



**The Neonatal Society
Summer Meeting**

June 29th – 30th 2023

University of Bristol

Welcome to Bristol

It is a pleasure to welcome you, in-person or virtually, to Bristol for The Neonatal Society Summer Meeting 2023.

The aim of the society is to bring scientists and clinicians together to discuss important topics in perinatal medicine, to learn from one another and generate new ideas, to network and to meet old friends and make new ones too.

The meeting is being held at the University of Bristol and we are delighted to welcome our distinguished keynote speakers from across the world. We are also pleased to invite original abstracts, which will be presented as oral and poster presentations.

We hope that you enjoy the meeting,

Ela Chakkarapani
(local organiser)

Kevin Goss
(Meeting Secretary)

Thursday 29th June 2023

9:30 *Registration, coffee and exhibits*

SESSION 1

9:55 Welcome

10:00 Ceri Murphy: Umbilical doppler patterns of flow in-utero affect the risk of necrotising enterocolitis in fetal growth restricted preterm infants

10:15 Claire Howarth: The effect of haemoglobin and red blood cell transfusion on gut perfusion and injury in preterm infants

10:30 Ceri Murphy: The impact of fetal growth restriction on cerebral and gut oxygenation using near infrared spectroscopy

10:45 Hannah Edwards: Antenatal magnesium sulphate for fetal neuroprotection: use in England, Scotland, and Wales 2014-2022

11:00 *Tea break and exhibits*

11:30 **Keynote Lecture: Dr Ronit Pressler, UCL**

“The development and assessment of novel therapies for the treatment of neonatal seizures”

12:30 *Lunch and exhibits*

SESSION 2

14:00 **Keynote Lecture: Prof George Davey Smith, University of Bristol**

“Strengthening causal inference in antenatal and neonatal epidemiology”

15:00 Tim van Hasselt: Examining neonatal morbidity and paediatric intensive care admission following neonatal discharge - using national linked datasets

15:15 Georgina Yan: Appraisal of the usefulness of the 2022 NICHD bronchopulmonary dysplasia outcome estimator in a UK single-centre extremely preterm cohort

15:30 David Odd: The contributor and causes of death after neonatal illness

15:45 *Tea break and exhibits*

16:15 **David Harvey Fellowship Lecture: Professor Jennifer Zeitlin, INSERM Paris**

“The future of federated research for improving the health of children born preterm”

17:15 Close of day

Friday 30th June 2023

9:30 *Registration, coffee and exhibits*

SESSION 3

9:55 Welcome

10:00 Alexandra Bonthron: Impaired attentional antecedents of executive functions in toddlers with congenital heart disease: an eye-tracking study

10:15 Raymond Pang: Melatonin reduces brain injury following inflammation-amplified hypoxia ischaemia in a newborn piglet model relevant to low resource settings

10:30 Bec Jackson: Impact of antenatal SARS-CoV-2 exposure on developmental outcomes within 12 months of age: a meta-analysis

10:45 Carlos Sillero Rejon: The economic impact of antenatal magnesium sulphate for fetal neuroprotection: use in England, Scotland, and Wales 2014-2022

11:00 *Tea break and exhibits*

11:30 Chris Gale: Establishing the safety of waterbirth for mothers and babies: The POOL observational cohort study

11:45 David Chong: Detection and quantitative analysis of patient-ventilator interactions in ventilated infants by convolutional neural networks

12:00 T'ng Chang Kwok: Network variation of postnatal dexamethasone use and BPD severity across England and Wales in infants born <28 weeks of gestation: a population-based study

12:15 Peter Fleming: Unexpected and unexplained deaths in ex-preterm infants: how effectively are we getting parents to implement safe sleep practices?

12:30 *Lunch and exhibits*

SESSION 4

14:00 **Young Investigator Lecture 2023: Dr Qian Yang, University of Bristol** "Individual and joint effects of chronotype and sleep patterns on pregnancy and perinatal outcomes"

14:45 Kerry Woolfall: Timing of Stoma Closure in Neonates (ToSCiN)- a mixed methods feasibility study

15:00 Adam Smith-Collins: TRANSFER: ThReatened preterm birth, Assessment for in utero transfer; 22+0-23+6 weeks' gestation

15:15 Don Sharkey: Novel polymer coating of nasogastric tubes to inhibit microbial biofilm formation in an in-vitro model

15:30 *Tea break and exhibits*

16:00 Prize-giving – best presentation by trainee

16:10 **The Tizard Lecture: Professor Caroline Crowther, University of Auckland**
“Antenatal magnesium sulphate for fetal neuroprotection: building evidence from experimental medicine, imaging, trials, and metanalysis”

17:10 Close of Meeting