



THE UNIVERSITY OF BRITISH COLUMBIA

Action on Sepsis Research Excellence Cluster

ACTION ON SEPSIS

THROUGH COLLABORATION AND INNOVATION WE WILL CONQUER SEPSIS



News from the Community

Last month, a task force convened by the Society for Critical Care Medicine released **updated criteria for pediatric sepsis and septic shock**. Read about their development and validation [here](#) and [here](#).

The Surviving Sepsis Campaign Research Committee has also published their **latest research priorities** in the management, epidemiology, outcome, and pathophysiology of sepsis and septic shock.

A new [online public engagement platform](#) is now available for **Canada's Strategy for Patient-Oriented Research (SPOR)** until March 31, 2024. Share your feedback on how to improve patient-oriented research in Canada.

Action on Sepsis has launched a **Justice, Equity, Diversity, and Inclusion (JEDI) Subcommittee**. We invite you to complete the anonymous and confidential [JEDI Baseline Needs Assessment Survey](#) (~5 minutes) to help inform this subcommittee's directions and activities.

Updates from our Members

Dr Andy An authored a blog post for UBC's Centre for Blood Research discussing research led by the Hancock Lab on COVID-19 and sepsis. These studies demonstrated that patients with severe COVID-19 and sepsis had shared immune dysfunction and gene expression similarities and indicated that COVID-19 is a form of viral sepsis.



#ICYMI: Our December publication spotlight focused on a study led by undergraduate student **Ahmad Asdo**, part of Dr Mark Ansermino's team. This study evaluated the repeatability of pulse oximetry spot check measurements in children triaged at two hospitals in Uganda. Read the summary here: [New Study Provides Critical Insights into Effective Practices for Taking More Accurate Spot Check Pulse Oximetry Measurements.](#)

Recent Publications from Our Members

Mohammed Y, Tran K, Carlsten C, Ryerson C, Wong A, Lee T, Cheng MP, Vinh DC, Lee TC, Winston BW, Sweet D, Boyd JH, Walley KR, Haljan G, McGeer A, Lamontagne F, Fowler R, Maslove D, Singer J, Patrick DM, Marshall JC, Murthy S, Jain F, Borchers CH, Goodlett DR, Levin A, Russell JA; ARBs CORONA I Consortium. Proteomic Evolution from Acute to Post-COVID-19 Conditions. *J Proteome Res.* 2024 Jan 5;23(1):52-70.

Silverberg SL, Shulha HP, McMillan B, He G, Lee A, Márquez AC, Bartlett SR, Gill V, Abu-Raya B, Bettinger JA, Cabrera A, Coombs D, Gantt S, Goldfarb DM, Sauvé L, Kraiden M, Morshed M, Sekirov I, Jassem AN, Sadarangani M. Factors associated with SARS-CoV-2 infection in unvaccinated children and young adults. *BMC Infect Dis.* 2024 Jan 15;24(1):91

Knappett M, Nguyen V, Chaudhry M, Trawin J, Kabakyenga J, Kumbakumba E, Jacob ST, Ansermino JM, Kisson N, Mugisha NK, Wiens MO. Pediatric post-discharge mortality in resource-poor countries: a systematic review and meta-analysis. *EClinicalMedicine.* 2023 Dec 21;67:102380.

Akinseye O, Popescu CR, Chiume-Kayuni M, Irvine MA, Lufesi N, Mvalo T, Kissoon N, Wiens MO, Lavoie PM. World Health Organization Danger Signs to predict bacterial sepsis in young infants: A pragmatic cohort study. *PLOS Glob Public Health*. 2023 Nov 21;3(11):e0001990

Trainee Spotlight — Meet Sahar Zandi Nia

Sahar is a MSc student supervised by Dr Matthew Wiens and a recipient of the BC Children's Hospital Research Institute (BCCHR) Masters Studentship. Sahar's research focuses on validating prediction models for identifying children at the highest risk of in-hospital death at health facilities in low-resource settings. She aims to understand the applicability of these models in diverse settings, determine optimal thresholds for risk assessment, and promote the adoption of these models in clinical practice. Ultimately, her work aims to expedite treatment, save lives, and enhance the efficiency of care delivery for vulnerable children globally.

Sahar is also a trainee member of our new Justice, Equity, Diversity, and Inclusion (JEDI) Subcommittee.



[View Sahar's profile on our website.](#)

Events on the Radar

Digital Health Research Series
Presented by BCCHR and WHRI

**Power of AI in Healthcare -
Human Factors and Safety**

Thursday, March 21st, 2024
12:00 -1:00 pm, PST



[HTTPS://SHORTURL.AT/RFGW8](https://shorturl.at/rfgw8)



Dr. Elizabeth Borycki,
RN PhD FACMI, FCAHS, FIAHSI

Professor, School of Health
Information Science;
Director, Global Laboratory
Digital Health Innovation,
University of Victoria



Dr. Andre Kushniruk,
PhD

Professor and Director, School
of Health Information Science,
University of Victoria



Attend this seminar to understand the current landscape of AI and its benefits in healthcare, gain insights into human factors in AI integration, identify best practices, and encourage further research.

[Learn More & Register Here](#)



**SEPSIS
ALLIANCE**

Sepsis Alliance AMR Conference
April 10 - 11, 2024
AMRConference.org

Hosted by Sepsis Alliance, this virtual AMR conference offers the opportunity to learn a 'One Health' approach to fight AMR, explore the areas of maternal and pediatric AMR, AMR in ambulatory and outpatient settings, and the role of Sepsis Teams in AMR.

[Learn More & Register Here](#)

World Sepsis Congress Spotlight: Unmet Need in Sepsis Diagnosis and Therapy

April 23, 2024

wscspotlight.org
#WCSpotlight



Global
Sepsis
Alliance



Save the date for the next World Sepsis Congress, organized by the Global Sepsis Alliance. This free, virtual event will feature >40 international experts in sepsis care and research.

[Learn More](#)

Highlights of Past Events



**Global
Sepsis
Alliance**

Lessons from the COVID-19 Pandemic | November 27, 2023

This event was hosted by Charité – Universitätsmedizin Berlin, Berliner Medizinische Gesellschaft, the Global Sepsis Alliance, Sepsis Stiftung, Virchow Foundation for Global Health, and the World Health Summit. It featured a keynote lecture from Dr. Uzma Syed, a presentation from Prof. Konrad Reinhart, as well as a panel discussion on "Key Lessons on Pandemic Preparedness and Response to Non-Covid Sepsis," featuring Global Sepsis Alliance's new Designated CEO, Dr. Mariam Jashi.

[Watch the Recording Here](#)

REVOLUTIONIZING CLINICAL RESEARCH: EXPLORING OPEN DATA INITIATIVES FOR INNOVATION AND IMPACT



What's the Fuss about Artificial Intelligence (AI)?

Leo Anthony Celi
Principal Research Scientist, Massachusetts Institute of Technology
Associate Professor of Medicine, Harvard Medical School
Editor-in-chief, PLOS Digital Health



SATI-Q Program : 20 Years of History in Quality Benchmarking, Evolution and Future Perspectives

María del Pilar Arias López
Pediatric Intensivist-Researcher Hospital de Niños Ricardo Gutiérrez
Coordinator, Quality Benchmarking Program (SATI-Q), Argentine
Society of Intensive Care (SATI)

An Open Data Webinar

Hosted by the Pediatric Sepsis
Data CoLab



29 January 2024
8:00 - 9:00 AM PST

Register Now!



Organized by the **Pediatric Sepsis CoLab**, this webinar featured presentations by Dr Leo Anthony Celi and Dr Ariel Leonardo Fernandez. Dr Celi spoke about the potential dangers and limitations of AI in clinical use, and paths towards more appropriate clinical use of AI. Dr Fernandez discussed the history, progress, and future trajectories of the Quality Benchmarking Program of the Argentine Society of Intensive Care (SATI-Q), a longitudinal, multicentre initiative first launched in 2004.

[Watch the Recording Here](#)

Funding Opportunities

17th JPIAMR Transnational Call for Research Projects

LOI Due: March 14, 2024

Full Application Due: July 9, 2024

Funding Amount: CAD \$600,000



Joint Programming Initiative
on Antimicrobial Resistance

For research projects that address one of the following objectives:

- Design novel or improved interventions to prevent, mitigate and /or treat fungal infections, which are resistant to treatments and/or are at risk of developing resistance.
- Improve and/or compare and/or evaluate strategies, technologies, treatments, methods, protocols or data collection based on existing interventions, aiming to prevent or reduce the emergence or spread of antibacterial or antifungal resistance or to treat/cure infections caused by resistant bacteria/fungi and recommend new policies.

Details [here](#).

Rural Global Health Partnership Initiative

Application Due: April 30, 2024

Funding Amount: CAD 10,000



For projects led by a physician practicing rural medicine in BC and a demonstrated interest in global health; or a medical trainee (resident or medical student) with a demonstrated commitment to practicing rural medicine and interest in global health. The applicant partner(s) may be based in rural underserved communities in BC, other parts of Canada, or internationally.

Projects should create opportunities to foster reciprocal learning in diverse health systems and community contexts that can lead to innovative solutions to healthcare challenges and improved health outcomes, especially for underserved, marginalized, and Indigenous populations. Details [here](#).

Convening & Collaborating (C2) and Reach Programs

Application Due: TBD, Competition opens April 2024

Funding Amount: CAD \$15,000



Facilitates knowledge exchange and meaningful collaboration by supporting researchers, trainees and research users in co-developing research (C2 Award) or disseminating research evidence (Reach Award) that can have direct impacts on people, including patients, health practitioners and policymakers. Details for the C2 Award [here](#) and the Reach Award [here](#).

Action on Sepsis is based in the traditional, ancestral, and unceded territory of the Coast Salish Peoples – SK̓WX̓WÚ7MESH (Squamish), STÓ:LŌ and SƏ́LÍLWƏTÁʔ/SELILWITULH (Tsleilm-Waututh) and XʷMƏΘKʷƏYƏM (Musqueam) Nations. We also invite everyone to reflect on the land they currently work and live on.

Action on Sepsis
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