MASTERY OF MANUAL SKILLS

RECENT INSIGHTS INTO TYPICAL AND ATYPICAL DEVELOPMENT OF MANUAL ABILITY

GRONINGEN, 19-21 APRIL 2012

THURSDAY APRIL 19TH

08.15 - 09.00  Registration and coffee

09.00 - 09.20  Welcome by Mr. Max van den Berg, Commissioner of the Queen in the Province of Groningen, and by Prof. Dr. F. Kuipers, Dean of the University Medical Center Groningen

Neural mechanisms involved in reaching, grasping and manipulation

Chair: John Martin

09.20 - 10.00  John Rothwell (London, UK):
Cortical circuitries involved in reaching, grasping and manipulation.

10.00 - 10.40  Melvyn A. Goodale (London, ON, Canada):
Perception – action: making sense of upper limb activities.

10.40 - 11.10  Coffee / tea

Typical and atypical development of reaching and grasping

Chair: Andrea Guzetta

11.10 – 11.50  Mijna Hadders-Algra (Groningen, the Netherlands)
Development of reaching and associated postural control: typical and atypical development

11.50 - 12.30  Arend Bos (Groningen, the Netherlands)
Development of manual abilities in preterm infants.

12.30 - 13.10  Two-minute presentations of posters  Chair: Karel Maathuis

13.10 – 14.00  Lunch

14.00 - 15.00  Poster session with tea
Typical and atypical development of visuomotor integration

Chair: Arie Bos

15.00 – 15.40 Janet Atkinson (London, UK)
Dorsal stream and dorsal stream vulnerability in the developing child

15.40 - 16.20 Oliver Braddick (Oxford, UK)
Visual control of action in typical and atypical infant and child development

16.20 - 17.00 Koen Van Braeckel (Groningen, the Netherlands)
Visual and proprioceptive control of action in typically developing and preterm born children at early school age

18.00 – 20.00 Reception & Musical Intermezzo at the main building of the University (“Academiegebouw”),
The reception is offered by the University of Groningen, the Municipality of Groningen and the Province of Groningen

FRIDAY APRIL 20TH

Pathophysiology of impaired hand function in children with cerebral palsy

Chair: John Rothwell

09.00 – 09.40 John Martin (New York, NY, USA)
Pathophysiological mechanisms of impaired limb use after unilateral lesion of the developing brain

09.40 – 10.20 Andrew Gordon (New York, NY, USA)
Pathophysiology of impaired hand function in children with cerebral palsy.

10.20 – 11.00 Bert Steenbergen (Nijmegen, the Netherlands)
Impaired motor planning and motor imagery in children with cerebral palsy

11.00 - 11.30 Coffee / tea
Visuomotor integration in children with cerebral palsy
Chair: Janet Atkinson
11.30 – 12.10 Andrea Guzzetta (Pisa, Italy)
Plasticity of the visual system after early brain damage

12.10 – 12.50 Geert Savelsbergh (Amsterdam, the Netherlands)
Effect of vision on upper limb activity in children with unilateral spastic cerebral palsy

12.50 - 13.30 Two-minute presentations of posters  Chair: Mijna Hadders-Algra

13.30 – 14.20 Lunch and Poster session

Intervention to improve manual abilities in children with cerebral palsy
Chair: Andrew Gordon
14.20 - 15.00 Eva Brogren Carlberg (Stockholm, Sweden)
Goal setting as a means to improve skills

15.00 – 15.20 Pauline Aarts (Nijmegen, the Netherlands)
Pros and cons of constraint-induced movement therapy in children with cerebral palsy

15.20 – 15.40 Lucianne Speth (Valkenburg, the Netherlands)
Pros and cons of treatment with botulinum A toxin on upper limb activity in children with cerebral palsy

15.40 – 16.10 coffee / tea

16.10 – 16.30 Mick Kreulen (Amsterdam, the Netherlands)
Functional effects of surgery of the spastic hand in children with cerebral palsy

Chair: Bert Steenbergen
16.30 – 17.10 Doreen Bartlett (London, ON, Canada)
Intervention in children with cerebral palsy: lessons from the Move & Play study

18.00 Departure for dinner at the Piloersemaborg te Den Ham
SATURDAY APRIL 21ST

Manual skills in children with Developmental Coordination Disorder (DCD)

Chair: Mija Hadders-Algra

09.00 – 09.40 Bouwien Smits-Engelsman (Leuven, Belgium)
Pathophysiology of impaired hand function in children with DCD

09.40 – 10.00 Lieke Peters (Groningen, the Netherlands)
Neurological correlates of DCD

10.00 – 10.20 Jessika van Hoorn (Groningen, the Netherlands)
Neurological correlates of dysgraphia and impaired visuomotor integration

10.20 - 10.50 Coffee / tea

Chair: Geert Savelsbergh

10.50 – 11.30 Peter Wilson (Melbourne, Australia)
Effect of sensory impairments on manual abilities in children with DCD

11.30 – 12.10 John Cairney (Hamilton, ON, Canada)
DCD: long-term consequences for participation

12.10 – 13.15 Forum Discussion:
How can we improve manual skills in children with developmental motor disorders?

13.15 Take away lunch