# Recharge & Reconnect Workshop

Sunday 21st March 2021

The Constance, Fortitude Valley Brisbane.

| Time | Title & Speaker |
|---|---|
| 1200-1215 | Welcome – Jane Langford (Chair of NNP SIG) |
| 1215-1300 | **'Feasibility and accuracy of cord blood sampling for admission laboratory investigations: A pilot trial'**<br>Poliana Medeiros (Neonatologist & PHD Student) |
| 1300-1345 | **Pharmacokinetics & Dynamics of Inotropes**<br>Dr Karen Whitfield (Pharmacist) |
| 1345-1430 | **Indomethacin for IVH Prevention in ELBW Babies**<br>Dr Jasmine Antonine (Neonatologist) |
| 1430-1515 | **High Frequency ventilation & Volume guarantee**<br>Dr Jany Pienaar (Neonatologist) |
| 1515-1600 | **Metabolic overview**<br>Anita Inwood (Nurse Practitioner) |
| 1600-1700 | **"Happy Hour"** |
| 1700-1830 | **VR Education: Inside the body**<br>"Bundles of Rays" – Bradley Chesham |
| 1830-1930 | **Relax, Reflect and Refresh – Terrace Room** |

## Speaker's Information and abstracts:

***Poliana Medeiros*** *(my full name is Poliana de Barros Medeiros but I prefer Poliana Medeiros for publications, so perhaps best to keep the short version?) PhD candidate, MD, FRACP, Associate Lecturer - University of Queensland*

*Poliana is a clinician currently undertaking her PhD with the Stillbirth Centre of Research Excellence. She had her neonatal training in Brazil at the Faculty of Medicine – University of São Paulo (FMUSP) and is a neonatologist both in Brazil and Australia (FRACP in Neonatal/Perinatal Medicine), currently working at Mater Mothers' Hospital. She values the potential of medicine to help people, and on research and science to enlighten and continuously improve prevention and treatment. As a PhD student, she believes that improving knowledge of causes and contributors to stillbirth can lead to better perinatal outcomes. Poliana's long-term goal is to combine an academic and a clinical career to contribute to reducing perinatal adverse outcomes.* ***Email address:*** *poliana.medeiros@uq.net.au*

**Dr Karen Whitfield** works at the Royal Brisbane and Women's Hospital and her specialist clinical interest lies in medication management, optimisation and safety in neonatology, pregnancy and breast feeding. In 2017 Karen received the Australian Clinical Pharmacy Award by the Society of Hospital Pharmacists Australia. In 2020 Karen received one of the Research Excellence Award for Research Support by Metro North Hospital and Health Service. She holds an Associate Professor Research position with the University of Queensland and supervises several Research Higher Degree students.

Pharmacokinetics and pharmacodynamics of Inotropes in Neonates. This interactive session will be an overview of the commonly used inotropes in Neonatal Intensive Care, as well as some less frequently used agents. The session will cover mechanisms of action, benefits of using specific agents and side effects, as well as some pharmaceutical issues of administration. All of this will be brought together using some clinical scenarios to discuss and consolidate knowledge.

***Jasmine Antoine*** *is a neonatologist based at the Royal Brisbane and Women's Hospital. She is passionate about medical education, leadership, and workplace culture.*

*The Grantley Stable Neonatal Unit is implementing a series of quality improvement strategies to reduce the risks and occurrence of intraventricular haemorrhage (IVH) in extremely premature and extremely low birth weight infants. Indomethacin has been shown to significantly reduce the risk of severe IVH. We know that severe IVH are associated with morbidity and mortality. Specifically, infants with severe IVH have longer lengths of stay, higher rates of post haemorrhagic hydrocephalus, requirements for ventricular shunts and poorer neurodevelopmental outcomes. We will discuss the literature supporting the use of indomethacin and the implementation of our quality improvement project.*

**Jany Pienaar** is a neonatologist currently working as a neonatal fellow at the Grantley Stable Neonatal Unit, RBWH. She thoroughly enjoys all aspects of neonatal care, with interests in leadership development, health professional education, quality improvement, neonatal ventilation strategies and neonatal stabilisation and transport.

High frequency ventilation (HFV) is most commonly used as a rescue mode of ventilation in the sickest of infants. Achieving acceptable initial $pCO_2$ levels after commencing HFV in this setting remains a challenge. We will look at a data analysis of the initial $pCO_2$ levels after starting HFV, the time taken to obtain initial blood gases, and the duration to achievement of acceptable $pCO_2$ levels, and further discuss the quality improvement process and latest evidence on how to improve these outcomes.

***Anita INWOOD, Ba Nurs, Grad Dip Paeds, MNP.*** *Director, Queensland Lifespan Metabolic Medicine Service, Queensland Children's Hospital, Brisbane, Australia and Associate lecturer, University of Queensland, Brisbane Australia*

*Anita has been a paediatric nurse for 32 years and working as the Queensland nurse lead in metabolic medicine since 2003. She qualified as a Metabolic Nurse Practitioner (NP) through the University of Queensland in 2015 and has been an adjunct lecturer since 2016. She was an executive committee member of the Australasian Society of Inborn Errors of Metabolism (ASIEM) from 2005 to 2019, during this time she held the positions of clinical nurse rep, secretary, and chairperson. Anita won a Churchill Fellowship in 2012 and gained the opportunity to work in the United Kingdom with a focus on lysosomal storage disease and transition. Based on that experience she led the formation of the Queensland Lifespan Metabolic Medicine Service. Anita's clinical responsibility is the management of children with phenylketonuria, fatty acid oxidation disorders and other causes of hypoglycaemia. In January 2020, Anita was appointed the Service Director of the Queensland Lifespan Metabolic Medicine Service.*