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 Atkinsor	
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 Gordo	n
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 Steenberg	gen
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: Mijna 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	