risk for global TB control and resistance](#)

Patricia Taberero, PhD student, Public Health Unit, Faculty of Medicine, University of Alcalá, Alcalá de Henares

[Structural and genomic insights into pyrazinamide resistance in Mycobacterium tuberculosis underlie differences between ancient and modern lineages](#)

Tanushree Tunstall, PhD researcher, London School of Hygiene and Tropical Medicine

13:40 - **Turbo talks networking session**

14:00

Join this informal session for more in-depth discussions with the turbo talk presenters.

14:00 - **Session 4: Progress after the AMR Review**

14:45

Adam Roberts, Scientific Chair of the Annual Meeting interviews **Jim O'Neill, Chairman, Review on Antimicrobial Resistance**

15:30 - **Session 5: Panel session: The future funding landscape for drug resistant infections?**

16:45

Key stakeholders discuss funding challenges and opportunities for future research priorities

Chair: Clare Chandler, Professor in Medical Anthropology & Director of the Antimicrobial Resistance Centre, London School of Hygiene & Tropical Medicine

Dawn Duke, Head of Programmes, Africa Research Excellence Fund

Helen Lambert, Professor of Medical Anthropology, University of Bristol and UKRI Challenge Leader for Global Health

Laura Plant, Senior Research Officer, Joint Programming Initiative on Antimicrobial Resistance (JPIAMR)

Louise Richards, Senior Portfolio Manager, ESRC: Economics and Social Research Council

16:45 -

17:00

Wrap up and close day one

17:15 -

18:15

Networking session

An opportunity to meet other attendees, catch up with colleagues and make new connections through our online networking platform.

Day Two: 12 October

Time BST	Session information
09.30 - 09.35	Welcome and introduction Adam Roberts, Scientific Chair of the Annual Meeting
09.35 - 10:15	Session 1: Turbo talks We continue with short presentations chosen from the submitted abstracts from early career researchers Chair: Guo-Bao Tian , Professor, Principal Investigator, Key Laboratory of Tropical Diseases, Sun Yat-sen University resistancebank.org , an open-access repository for surveys of antimicrobial resistance in animals Nicola Criscuolo , PhD Student, ETH Zürich Optimizing surveillance against antimicrobial resistance in animals in China Cheng Zhao , PhD Student, ETH Zürich PCR screening reveals Quinolone resistance genes in anthropogenically affected waterways in Badulla and Kandy districts Ishara Gunawardane , Teaching Assistant in the Department of Molecular Biology & Biotechnology, University of Peradeniya A retrospective analysis of antimicrobial resistance in pathogenic Escherichia coli and Salmonella spp. isolates from poultry in Uganda Steven Kakooza , Public Health Specialist, Vétérinaires Sans Frontières Germany Prevalence and antimicrobial susceptibility level of typhoid fever in Ethiopia: a systematic review and meta-analysis Melese Teferi , Research Project Coordinator, Armauer Hansen Research Institute
10.15 - 10.30	Turbo talks networking session Carry on the conversation in this brief session with the turbo talk presenters
10:30 - 11:15	Session 2: Experiences from the frontline Hear from those working on DRIs in healthcare settings globally Chair: Adam Roberts , RSTMH Policy Adviser on drug resistant infections and Scientific Chair, Liverpool School of Tropical Medicine Remy Pacifique Ntirenganya , Pharmacy Lead, Partners In Health (PIH) Edwin Larry Panford-Quainoo , Pharmacist and PhD Student, Liverpool School of Tropical Medicine
11:30 – 13:15	Session 3: Presentations on implementation of surveillance systems for drug resistance and usage Experts from around the world will share their experience of implementing national scale surveillance systems Chair: Sabiha Essack , South African Research Chair (SARChI) in Antibiotic Resistance and One Health & Professor in Pharmaceutical Sciences, University of KwaZulu-Natal Effects of AMR Stewardship Interventions Céire Costelloe , Reader in Digital Health and Statistics & NIHR Career Development Fellow, Director of Global Digital Health Unit, Imperial College London

Implementation of AMR surveillance in Brazil - a 10+ years of experience

Marcelo Pilonetto, State Laboratory for Public Health, Department of Health Assistance and Surveillance, Secretary of Health, Curitiba, Brazil

Experience of Establishing AMR surveillance network in India

Kamini Walia, Program Officer AMR, Division of Epidemiology and Communicable Diseases, Indian Council of Medical Research

Title tbc

Angkana Lekagul, Faculty of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine

13:15 – **Poster presentations networking**

13:55 Meet poster presenters and find out more about their research.

15:30 – **Session 4: Panel session: What is the role of RSTMH in the fight against drug resistant infections?**

16:45

How can drug resistance move from a research to an implementation agenda? What is the role of evidence generation, translation and integration and the sustainable development agenda? Has COVID been a distraction or a help in highlighting DRIs?

Chair: Chris Whitty, Chief Medical Officer for England

Jyoti Joshi, Head of South Asia, Center for Disease Dynamics, Economics & Policy (CDDEP)

Mirfin Mpundu, Director, ReAct Africa

Adam Roberts, RSTMH Policy Adviser on drug resistant infections and Scientific Chair, Liverpool School of Tropical Medicine

George Varghese, Professor and Head of the Department of Infectious Diseases, Christian Medical College Vellore

Ghada Zoubiane, Head of Partnerships and Stakeholder Engagement, International Centre for Antimicrobial Resistance Solutions (ICARS)

16:45 **Wrap up and close**

Tamar Ghosh, Chief Executive, Royal Society of Tropical Medicine and Hygiene

Poster presentations

1. Adenosine Deaminase Enzyme in Drug Resistant Tuberculosis

Pelumi Adewole, Assistant Lecturer, Kwara State University, Malete

2. The excess burden of bloodstream infections caused by antibiotic resistant bacteria in LMICs. A systematic review and meta-analysis in the human inpatient sector.

Kasim Allel, Research staff, London School of Hygiene and Tropical Medicine

3. Guideline Recommendations for Empirical Antimicrobial Therapy: An Appraisal of Research Evidence for Clinical Decision-Making in Ethiopia

Balew Arega, Lecturer, physician, Yekatit 12 Hospital Medical College

4. Arteether loaded novel formulation development and optimization by formulation by design concept for intensified oral bioavailability

Neha Bajwa, Ph.D. Research Scholar, Department of Pharmaceutical Sciences and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India.

5. Addressing fluoroquinolone-induced AMR with a novel CcdB toxin-based broad-spectrum antibacterial peptide

Jayantika Bhowmick, Postdoctoral researcher, Indian Institute of Science

6. Analysis of Outpatient and Home Parenteral antibiotic Therapy (OHPAT) service at Newcastle upon Tyne hospitals NHS foundation trust from August 2020 to May 2021.

Emily Heppenstall, Medical Student, Newcastle University

7. Drug-resistant infections in malnourished children with bacteraemia at a tertiary hospital in Malawi.

Victoria Mukhula, Pre-MSc Research Intern, Malawi-Liverpool Wellcome Trust Clinical Research Programme

8. Molecular identification and antibiotic Susceptibility Patterns of Bacterial Isolates from urine samples of African buffalo, eland and cattle

Harry Asena Musonye, PhD student (Epidemiology & Health Statistics), Anhui Medical University

9. Increase in incidence of substandard and falsified pharmaceutical products in Nepal

Astha Neupane, Research Intern, Kathmandu Institute of Applied Sciences

10. Stewardship through guidelines: Evidence of practice at the periphery in Uganda's rural health centres.

Susan Nayiga, PhD Candidate, Infectious Diseases Research Collaboration/ London School of Hygiene and Tropical Medicine

11. A systematic review of the global prevalence of substandard and falsified antibiotics

Guillermo Alonso Zabala, Research physician, Infectious Diseases Data Observatory