



**SPECIAL INTEREST GROUP NEC**

**SIGNEC 2020 & Neonatal QI Conference**

**29<sup>th</sup> & 30<sup>th</sup> October, 2020**

**SIGNEC includes neonatologists, paediatricians, surgeons, nurses, dieticians, transfusion medicine specialists, epidemiologists, basic science researchers, trainees and other healthcare professionals with an interest in NEC and health improvement.**

*The aim is to facilitate knowledge sharing, networking and collaboration to optimise research and improvements in practice.*

*Make a difference by sharing your thoughts and passion and contributing your expertise*

\*\*\*\*\*

<https://signec.org/>

## 29<sup>th</sup> October 2020

### 12:30 – 13:15 Virtual Conference Platform Open for Delegates

**13:15 – 13:30 Welcome, housekeeping and plan for the day**  
Minesh Khashu

### 13:30 – 14:25 Session 1 NEC

**Chair:** Linseigh Green

**13:30 – 13:50 Arabella's story: Surviving NEC**  
Mat Hilborne-Rose

**13:50 – 14:10 Improving Neonatal Outcomes – a parental perspective**  
Silke Mader

**14:10 – 14:25 Q & A with Silke & Mat**

### 14:30 – 16:00 Session 2 NEC

**Chairs:** Jonathan Swanson & John Zupancic

**14:30 – 15:00 New approaches to necrotizing enterocolitis – opening the door to precision prevention and treatment**  
David J Hackam

**15:00 – 15:30 Transfusion & NEC: are we any wiser?**  
Akhil Maheshwari

**15:30 – 16:00 Probiotics and NEC: Research and Improvement in a Learning Health System**  
Ravi Mangal Patel

### 16:00 – 16:30 Break, Virtual Exhibition & Meeting Hub

### 16:30 – 18:50 Session 3 NEC

**Chairs:** David Hackam & Akhil Maheshwari

**16:30 – 17:00 Sensitivity & Specificity of NEC definitions**  
Steven McElroy

**17:00 – 17:30 Fortification of breast milk: exploring the evidence**  
Boris W Kramer

**17:30 - 18:00 Exploring Biomarkers for NEC: Are we there yet?**  
Misty Good

**18:00 – 18:30 Implementation of bowel ultrasound practice for the diagnosis and management of necrotising enterocolitis**  
Sherwin S Chan

**18:30 – 18:50 Contemporary outcomes of NEC**  
Nigel Hall

**18:50 – 19:30 Break, Virtual Exhibition & Meeting Hub**

**19:30 – 20:10 Session 4 NEC Oral Abstract Presentations**

**Chairs:** Misty Good & Ravi Patel

**19:30 – 19:40 Presentation 1**

**19:40 – 19:50 Presentation 2**

**19:50 – 20:00 Presentation 3**

**20:00 – 20:10 Presentation 4**

**20:10 – 20:20 Break, Virtual Exhibition & Meeting Hub**

**20:20 – 21:00 Session 5 NEC Oral Abstract Presentations**

**Chairs:** Boris Kramer & Steven McElroy

**20:20 – 20:30 Presentation 5**

**20:30 – 20:40 Presentation 6**

**20:40 – 20:50 Presentation 7**

**20:50 – 21:00 Presentation 8**

**21:00 Programme Close**

**21:30 – 23:00 SIGNEC "PUB"**

*Opportunity to network with other delegates and faculty.*

*Delegates and faculty will be invited into virtual rooms for an informal chat and to facilitate networking opportunities.*

*Please let us know by 1<sup>st</sup> October if there is anyone specific you wish to "meet" with in your virtual room. Email us at [abi@cfsevents.co.uk](mailto:abi@cfsevents.co.uk). We will try our best to accommodate all requests.*

## QUALITY IMPROVEMENT CONFERENCE

30<sup>th</sup> October 2020

The QI day will provide delegates with an opportunity to understand better various QI methodologies and work on a particular improvement aim within any area of neonatal care. Multidisciplinary team members from neonatal units are encouraged to attend together to optimise their unit's QI journey, covering any aspect of neonatal care they wish to work on. Come to the conference with a 'problem' to solve for your unit and national and international experts in QI including members of the BAPM Quality Collaborative will work with you such that by the end of the day you have a plan for improvement.

At registration delegates will be asked to share which specific neonatal issue for QI they plan to work on (this is optional for delegates to share if they wish to, but if provided can help faculty tailor use of examples during the QI sessions).

### 12:30 – 13:15 Virtual Exhibition & Meeting Hub

#### 13:15 – 13:30 Welcome, housekeeping and plan for the day

Minesh Khashu

#### 13:30 – 14:00 Introduction to Quality Improvement

Minesh Khashu

#### 14:00 – 14:30 Exploring critical system levers for improvement: Primary & Secondary Drivers

Cora Doherty

### 14:30 – 14:45 Break, Virtual Exhibition & Meeting Hub

#### 14:45 – 15:15 Delineating Change Ideas, change concepts and bundles

Aniko Deierl

#### 15:15 – 15:45 Measurement for improvement: Choosing your measures

Ravi Mangal Patel

#### 15:45 – 16:30 Completion of Driver Diagrams for individual aim/work stream by delegates

**Remote Facilitators:** Minesh Khashu, Ravi Mangal Patel, Cora Doherty & Aniko Deierl

### 16:30 – 16:45 Break, Virtual Exhibition & Meeting Hub

#### 16:45 – 17:20 Feedback into room by participants

Cora Doherty

#### 17:20 – 17:30 Wrap up and concluding remarks

Minesh Khashu

**17:30 – 17:40 Break, Virtual Exhibition & Meeting Hub**

**17:40 – 19:00 Best QI Abstracts for oral presentation**

**Chairs:** Julie-Clare Becher & TBC

**17:40 – 17:50 Presentation 1**

**17:50 – 18:00 Presentation 2**

**18:00 – 18:10 Presentation 3**

**18:10 – 18:20 Presentation 4**

**18:20 – 18:30 Presentation 5**

**18:30 – 18:40 Presentation 6**

**18:40 – 18:50 Presentation 7**

**18:50 - 19:30 Break, Virtual Exhibition & Meeting Hub**

**19:30 – 21:15 Session 6 NEC**

**Chairs:** Charles Roehr & Gail Besner

**19:30 – 19:50 An unexplored role for the enteric nervous system in the pathogenesis and treatment of NEC: turn on the motor to shut off the fire**  
David J Hackam

**19:50 – 20:10 NEC-on-a-chip: Patient-derived microphysiologic systems in precision medicine for necrotizing enterocolitis**  
Misty Good

**20:10 – 20:30 Understanding animal models of NEC: what models are available, why are there differences, and what can they teach us about NEC**  
Steve McElroy

**20:30 – 20:50 The mucosal immune system in the preterm gut and the microbiome and metabolome**  
Boris W Kramer

**20:50 – 21:10 Contrast Enhanced Ultrasound Improves Diagnostic Sensitivity for NEC**  
Jamaal Benjamin

**21:10 – 21:15 Wrap Up**

**21:30 – 22:00 Faculty Debrief**

**21:30 – 23:00 SIGNEC "PUB"**

*Opportunity to network with other delegates and faculty.*

*Delegates and faculty will be invited into virtual rooms for an informal chat and to facilitate networking opportunities.*

*Please let us know by 1<sup>st</sup> October if there is anyone specific you wish to "meet" with in your virtual room. Email us at [abi@cfsevents.co.uk](mailto:abi@cfsevents.co.uk). We will try our best to accommodate all requests.*

## Faculty List (alphabetical order)

### **Julie-Clare Becher**

*Consultant Neonatologist, Edinburgh Royal Infirmary  
Senior Lecturer in Child Life and Health, University of Edinburgh  
Chair, BAPM Quality Collaborative  
Chair, MatNeoSIP Care Pathway Design Group  
Lead, Scottish Cooling Group*

### **Jamaal Benjamin**

*Department of Radiology  
Hospital of the University of Pennsylvania, Perelman School of Medicine  
Philadelphia, Pennsylvania, United States of America*

### **Gail E Besner**

*H. William Clatworthy Professor of Pediatric Surgery  
Chief, Department of Pediatric Surgery  
Principal Investigator, Center for Perinatal Research  
Associate Director, Pediatric Surgery Training Program  
Nationwide Children's Hospital*

### **Sherwin S Chan**

*Department of Radiology,  
Children's Mercy Hospitals and Clinics,  
Kansas City, Missouri, USA*

### **Aniko Deierl**

*Consultant Neonatologist, Improvement coach  
Lead for Integrated Family Delivered Care Project  
Imperial College Healthcare NHS Trust*

### **Cora Doherty**

*Consultant Neonatologist,  
University Hospital of Wales, Cardiff*

### **Misty Good**

*Assistant Professor of Pediatrics  
Washington University School of Medicine  
Department of Pediatrics  
Division of Newborn Medicine  
St. Louis Children's Hospital*

### **Linseigh Green**

*NEC Survivor and Patient-Family Advocate  
Board Director, NEC Society, USA*

**David J Hackam**

*Garrett Professor and Chief of Pediatric Surgery  
Professor of Surgery, Pediatrics and Cell Biology  
Johns Hopkins University School of Medicine  
Pediatric Surgeon-in-Chief and Co-Director, Johns Hopkins Children's Center  
The Charlotte R. Bloomberg Children's Center*

**Nigel Hall**

*Associate Professor, University of Southampton  
Consultant Neonatal & Paediatric Surgeon  
Southampton Children's Hospital*

**Mat Hilborne-Rose**

Parent of a NEC survivor

**Minesh Khashu**

Consultant in Neonatal Medicine, Poole Hospital NHS FT & Professor of Perinatal Health  
Founder SIGNEC

**Boris W Kramer**

*Professor of Experimental Perinatology  
Maastricht University Medical Center  
Director of Pediatric Research*

**Silke Mader**

*Chairwoman, Executive Board, EFCNI*

**Akhil Maheshwari**

*Josephine S. Sutland Professor of Newborn Medicine  
Director, Eudowood Division of Neonatology  
Vice-Chair (Integration), Department of Pediatrics  
Johns Hopkins University School of Medicine*

**Ravi Mangal Patel**

*Associate Professor of Pediatrics  
Division of Neonatology  
Emory University School of Medicine*

**Steve McElroy**

*Associate Professor Neonatology  
Stead Family Department of Pediatrics  
Department of Microbiology  
University of Iowa*



**Charles Christoph Roehr**

*Clinical Director, National Perinatal Epidemiology Unit (NPEU), University of Oxford  
Associate Professor of Paediatrics, University of Oxford  
President ESPR*

**Jonathan Swanson**

*Associate Professor of Pediatrics  
NICU Medical Director  
Chief Quality Officer of Children's Services  
University of Virginia Children's Hospital  
Charlottesville, VA*

**John A F Zupancic**

*Associate Professor of Pediatrics  
Harvard Medical School  
Associate Chief of Neonatology  
Beth Israel Deaconess Medical Center*

**Correspondence:**

Prof. Minesh Khashu, Consultant in Neonatal Medicine,  
Poole Hospital NHS Foundation Trust  
[mineshkhashu@gmail.com](mailto:mineshkhashu@gmail.com)