

Program 23rd Neonatal Neurology Symposium
Friday January 28, 2022 (virtual)

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| 08:45 – 09:00 | 'Walk-in' |
| 09:00 – 09:10 | Introduction |
| 09:10 – 10:25 | Session 1 |
| 09:10 – 10:10 | <u>Presentations:</u> 09:10 – 09:25: Pain management for necrotizing enterocolitis: getting the balance right. <i>Judith ten Barge, Rotterdam</i> 09:25 – 09:40: Morphine exposure and neurodevelopmental outcome in extremely preterm infants. <i>Michele Luzzati, Florence</i> 09:40 – 09:55: The role of preterm birth and postnatal stress in neonatal structural brain development. <i>Femke Lammertink, Utrecht</i> 09:55 – 10:10: Social-emotional and behavioral issues after very preterm birth; a mixed-method study. <i>Lisette Jansen, Leiden</i> |
| 10:10 – 10:25 | <u>Pitches:</u> 10:10 – 10:15 Chloral hydrate sedation for MRI beyond 2 months: its effect on vital parameters. <i>Fleur Fortunati, Utrecht</i> 10:15 – 10:20 Vital signs, temperature and COMFORT scale scores in infants during ultra-high-field MR imaging. <i>Inge van Ooijen, Utrecht</i> 10:20 – 10:25: Heart rate extraction from neonatal near infrared spectroscopy signals. <i>Naser Hakimi, Utrecht</i> |
| 10:25 – 10:50 | Coffee break |

10:50 – 12:05

Session 2

10:50 – 11:50

Presentations:

10:50 – 11:05: Automated sleep state assessment based on quantitative EEG analysis in early preterm infants.

Xiaowan Wang, Utrecht/Leuven

11:05 – 11:20: Feasibility of high frame rate Doppler ultrasound during major neonatal non-cardiac surgery.

Jorinde Kortenbout, Rotterdam

11:20 – 11:35: Hypoglycemia in infants with hypoxic-ischemic encephalopathy is associated with additional brain injury and worse neurodevelopmental outcome.

Corline Parmentier, Utrecht

11:35 – 11:50: Diffuse volumetric brain loss in infants with critical congenital heart disease.

Alex Wesseling, Utrecht

11:50 – 12:05

Pitches:

11:50 – 11:55: Behavioral classification of sleep stages in preterm infants: reviewing current methods and proposing a new approach.

Eline de Groot, Utrecht

11:55 – 12:00: The role of postnatal nutrition in white matter development among preterm infants: a scoping review.

Els Janson, Utrecht

12:00 – 12:05: Nutritional supplementation reduces lesion size and neuroinflammation in a sex-dependent manner in a mouse model of perinatal hypoxic-ischemic brain injury.

Myrna Brandt, Utrecht

12:05 – 13:20

Lunch

12:30 – 13:15

Meeting members Neonatal Neurology

13:20 – 14:45

Session 3

13:20 – 14:00

Keynote: Early prediction, early diagnosis, early intervention.
Prof. dr. Jan Willem Gorter, Utrecht

14:00 – 14:45

Presentations:

14:00 – 14:15: Investigating the predictive validity of early MRI in extremely preterm infants - using a novel MRI scoring system.
Sara Rapuc, Utrecht

14:15 – 14:30: Cognitive and social-emotional development in two- to three year-old children with critical congenital heart disease.
Laura Klunder, Utrecht

14:30 – 14:45: Neurodevelopmental outcome of children affected by fetal neonatal alloimmune thrombocytopenia: a cohort study.
Thijs de Vos, Leiden

14:45 – 15:00

Coffee break

15:00 – 16:10

Session 4

15:00 – 15:40

Keynote: The first 1001 critical days – Preclinical research.
Prof. dr. Jeroen R. Pasterkamp, Utrecht

15:40 – 16:10

Presentations:

15:40 – 15:55: Mesenchymal stem cells therapeutic efficacy is enhanced by hypoxic preconditioning in a model of neonatal hypoxic-ischemic encephalopathy.
Sara de Palma, Utrecht

15:55 – 16:10: Feasibility and safety of intranasally-administered mesenchymal stromal cells after perinatal arterial ischemic stroke: results of the PASSIoN trial.
Lisanne Baak, Utrecht

16:10 – 16:20

Short break

16:20 – 16:30

Close off & Young Investigator Award