

Developmental changes in paediatric neurodisability

from concepts to diagnostics
and therapy

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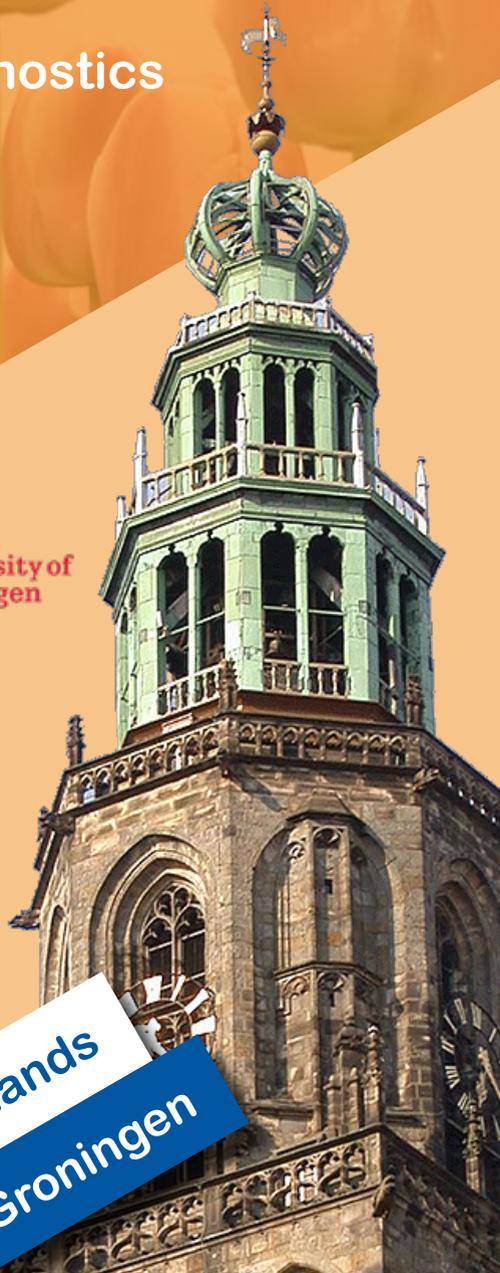
DN

Developmental Neurology

20 - 22 June 2019

The Netherlands

Groningen



Developmental changes in paediatric neurodisability

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Many children are diagnosed with a neurodevelopmental disorder: 1 in 500 children is diagnosed with cerebral palsy (CP), 1-2 in 100 children with autism spectrum disorder (ASD) and about 5 in 100 children with developmental coordination disorder (DCD). 'Neurodevelopmental' indicates that the disorders are characterized by atypical brain development that starts in the early phases of ontogeny.

Our knowledge on the manifestations of the disorders rapidly increases. Yet, our understanding of the aetiology and pathogenesis – and therewith of early detection and early intervention – is limited. For instance, we do not know why infants with similar risk factors, including genetic risk and a lesion of the brain, may develop so differently.

The meeting aims at presenting and discussing the novel insights in the concepts, diagnostics and therapeutic guidance of paediatric neurodisability. The meeting starts by addressing typical child development:

what are the current ideas on brain development, motor, cognitive and social development ('embodied cognition', the tight intertwining of the various components of development)? Via an intermezzo on 'nature, nurture and neuroplasticity', the meeting moves to paediatric neurodisability. First, it addresses the changes in concepts of neurodevelopmental disorders, including those on childhood epilepsy and the role of cerebral visual impairment. Next, guidance of children with neurodisability and their families is addressed. This includes the role of stem cell therapy, family coaching and virtual reality.

The congress will be a meeting place of scientists involved in fundamental aspects of brain development and scientists and clinicians dealing with infants and children with minor and major developmental disorders. Ample time will be devoted to general discussions. Participants are encouraged to bring posters with their latest results.

Organization:

Mijna Hadders-Algra	Beatrix Children's Hospital	Inst. Developmental Neurology
Elisa Hamer	Beatrix Children's Hospital	Inst. Developmental Neurology
Kirsten Heineman	Beatrix Children's Hospital	Inst. Developmental Neurology
Tjitske Hielkema	Dept Rehabilitation Medicine	Centre for Rehabilitation
Jessika van Hoorn	Dept Rehabilitation Medicine	Centre for Rehabilitation
Linze Dijkstra	Beatrix Children's Hospital	Inst. Developmental Neurology
Mira Franconi	Beatrix Children's Hospital	Inst. Developmental Neurology
Anneke Kracht	Beatrix Children's Hospital	Inst. Developmental Neurology
Harry Gubbels	Wenckebach Institute	

For more information contact Anneke Kracht or Mira Franconi: secretary@developmentalneurology.com

Open for registration
 via the website

www.developmentalneurology.com

Thursday

Changes in concepts: brain activity from infancy to adolescence

Peter Marshall (Philadelphia, PA, USA)

The development of neural body representations in infancy.

Kathrin Cohen Kadosh, (Oxford, UK)

Developmental changes in the brain's reorganization from infancy to adolescence

From motor development to embodied cognition

Elisa Hamer

(Nijmegen/Groningen, the Netherlands)

Early infancy: from general movements to goal directed activity.

Kirsten Heineman

(Groningen, the Netherlands)

Development of adaptive motor behaviour during infancy.

Philippe Rochat (Atlanta, GA, USA)

Early development of embodied cognition.

Mijna Hadders-Algra

(Groningen, the Netherlands)

You and I: learning to balance between the self and the other.

Nature, nurture and neuroplasticity

Lisenka Vissers (Nijmegen, the Netherlands)

What genes can tell us about brain and behaviour.

Karen Lidzba (Bern, Switzerland, Germany)

Current concepts on the plasticity of the developing brain.

Friday

Changing concepts in neurodevelopmental disorders

Lieven Lagae (Leuven, Belgium)

Changing concepts in childhood epilepsy: from plasticity to daily guidance.

Allan Colver (New Castle, UK)

Transition of young people with neurodisability.

Andrea Guzzetta (Pisa, Italy)

Cerebral visual impairment - consequences for navigation through daily life.

Christopher Gillberg (Gothenburg, Sweden)

The essence of autism and related disorders.

Jill Zwicker (Vancouver, Canada)

Brain imaging in children with DCD: implications for improving function in daily life.

Hilde van Waelvelde (Ghent, Belgium)

DCD and ASD: novel insights into co-morbidity.

Bert Steenbergen

(Nijmegen, the Netherlands)

Deficits in embodied cognition in children with DCD: implications for function in daily life.

Novelties in the guidance of children with neurodisability

Frank Bel (Utrecht, the Netherlands)

Prevention and repair of neonatal brain injury: how far are we?

Elisa Fazzi (Brescia, Italy)

Early visual intervention to improve motor, cognitive and social development.

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Saturday

Novelties in the guidance of children with neurodisability (continued)

Jean-Pierre Lin (London, UK)

Novel approaches in the guidance of children with dyskinetic CP

Schirin Akhbari Ziegler (Winterthur, Switzerland)

Transitions in infant physiotherapy: towards coaching of families

Gunn Krisitin Øberg (Tromsø, Norway)

Play as a means to integrate embodied cognition into paediatric physiotherapy

Bert Otten (Groningen, The Netherlands)

Virtual reality, embodiment, movement control and movement disorders

