



47th Annual Topics in Infection

20th September 2022

Great Hall, St Bartholomew's Hospital,
London, EC1A 7BE

NHS
Barts Health
NHS Trust



UK Health
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Agency



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About RSTMH

The Royal Society for Tropical Medicine and Hygiene is a charity and membership Society that has been dedicated to improving tropical medicine and global health since 1907. Our ambition is to save lives and improve health around the world through increased access to and greater equity in global healthcare. Our members, based in 95 countries, are at all stages of their careers, working across a multitude of disciplines and from a range of sectors.

Become a member

Support our work and be part of a community that helps to save lives and improve health around the world. Member benefits include:

- Discounted rate to our meetings and events, **including up to a £45 discount on Topics in Infection**
- Access to our monthly journal, *Transactions*
- A fortnightly newsletter that contains exclusive news and opportunities for our members
- Access to our Early Career Grants programme that supports early career researchers
- The ability to influence our work and access member only information and Directory

If you want to know more, please come and meet our Membership Manager, Adam Myers today, or email him at adam.myers@rstmh.org

Visit rstmh.org/membership

47 years of Topics in Infection

Welcome to Topics in Infection 2022. RSTMH is honoured to host this meeting with our partners Barts Health and the UK Health Security Agency.

The first Topics in Infection was held in 1975 at the London Hospital Medical College and it has been held every year but one since then -usually on the last Friday in January.

"Topics" was the brainchild of Professor David Williams who was appointed to the Goldsmith's chair of Microbiology at the London Hospital Medical College in 1974 and Don Goodchild of Beecham who initially sponsored it. The idea was conceived at the Café Royal and its aim was to discuss events in the field of infection which have happened in the current year i.e., hot topics. Hence lectures at Topics always tend to be diverse and not on a single theme as occurs in many meetings.

Topics in Infection was designed to attract a wide variety of people including microbiologists, infectious disease physicians, infection control personnel, biomedical and clinical scientists and those interested in infections but not necessarily experts in it. For many years it was largely supported by Industry although they had no say about its programme and while this was the case it enabled the registration fee to remain very low enabling many people to attend. At one time it had nearly 500 participants.

David Williams organised Topics every year until he retired in 1996 when its organisation was taken over by Armine Sefton who was Senior Lecturer at Barts and the London at the time and who had helped David organise it for the previous five years. Armine Sefton continued to organise it on behalf of the Medical College until about ten years ago when she first co-organised it with Tim Brooks of PHE and Porton Down. Shortly afterwards the Royal Society of Tropical Medicine and Hygiene also became co-organisers with PHE and the Medical School and for the last eight years they have taken over all the administrative aspects of this meeting.

Topics has been held in a variety of venues including the London Hospital Medical College, Centre Point, Café Royal, SOAS, The British Library the Commonwealth Institute, the Queen Elizabeth II centre, the TUC Congress centre and today Barts Hospital. It has run for 45 years but its aim to discuss hot topics in the infection field remains largely unchanged.

Thank you to all the organisers, delegates and speakers who have contributed over the years!



Programme

09:00 Morning refreshments and registration

09:30 Welcome

Tamar Ghosh, CEO, Royal Society of Tropical Medicine and Hygiene

09:40 Session 1

Chaired by **Dr Gee Yen Shin**, Director of Infection Prevention Control and consultant virologist at University College London Hospital.

09:45 Preparing for the next UK winter considering flu and other virus trends

Dr Jenny Harries OBE, Chief Executive of the UK Health Security Agency

10:20 Genomic investigations into acute hepatitis of unknown aetiology in children

Professor Judith Breuer, Director of Infection and Immunity at University College London

10:55 Monkeypox – the latest public health emergency of international concern

Professor Jimmy Whitworth, Professor of International Public Health, Trustee of RSTMH and Chair of the RSTMH Grants and Awards Committee

11:30 Refreshments and networking

11:45 Session 2

11:50 COVID-19 and sexual health

Dr Rita Browne, Consultant of Genito-Urinary Medicine

12:25 My life cycle as a clinical parasitologist

Professor Peter Chiodini, University College London Hospitals NHS Foundation Trust

13:00 Lunch

13:45 Session 3

13:50 Covid-19 and acute myocardial injury

Dr Oliver Guttman and Professor Saidi (Sam) Mohiddin, Barts Health NHS Trust

14:25 Making Sense of Scents: using dogs and sensors to detect disease

Professor James Logan, Professor within the Department of Disease Control at the London School of Hygiene & Tropical Medicine

15:00 Poliovirus detection in London sewage

Dr Rebecca Cordery, Consultant in Communicable Disease Control, UKHSA

15:35 Refreshments and networking

15:50 Session 4

Chaired by **Dr Derren Ready**, Lead Consultant in Public Health Infection at UKHSA

15:55 Panel Discussion: Critical intersectionality's of One Health

Professor Isabel Oliver, Chief Scientific Officer for the UK Health Security Agency.

Professor Rick Mumford, Deputy Chief Scientific Advisor and Deputy Director of Science, Evidence and Research at the Food Standards Agency.

Professor Stuart Reid, President and Principal of The Royal Veterinary College

16:55 Summing up and close

Tamar Ghosh, CEO, Royal Society of Tropical Medicine and Hygiene

17:00 Networking and drinks reception

Biographies

Professor Judith Breuer



Professor Judith Breuer is a Professor of Virology at UCL and Clinical lead for Virology at Great Ormond Street Hospital for Children. Her research interests include the development of high-throughput pathogen sequencing directly from clinical material for the analysis of pathogen evolution and identification of pathogen genetic determinants of clinical disease including cytomegalovirus in congenital infection.

Professor Breuer has worked for many years on varicella zoster virus and its vaccine, elucidating many aspects of VZV natural history and pathogenesis.

Professor Breuer has developed diagnostic metagenomic methods for pathogen discovery in patients with undetected infections of the brain, widening this recently to other samples. Through her clinical work she has developed a pipeline for the evaluation of new and repurposed drugs, including combinations for treatment of serious viral infections, including cytomegalovirus, particularly in immunocompromised individuals.

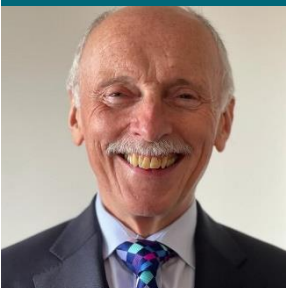
Professor Breuer is a member of the UK MHRA Expert Working Group on Covid vaccines and the SAGE subcommittee on Hospital Onset Covid Infection. She chairs the JCVI Definitions of Immunosuppression working group.

Dr Rita Browne



Dr Rita Browne is a consultant in Sexual Health and HIV at Mortimer Market centre, CNWL NHS Trust. She is the clinical Lead for the Integrated Sexual Health care Service. Previously Dr Browne was the clinical Lead at St Ann's Sexual Health centre. She is also the examiner for the Dip GUM, and a member of BASHH STIF steering Board and Clinical Governance group. Dr Rita Browne's clinical practice involves her as lead liaison with pathology services for developing new services and pathways, and lead for guidelines development within the service and complex GUM clinical care.

Professor Peter Chiodini



Professor Peter Chiodini graduated from King's College London with first class honours in zoology and gained his PhD in parasitology at the Wellcome Research Laboratories. He then studied medicine in London before undergoing specialist training in communicable diseases in Birmingham.

Professor Chiodini organizes the UK National External Quality Assessment Schemes for parasitology, is a member of the UKHSA Advisory Committee on Malaria Prevention in Travellers and the UK Advisory Committee on Dangerous Pathogens. He has collaborated with the WHO on Chagas disease in non-endemic countries and with the WHO IWGE on echinococcosis. He is both a pathologist and a physician, with special interests in malaria and echinococcosis, where he uses his background in basic biological sciences and clinical medicine better to understand the behaviour of these diseases. His research interests

include new diagnostic methods for parasitic infections, echinococcosis, malaria, and Chagas disease. In 2018 he was awarded an OBE for services to parasitology and malaria.

Dr Rebecca Cordery



Rebecca is a Consultant in Communicable Disease Control with the London Health Protection Teams, UKHSA. The Health Protection Teams are responsible for managing notifications of infectious diseases, lead the management of outbreaks of infection, and support the multi-agency response to incidents involving non-infectious environmental hazards. She has a particular interest in vaccination and is the London region vaccine preventable diseases and immunisation lead for UKHSA. Rebecca is a current member of the UK Joint Committee on Vaccinations and Immunisation, appointed in 2019.

Dr Oliver Guttman



A consultant cardiologist, Dr Oliver Guttman works at St Bart's Hospital and has a special interest in cardiomyopathies, particularly myocarditis and hypertrophic cardiomyopathy. He runs the myocarditis/inflammatory heart muscle. He also specialises in coronary interventions and is the clinical lead for the Coronary Care Unit at Barts Heart Centre.

Dr Guttman qualified in 2005 and became a member of the Royal College of Physicians in 2008. He then spent time training at several hospitals including the Heart Hospital, the London Chest Hospital, and

Barts Heart Centre. He went on to undertake research into atrial fibrillation and stroke in hypertrophic cardiomyopathy and received an MD (Res) degree for his work. Dr Guttman has published several articles in the areas of inherited inflammatory heart disease, cardiomyopathy risk stratification, and percutaneous coronary intervention outcomes.

Dr Guttman also works as an honorary associate professor at University College London and is a proposal editor for Cochrane Heart. In addition, he is a member of the working group on pericardial and myocardial disease of the European Society of Cardiology. He also sits on the Finance Committee of the British Cardiovascular Society.

Professor Dame Jenny Harries



Professor Dame Jenny Harries is the first Chief Executive of the UK Health Security Agency - an executive agency of the Department of Health and Social Care established in October 2021. She leads the agency and is accountable for its strategy and operations, and the effective and efficient use of public funds, with a remit to protect the nation from external hazards to health.

After medical studies at Birmingham University, UK, she undertook specialist training in Public Health Medicine in Wales. She has wide experience of clinical and public health science and practice, as well as health service commissioning from work in the NHS and in local, regional, and national government. Having played central roles in the UK's response to several significant public health incidents - including Ebola, Zika, MERS and the Novichok attacks in Salisbury - she was appointed Deputy Chief



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Medical Officer for England in July 2019 and served through the Covid-19 pandemic until taking up her present role. She is currently overseeing the UK's response to monkeypox.

She has previously served on the UK's Joint Committee for Vaccination and Immunisation (JCVI), and the Expert Advisory Group on the NHS Constitution. Jenny has worked in policy, evaluation and clinical roles in many countries including Pakistan, Albania, India, Brazil and New Zealand.

In addition to a medical degree, she holds formal qualifications in pharmacology, business administration, health economics and strategic health service planning

Professor James Logan



James Logan is a Professor within the Department of Disease Control at the London School of Hygiene & Tropical Medicine (LSHTM) and investigates novel methods for detecting and controlling diseases. His research spans from discovery science through to implementation and includes the development of odour-based diagnostics, educational and behaviour change campaigns, as well as large scale intervention studies. Some recent work includes the development of electronic sensors and dogs to detect malaria and COVID-19, and a large-scale outreach campaign in Mali and Malawi to educate communities on malaria and COVID-19, with demonstrable behaviour change.

Professor Logan is also founder and CEO of Arctech Innovation, the first spin out company from LSHTM. Arctech Innovation aims to save lives and transform the public health landscape through the development, evaluation and commercialisation of data-driven, technology-based solutions which detect or protect against the world's deadliest diseases.

Professor Saidi (Sam) Mohiddin



Professor Saidi (Sam) Mohiddin. MBChB (Hons), FRCP, FESC, MD (res). Consultant Cardiologist in Inherited and Acquired Heart Muscle Disease and in Cardiac Magnetic Resonance Imaging, Barts Health NHS Trust.

Sam Mohiddin trained in Edinburgh, in the USA at the National Institutes of Health and in London. He completed his training in Cardiology in 2010 and is a Consultant and Honorary Professor at the Barts Heart Centre. Sam was lead author of the UK national training curriculum for Inherited Cardiac Conditions and has an active role in sub-specialty education.

His research interests include inflammatory (myocarditis) and inherited heart muscle diseases and in the use of Cardiac resonance imaging (Cardiac MRI) in the assessment of these & other conditions.

Professor Rick Mumford



Professor Rick Mumford is Deputy Chief Science Advisory (CSA) and Head of Science, Evidence & Research at the Food Standards Agency, where he leads a multi-disciplinary team of over 150 staff, providing expert risk assessment and scientific evidence to support UK food safety and standards. A virologist and molecular biologist by training, he has over 27 years' experience, as both a practising, applied scientist (focusing on diagnostics and biosecurity), and as a science leader, including senior roles up to executive level, within government and the private sector. An

author on over 75 scientific publications, Rick is a Visiting Professor of Practice at Newcastle University and Fellow of the Royal Society of Biology.

Professor Isabel Oliver



Professor Isabel Oliver is the interim Chief Scientific Officer for the new UK Health Security Agency (UKHSA). She is a medical epidemiologist who until recently was the Director, National Infection Service of Public Health England leading the specialist epidemiology teams and laboratories working to protect health from infectious diseases. Isabel is also co-director of the National Institute for Health Research Health Protection Research Unit on Behavioural Science and Evaluation at the University of Bristol.

After a few years of working in acute hospital medicine, Isabel developed an interest in public health and epidemiology. She completed the public health specialist training in 2004 and after 4 years working as a regional epidemiologist, took up the post of Regional Director of the Health Protection Agency in the South West, and in 2013 moved to Public Health England (PHE). Isabel led the Field Service of PHE with teams across England responsible for the surveillance, investigation and control of infectious diseases and the health effects from exposure to environmental hazards. Between 2019 and 2020 Isabel was Director of Research, Translation and Innovation in PHE.

Isabel is now leading the establishment of the new Chief Scientific Officer group in the UKHSA and the strategic vision for science and research in the new organisation with the aim of protecting health from infectious diseases and environmental hazards.

Dr Derren Ready



Derren is a Consultant Clinical Scientist in Public Health Infections at UK Health Security Agency - South West. Previous to this role he worked in the Respiratory and Systemic bacteria reference section at Colindale. His routine duties focus on public health microbiology diagnostic test interpretation, infection prevention control and outbreak management in community, institutional and health and Social Care settings. He completed a PhD at UCL investigating antibiotic and antimicrobial resistance in 2005 and since this time his research has focused on the isolation, identification and characterisation of pathogenic and non-pathogenic bacteria and viruses in patients during health and disease phases, the use of traditional and novel antimicrobial agents, bacterial biofilms, detection of antimicrobial resistance and

public health control measures. He has published 75 peer reviewed papers, 8 book chapters and 1 review, and supervised >40 Master level students and 4 PhD students.

Derren is a Fellow of the Royal College of Pathologists, Fellow of the Faculty of Public Health and Honorary Senior Lecturer (University of Bristol).

Professor Stuart Reid



Stuart is President and Principal of the Royal Veterinary College (RVC), London. An alumnus of the University of Glasgow, he became dean at his alma mater in 2005 before moving to the RVC in 2011. Stuart is recognised by the Royal College of Veterinary Surgeons (RCVS) as a specialist in veterinary epidemiology, and by the European Board of Veterinary Specialists in veterinary public health. He is a Fellow of the Royal Society of Biology and of the Royal Society of Edinburgh, Scotland's National Academy. His research interests are focused on

zoonotic disease and antimicrobial resistance in a One Health context. He has over 160 scientific publications, including in PNAS and Science, and he has secured over £16M in competitive funding during his career. He was appointed CBE in 2018 for services to the veterinary profession and higher education. In 2019 he was elected Fellow of the RCVS and an international member of the US National Academy of Medicine. In 2021, he was appointed Trustee of the Soulsby Foundation.

Dr Gee Yen Shin

Dr Gee Yin Shin is Director of Infection Prevention Control and consultant virologist at UCLH with interests in emerging infectious diseases, public health, global health and medical ethics.

Professor Jimmy Whitworth



Jimmy joined the RSTMH Board of Trustees in September 2019.

Jimmy qualified as a physician from Liverpool University in 1979, and specialises in infectious diseases, epidemiology and public health.

Previous roles include working in The Gambia for Save the Children Fund, and in Sierra Leone for the Medical Research Council. He was Team Leader for the Medical Research Council Programme on AIDS, based at the Uganda Virus Research Institute in Entebbe.

Jimmy has been an academic staff member at both the Liverpool School of Tropical Medicine and the London School of Hygiene & Tropical Medicine, where he was Professor of International Public Health from 1999-2004. Previously, Jimmy was Head of International Activities (2004-2013), and Population Health (2013-2015), at the Wellcome Trust where he was responsible for strategy, policy and developing the scientific portfolio for research on population science and public health research in the UK and in low- and middle-income countries.



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RSTMH Annual Meeting 2022

Topical issues in malaria and in resistance

11 - 12 October 2022 | Liverpool, UK

Our in-person Annual Meeting will bring together members, Fellows and supporters from around the world to share knowledge and encourage new collaborations.

- Learn from senior experts from across the globe, on a range of subjects around the theme of malaria resistance
- Hear the latest research and lessons from the field
- Attend mentoring sessions on key skills
- Attend networking sessions to meet colleagues in your field
- Feed into a panel developing ideas, views and evidence for RSTMH to take forward in the coming year
- The meeting will incorporate: Medals and Awards presentations for 2022; the RSTMH AGM; and the President's Address for our incoming President Mr Simon Bush



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