

## 2018 Seattle Children's and Microsoft SIDS Research Summit – October 4-5, 2018

**Welcome to the Summit!** Thank you for your participation and for traveling here to be a part of this shared learning and collaboration. Our hope is that this two-day summit will accelerate everyone's efforts to solve the mystery of SIDS.

<b>Day One: Thu Oct 4 – Wallowing in the Data</b>		
<b>8:30-9:00</b>	<b>Breakfast</b>	
8:45-9:00	Introduction and Key Announcements	John Kahan, GM Customer Data and Analytics, Microsoft President of Aaron Matthew SIDS Research Guild at Seattle Children's Hospital
9:00-9:15	Collaborative Research Plan and Approach	Jan-Marino (Nino) Ramirez PhD, Seattle Children's Research Institute, Center of Integrative Brain Research
<b>Session 1: Epidemiology</b> (Session Chair: Tatiana Anderson)		
9:15-9:45	"Big data" from a Small Country	Ed Mitchell DSc, University of Auckland
9:45-10:15	Factors Associated with Age of Death due to SUID	Kelty Allen PhD, Microsoft
10:15-10:45	Understanding Different SUID Types	Juan Lavista, Data Science Director, Microsoft
10:45-11:00	<i>Break</i>	
<b>Session 2: Epidemiology</b> (Session Chair: Kelty Allen)		
11:00-11:30	SUID: Diagnostic Shift and Certification Challenges	Carrie Shapiro-Mendoza PhD/MPH, CDC
11:30-12:00	SUID Impact Using Geographic Proxies for Elevation, Poverty and Other Metrics	Richard Johnston PhD, Microsoft
12:00-12:30	SUID Geographical Analysis: A Study for US from 2005 to 2011	Xiaohan Yan PhD, Microsoft
12:30-1:30	<b>Lunch</b>	
<b>Session 3: Infant Mortality and Stillbirth</b> (Session Chair: Richard Johnston)		
1:30-2:00	Multiclass Risk Model for Infant Mortality	Urszula Chajewska PhD, Microsoft
2:00-2:30	Factors Correlated with Late-Term Stillbirth	Sushama Murthy, Data Scientist, Microsoft Leandra King PhD, Microsoft
2:30-2:45	<i>Break</i>	
<b>Session 4: Physiology</b> (Session Chair: Ghayda Mirzaa)		
2:45-3:15	Sudden Unexpected Postnatal Collapse	Thomas Hegyi MD, Rutgers Robert Wood Johnson Medical School
3:15-3:45	Sudden Unexpected Death in Refractory Epilepsies	Franck Kalume PhD, Seattle Children's Research Institute, Center of Integrative Brain Research
3:45-4:15	SIDS - A Research Road Map	Jan-Marino (Nino) Ramirez PhD, Seattle Children's Research Institute, Center of Integrative Brain Research
4:15-4:30	<i>Break</i>	
<b>Session 5: SUID Diagnosis and Reporting</b> (Session Chair: Kimberly Aldinger)		
4:30-5:00	How to Excel in Sample Procurement to Aid Future Research	Marta Cohen MD, Sheffield Children's Hospital
5:00-5:30	The National Fatality Review Case Reporting System (NFR-CRS)	Abby Collier MS and Esther Shaw, Senior Data Analyst, National Center for Fatality Review & Prevention

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5:30-6:00	"Undetermined" - What does that mean for a family's history?	Deborah Robinson, Infant Death Investigation Specialist, WA State Criminal Justice Training Commission and the Inland NW SIDS SUID Foundation
<b>6:00-6:30</b>	<b>Travel to Dinner</b>	
<b>6:30-9:00</b>	<b>Hosted Dinner at Prime Steakhouse by Nino Ramirez and John Kahan</b> 16330 Cleveland Street, Redmond 98052; 425.376.2683; <a href="http://redmondprime.com">http://redmondprime.com</a>	

<b>Day Two: Fri Oct 5 – Sharing Research and Knowledge</b>		
<b>8:30-9:00</b>	<b>Breakfast</b>	
<b>Session 6: Genetics</b> (Session Chair: Juan Lavista)		
9:00-9:30	Exome Sequencing of Pediatric Developmental Brain Disorders: Genomic Opportunities for SIDS/SUID	Ghayda Mirzaa MD, Seattle Children's Research Institute, Center of Integrative Brain Research
9:30-10:00	Genomics Research with Azure	Geralyn Miller, Genomics Director, Microsoft
10:00-10:30	Genetic Findings in SIDS/SUDC - Do they contribute to understanding mechanisms of death?	Torleiv Ole Rognum MD/PhD, University of Oslo
10:30-10:45	<i>Break</i>	
<b>Session 7: Genetics</b> (Session Chair: Chelsea Pagan)		
10:45-11:15	Application of Single Cell Transcriptional Profiling to SIDS	Kimberly Aldinger PhD, Seattle Children's Research Institute, Center of Integrative Brain Research
11:15-11:45	Combining Genomics and Clinical Data to Predict SIDS Risk with Machine Learning	Erdal Cosgun PhD and Tracy Ard, Principal Development Lead, Microsoft
<b>Session 8: Parent Education</b> (Session Chair: Sushama Murthy)		
11:45-12:15	The NJ SIDS Center Safe Sleep App SIDS App for Parents	Barbara Ostfeld PhD, Rutgers Robert Wood Johnson Medical School Sushama Murthy, Data Scientist, Microsoft
<b>12:15-2:15</b>	<b>Lunch at Microsoft Museum</b> (includes 15 min travel time each way)	
2:15-2:45	Social Networks and Social Norms of Young Mothers	Rachel Moon MD, University of Virginia School of Medicine
2:45-3:15	Impact of Today's Baby Intervention on Safe Sleep Behaviors: Mediation by Maternal and Social Norms	Fern Hauck MD, University of Virginia School of Medicine
3:15-3:45	What could AI do to prevent SIDS?	Shirley Ren PhD, Microsoft
3:45-4:00	<i>Break</i>	
<b>Session 9: SUID Funding</b> (Session Chair: John Kahan)		
4:00-4:30	Research Activities of the American SIDS Institute	Betty McEntire PhD, CEO American SIDS Institute
4:30-5:00	American SIDS Institute Research Small Grant Program	Carl Hunt MD, Director for American SIDS Institute
5:00-5:15	Introducing First Steps for SIDS: First ever nationwide and multi-channel marketing campaign to raise SIDS awareness and research funding	Ria Sankar, Sr. Program Manager, AI Products & Research, Microsoft
5:15-5:30	<i>Closing Remarks</i>	

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