

4th World Sepsis Congress

One Global Health Threat: Sepsis, Pandemics, and Antimicrobial Resistance

A Free Online Congress
by the Global Sepsis Alliance

April 25 - 26, 2023

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#WorldSepsisCongress



Global
Sepsis
Alliance

Welcome to 4th World Sepsis Congress


These are extraordinary times for Global Health. In 2020, we were faced with the COVID-19 pandemic, which led to a tremendous number of lives lost and precipitated economic disasters globally. In 2021, through unprecedented cooperation in research efforts, vaccines and therapies became available at a scale and speed not previously seen. While the battle is not yet won in 2022, we are harnessing our knowledge and expertise to address the ongoing challenges of the pandemic and other causes of sepsis.

Yet, the COVID-19 pandemic is estimated to have claimed 6.7 million lives globally since the winter of 2019. Every year, sepsis, as the final pathway to death from most infectious diseases, worldwide, claims an estimated 11 million lives. This quantum will only increase as our population grows, and as the world comes to realize that antimicrobial resistance is here today, rather than being a perceived future threat.

On April 25 - 26, 2023, the Global Sepsis Alliance will host the 4th World Sepsis Congress, titled "One Global Health Threat: Sepsis, Pandemics, and Antimicrobial Resistance". As before, this Congress will be easily accessible online and free of charge, to promote as inclusive an opportunity for education and participation as possible. Sessions will be live-streamed and made available after the event for those unable to access them in real time. The focus of the Congress will be to highlight the intimate interrelationships between sepsis, pandemics, and antimicrobial resistance.

Over the two-day period, the Congress will engage with thought leaders in discussions on the impacts of the present global health threats and strategies to address them. We will discuss important regional initiatives that are advancing care in low- and middle-income countries, institutionally driven approaches harnessing the power of multidisciplinary teams, and impactful clinical, bench, and industry-driven research. We will also discuss successful awareness and advocacy campaigns at all levels that increase knowledge and awareness, and influence policy. This exciting program will be of interest to medical professionals, patients and families, industry, and policymakers alike.

As program chairs, we cordially invite you to join us for this free online congress at worldsepsiscongress.org on April 25 - 26, 2023.



Niranjan 'Tex' Kissoon
Program Chair
President of the GSA
Canada



Imrana Malik
Program Chair
Executive Committee of the GSA
United States of America

Scientific Committee: Abdulelah Alhawsawi, Maha Aljuaid, Gabriella Bottari, Sorayah Bourenane, Erin Carlton, Ron Daniels, Janet Diaz, Oguz Dursun, Linette Engelbrecht, Detlev Ganten, Evangelos J. Giamarellos-Bourboulis, Luis Antonio Gorordo Del Sol, Niranjan 'Tex' Kissoon, Flavia Machado, Imrana Malik, Odiraa Nwankwor, Konrad Reinhart, Gloria Rodríguez Vega, Jamie Rylance, Padmini Srikantiah

Project Manager: Marvin Zick

Visuals: Katja Couball

Welcome Address

Globally, one person dies of sepsis roughly every three seconds - amounting to around 11 million people per year. Up to three-quarters of its survivors suffer from long-term effects. Particularly affected are people from lower-income countries. This situation must prompt us into action. Above all, the majority of deaths due to sepsis is preventable. Prevention and early detection can save lives. The 4th World Sepsis Congress, whose patronage I have gladly taken on, conveys this important message.

Also in Germany, over 230,000 people develop sepsis every year and at least 85,000 of these do not survive. This makes sepsis the third-most frequent cause of death in Germany. With our "Germany recognizes sepsis" campaign, we aim to increase awareness of the symptoms of sepsis. The question of "Might it be sepsis?" should always spring to mind - both among the general population and among medical staff. After all, this question can save lives.

On my initiative, during the past year, the fight against sepsis was also addressed by the G7 Health Ministers and included in a joint statement: We want to give the implementation of the WHO Resolution of 2017 a significant boost. Together, we must all get our national and global health policies to focus even more on the fight against sepsis.

Stop Sepsis, Save Lives - the motto of the Global Sepsis Alliance is a mandate for us all. Let us fight for this together! I would like to thank all those involved for their efforts to better prevent, identify and treat sepsis, and wish you all a successful and insightful congress!



BMG/Thomas Ecke

A handwritten signature in blue ink, appearing to read 'K. Lauterbach', written in a cursive style.

Prof. Dr. Karl Lauterbach
Federal Minister
Member of the German Parliament

Tuesday - April 25, 2023

Wednesday - April 26, 2023

<p>Session 1: <i>Opening Session</i></p> <p>Key Success Factors to Address Global Health Threats</p> <p>14:00h Berlin Time</p>	<p>Session 2:</p> <p>The Health Economic and Human Burden of Infections and Pandemics</p> <p>15:30h Berlin Time</p>	<p>Session 3:</p> <p>Overcoming Silos to Address Infection-Related Global Health Threats</p> <p>17:00h Berlin Time</p>	<p>Session 4:</p> <p>The Quality of Healthcare Systems and QI Efforts on Outcomes from Sepsis and Pandemics</p> <p>18:30h Berlin Time</p>
<p>Session 5:</p> <p>Advances and Challenges by Our Regional Sepsis Alliances</p> <p>20:00h Berlin Time</p>	<p>Session 6:</p> <p>Advances in Timely Pathogen and Sepsis Detection</p> <p>21:30h Berlin Time</p>		
<p>Session 7:</p> <p>The Benefits of Multidisciplinary Teams in Sepsis Care on the Health Care Facility Level</p> <p>9:00h Berlin Time</p>	<p>Session 8:</p> <p>The Potential and Challenges to Intervene with the Immune Response</p> <p>10:30h Berlin Time</p>		
<p>Session 11:</p> <p>Understanding and Improving Long-term Outcomes after Sepsis and COVID-19</p> <p>15:00h Berlin Time</p>	<p>Session 12:</p> <p>Neonatal Sepsis Platforms and Guidelines</p> <p>16:30h Berlin Time</p>	<p>Session 13:</p> <p>The Impact of Survivors and Family Members to Improve Sepsis Awareness and Advocacy</p> <p>18:00h Berlin Time</p>	<p>Session 14:</p> <p>Maternal Sepsis: Why Is It Still in the Top 3 for Global Incidence of Sepsis?</p> <p>19:30h Berlin Time</p>
<p>Session 15:</p> <p>Harnessing the Media to Advance the Global Fight Against Sepsis</p> <p>21:00h Berlin Time</p>	<p>Session 16:</p> <p>An Update on Research on Sepsis</p> <p>22:30h Berlin Time</p>		

Panel

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S1: Opening Session – Key Success Factors to Address Global Health Threats

<p>Tuesday, April 25</p> <p>14:00h Berlin Time (click to see your local time zone)</p>	<p>Moderator: <i>Ron Daniels, Global Sepsis Alliance, United Kingdom</i></p> <p>Opening Remarks: <i>Niranjan 'Tex' Kissoon, Program Chair & President GSA, Canada</i></p>
<p>14:00h Berlin</p>	<p>Greetings</p> <ul style="list-style-type: none"> <i>Tedros Adhanmon Ghebreyesus, Director-General WHO, Switzerland</i> <i>Veronika von Messling, Federal Ministry of Education and Research, Germany</i>
<p>14:10h Berlin</p>	<p>Sepsis and the Achievement of the Sustainable Development Goals 2030 <i>Achim Steiner, Administrator United Nations Development Program, United States of America</i></p>
<p>14:15h Berlin</p>	<p>Key Success Factors in the Fight Against AIDS/HIV <i>John Nkengasong, United States Global AIDS Coordinator, Cameroon</i></p>
<p>14:30h Berlin</p>	<p>Key Lessons Learned to Get Sepsis on the International Agenda <i>Konrad Reinhart, Global Sepsis Alliance, Germany</i></p>
<p>14:45h Berlin</p>	<p>Key Success Factors in the Fight Against Climate Change <i>Anders Levermann, Potsdam Institute for Climate Impact Research, Germany</i></p>
<p>15:00h Berlin</p>	<p>The Potential of the G7 and G20 Partners to Fight Global Health Threats <i>Alan Donnelly, The G20 Health & Development Partnership, United Kingdom</i></p>
<p>15:15h Berlin</p>	<p>The Role of Public Health to Fight Global Health Threats <i>Beate Kampmann, Charité University Hospital, Germany</i></p>

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S2: The Health Economic and Human Burden of Infections and Pandemics

Tuesday, April 25 15:30h Berlin Time <small>(click to see your local time zone)</small>	Moderator: <i>Keith Martin, Consortium of Universities for Global Health, United States of America</i>
15:30h Berlin	The Global Burden of Sepsis and Infection-Related Long-Term Consequences <i>Carolin Fleischmann-Struzek, Jena University Hospital, Germany</i>
15:45h Berlin	Accelerating Progress Towards Universal Health Coverage in South Asia in the Era of Covid-19 <i>Syed Masud Ahmed, BRAC University, Bangladesh</i>
16:00h Berlin	The Health and Economic Burden of Sepsis <i>Tim Buchman, Emory University School of Medicine, United States of America</i>
16:15h Berlin	Universal Health Coverage for Sustainable Development <i>Roy Small, United Nations Development Programme, United States of America</i>
16:30h Berlin	How Universal Health Coverage Can Climb Up the Political Agenda <i>Rob Yates, Chatham House, United Kingdom</i>

S3: Overcoming Silos to Address Infection-Related Global Health Threats

Tuesday, April 25 17:00h Berlin Time <small>(click to see your local time zone)</small>	Moderator: <i>Brenda Morrow, University of Cape Town, South Africa</i>
17:00h Berlin	Breaking the Silos, Stopping the Spread <i>Jyoti Joshi, International Centre for Antimicrobial Resistance Solutions, Denmark</i>
17:03h Berlin	Newborn and Child Health in Low- and Middle-Income Countries Is Critically Dependent Upon Cross-Sector Working <i>Mike English, Nuffield Department of Medicine, Oxford University, Kenya</i>
17:06h Berlin	Working in Silos Does Not Work for Outbreak Responses <i>Ximena Garzón-Villalba, University San Francisco de Quito, Ecuador</i>
17:09h Berlin	Breaking the Silos - Improving Global Health Through Cross-Sectoral Action <i>Catherine Machalaba, EcoHealth Alliance, United States of America</i>

S3: Overcoming Silos to Address Infection-Related Global Health Threats

17:12h Berlin	Why Silos Are Killing People in Low- and Middle-Income Countries <i>Shevin Jacob, Liverpool School of Tropical Medicine, Uganda</i>
17:15h Berlin	Discussion by the Panelists

S4: The Quality of Healthcare Systems and QI Efforts on Outcomes from Sepsis and Pandemics

Tuesday, April 25	
18:30h Berlin Time <small>(click to see your local time zone)</small>	Moderator: <i>Gloria Rodríguez-Vega, University of Puerto Rico, Puerto Rico</i>
18:30h Berlin	Keynote: How Can We Define "Quality" in Healthcare? <i>Pierre Barker, Institute for Healthcare Improvement, United States of America</i>
18:45h Berlin	Sepsis and Inequalities <i>Flavia Machado, Latin American Sepsis Institute, Brazil</i>
19:00h Berlin	Rapid Response Teams and In-Hospital Sepsis <i>Daryl Jones, Austin Health, Australia</i>
19:15h Berlin	The Role of Sepsis Mandates <i>Laura Evans, University of Washington, United States of America</i>
19:30h Berlin	The Role of Emergency Medicine and Digitalization <i>Joseph Bonney, African Federation for Emergency Medicine, Ghana</i>

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S5: Advances and Challenges by Our Regional Sepsis Alliances

Tuesday, April 25

20:00h Berlin Time
(click to see your local time zone)

Moderator:

Ulrika Knutsson, European Sepsis Alliance, Sweden

20:00h Berlin

Increasing Sepsis Recognition in Africa via Advocacy
Emmanuel Nsutebu, African Sepsis Alliance, United Arab Emirates

20:15h Berlin

Fostering Quality Improvement in Sepsis Management in Africa via Research
Shevin Jacob, African Sepsis Alliance, Uganda

20:30h Berlin

Responding to the Burden of Sepsis Across the Asia Pacific Through Regional Advocacy, Education, and Support for Low-Resource Settings
Madiha Hashmi, Asia Pacific Sepsis Alliance, Pakistan

20:45h Berlin

Progress and Challenges in Placing Sepsis on the European Agenda
Evangelos J. Giamarellos-Bourboulis, European Sepsis Alliance, Greece

21:00h Berlin

The Progress in the Fight Against Sepsis in Latin America
Daniela Souza, Latin American Sepsis Institute, Brazil

21:15h Berlin

Sepsis Quality Improvement in Qatar: An Experience From the Eastern Mediterranean Region
Rasha Ashour, Eastern Mediterranean Sepsis Alliance, Qatar

S6: Advances in Timely Pathogen and Sepsis Detection

Tuesday, April 25

21:30h Berlin Time
(click to see your local time zone)

Moderator:

Cheikh Tidiane Diagne, Institut Pasteur, Senegal

21:30h Berlin

A Need for Early Diagnosis - Taking the Patient Experience into Consideration
Amy Campbell, ECU Health, United States of America

21:45h Berlin

Health Inequities as a Barrier to the Timely Diagnosis of Sepsis
Elisa Estenssoro, Hospital Interzonal San Martin de La Plata, Argentina

22:00h Berlin

Current Research on Sepsis Biomarkers and Early Diagnosis
François Ventura, University Hospitals of Geneva, Switzerland

S6: Advances in Timely Pathogen and Sepsis Detection

22:15h Berlin	Is Sequencing Useful to Detect Sepsis? A Tour of Metagenomics and Transcriptomics for Timely Infection Diagnosis <i>Miriam Huntley, Day Zero Diagnostics, United States of America</i>
22:30h Berlin	Sepsis Diagnosis: A Paradigm Shift Towards Biosensing <i>Tan Toh Leong, University Kebangsaan Malaysia, Malaysia</i>
22:45h Berlin	An Interpretable Machine Learning Model for Accurate Prediction of Sepsis in the ICU <i>Rishi Kamaleswaran, Emory University, United States of America</i>

S7: The Benefits of Multidisciplinary Teams in Sepsis Care on the Health Care Facility Level

Wednesday, April 26 9:00h Berlin Time <small>(click to see your local time zone)</small>	Moderator: <i>Karn Cliffe, Dublin Midlands Hospital Group, Ireland</i>
9:00h Berlin	Impact of Sepsis Multidisciplinary Team Care on Patients Outcomes <i>Yaseen Arabi, Ministry of National Guard Health Affairs, Saudi Arabia</i>
9:03h Berlin	Initiation of Antimicrobial Stewardship in Resource-Constrained Environments: A Multidisciplinary Approach <i>Mirfin Mpundu, Director of ReAct Africa, Zambia</i>
9:06h Berlin	Sepsis Nurse - A Voice to Lead and Transform Care <i>Amanda Harley, Children's Health Queensland, Australia</i>
9:09h Berlin	Family-Centered Care and Integration of Care Bundles <i>Kawaldip Sehmi, International Alliance of Patients' Organization, United Kingdom</i>
9:12h Berlin	Early Rehabilitation in Sepsis: Journey to Return Activities and Functional Independence <i>Mohammed Alatwi, King Fahad Medical City, Saudi Arabia</i>
9:15h Berlin	Discussion by the Panelists

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S8: The Potential and Challenges to Intervene with the Immune Response

**Wednesday,
April 26**

10:30h Berlin Time
(click to see your local time zone)

Moderator:

Nathan Nielsen, Global Sepsis Alliance, United States of America

10:30h Berlin

The Impact of the Pathogen and the Host Response on Survival
Jennifer Muszynski, Nationwide Children's, United States of America

10:45h Berlin

Sepsis Immune Endotypes
Mihai Netea, Radboud UMC, The Netherlands

11:00h Berlin

The Effect of Risk Stratification and Timing of Host-Directed Therapy
Evangelos J. Giamarellos-Bourboulis, European Sepsis Alliance, Greece

11:15h Berlin

The Pros of Platform Trials
Eirini Christaki, University of Ioannina, Greece

11:30h Berlin

The Cons of Platform Trials
Niels Riedemann, CEO InflaRx, Germany

S9: Biomarkers and Antimicrobial Stewardship - The Synergies to Diagnose Sepsis and to Prevent AMR

**Wednesday,
April 26**

12:00h Berlin Time
(click to see your local time zone)

Moderator:

Louise Thwaites, Global Sepsis Alliance, Vietnam

12:00h Berlin

The Key Drivers of Antimicrobial Resistance
Silvia Bertagnolio, World Health Organization, Switzerland

12:15h Berlin

The Potential and Barriers to Antibiotic Stewardship
Ron Daniels, Infection Management Coalition, United Kingdom

12:30h Berlin

The Potential of Biomarkers for Antimicrobials - Use and Diagnosis
Evdoxia Kyriazopoulou, National and Kapodistrian University of Athens, Greece

S9: Biomarkers and Antimicrobial Stewardship - The Synergies to Diagnose Sepsis and to Prevent AMR

12:45h Berlin

The Role of Biomarkers for Risk Stratification
Peter Pickkers, Radboud UMC, The Netherlands

13:00h Berlin

The Evidence for the Role of Transcriptional Diagnostics
Tom van der Poll, Amsterdam UMC, The Netherlands

S10: Lessons from the Pandemic to Fight Common Infections and Sepsis

**Wednesday,
April 26**

13:30h Berlin Time
(click to see your local time zone)

Moderator:

Detlev Ganten, Charité University Hospital, Germany

13:30h Berlin

Learnings to Leverage the Fight Sepsis from an Integrated Health Service Perspective
Benedetta Allegranzi, World Health Organization, Switzerland

13:33h Berlin

Preparing the EU to Manage Infections and Cross-Border Health Threats More Effectively
Velina Pendolovska, Directorate-General for Health and Food Safety, European Commission, Luxembourg

13:36h Berlin

Lessons for Fighting Infections and Sepsis in Resource-Limited Settings
John Adabie Appiah, African Sepsis Alliance, Ghana

13:39h Berlin

The Perspective of a Bedside Intensivist and the Potential of Telemedicine for Non-Covid Sepsis
Wiltrud Abels, Sepsis Stiftung, Germany

13:42h Berlin

Learnings by a Caregiver and Researcher in Vietnam
Louise Thwaites, Asia Pacific Sepsis Alliance, Vietnam

13:45h Berlin

Lessons for Clinical Research and Intensive Care Medicine
John Marshall, Unity Health, Canada

13:48h Berlin

Discussion by the Panelists

S11: Understanding and Improving Long-term Outcomes After Sepsis and COVID-19

Wednesday, April 26 15:00h Berlin Time <small>(click to see your local time zone)</small>	Moderator: <i>Imrana Malik, Global Sepsis Alliance, United States of America</i>
15:00h Berlin	The Burden of Long-term Consequences of Sepsis and COVID-19 <i>Jamie Rylance, World Health Organization, Switzerland</i>
15:15h Berlin	What Is Known on the Pathogenesis of Long-Term Sequelae by Infections and Sepsis? <i>Joost Wiersinga, Amsterdam UMC, The Netherlands</i>
15:30h Berlin	Toward Tailored Care for Sepsis Survivors <i>Erin Carlton, University of Michigan, United States of America</i>
15:45h Berlin	How Can We Mitigate Post-Sepsis and Post-COVID-Morbidity? <i>Hallie Prescott, University of Michigan, United States of America</i>
16:00h Berlin	Translating Post-Sepsis Care to Post-COVID-19 Care - The Role of Healthcare Systems <i>Stephanie Taylor, University of Michigan, United States of America</i>

S12: Neonatal Sepsis Platforms and Guidelines

Wednesday, April 26 16:30h Berlin Time <small>(click to see your local time zone)</small>	Moderator: <i>Odiraa Nwankwor, Sidney Kimmel Medical College, United States of America</i>
16:30h Berlin	Disproportionate Burden of AMR Excess Deaths Experienced by Neonates in Low- and Middle-Income Countries <i>Ramanan Laxminarayan, University of Washington, United States of America</i>
16:45h Berlin	Incidence and Burden of Neonatal Sepsis in South Africa <i>Vanessa Quan, National Institute for Communicable Diseases, South Africa</i>
17:00h Berlin	Neonatal Sepsis and Treatment Challenges in India <i>Jeeva Sankar, All India Institute Of Medical Sciences, India</i>

S12: Neonatal Sepsis Platforms and Guidelines

17:15h Berlin

Invasive Bloodstream Infections and AMR in Africa: Approaches to Treatment and Next Steps

Uduak Okomo, MRC Unit, The Gambia

17:30h Berlin

Next Steps for NeoSep

Julia Bielicki, St George's University of London, United Kingdom

S13: The Impact of Survivors and Family Members to Improve Sepsis Awareness and Advocacy

**Wednesday,
April 26**

18:00h Berlin Time

(click to see your local time zone)

Moderator:

Michael Clarke, European Sepsis Alliance, Belgium

Panel Discussion

Participants:

Ciarán Staunton, End Sepsis, United States of America

Melissa Mead, UK Sepsis Trust, United Kingdom

Ken Rothfield, Texas Health, United States of America

Luis Antonio Gorordo Del Sol, Sepsis Mexico, Mexico

Doireann O'Mahony, Irish Sepsis Foundation, Ireland

Mary Steele, Sepsis Australia Consumer Advocacy Group &

Queensland Paediatric Sepsis Program, Australia

S14: Maternal Sepsis: Why Is It Still in the Top 3 for Global Incidence of Sepsis?

**Wednesday,
April 26**

19:30h Berlin Time

(click to see your local time zone)

Moderator:

Mercedes Bonet, World Health Organization, Switzerland

19:30h Berlin

An Epidemiology-Based Assessment of the Problem

Alan Tita, University of Alabama at Birmingham, United States of America

19:33h Berlin

Sharing the Story

Video

19:36h Berlin

Sepsis Awareness and the Importance of Advocacy - Perspective of a Midwife and Sepsis Survivor

Helen Cheyne, University of Stirling, United Kingdom

S14: Maternal Sepsis: Why Is It Still in the Top 3 for Global Incidence of Sepsis?

19:39h Berlin	Early Detection and Management - What Does It Mean for Maternal Sepsis? <i>Maria Fernanda Escobar Vidarte, The International Federation of Gynecology and Obstetrics, Colombia</i>
19:42h Berlin	Can Changing the Health System's Approach Improve Maternal Sepsis Outcomes in Argentina and Beyond? <i>Edgardo Abalos, Independent Researcher, Argentina</i>
19:45h Berlin	Can Changing the Health System's Approach Improve Maternal Sepsis Outcomes in the Lebanon and Beyond? <i>Sabina Abou Malham, Université de Sherbrooke, Canada</i>
19:48h Berlin	Discussion by the Panelists
20:40h Berlin	The Perspective of the World Health Organization <i>Benedetta Allegranzi, World Health Organization, Switzerland</i>

S15: Harnessing the Media to Advance the Global Fight Against Sepsis

Wednesday, April 26 21:00h Berlin Time <small>(click to see your local time zone)</small>	Moderator: <i>Lord Michael Grade, House of Lords, United Kingdom</i>
21:00h Berlin	Healthcare in the Media: The Good, The Bad, and The Ugly <i>Katelyn Jetelina, Your Local Epidemiologist, United States of America</i>
21:03h Berlin	How to Target Specific Audiences for Improved Medical Messaging About Sepsis <i>Joachim Mueller-Jung, Science editor-in-chief, Frankfurter Allgemeine Zeitung, Germany</i>
21:06h Berlin	Effective Strategies for Better Medical Messaging in Media: Asia-Pacific <i>Naoyuki Matsuda, Global Sepsis Alliance, Japan</i>
21:09h Berlin	Effective Strategies for Better Medical Messaging in Media: Sub-Saharan Africa <i>Pedmia Shatu Tita, Global Initiative for Digital Inclusion and Communication, Cameroon</i>

S15: Harnessing the Media to Advance the Global Fight Against Sepsis

21:12h Berlin	What Is the Role of the Journalist in Amplifying Positive Medical Messaging? <i>Immaculate Forgwe, National Polytechnic Bamenda, Cameroon</i>
21:15h Berlin	Discussion by the Panelists

S16: An Update on Research on Sepsis

Wednesday, April 26 22:30h Berlin Time <small>(click to see your local time zone)</small>	Moderator: <i>Flavia Machado, Latin American Sepsis Institute, Brazil</i>
22:30h Berlin	Why Criteria for Diagnosing Pediatric Sepsis and the Social Determinants of Health Matter <i>Kusum Menon, University of Ottawa, Canada</i>
22:45h Berlin	Impact of Time to Source Control on Sepsis Mortality <i>Katherine Reitz, University of Pittsburgh Medical Center, United States of America</i>
23:00h Berlin	Does Rapid Sepsis Treatment Increase the Risk of Antimicrobial Resistance? <i>Hallie Prescott, University of Michigan, United States of America</i>
23:15h Berlin	Intravenous Vitamin C in Sepsis: the LOVIT Study <i>François Lamontagne, Université de Sherbrooke, Canada</i>
23:30h Berlin	Balanced Crystalloids or Saline for Sepsis? <i>Naomi Hammond, The George Institute for Global Health, Australia</i>
23:45h Berlin	Restrictive or Liberal Fluid in Sepsis: the CLOVERS Study <i>Ivor Douglas, Denver Health, United States of America</i>
23:59h Berlin	Closing Remarks <i>Imrana Malik, Program Chair & GSA Executive Member, United States of America</i>

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