

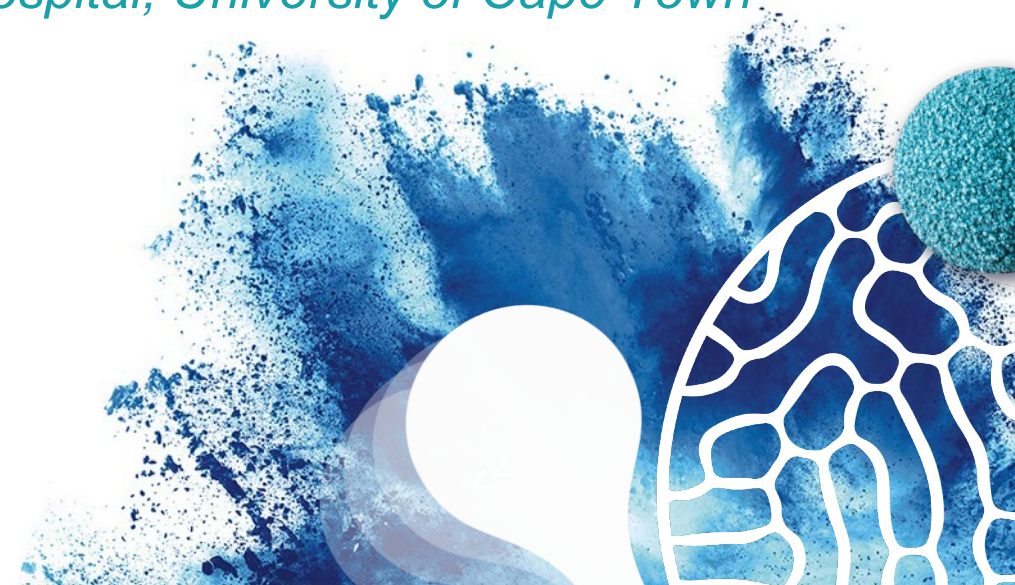
# Learning from COVID-19 to tackle the silent pandemic of antibiotic resistance

## Speakers:

- Dr Manica Balasegaram, *Executive Director, GARDP*
- Dr Joanne Liu, *Associate clinical Professor, University of Montreal & former International President of Médecins Sans Frontières*
- Dr Marc Mendelson, *Professor of Infectious Diseases and Head of the Division of Infectious Diseases & HIV Medicine at Groote Schuur Hospital, University of Cape Town*

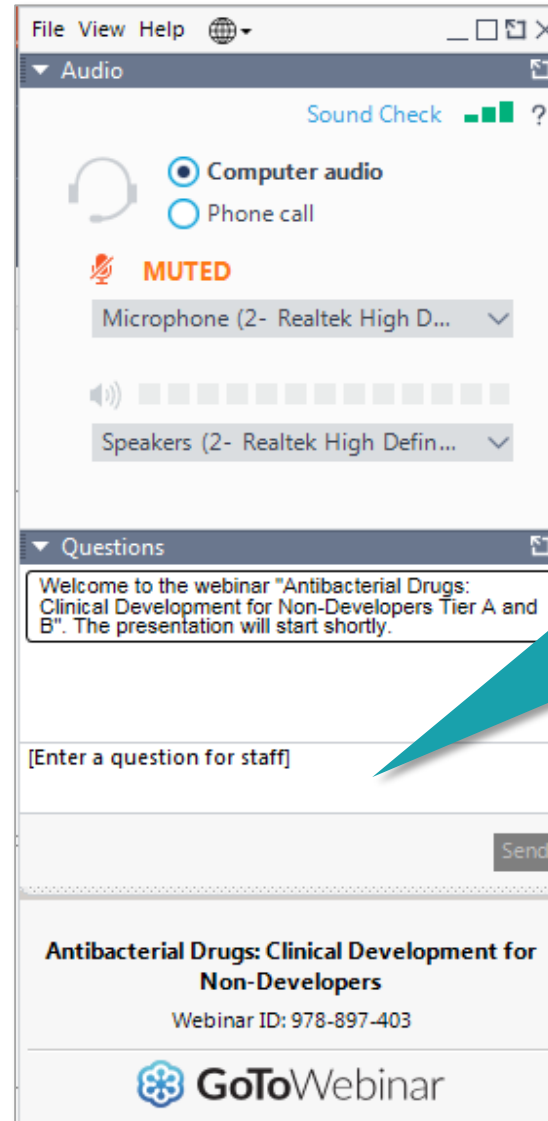
**Moderator:** Claire Doole

*4 March 2021*



# How to submit your questions

If your question is addressed to a specific speaker, please include their name when submitting the question.



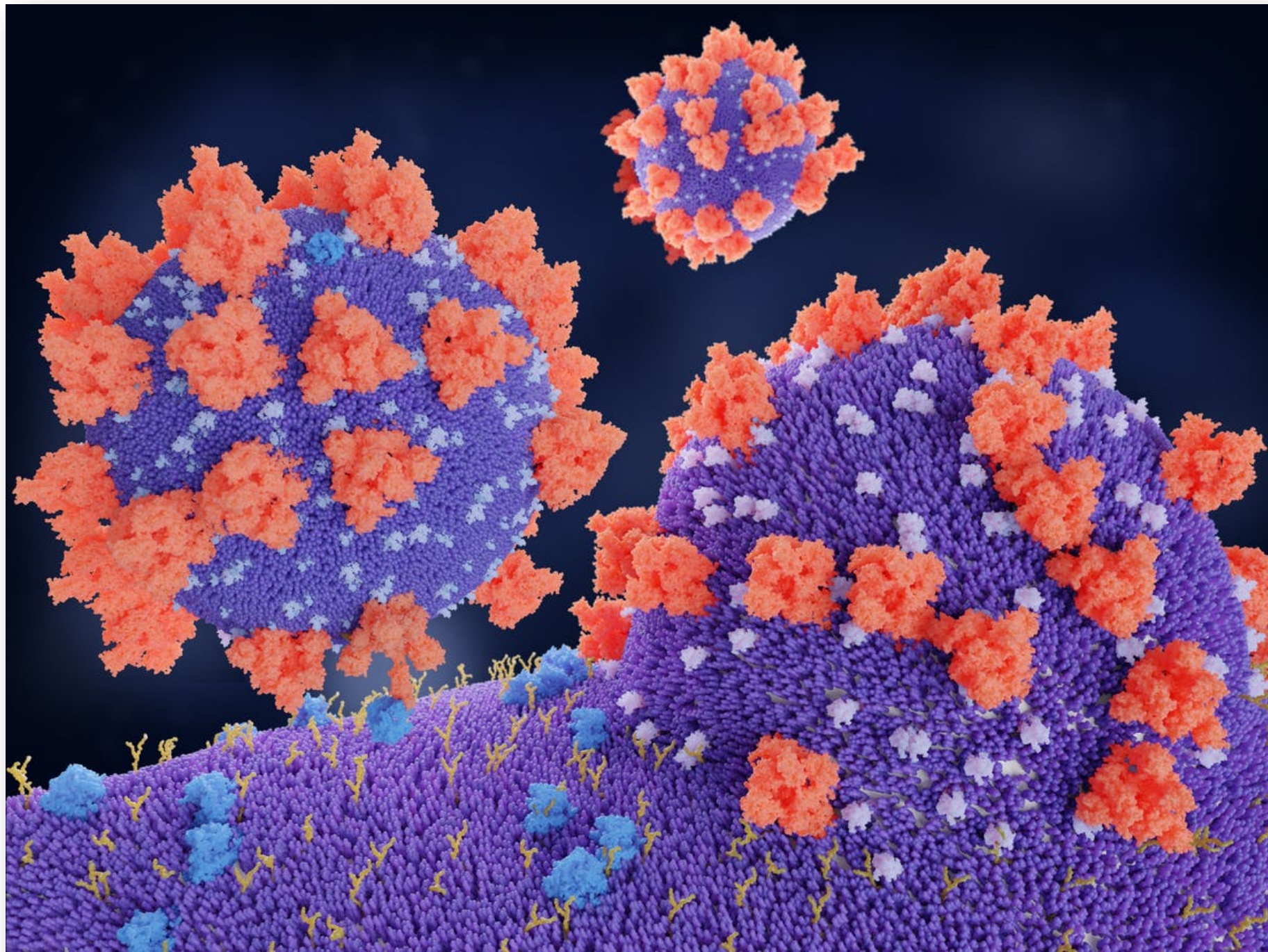
The screenshot shows the GoToWebinar interface. At the top is a menu bar with 'File', 'View', 'Help', and a globe icon. Below it is a tab labeled 'Audio'. The Audio section includes a 'Sound Check' status with a green bar and a question mark. There are two radio buttons: 'Computer audio' (selected) and 'Phone call'. A red microphone icon with the word 'MUTED' in orange is displayed. Below this are dropdown menus for 'Microphone (2- Realtek High D...)' and 'Speakers (2- Realtek High Defin...)', each with a speaker icon and a volume bar. The 'Questions' tab is also visible. It contains a text box with the message: 'Welcome to the webinar "Antibacterial Drugs: Clinical Development for Non-Developers Tier A and B". The presentation will start shortly.' Below the text box is a label '[Enter a question for staff]' and a 'Send' button. At the bottom of the window, the title 'Antibacterial Drugs: Clinical Development for Non-Developers' and 'Webinar ID: 978-897-403' are shown, along with the GoToWebinar logo.

The presentation will be followed by an interactive Q&A session.

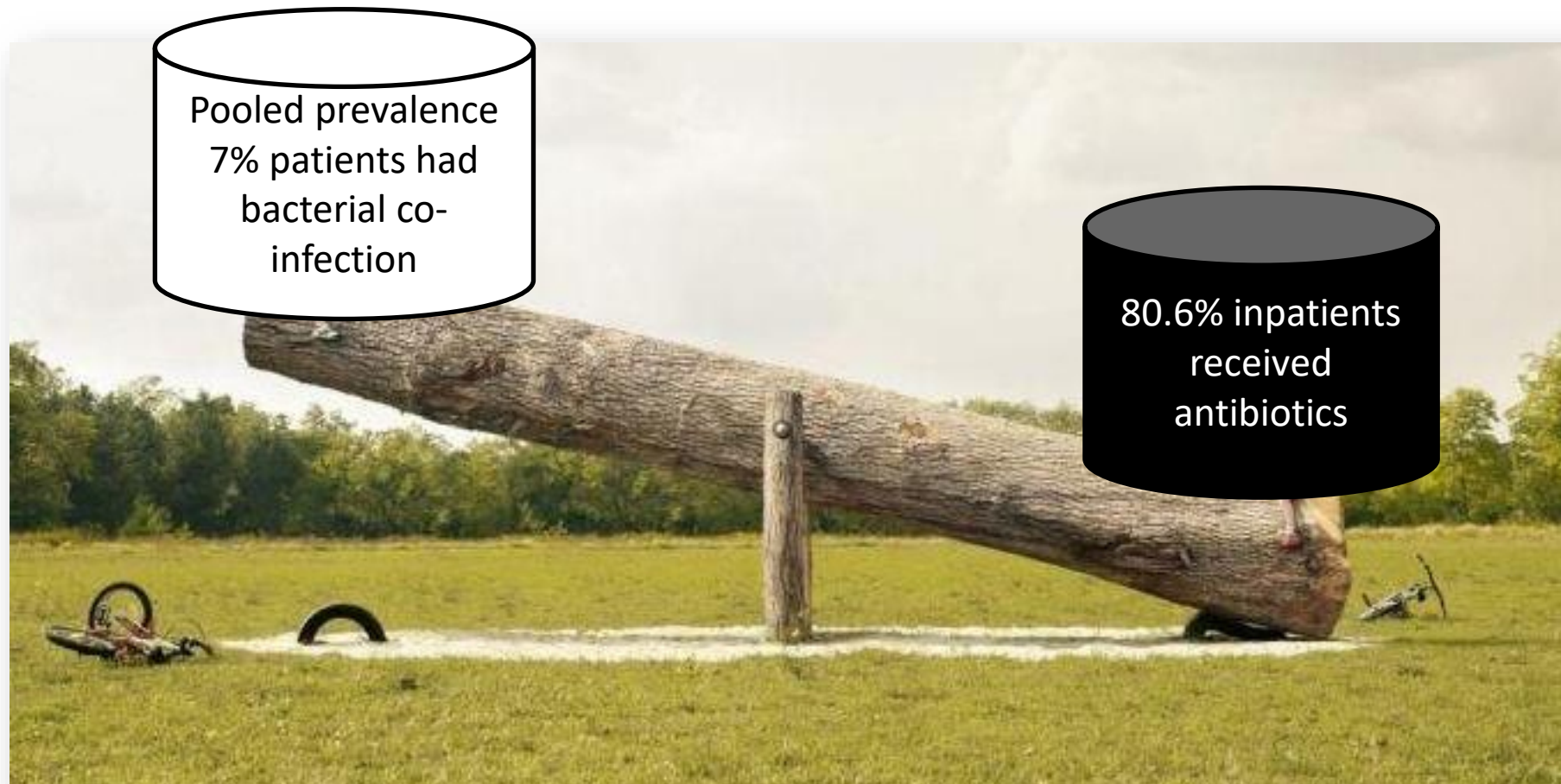
Please submit your questions via the 'questions' window. We will review all questions and respond to as many as possible after the presentation.

# Learning from COVID-19 to tackle the silent pandemic of antibiotic resistance

Marc Mendelson  
Groote Schuur Hospital  
University of Cape Town



# Inappropriate antibiotic prescribing



# Rapid diagnosis allows directed treatment



# Nothing to offer in early COVID-19 or modern-day AMR



COVID-19 ABOUT US CENTRES OUR SERVICES



## FIRST CASE OF COVID-19 ANNOUNCED – AN UPDATE

5 March , 2020

The Minister of Health, on 05 March 2020, made an official announcement of a local confirmed COVID-19 case in South Africa, of a 38-year old man from KwaZulu-Natal who travelled to Italy. The National Institute for Communicable Diseases (NICD), a division of National Health Laboratory Service, wishes to clarify that the COVID-19 indicates the strength of our surveillance and South Africa's health systems to be able to detect and rapidly identify cases.

The case has been isolated and containment measures are ongoing including the monitoring of contacts. It is important to note that the identification of a single imported case in a traveller from an area with widespread community transmission does not mean that COVID-19 is currently spreading in South African communities. The risk to the general community of acquiring COVID-19 remains low.

<i>Acinetobacter baumannii</i> complex (ACIBC)	
Comments	
Tissue, right knee.	
Antibiotic/Culture:	ACIBC
-----	-----
Trimethoprim-sulfamethoxazole	R
Ciprofloxacin	R
Ceftazidime	R
Cefepime	R
Gentamicin	R
Tobramycin	R
Amikacin	R
Piperacillin/tazobactam	R
Imipenem	R
Meropenem	R
Tigecycline	I
S - Sensitive ; I - Intermediate ; R - Resistant .	
Organism	<i>Acinetobacter baumannii</i> complex
Antibiotic	Colistin
MIC	>64 ug/mL
MIC interpretation	Resistant

# Assured access to 'old' medicines

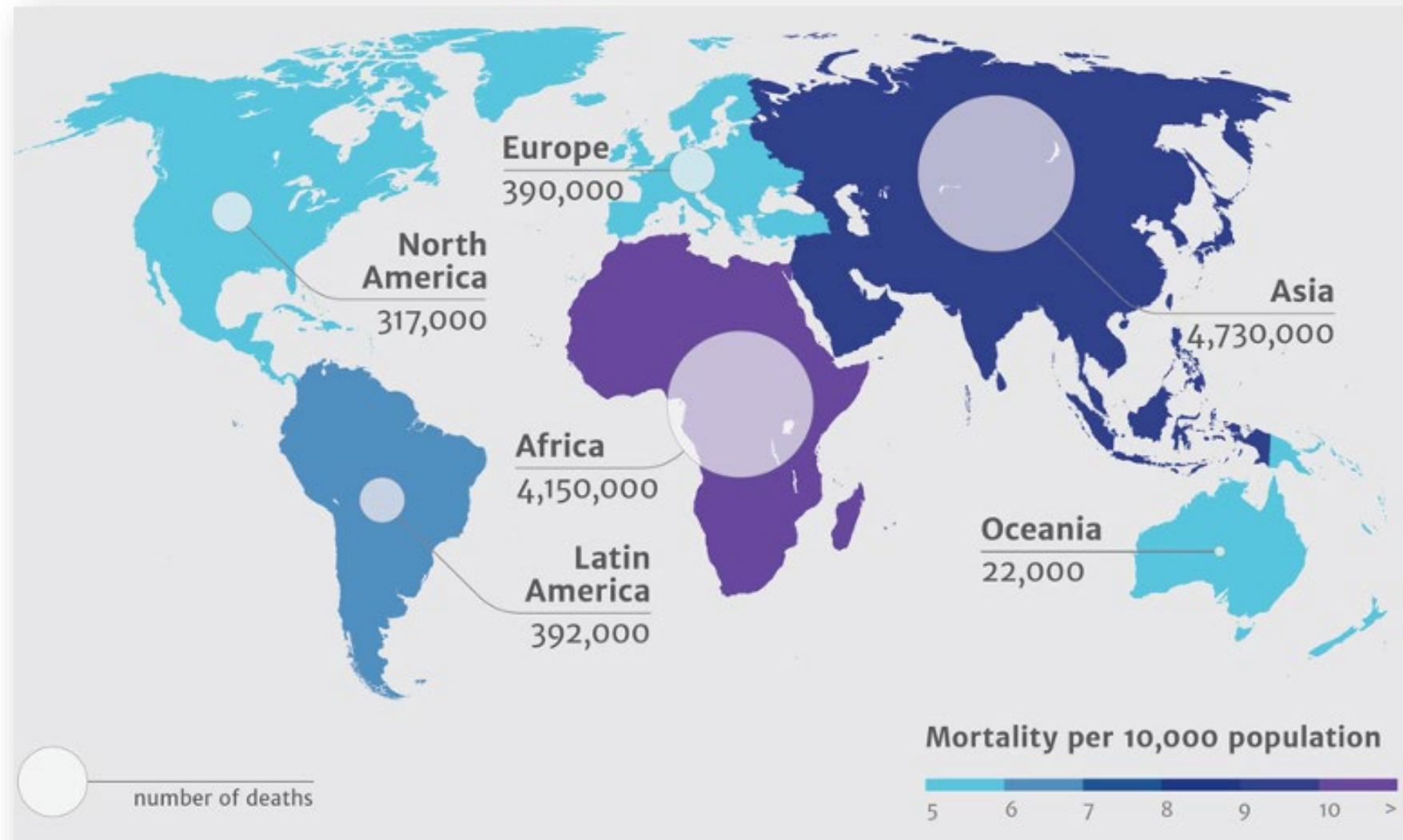




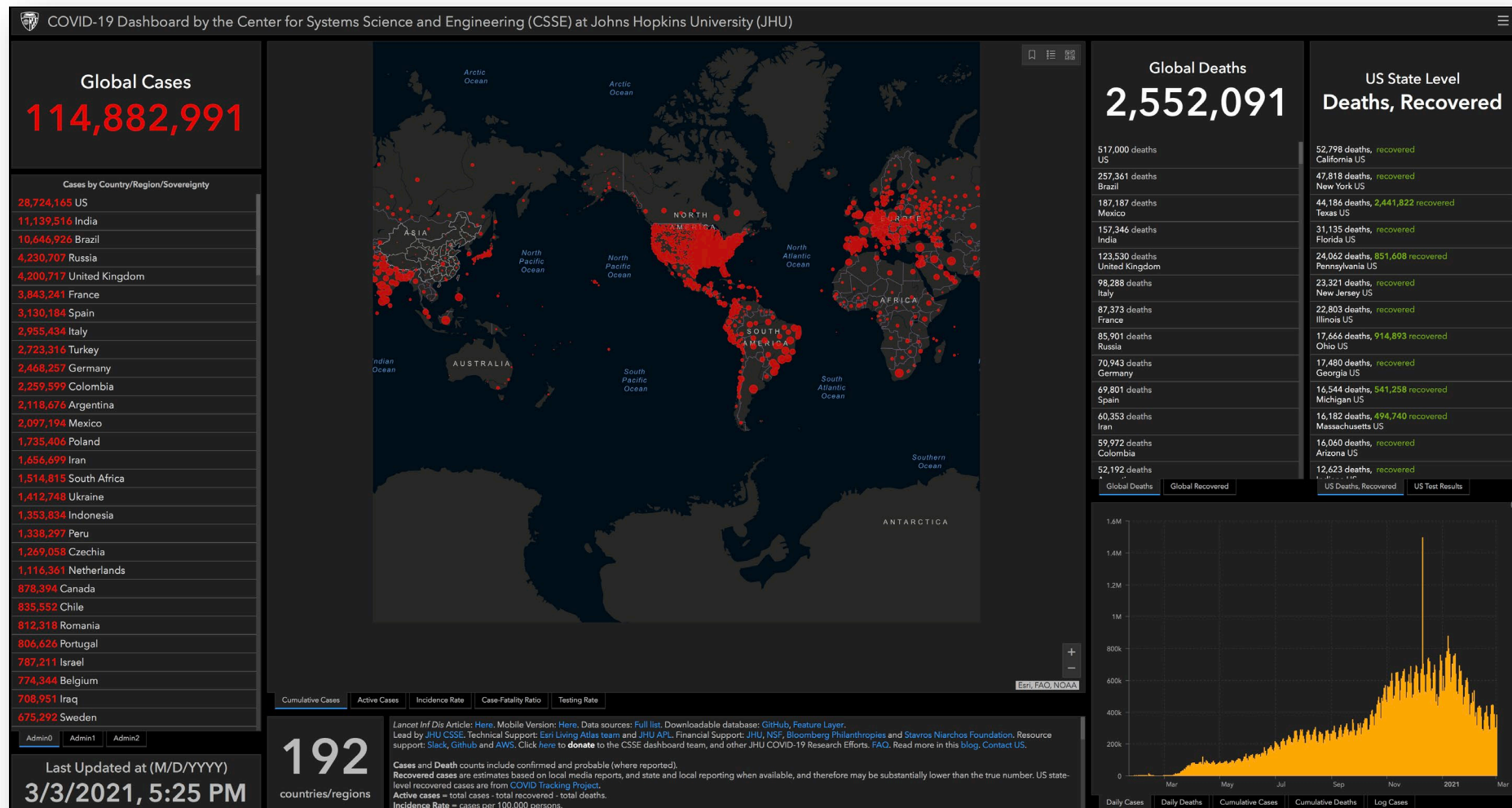
Compliance with IPC in healthcare workers during COVID-19 was driven largely by fear for the 'self'



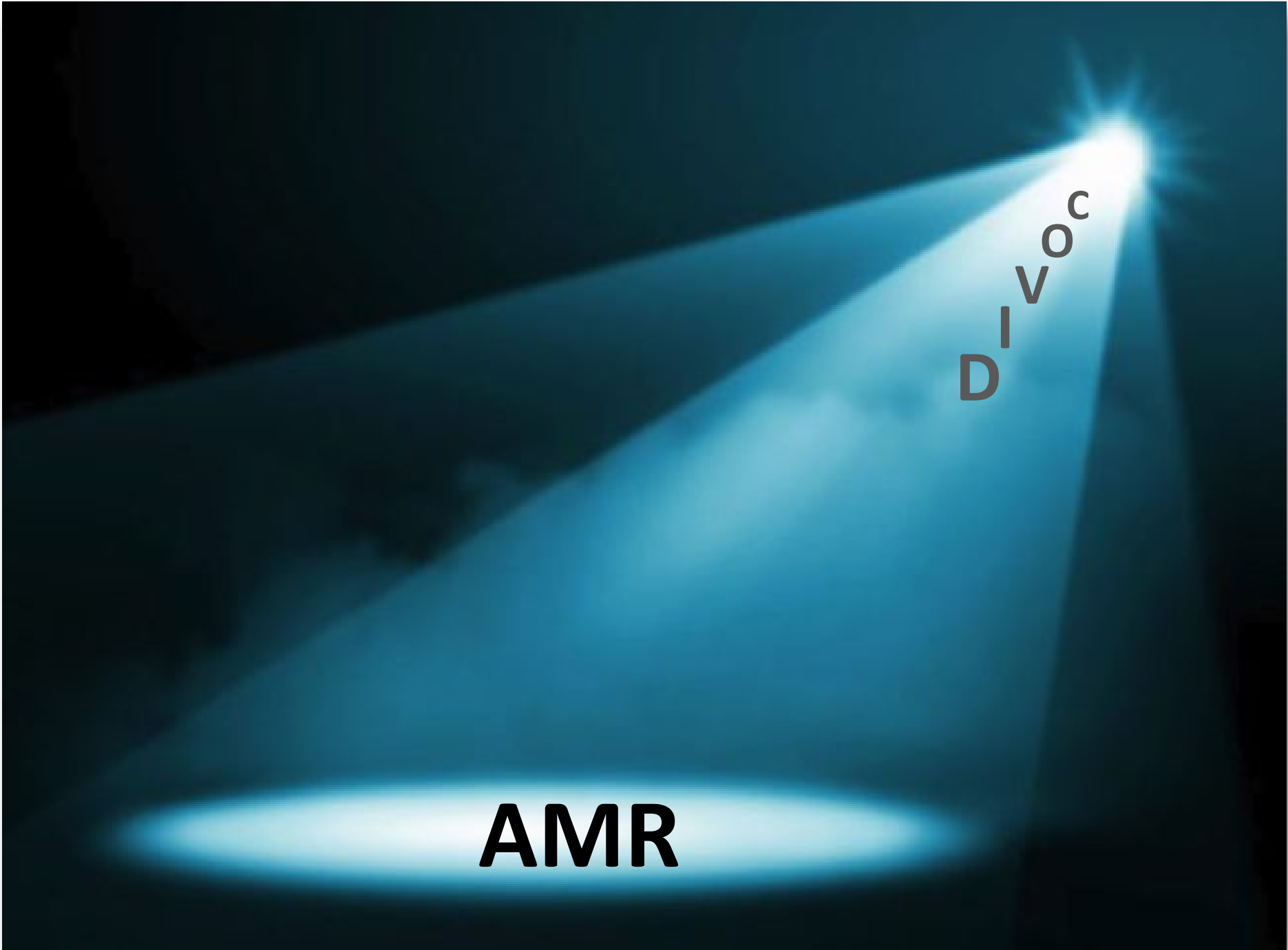
# 10 million deaths per year from AMR infections by 2050



# 2.5 million deaths from COVID-19 in the first 15 months



# The face of AMR



**AMR**

D i v o c

# Applying early lessons from COVID-19 to AMR

4 March 2021

Dr. Joanne Liu

Associate clinical Professor, University of  
Montreal & former International President of  
Médecins Sans Frontières

# Interim findings of the Independent Panel Report

- ▶ Pandemic preparedness at the global and national level was inadequate.
- ▶ There was a cascade of early failings in the global and national responses to COVID-19.
- ▶ The international system for detection, alert, and response has the trappings of an analog system in a digital age.

# Interim findings of the Independent Panel Report

- ▶ The pandemic has laid bare and exacerbated inequalities both within and between nations.
- ▶ There are major weaknesses in global supply chains including the absence of frameworks to ensure equitable access to critical equipment.
- ▶ While the ACT-Accelerator was quickly launched, there is a risk (and now an actual reality) of a two-tier system of access to medical countermeasures.

# Seizing the opportunity

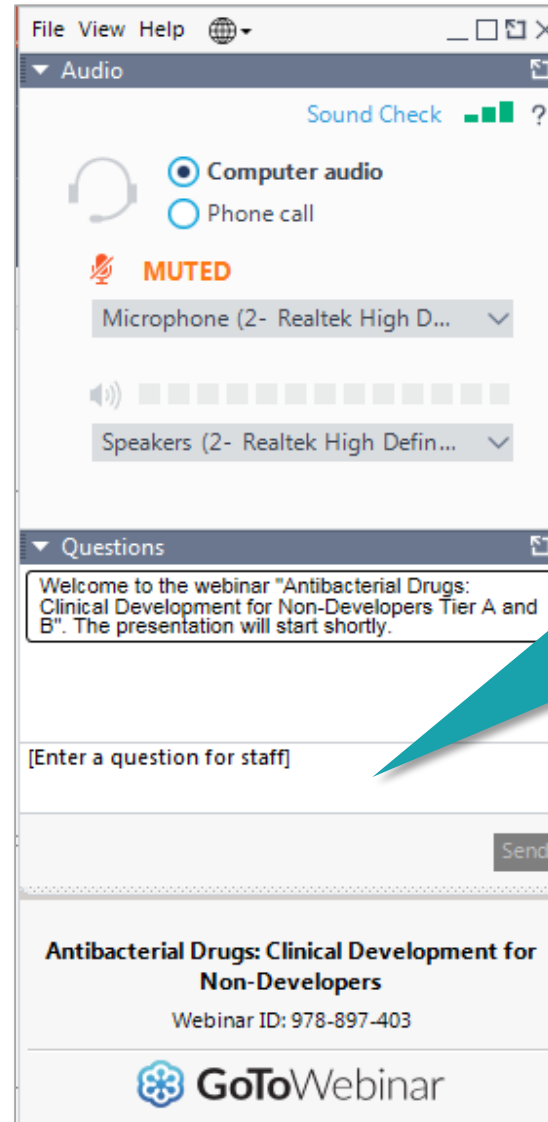
- ▶ Knowledge can be a common good that translates into life-saving technologies. Yet ‘traditional’ market incentives were neither sufficient nor appropriate to develop medical countermeasures.
- ▶ To generate such knowledge and translate it into COVID-19 countermeasures, governments have invested over 90 billion Euros.
- ▶ There is a unique opportunity to reset and improve upon our collective approach in preparation and response to other pandemic threats.

# The pandemic of drug-resistant infections

- ▶ The response to AMR is already built upon a 'One Health' approach, which can be a model and guide to overall pandemic preparedness.
- ▶ Governments should also consider a 'One World' approach that brings together all countries to develop a long-term response including appropriate tools for diverse contexts. Low- and middle-income countries (LMICs) are partners, not recipients.
- ▶ Governments must find a way to improve preparedness and response to a fast-moving pandemic whose impacts are often felt or acknowledged slowly.

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The presentation will be followed by an interactive Q&A session.

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# Webinar recordings

Upcoming Events





Past Events

GARDP Events

External Events

WELCOME TO THE ANTIMICROBIAL CHEMOTHERAPY VIRTUAL CONFERENCE 2021

THIS CONFERENCE IS FREE OF CHARGE TO ATTEND








02 Feb, 2021 - 03 Feb, 2021

Antimicrobial Chemotherapy Virtual Conference 2021

WEBINAR

Drugs Don't Work: What Can Be Done to Fight the Threat of Antibiotic Resistance for Effective Cancer Treatments?



18 November 2020, 14:30 CET



Speakers:  
Helen Ramage, Executive Director, GARDP  
Dr. David Smith, Director, Division of Cancer Prevention and Control, NCI  
Helen Ramage, Lead, Longitudinal Study  
Sally A. Denny, Head of Public Area Policy

Registration Open

18 Nov, 2020

Webinar: Drugs Don't Work: What Can Be Done to Fight the Threat of Antibiotic Resistance for Effective Cancer Treatments?

REVIEW



LIVE WEBINAR

Building better breakpoints: data and methods needed to determine breakpoints for new agents




Speakers:  
Julia Tunney, University of Liverpool  
Anish Mehta, University of Liverpool

Recording available

Moderated by Gerd Kahlmeter

21 October 2020, 09:00-10:30 CEST

REVIEW



LIVE WEBINAR

Exploring safety issues in antimicrobial drug development

Speakers:  
W. H. Hothersall, University of Liverpool  
Julia Evans, University of Liverpool  
Paul B. Wootton, University of Liverpool





Recording available

Moderated by Gerd Kahlmeter

17 Nov, 2020

Webinar: Discovery of New Antibacterials Using Artificial Intelligence (Computational Chemoinformatics)

REVIEW



LIVE WEBINAR

Moving from preclinical to clinical-stage: Challenges and opportunities

Speakers:  
Ruth Durrant, University of Liverpool  
Matthew Jones, University of Liverpool  
Dr. David Smith, Director, Division of Cancer Prevention and Control, NCI  
David Wootton, University of Liverpool

Recording available

Moderated by Gerd Kahlmeter

24 September 2020, 16:30-17:30 CEST

Webinar: Developing antibiotics for children – medical need and regulatory challenges

Webinar recording

Manipulating the host response to treat infections

Speakers:  
Ruth Hancock  
Helen R. Hoogstraal

Moderated by  
Jennifer Macfarlane

14 Jan, 2021

Webinar: Manipulating the host response to treat infections

Webinar recording

Discovery of new antibacterials using artificial intelligence (computational chemoinformatics)

Speakers:  
Laura Piddock (GARDP)

Moderated by  
Laura Piddock (GARDP)

17 Nov, 2020

Webinar: Discovery of New Antibacterials Using Artificial Intelligence (Computational Chemoinformatics)

Webinar recording

Developing antibiotics for children – medical need and regulatory challenges

Speakers:  
Phoebe Williams  
Irina Lutsar

Moderated by  
Irina Lutsar

28 Oct, 2020

Webinar: Developing antibiotics for children – medical need and regulatory challenges

LIVE WEBINAR

20 November 2020, 10:30am - 12pm CET

Saving children's lives – treating neonatal sepsis

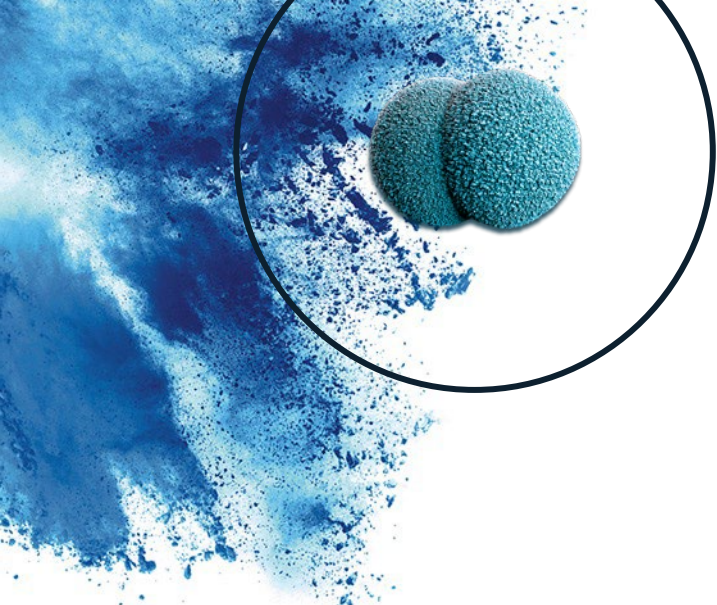
The webinar is part of a collaboration with WHO, is being held on the occasion of Global Children's Day and during World Antibiotic Awareness Week

Speakers:  
Dr. Helen Ramage, Executive Director, GARDP  
Dr. Helen Ramage, Executive Director, GARDP  
Dr. Helen Ramage, Executive Director, GARDP  
Dr. Helen Ramage, Executive Director, GARDP

20 Nov, 2020

Webinar: Saving Children's Lives – Treating Neonatal Sepsis

[www.gardp.org/news-and-resources/events/](http://www.gardp.org/news-and-resources/events/)

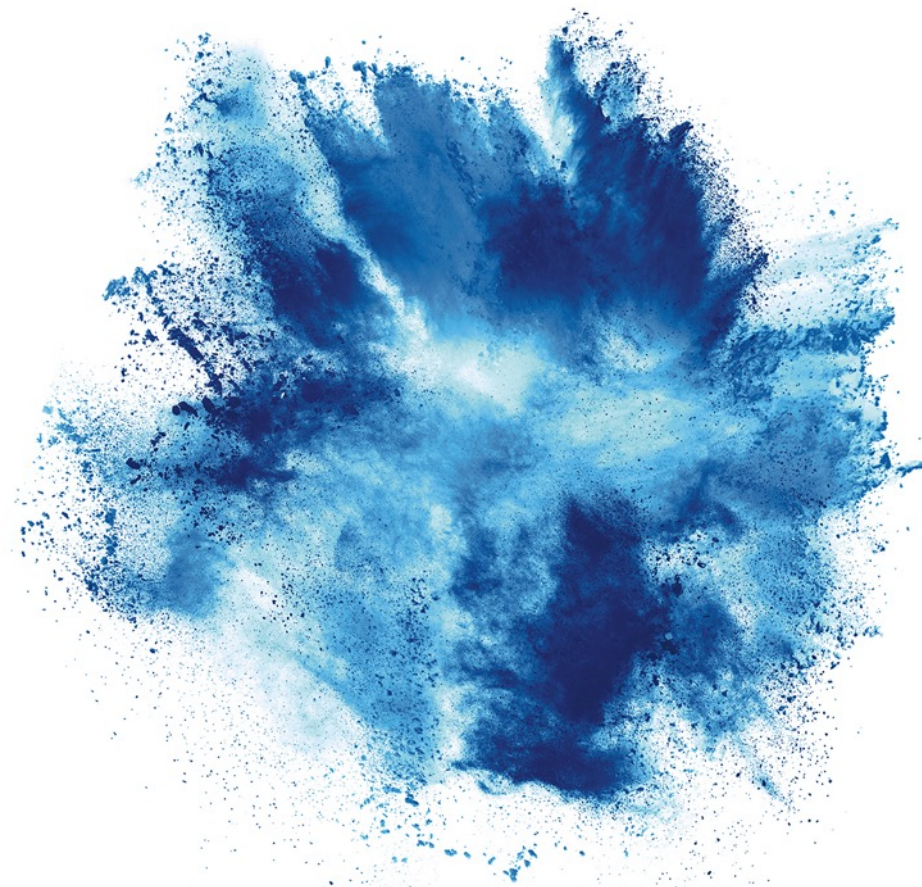


# Thank you for joining us

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