

# Meeting on Sudden Infant Death and Pediatric Forensic Challenges

## Soria Moria, Oslo, 5-7<sup>th</sup> of June 2024

### Wednesday June 5<sup>th</sup>

#### Introduction, epidemiology and prevention

*Chair:*

- 10.00 Welcome and introduction
- 10.10 Safe sleep in infants – a renewed approach  
*Trine Giving Kalstad, Trond Mathiesen, Norwegian SIDS and Stillbirth Society*
- 10.30 Robert's program: finding the undiagnosed in the unexplained  
*Richard Goldstein, Harvard Medical School*
- 10.50 **Short coffee break**
- 11.00 Studies of attitudes and factors effecting preterm infant care practices  
*Rachel Moon, University of Virginia*
- 11.20 High prevalence of falling asleep during infant feeding and associated factors  
*Fern Hauck, University of Virginia*
- 11.40 Mechanisms in action: how does safer sleep advice work for those who need it the most?  
*Anna Pease, University of Bristol*
- 12.00 **Lunch**
- 13.00 Epidemiology and risk factors of more recent SIDS deaths  
*Pete Blair, University of Bristol*
- 13.20 Inconsistency between pictures on baby diaper packaging in Europe and safe infant sleep recommendations  
*Inge Harrewijn, University Hospital of Montpellier*
- 13.40 Biomarker-based risk stratification for sudden unexpected infant death: the BIOMINRISK project  
*Fleur Lorton, Nantes University Hospital*
- 14.00 **Coffee**

#### Accidental suffocation, diagnostic challenges and hypoxia

*Chair:*

- 14.30 Infant deaths from accidental suffocation; rare events or unrecognized by professionals?  
*Joanna Garstang, Birmingham Community Healthcare NHS Trust*
- 14.50 Intermittent Hypoxia in SIDS  
*Nino Ramirez, Seattle Children's Hospital*

- 15.10 Pulmonary intra-alveolar hemorrhage in SIDS revisited  
*Silje Osberg, Oslo University Hospital*
- 15.30 Physiomics: New approaches for high throughput in-vivo modeling to gain mechanistic insights and build pathways to prognostics and therapeutics in SIDS/SUID  
*Russell Scott Ray, Baylor College of Medicine*
- 15.50 Update on pathology of quick and slow asphyxiation, chronic signs of hypoxemia, and obstructive sleep apnea  
*Caroline Rambaud, AP-HP Hospital Raymond Poincaré, Paris-Saclay University*
- 16.10 Difficult cases  
*Various presenters*
- 17.00 **End of program**
- 19.00 **Dinner**

## **Thursday June 6<sup>th</sup>**

### **Research topics in SIDS/SUDC, including brain research, genetics, metabolomics and infection**

*Chair:*

- 09.00 Whole genome sequencing in sudden unexpected infant death  
*Angela Michelle Bard, Seattle Children's Hospital*
- 09.20 Genetic and phenotypic analyses of SIDS and SUDC  
*Monica Wojcik, Harvard Medical School*
- 09.40 Title is pending  
*Martin Prøven Bogsrud, Oslo University Hospital*
- 10.00 Routine whole genome sequencing for SIDS and SUDC in England  
*Julie Vogt, St Georges University Hospitals NHS Foundation Trust*  
*Hannah Titheradge, Birmingham Women's and Children's NHS Foundation Trust*
- 10.20 **Coffee**
- 10.50 Metabolomics analyses identify novel associations with sudden infant death syndrome  
*Keith L. Keene, University of Virginia*
- 11.10 Analyses of the metabolome in SIDS/SUDC  
*Hanne Bendiksen Skogvold, Katja Elgstøen, Oslo University Hospital*
- 11.30 The serotonergic brainstem hypothesis in SIDS – an update  
*Robin Haynes, Harvard Medical School*
- 11.50 An update on neuropathological findings in SUDC  
*Declan McGuone, Yale School of Medicine*

12.10 **Lunch**

13.10 Defining subsets of SIDS infants using neuroinflammatory markers  
*Robin Haynes, Harvard Medical School*

13.30 Infection as an exogenous stressor in SUDI cases at the Tygerberg Medico-legal Mortuary, Cape Town, South Africa  
*Corena de Beer, Stellenbosch University*

13.50 Emerging infections in pediatrics  
*Martha Cohen, Sheffield Children's NHS*

14.30 Sudden unexplained death in childhood (SUDC) in children aged 1-4 years in England and Wales  
*Joanna Garstang, Birmingham Community Healthcare NHS Trust*

14.50 **Coffee**

**Definitions, diagnostic challenges and case presentations**

*Chair:*

15.10 Update on ICD-11 classification changes  
*Richard Goldstein, Harvard Medical School*

15.30 Difficult cases  
*Various presenters*

16.30 **End of program**

19.00 **Dinner**

**Friday June 7<sup>th</sup>**

**Abusive head trauma**

*Chair: Arne Stray-Pedersen*

09.00 Infant Head Injury by Shaking Trauma – Part I: a biomechanical engineering perspective and field update  
*Arjo Loeve, Delft University of Technology*

09.20 Infant Head Injury by Shaking Trauma – Part II: comparing the kinematics of shaking a 1-year-old vs. 6-week-old surrogate  
*Kim Hutchinson, Delft University of Technology*

09.40 Neuropathological findings in infants with inflicted head injuries  
*Jacob Matschke, University Medical Centre Hamburg-Eppendorf*

10.10 *Title is pending*  
*Heidi Beate Eggesbø, Oslo University Hospital*

10.30 **Coffee break**

**Sudden Unexplained Death in Childhood (SUDC)**

*Chair: Nikki Speed, SUDC UK*

11.00 Febrile Seizures and SUDC

*Laura Gould, NYU Langone Grossman School of Medicine*

11.20 Understanding sudden unexpected death in children over one year of age

*Peter Fleming, University of Bristol*

11.40 Sudden cardiac death in children. Results from a large UK database

*Mary Sheppard, St George's University of London*

12.00 International collaboration for SUDC – progress for a brighter future?

*Nikki Speed, SUDC UK*

12.20 Thanks' for coming

12.30 **Lunch**

**Påmelding**

Påmelding / bestilling av overnatting og eventuelle spørsmål rettes til Siri Hauge Opdal

[siropd@ous-hf.no](mailto:siropd@ous-hf.no)

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