

## 8th Seattle Children's and Microsoft SIDS Research Summit – March 26-27, 2025

Day One: Wednesday, March 26th		
<b>8:30 - 9:00</b>	<b>Breakfast</b>	
9:00 – 9:10	Welcome to the SIDS Summit! Introduction and Overview	John Kahan, President of Aaron Matthew SIDS Research Guild of Seattle Children's
9:10 – 9:20	AI for Good	Juan Lavista, Corporate Vice President and Chief Data Scientist, AI for Good Research Lab, Microsoft
9:20 – 9:30	Integrated approach to SIDS research	Jan-Marino (Nino) Ramirez, PhD, Director, Norcliffe Foundation Center for Integrative Brain Research (CIBR) at Seattle Children's Research Institute
<b>Session 1: Infant Mortality (Session Chair: Marta Cohen)</b>		
9:30 – 9:50	COVID-19 pandemic-era changes in sudden unexpected infant death	Darren Tanner, PhD, AI for Good Research Lab, Microsoft
9:50 – 10:10	The Status of CDR in the US	Abby Collier, MS, National Center for Fatality Review & Prevention
<b>10:10 – 10:20</b>	<b>Break</b>	
10:20 – 10:40	The 8-week window. New insights for protecting babies from SIDS	Ricardo Erazo-Toscano, PhD, Seattle Children's Research Institute
10:40 – 11:00	Immunisation and Sudden Unexpected Infant Death	Ed Mitchell, DSc, University of Auckland
11:00 – 11:20	Preconception Health and Health-Related Behavior	Barbara M. Ostfeld, PhD, Department of Pediatrics Program Director, SIDS Center of New Jersey, Rutgers Medical School
11:20 – 11:40	Moving the Needle in the Northwest	Liz Montgomery, Northwest Infant Survival & SIDS Alliance, USA
11:40 – 12:00	A Historical Perspective of SIDS/SUID Deaths in African American Infants	LaRhonda Osborn, Child Mortality Prevention Coordinator, Tacoma-Pierce County Health Dept.
<b>12:00 – 13:00</b>	<b>Lunch</b>	
<b>Session 2: Promoting Safe Infant Care Awareness (Session Chair: Ed Mitchell)</b>		
13:00 – 13:20	Biomechanical Innovations for Understanding Infant Respiration	Erin Mannen, Assistant Professor of Mechanical & Biomedical Engineering, Boise State University
13:20 – 13:40	1. Reducing the risk of sudden infant death: addressing asylum challenges in safe maternal and infant care practices 2. Cultural values, customs, traditions and beliefs influence child care practices which can affect the risk of sudden infant death syndrome (SIDS)	Shereen Hamadneh, PhD, AABU University, Jordan
13:40 – 14:00	Sound Sleep, Safe Sleep: A Way to Improve Safe Sleep Adherence?	Rachel Moon, MD, University of Virginia School of Medicine
14:00 – 14:20	ACES Approach to Education as Seen in Our Safe or Not Safe Photo Module	Devon George, MSN, RN, Chief Program Officer, Cribs for Kids
14:20 – 14:40	Changing the Narrative of Safe Sleep and Breastfeeding: CBOs and Families as Messengers and Supporters	Destiny Stokes, Program Director, First Candle
<b>14:40 – 14:50</b>	<b>Break</b>	
<b>Session 3: Insights into the Physiological and Pathological Determinants of SUID Part 1 (Session Chair: Kevin Cummings)</b>		
14:50 – 15:10	GFAP expression in the brain during human postnatal development	Lauren Luijckink, PhD, University of Sydney, NSW
15:10 – 15:30	Relationship between microglia, astrocytes and cell death in the infant brain, and differences according to SUDI category	Rita Machaalani, PhD, University of Sydney, NSW
15:30 – 15:50	Vitamin D deficiency in SIDS: a potential risk factor?	Professor Marta Cohen OBE, MD, FRCPath, DMJ (Pathol), Dip Med Ed, Sheffield Children's, UK
15:50 – 16:10	Possible Reasons for an Association between Immunisations and SIDS	Paul Goldwater, MD, MBBS, FRACP, FRCPA, Adelaide Medical School, University of Adelaide, SA
16:10 – 16:30	SIDS: New Hypotheses	Thomas Hegyi MD, Rutgers Robert Wood Johnson Medical School
16:30 – 16:50	Non-chemoreceptor means to support breathing and blood pressure during sleep	Ron Harper, PhD, University of California, LA
16:50 – 17:10	Engaging Medical Examiners in SIDS/SUID Research Endeavors	Melissa Blessing, DO, Iowa Carver College of Medicine

This Summit is hosted by Dr. Nino Ramirez, Director of the Center for Integrative Brain Research, Seattle Children's, John Kahan, President of Aaron Matthew SIDS Research Guild of Seattle Children's, and Juan Lavista, Corporate Vice President and Chief Data Scientist, AI for Good Research Lab, Microsoft. WA state physicians can claim category 2 CME and Seattle Children's nurses can claim 14 CE credits for attending this event. All others, please check with your state licensing boards.

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Day Two: Thursday, March 27th		
8:30 – 9:00	<i>Breakfast</i>	
<b>Session 4: Insights into the Physiological and Pathological Determinants of SUID Part 2 (Session Chair: Heather MacLeod)</b>		
9:00 – 9:20	Uncovering diaphragm cramp in SIDS and other sudden unexpected deaths	Dov Jordan Gebien, MD, MSc, Ontario, CA and Michael Eisenhut, MD, Luton & Dunstable University Hospital, Luton UK
9:20 – 9:40	Association between hypoplasia of the arcuate nucleus and the pre-Böttinger nucleus in SIDS	Lucrezia Timotei, University of Italy, Bologna
9:40 – 10:00	Decoding Cerebellar Cellular and Molecular Dynamics in SIDS Across Developmental and Corrected Ages	Javid Ghaemmaghami, MS, Children's National Hospital
10:00 – 10:20	Redefining catecholaminergic polymorphic ventricular tachycardia (CPVT) as a neurocardiac condition	Molly O'Reilly, PhD, Department of Clinical and Experimental Cardiology, Amsterdam UMC
<b>Session 5: Genetics (Session Chair: Savannah Lusk)</b>		
10:20 – 10:40	Aligning on Case Definitions and Collaborating for Power	Heather MacLeod, SDY Case Registry Senior Project Manager, Meghan Faulkner, MA, Michigan Public Health Institute and Erik Buczkowski, MPH, Michigan Public Health Institute
10:40 – 10:50	<i>Break</i>	
10:50 – 11:10	Boosting GPT Models for SIDS Genomics Analysis	Erdal Cosgun, PhD, Sr. Data Science Lead, Genomics team at Microsoft Research
11:10 – 11:30	Burden analysis of whole genome sequencing data reveals pathways involved in SUID	Lindsay Clark, PhD, Seattle Children's Research Institute
11:30 – 11:50	Insights into the physiological relevance of genetic variants	Jan-Marino (Nino) Ramirez, PhD, Director, Center for Integrative Brain Research (CIBR) at Seattle Children's Research Institute
11:50 – 12:10	The genetic analysis process at Robert's Program	Catherine Brownstein, PhD, MPH, Boston Children's Hospital, Harvard Medical School
12:10 – 12:30	Cytokines in SIDS	Michael Klintschar, MD, Hannover Medical School, Germany
12:30 – 13:30	<i>Lunch</i>	
<b>Session 6: Animal Models (Session Chair: Russell Ray)</b>		
13:30 – 13:40	The Isabel Davis Center for Safe Children	Russell Ray, PhD, Baylor College of Medicine
13:40 – 14:00	Physiology at scale – lessons learned and implementation of high throughput neonate autoresuscitation screening to model SIDS risk	Christopher Ward, PhD, Baylor College of Medicine
14:00 – 14:20	Building Machine Learning Analysis Pipelines for Generating Data-Driven Discoveries in SIDS Research	Andersen Chang, PhD, Baylor College of Medicine
14:20 – 14:40	Mu opioid receptors and their splice variants in neonatal autoresuscitation	Nicoletta Memos, PhD, Baylor College of Medicine
14:40 – 15:00	The Role of Htr1B in the Neonatal Autoresuscitation Reflex and Sudden Infant Death	Dipak Patel, PhD candidate, Baylor College of Medicine
15:00 – 15:10	<i>Break</i>	
15:10 – 15:30	The Pendulum Between Breath and Death: Serotonin and Noradrenaline in SUID	Savannah Lusk, PhD, Baylor College of Medicine
15:30 – 15:50	Reversing the serotonopathy of SIDS: clues from animal models	Kevin Cummings, PhD, University of Missouri
15:50 – 16:10	Developmental progression of respiratory dysfunction in a mouse model of Dravet syndrome	Dan Mulkey, PhD, University of Connecticut
<b>Session 7: Promoting Safe Infant Care Awareness Part 2 (Session Chair: Jan-Marino (Nino) Ramirez )</b>		
16:10 – 16:30	Maternal Depression in the Prenatal Period: Associated Factors and Planned Infant Sleep Behaviors	Fern Hauck, MD, University of Virginia School of Medicine
16:30 – 16:40	<b>Closing Remarks</b>	John Kahan, President of Aaron Matthew SIDS Research Guild of Seattle Children's and Nino Ramirez, PhD, Seattle Children's Research Institute

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