

Wednesday 5 June – Academic program details

Aula Academica Ghent University, Voldersstraat 9, Gent

17:00-17:30

Opening of DCD15-IMDRC6

- Welcome by the conference organisers
- Welcome by Prof. Mieke Van Herreweghe, Vice-Rector of Ghent University
- Welcome by the chairs of ISRA-DCD (Jill Zwicker) and I-MDRC (Matthieu Lenoir)

17:30-18:20

Keynote – Prof. Bernard Dan: Towards the end of disability?

Chair: Lynn Bar-On

18:20-20:30

Welcome Reception featuring local culinary delights

Thursday 6 June – Academic program details

De Bijloke, Bijlokekaai 7, Gent

07:15-08:15 Morning walk

An invigorating morning walk guided by Matthieu, who will show you the city's most iconic, cultural and historical landmarks.

You can register via the registration platform.

Meeting place: in front of [Saint Bavo Cathedral](#).

09:00-09:50

CONCERTZAAL

Keynote – Prof. Ellen Beate Hansen Sandseter: Children's risky play – thrilling experiences and developmental benefit

Chair: Lisa Barnett

09:50-10:30

FOYER

Coffee break

10:30-12:00

S1 – International insights: Toddler motor skills across diverse cultures and early childhood education and care environments

CONCERTZAAL

Eline Coppens, Clarice Martins, Arja Sääkslahti, Helena Sienaert, Matthieu Lenoir

PS1 – Assessment 1

KRAAKHUIS

Chair: Lynn Bar-On

98 The Movement ABC-3 Test: Rationale for the new edition

Sheila Henderson, Anna Barnett

22 The Movement ABC-3 Checklist: A new focus on impact

Anna Barnett, Sheila Henderson

250 Investigating the utility of a kinematic assessment to track the maturation of visuomotor control in middle childhood

Ewa Niechwiej-Szwedo, Lisa Christian

92 Virtual Reality as a Tool for the Evaluation of Developmental Coordination Disorder

Huajing Li

138 Qualitative evaluation of paper-cutting performance between children with Developmental Coordination Disorder and typically developing children

Leila Faber, Suzanne Houwen, Esther Hartman, Marina Schoemaker

110 Assessment of motor competence in schoolchildren: Reliability of the Alfamov app.

Aida Carballo-Fazanes, Eva Santos-Miranda, Ezequiel Rey, Cristina Varela-Casal, Cristian Abelairas-Gómez

289 Making full use of what's inside the box to rethink outside the box using sensor data to establish single metrics for quality of children's movement

Gareth Stratton, Nils Swindell, Claire Barnes, Richard Tyler, Paul Rees, Huw Summers

PS2 – Underlying mechanisms 1

REFTER

Chair: Frederik Deconinck

171 The challenge of rhythmic motor task automatization in children with Developmental Coordination Disorder: A systematic review

Michelle Verhoeven, Frederik Deconinck, Ruth Van der Looven, Lynn Bar-On

313 Exploring the role of motor competence on executive function in the first childhood

Ana Nogueira, Michael Duncan, Sara Ribeiro, Sara Santos, Maria João Lagoa

307 Obstacle crossing during various dual task conditions in children with developmental coordination disorder and typically developing children

Ludvík Valtr, Zdeněk Svoboda, Lucia Bizovská, Tomáš Klein, Kamila Banátová, Reza Abdollahipour, Peter Wilson

263 Brain activation associated with a virtual decision-making task in children with and without developmental coordination disorder: an fMRI study

Victoria Rapos, Michael Cinelli, Janice Eng, Jill Zwicker

259 The impact of inattention on the neuro-structural profile of children with DCD- a multimodal MRI investigation

Christian Hyde, Ian Fuelscher, Pam Barhoun, Kaila Bianco, Jarrad Lum, Peter Enticott, Jacqueline Williams, Karen Caeyenberghs, Tim Silk

261 A 'crash' course in understanding collision avoidance strategies in children with and without developmental coordination disorder

Victoria Rapos, Farah Azim, Beatrice Gonzales, Tim Bhatnagar, Michael Cinelli, Janice Eng, Jill Zwicker

346 Interlimb coordination in human newborn

Arthur Dewolf

PS3 – Motor competence, associations with physical activity

ANATOMISCH THEATER

Chair: An De Meester

305 24-hour movement behaviours in children with and without suspected DCD and associations with fundamental movement skills: the Moves-UP project

Nils Swindell, Chelsea Starbuck, Siqi Jin, Harriet Barker, Gemma Thomas, Jimena Rueda-Hernandez, Catherine Crosby, Claire Barnes, Huw Summers, Gareth Stratton

329 The relationship between physical activity and motor competence of Foundation Phase children in Wales during the school day

Amanda John, Nalda Wainwright, Jackie Goodway, Andy Williams

72 Children with high actual and perceived motor skill competence are more physically active

Lisa Barnett, Simone J.J.M. Verswijveren, Nicola Ridgers, Maike Tietjens, Natalie Lander, Gavin Abbott

103 Youngsters' engagement in physical activity and sports: exploring the role of perceived motor competence, competence satisfaction, and motivation

An De Meester, Cristina Menescardi, Isaac Estevan

323 The association of motor competence, health-related fitness, and perceived sport competence with dropout from organized sports during adolescence

Iris Kolunsarka

12:00-13:00

FOYER

Lunch break

13:00-14:30

S2 – A cross-country comparison of the impact of Developmental Coordination Disorder (DCD)

CONCERTZAAL

Amy De Roubaix, Ann Desmyter, Jill Zwicker, Priscilla Tamplain, Charikleia Sinani, Kine Johansen, Kate Wilmut, Melissa Licari

PS4 – Assessment 2

KRAAKHUIS

Chair: Hilde Van Waelvelde

NS8 Multidisciplinary DCD Diagnostic Clinic – One Stop Shop is a success with families

Amanda Farrell

226 Key motor skill deficits in children with probable Developmental Coordination Disorder based on the Movement Assessment Battery for Children

Evi Verbecque, Marisja Denyssen, Ludvik Valtr, Dané Coetzee, Emmanuel Bonney, Bouwien Smits-Engelsman

21 Detailed Assessment of Speed of Handwriting – Second Edition (DASH-2): An update with a focus on DCD

Anna Barnett, Sheila Henderson

109 The PERFORMANCE and FITNESS Test Battery: An alternative test to measure motor skills and fitness for school-aged children in low-resourced areas.

Bouwien Smits-Engelsman, Dané Coetzee, Marisja Denyssen, Gillian Ferguson, Oluwakemi Adebukola Ituen, Dorothee Jelsma, Tatiane Targino Gomes Draghi, Rosemary Doe-Asinyo, Faiçal Farhat, Ludvík Valtr, Paula Rodrigues, Evi Verbecque

129 Pretesting and piloting a motor creativity tool in Finnish children

Elina Meklin, Donna Niemistö, Nanne-Mari Luukkainen, Arja Sääkslahti, Arto Laukkanen

243 Design and validation of a short form of the Dragon Challenge Assessment of children's physical competence

Harriet Barker, Amie Richards, Emily Williams, Richard Tyler, Joanne Hudson, Nils Swindell, Gareth Stratton

255 Building process of a psychomotor circuit for children aged 4 to 7, first steps of validation

Amélie Brau, Achraf Abdelmoula, Laurence Amand, Bérengère Aulit, Estelle Balan, Elise Bossut, Boris Jidovtseff, Willy Lahaye, Alexandre Mouton, Pierre Van Luchene, Benoît Vercruysse, Sylvie Herreman

PS5 – Underlying mechanisms 2**REFTER**

Chair: Peter Wilson

58 Motor learning in trouble! Research in adults with Developmental Coordination Disorder

Arthur De Raeve, Mireille Augustijn, Frederik J.A. Deconinck

206 The DCD brain: research into neuroplasticity and motor learning in adults with DCD

Mireille J.C.M. Augustijn, Helena Verhelst, Griet Warlop, Frederik J.A. Deconinck

306 Investigating brain-muscle communication in children with Developmental Coordination Disorder (DCD)

Maaïke Esselaar, Johnny Parr, Emma Hodson-Tole, Greg Wood

328 The neural basis of motor sequence control in individuals with Dyspraxia/Developmental Coordination Disorder (DCD)

Helena Wright, Rhys Yewbrey, Kate Wilmut, Katja Kornysheva

267 Atypical motor imagery performance in children with developmental coordination disorder is associated with differences in regional grey matter volume

Mugdha Mukherjee, Christian Hyde, Pamela Barhoun, Kaila Bianco, Jessica Waugh, Jarrad Lum, Peter Enticott, Timothy Silk, Karen Caeyenberghs, Ian Fuelscher

265 Motor and visual imagery in children with and without developmental coordination disorder: New insights into mental rotation performance

Pamela Barhoun, Ian Fuelscher, Kaila Bianco, Mugdha Mukherjee, Jacqueline Williams, Christian Hyde

258 The brain in action! Neurobiological mechanisms of physical activity in children with Developmental Coordination Disorder

*Ian Fuelscher, Jessica Waugh, Mugdha Mukherjee, Pamela Barhoun, Kaila Bianco, Jarrad Lum, Peter Enticott, Karen Caeyenberghs, Tim Silk, Christian Hyde***PS6 – Motor competence, longitudinal****ANATOMISCH THEATER**

Chair: Lisa Barnett

314 Association between physical activity, motor skills, executive function and behavioral self-regulation in Brazilian median-low-income preschoolers

Natália Lemos, Valerie Carson, Jessica Mota, Pablo Silva, Andressa Bispo, Lívia Gois, Karoline Araújo, Glacithane Cunha, Morgana Alves, Paulo Bandeira, Fernando Lemos, Clarice Martins

278 Persistence of motor-cognitive inhibition deficits in children with developmental coordination disorder (DCD) with age: A longitudinal perspective

Reza Abdollahipour, Ludvík Valtr, Kamila Banátová, Lucia Bizovská, Tomáš Klein, Zdeněk Svoboda, Bert Steenbergen, Peter Wilson

198 A four-year longitudinal study of relationships among actual and perceived motor competencies and physical activity in Spanish Primary School children

Jorge Romero-Martínez, Sergio Montalt-García, Nuria Ortega-Benavent, Cristina Menescardi, Xavier García-Massó, Isaac Estevan

147 Low perceived motor competence profiles in childhood and their associated factors in late childhood: A longitudinal study

Donna Niemistö, Asko Tolvanen, Arja Sääkslahti, Arto Laukkanen

178 Healthy development of children: a spiral of (dis)engagement?

A.R. den Uil, V. Busch, M. Janssen, R.H.J. Scholte

14:45-15:45 Moderated electronic poster session + coffee

FOYER

PO1A

Chair: Suzanne Houwen

151 Manual dexterity abilities and dual tasking in children with Developmental Coordination Disorder and typically developing children

Eleonora Bieber

114 Rhythmic processing in children with dysgraphia associated with DCD and/or DD

Margaux Lê, Marianne Jover, Jeremy Danna, Celine Benois, Chloe Di Meglio, Aline Frey

312 DTW Analysis in the examination of the characteristics of the DCD poor handwriting: comparison with Typically Developing (TD) primary school children

Elisa De Francesco, Barbara Caravale, Ludovica Risoldi, Chiara Tracina, Carlo Di Brina

94 Kinetics and kinematics of shape tracing in children with Developmental Coordination Disorder (DCD)

Michal Hochhauser, Michael Wagner, Rachel Bartov

209 Tablet-based drawing assessment in preschool children: I. Basic features of handwriting skills

Yosuke Kita, Yasuko Okumura, Yuka Shirakawa, Miyuki Fujiwara, Hidehiko Matsumoto, Sora Hirose, Ken Kikuchi, Hisakazu Morofuji

210 Tablet-based drawing assessment in preschool children: II. Assessment norm to identify children at-risk of handwriting difficulty

Yasuko Okumura, Yosuke Kita, Yuka Shirakawa, Miyuki Fujiwara, Hidehiko Matsumoto, Sora Hirose, Ken Kikuchi, Hisakazu Morofuji,

187 Measurement estimation abilities in children with developmental coordination disorder (DCD)

Bert Reynvoet, Joke Hufkens, Koen Luwel, Ilse Tydgat, Delphine Sasanguie

249 Re-Validation of the MoMo-test profile (Test-Retest-Reliability)

Anke Hanssen-Doose, Katharina Hotz, Sarah Heinisch, Claudia Niessner, Elena Schlag, Annette Worth

254 Content validity by experts of a physical literacy questionnaire for children aged 4 to 7: a mixed-methods study

Amélie Brau, Sylvie Herreman, Achraf Abdelmoula, Bérengère Aulit, Laurence Amand, Estelle Balan, Benoît Vercauteren, Pierre Van Luchene, Alexandre Mouton, Willy Lahaye, Elise Bossut, Boris Jidovtseff

285 Which test is best? Gross motor function of preterm-born children according to Gestational Age and Assessment Age: A scoping review

Ankita Surpal, Leanne Johnston, Laura Brown, Elizabeth Hurrion

111 Estimating dyspraxia and associated factors among children in Hong Kong

Catherine M. Capio, Kathlyne F. Eguia, Sum Kwing Cheung, Kevin K.H. Chung

185 Beyond boundaries: The MOJREdata eResearch infrastructure and its role in enhancing motor performance research through sensitive data pooling

Claudia Niessner, Katja Klemm, Tanja Eberhardt, Hannah Kron, Klaus Boes, Alexander Woll

196 Secular trends in physical fitness of children since 2012: An analysis of pooled data with the database MOJREdata

Tanja Eberhardt, Klaus Bös, Alexander Woll, Reinhold Kliegl, Claudia Niessner

70 Comparing three measures of children's run speed

Kara Palmer, Aaron Wood, John Adams, Martin J. Clynes, Morgan Horvath, Leah Robinson, Karin Pfeiffer, Leesi George-Komi

49 The association between the Ages & Stages questionnaire and fundamental motor skills in preschool-aged children

Jerraco Johnson, Kacie Gray, Mitch Kay, Crystal Alvarez, Katie Breault, Priscila Tamplain

35 Psychometric properties of the Italian Little Developmental Coordination Disorder Questionnaire (LDCDQ-IT)

Barbara Caravale, Silvia Baldi, Anna Di Norcia, Maria Teresa Giannini, Carlo Di Brina, Tanya Rihtman

279 Diagnostic validity of the short version of the German Bruininks-Oseretsky Test of Motor Proficiency for Developmental Coordination Disorder

Iva Šeflová

39 Assessment Battery for Children with Developmental Coordination Disorder (ABCD): Preliminary report of tool development and clinical application

Srilatha Girish, Kavitha Raja, Saumen Gupta

230 Analysis and visualisation of children's movement using wearable sensors and unsupervised machine learning

Huw Summers

352 Checks and balances: a meta-analysis on the known-groups validity of functional postural control tests in children

Jorn Ockerman, Silke Velghe, Anke Van Bladel, Edouard Auvinet, Jelle Saldien, Katrijn Klingels, Lynn Bar-On, Evi Verbecque

PO1B

Chair: Mireille Augustijn

237 Upcoming study: The effects of Animal Flow training on motor competences, physical fitness and cognitive flexibility in military personnel

Jáchym Šimsa, Martin Musálek

102 An evidence summary developed by a community of practice Mind the Gap! A knowledge translation technique

Carolyn Dunford, Hortensia Gimeno, Anne Corbett

236 Preservice and newly qualified physical education teachers' understanding of planning for teaching fundamental movement skills.

Cathal Óg O'Sullivan, Helena Baert, Emily Gilbert

292 Is storytelling in motion a possible methodology for motor development?

Patrizia Tortella, Monia Trovato

28 Changes in preschoolers' perceived physical and motor competence following a mastery-based motor skill intervention

Leah Robinson, Kara Palmer, Lu Wang, Zhongzhe Ouyang, David Stodden

334 A network between physical activity, fundamental motor skills, fitness and body mass index after an intervention program with preschoolers

Natália Lima Quirino, Taís Feitosa da Silva, Clarice Maria Martins

139 Pilot of a teacher training intervention focused on physical education pedagogies to foster motor competence and motivation in primary school children

Matteo Crotti, Lorayne Angela Woodfield, Michael Duncan

143 The impact of swimming on fundamental movement skill development in children (3–11 Years): A systematic literature review

Clare Roscoe, Lauren Sinclair

299 The use of wearables to inform interventions to improve movement quality for children with poor movement skills or DCD_ The Moves-UP Project

Claire Barnes, Richard Metcalfe, Emily F. Williams, Nils J. Swindell, Chelsea Starbuck, Hannah Barker, Huw D. Summers, Gareth Stratton

273 From classroom to playground: Investigating the educational background of Flemish child caregivers through the lenses of motor and risk competence

Laure Geirnaert, Felien Laureys, Jochen Devlieghere, Matthieu Lenoir, Eline Coppens

235 Understanding and modelling children's outdoor activities based on interdisciplinary research

Boris Jidovtseff, Elodie Razy, Elodie Willemsen, Andora Vidal, Elodie Pools, Joëlle Mottint, Anne-Françoise Dusart, Florence Pirard

18 Playful activities and cooperative games to improve the movement and inclusion of students with developmental coordination disorder

Daniela Godoi, Carlos Alberto De Simone, Tiago Toledo, Ludinalva Mendes, Jorge Alberto Oliveira

165 Characteristics of the outdoor environment affording physical and social activity in children 3-7 years: A systematic review.

Nicola Taylor, Andy Pringle, Clare Roscoe

207 How are individual contextual factors associated with fundamental motor skills in preschool-age children over time?

Kip Webster, Kevin Becker, Dimetri Brandon, Amanda Staiano

331 Fundamental motor skills of urban and rural Brazilian preschoolers

Lais Barros

162 A systematic review of procedural perceptual-motor learning in neurodevelopmental disorders: Which place for motor disorders?

Elodie Martin, Sarah Seiwert, Ysia Clausses, Jessica Tallet

37 Development and pretesting of a new tool: Motor Learning Parenting Questionnaire (MOPA-Quest)

Arto Laukkanen

122 Application of learning strategies by children with DCD and their parents at home

Emma van Rooijen, Fokke Fennema, Heleen Reinders-Messelink, Marina Schoemaker

86 Improving motor skills in DCD: a case study applying Neuromotor Task Training (NTT) on buttoning activity with an 8-year-Old child

Celine Foucras, Eugénie Condomines

149 How can therapists use motor learning strategies to promote implicit and explicit motor learning in children?

Ingrid van der Veer, Caroline Bastiaenen, Eugene Rameckers, Katrijn Klingels

PO1C

Chair: Eline Coppens

73 Longitudinal relationship between organised and non-organised physical activities and motor competence in children aged 3–11 years

Nanne-Mari Luukkainen, Arto Laukkanen, Donna Niemistö, Arja Sääkslahti

148 Development of 3-to-5-year-old children at risk of Developmental Coordination Disorder: a longitudinal observational study

Amy De Roubaix, Lynn Bar-On, Griet Dewitte, Nina Vens, Franny Faes, Jill G. Zwicker, Bernard Dan, Herbert Roeyers, Dominique Van de Velde, Hilde Van Waelvelde

62 Over-time change in physical and mental health in Taiwanese children with developmental coordination disorder

Yao-Chuen Li, Sheng Wu

47 Childhood Motor Difficulties and Physical Activity and Fitness in Midlife: A 40-Year Cohort Study

Ilkka Järvinen, Jyrki Launes, Working Group - The Perinatal Adverse Events and Special Trends in Cognitive Trajectory (PLASTICITY), Laura Hokkanen

297 Relational systems and network modeling: theoretical and methodological perspective for examining active and healthy performance across the lifespan

Maria Teresa Cattuzzo, Ariane B D Santos, Albert L O Tertuliano, Debora A A Oliveira, Nathalia N Silva, Anderson H P Feitoza

69 How does screen access and screen time rules relate to objectively-measured child physical activity and parent-reported screen time?

Kara Palmer, Imani Drame, E. Kip Webster, Leah Robinson

80 Self-perception and participation in physical activity in children with and without DCD: A longitudinal study

Vicky McQuillan, Ruth Swanwick, David Sugden

233 Motor performance and fitness in a random group of children attending special and regular primary schools

Dorothee Jelsma

277 Do undernourished children have a specific physical fitness and motor skill profile? A systematic review and meta-analysis:

Yabsra Dubale, Tefera Belachew Lemma, Beyene Wondafrash Ademe, Eugene Rameckers, Evi Verbecque

59 Influence of sociodemographic factors on muscular fitness of primary school children in South Africa

Xonné Muller, Anita E Pienaar, Barry Gerber, Colin Moran, Naomi E Brooks

211 The relationship between perceived motor competence and musculoskeletal fitness: the role of behavioural regulations in sport and exercise

Federico Mollame, Simona Nicolosi, Ryan Hulteen, Soraya Pinto, Rosaria Schembri, Francesco Sgro'

127 Repeated sprinting, fatigue, power, and agility in children with different levels of motor competence

Dané Coetzee, Marisja Denyssen, Bouwien Smits-Englsman

270 Physical literacy, physical activity, and health: Quantitative investigation into a holistic model of physical literacy

Richard Tyler, Caitlin Miller, Lisa Barnett, Stuart Fairclough, Mhairi MacDonald

247 A longitudinal case study: Transition from spontaneous movements to motor milestones through behavioral and movement analysis

Priya Patel, Do Kyeong Lee

337 Persisting primitive reflexes: an overlooked factor for motor and cognitive difficulties

Adam Provazník, Tomáš Větrovský, Martin Musálek, Luis Paulo Rodriguez, Ana Filipa Silva

167 Exploring the relation between GMFM scores and orientation preferences in infants during free play

Marziyeh Shabani, Julie Schneider, Emily Marcinowski

163 Born ahead of time - prematurity, its functional consequences and the challenges of research in Brazil

Lívia C Magalhães, Larissa A Godinho, Lilian Barbosa, Maene Silva, Lorena Sales, Alessandra Cavalcanti, Iasmin Maia, Maíra Amaral

246 Environmental and individual influences on infant motor development: A systematic review

Priya Patel, Brittany Rodriguez, Anelisa Razo-Castaneda, Garrett Deiro

351 The interaction of dyadic positioning, orientation, and locomotion during play between an infant and their parent.

Emily Marcinowski, Marziyeh Shabani, Julie Schneider

PO1D

Chair: Ryan Sacko

280 Exploring the intricate relationships between preschool children's gross motor skills and body composition

Sharnay Botha

176 Motor competence and metabolic health in children

Daniel Chagas, Lívia Oliveira, Larissa Almeida, Blena Marinho, Maria Joia, Maria Peixinho, Cecilia Lacroix, Fernanda Jannuzzi, Ariel Rezende, Paulo Solberg, Isabel Madeira

137 Gender invariance of the TGMD-3 in Greek children

Maria Karageorgopoulou, Antonis Kambas, Fotini Venetsanou, Nadia Cristina Valentini, Martha Spanou, Kostas Soutos, Sofoklis Sotiriou

268 How is socioeconomic status associated with fundamental motor skills in preschool-age children over time.

Dimetri Brandon, Kevin Becker, Amanda E. Staiano, E. Kipling Webster

29 Do children with motor impairments have lower levels of physical activity and physical literacy than their typically developing peers?

Lydia Stagianni, Apostolos Stagiannis, Vasiliki Kaioglou, Antonios Kambas, Fotini Venetsanou, Thomas Kourtesis

294 Paediatric anterior cruciate ligament injuries - Exploring the potential role of movement skill proficiency as indicator for injury risk

Theresa Heering, Jason Tallis, Natalie Lander, Lisa Barnett, Michael Duncan

232 Young children's compliance with the WHO 24-h movement guidelines and its association with their development: a review of the SUNRISE project findings

Konstantina Trampa, Nikolaos Lazarou, Emmanouil Emmanouil, Dimitris Vlachopoulos, Fotini Venetsanou

124 Understanding the Use of Motor Competence Assessments in Australian Primary Physical Education: A Qualitative Study

Samantha Snow, Lisa Barnett, Trent Brown, Jo Salmon, Natalie Lander

146 Relationship between grassroots footballers' physical, technical and tactical skills, perceived competence and decision-making and execution in SSGs

William Pattison, Eileen Africa, Lucas Guimaraes Ferreira, Michael Duncan

161 Understanding the impact of sex and year of training on musculoskeletal fitness components in youth water polo players

Francesco Sgro', Mario Lipoma, Michele Barca, Antonella Quinto, Chiara Branciforte

30 Effects of conditioned and non-conditioned small-sided games on young female footballers' motor behaviour

Asier Gonzalez-Artetxe, Oihan Esnal-Arrizabalaga, Sara Lombardero, Asier Los Arcos

224 Fundamental movement skills in grassroots soccer: a comparative study of coaches' perceptions and practices in 9 European countries

Laurens Gilson, Ricardo Martins, Matteo Crotti, Christian Thue Bjørndal, James Rudd, Siv Gjesdal, Maxime Beuckels, Morten Bredsgaard Randers, André Seabra, Mikko Julin, Jakub Kokstejn, Martin Musalek, Stephen Behan, Aine Macnamara, Liam Sweeney, Nicola Lovecchio, Farid Bardid, Anthony Weldon, Matthieu Lenoir, Michael Duncan

332 Associations among mother-daughter maturational timing, clothing-specific body image social Physique Anxiety (SPA) and sport type

Eva Monsma

281 Fundamental movement skills in grassroots soccer: Voices of 9 European countries on knowledge, resources, and barriers to implementation in practice

Ricardo Martins, Matteo Crotti, Christian Bjørndal, James Rudd, Siv Gjesdal, Matthieu Lenoir, Laurens Gilson, Maxime Beuckels, Morten Randers, André Seabra, Mikko Julin, Jakub Kokstejn, Martin Musalek, Stephen Behan, Aine Macnamara, Liam Sweeney, Nicola Lovecchio, Farid Bardid, Anthony Weldon, Michael Duncan

52 Developing a virtual reality screening tool for DCD

Gavin Buckingham

131 Assessing the perceptions of children with Developmental Coordination Disorder for virtual reality sports games: A patient and public involvement

Mohammed Alharbi, David Harris, Greg Wood, Helen Dodd, Gavin Buckingham

- 164 An individually tailored virtual reality intervention in children with Developmental Coordination Disorder – An intervention protocol
Maja Van Grinderbeek, Alessandro Crippa, Pieter Meyns, Katrijn Klingels, Evi Verbecque
- 166 Impact of virtual movement analysis skills in physical education teacher education
Helena Baert, Emily Baert, Cathal O'Sullivan
- 64 Effectiveness of catch-ball training using virtual reality technology
Masatoshi Katagiri, Kana Hlgashitani

16:00-17:15

PS7 – Play, risk, outdoor

CONCERTZAAL

Chair: Kristine De Martelaer

- 83 Fundamental movements and physical affordances children use for physically active play in different seasons
Susanna Iivonen, Donna Niemistö, Arja Sääkslahti
- 68 Parental estimations of children's behaviors in different risk scenarios
Rita Cordovil, Carolina Burnay, Chris Button, David Anderson, João Barreiros
- 144 How do children use playgrounds: Do fundamental movement skills play a part?
Amy Stringer, Matteo Crotti, Michael Duncan
- 286 Exploring the impact of obstacle courses on motor competence and autonomous motivation in physical education classes: an intervention study.
Elly van Hyfte, Eline Coppens, Delphine Sasanguie, Kristine De Martelaer, Leen Haerens, Matthieu Lenoir
- 260 The relationship between toddlers' motor competence, cognition and socio-emotional functioning.
Lisa Mertens, Eline Coppens, Matthieu Lenoir, Eva D'Hondt

PS8 – Transdiagnostics

KRAAKHUIS

Chair: Amanda Kirby

- 175 Motor difficulties in children with autism: Prevalence and associations with social-communicative challenges and stereotyped and repetitive behaviour.
Sofie Boterberg, Herbert Roeyers
- 157 Movement pattern classification for children with autism using an instrumented sock: the DANS project
Pieter Bauwens, Paula Veske, Sofie Boterberg, Frank Deruyck, Cornelis Stal, Sheilla Odhiambo, Herbert Roeyers
- 133 Motor profiles and prevalence of co-occurring developmental coordination disorder in children with autism spectrum disorder
Tine Van Damme
- 118 Characterizing goal-directed whole-body movements in autistic children and children with Developmental Coordination Disorder
Nicholas E Fears, Stacey B Hirsch, Priscila M Tamplain, Tylan N. Templin, Gabriela M Sherrod, Nicoleta L Bugnariu, Rita M Patterson, Haylie L Miller

223 Quality of life in children with Developmental Coordination Disorder and co-occurring ADHD

Gayatri Kumar, Christian Hyde, Ian Fuelscher, Pam Barhoun, Jill Zwicker

66 A scoping review of differences between DCD, ADHD, and co-occurring DCD and ADHD

Emily J. Meachon, Agnes M. Detert, Nadja Schott, Kate Wilmut, Alexander Grob

PS9 – Motor competence, associated factors

ANATOMISCH THEATER

Chair: Fotini Venetsanou

91 Association of developmental coordination disorder with early-life exposure to fine particulate matter in Chinese preschoolers

Vivienne Du, Jing Hua, Jing Cai, Anna Barnett

135 The influence of parenting style on the action possibilities of two-years-old children

Stefania Zoia, Aurora Platè, Erica Dragonetti, Sara Mattanza, Camilla Pege, Irene Leo

229 Relationships among motor proficiency, BMI, sports participation, and non-verbal intelligence in Czech children (Ages 6–11)

Martin Musalek, Jan Chrudimský, Chipu Malambo, Šárka Vokounová, Radka Bačáková, Jakub Kokštejn

9 Objective and subjective daily participation mediate the relationship between DCD and quality of life

Shahar Zaguri-Vittenberg, Miri Tal-Saban, Naomi Weintraub

130 Motor function, linguistic ability, and related neurodevelopmental disorders in children with familial high-risk of schizophrenia or bipolar disorder

Marta Schiavon, Hanne Birgitte Klee Burton, Nicoline Hemager, Aja Nedergaard Greve, Katrine S. Spang, Ditte Ellersgaard, Kerstin Jessica Plessen, Jens Richardt M. Jepsen, Anne Amalie Elgaard Thorup, Merete Nordentoft, Ron Nudel

PS10 – Balance

REFTER

Chair: Marine Schoemaker

77 Construct validity of the Athlete Introductory Movement Screen in children aged 11-13 years

Michael Duncan, Matteo Crotti, Ricardo Martins, Lucas Guimaraes-Ferreira, Jason Tallis, William Pattison

354 Known-groups validity, sensitivity, and specificity of the extended and age-specific Balance Evaluation Systems Test for children (Kids-BESTest-2)

Evi Verbecque, Maja Van Grinderbeek, Katrijn Klingels, Pieter Meyns, Charlotte Johnson, Ann Halleman

340 The vestibular system in children with neurodevelopmental disorders: a neglected sense?

Ruth Van Hecke, Emmely Van Acker, Frederik J.A. Deconinck, Maya Danneels, Ingeborg Dhooge, Hilde Van Waelvelde, Jan R. Wiersema, Leen Maes

355 Is there a continuum of balance performance between developmental coordination disorder, cerebral palsy, and typical development?

Charlotte Johnson, Ann Halleman, Pieter Meyns, Silke Velghe, Nina Jacobs, Evi Verbecque, Katrijn Klingels

20 Motor planning in early childhood: Is there hysteresis in posture selection in preschool children?

Cornelia Frank, Christoph Schuetz

194 A highly intensive balance training camp can improve balance deficits and self-identified goals in children with DCD - preliminary results

Silke Velghe, Eugene Rameckers, Maja Van Grinderbeek, Pieter Meyns, Evi Verbecque, Katrijn Klingels

17:30-18:20

CONCERTZAAL

Keynote - Dr. Bradley King: When children outperform young adults: Examinations into the neural underpinnings of childhood advantages in motor learning

Chair: Frederik Deconinck

18:30-19:30 Boat tour

Experience Ghent's enchanting beauty from a new angle with a captivating boat tour. Glide along scenic canals, admiring historic architecture mirrored in tranquil waters. Let the knowledgeable guides regale you with tales of Ghent's rich history and culture, transporting you to another era.

Discover hidden gems and iconic landmarks, from majestic cathedrals to charming cobblestone streets. Whether you're a first-time visitor or a seasoned traveler, the tours offer a unique perspective on this captivating city.

The boat departs from the conference venue (Bijloke) and docks at the picturesque Graslei.

Cost: 19.00 euro/person

You can register via the registration platform.

19:30-21:30 Junior-Senior Meet Up

Join us for a social gathering, especially for our early career participants, to get to know each other, discuss challenges and frustrations, and share ideas about novel research directions over a bite and a drink (please order your own at the bar) in local pub. Senior participants are also warmly welcome!

Venue: Graslei

Friday 7 June – Academic program details

De Bijloke, Bijlokekaai 7, Gent

07:15-08:15 Morning run

A refreshing morning run with Frederik. Starting from the conference venue (Bijloke), we will either head to Blaarmeersen Park or tour the city canals, decided by a democratic vote. Given our busy day of science ahead, we will maintain a leisurely pace of approximately 6'30"/km. Total distance: 5-7 km.

You can register via the registration platform.

Meeting place: Conference venue (Bijloke)

09:00-09:50

CONCERTZAAL

Keynote – Prof. Herbert Roeyers: Known but unloved: Motor difficulties in autism

Chair: Lynn Bar-On

09:50-10:30

FOYER

Coffee break

10:30-12:00

PS11 – Intervention 1

CONCERTZAAL

Chair: Eva D'Hondt

NS5 Improving participation in sports and active play in children with DCD

Hilde Krajenbrink

262 The impact of S.M.I.L.E. on physical literacy among individuals with disabilities

Emily Bremer, Roxanne Seaman, Mary Sweatman, Kelly Arbour-Nicitopoulos,

316 Physical exercise intervention with parents vs. without parents on motor competence in early childhood: GYM4PETIZ program

Maria João Lagoa, Ana Nogueira, Sara Ribeiro, José Oliveira-Santos, Sara Santos

325 Enhancing early motor competence and family physical activity: The impact of the 'Footie Families' programme in Wales

Anna Stevenson, Nalda Wainwright, Andy Williams

327 Effects of a game-based movement education program on the actual and perceived motor competence and physical activity levels in preschool children

Neslisah Yaren Kirci, Suheda Dilay Kizilca, Emine Caglar, Menekse Boz, Erdem Karabulut, Ayda Karaca, Giyasettin Demirhan

105 Improving motor competence of children: The super quinas intervention program

Luis Paulo Rodrigues, Rita Cordovil, Julio Costa, Susana Vale, André Seabra

326 A pilot study to assess the impact of professional development training for Pre-School staff incorporating SKIP-Cymru on children's motor competence.

Nalda Wainwright, Anna Stevenson, Amanda John, Kirsty Thomas

S3 – Assessing Behaviors & Cognition 4 (motor, psychological, social-emotional, cognition)

Physical Education - ABC's 4 PE: A motor assessment focus

KRAAKHUIS

David Stodden, Ryan Hulteen, Aida Carballo Fazanes, Francesco Sgrò, Ryan Sacko

PS12 – Psychosocial factors

ANATOMISCH THEATER

Chair: Jill Zwicker

NS2 Empowerment through fietgoed - Kampjes voor kinderen met DCD

Barbara De Mey

17 Psychosocial implications of impaired motor competence in 12-yr-old boys and girls: The NW CHILD study

Anita Pienaar

87 The relationship between motor competence and cognitive and psychosocial development: Evidence from an intervention study

Catherine M. Capiro, Norman B. Mendoza, Rachel A. Jones, Kerry Lee, Rich S.W. Masters

45 eHealth for mental health in DCD: Can we use Facebook to deliver a parent-mediated physical activity intervention for better mental health?

Jacqueline Williams, Alexandra Parker, Michaela Pascoe, Peter Baldwin, John Cairney, Kate Wilmut, Matthew McQueen, Vincent Mancini

248 Inclusive Exercise Intervention (InExIn) improves socio-emotional competence of preschool children with and without ADHD.

Antonis Kambas, Fotini Venetsanou, Danai Kelaraki, Maria Karageorgopoulou, Kostas Soutos, Sofoklis Sotiriou

96 Improvement in motivation and anxiety among preschoolers with mild developmental disabilities, following sensory-motor intervention

Orit Bart, Bosmat Soref

220 I can decide MyGOALS! Developing an online tool for child-led goal setting using user-centred design

Aisling Ryan, Leanne Johnston (presented by Bronwyn Thompson)

S4 – Combined action observation and motor imagery interventions improve motor skill development and (re)learning across the lifecourse

BAUDELOZAAL

Adam Bruton, David Wright, Samantha Chye, Ashika Chambila Valappil, Neza Grilc

12:00-13:00

FOYER

Lunch break

+

S11 – Special workshop: Data sharing through the international Consortium On Motor Behavior In NEurodivergence (COMBINE) **CONCERTZAAL**

Nicholas E Fears, Priscilla M Tamplain, Haylie L Miller

13:00-14:30

PS13 – Intervention 2

CONCERTZAAL

Chair: Evi Verbecque

NS3 POTTs (Partnering Occupational Therapy Telehealth Services): An innovative approach to service provision for families and individuals with DCD.

Stephen Hodnett

322 Effectiveness of CO-OP in preterm born children with developmental coordination disorder: A diffusion tensor imaging study

Olivia Tsihlias, Margot Mackay, Anne Synnes, Ruth Grunau, Steven Miller, Jill Zwicker

274 Improved motor outcomes and brain functional connectivity after CO-OP in children with co-occurring autism and developmental coordination disorder

Jill Zwicker, Melika Kangarani-Farahani

341 Exploring predictive variables to better occupational performance of children with developmental coordination disorder after the CO-OP approach

Clarice Ribeiro Soares Araujo, Livia de Castro Magalhães, Ana Amélia Cardoso, Helene Polatajko

76 How visual trace modification with digital tools enhances the rehabilitation of dysgraphia in children with DCD?

Jean-François Connan, Marianne Jover, Alexandrine Saint-Cast, Jeremy Danna

136 Longitudinal trajectories of motor competence of autistic children over a 12-month intervention: Effects of symptom severity

E. Andrew Pitchford, Samantha Miller, Franziska Loetzner, Leah Ketcheson

NS4 Application of CO-OP with a child with FASD to address occupational performance goals: A case study

Catherine Hilly

PS14 – Motor Learning

KRAAKHUIS

Chair: Nancy Getchell

48 Visuomotor adaptation in adults with Developmental Coordination Disorder

Marie Martel, Judith Gentle

54 Atypical procedural learning of adults with developmental coordination disorder (DCD): evidence from modulation of neural oscillation

Yulan Yao, Binn Zhang, Zuyang Fan

156 Let's sleep on it: considering neural underpinnings of visuomotor learning and retention after a night of sleep in children with DCD

Griet Warlop, Mireille J. C. M. Augustijn, Emiel Cracco, Jan R. Wiersema, Frederik J. A. Deconinck

33 The Impact of difficulty manipulation and Feedback Frequency on the Acquisition and Retention of Fine-Motor Coordination Tasks in Children

Yousri Elghoul

204 The motivational impact of autonomy support on motor learning of children with and without developmental coordination disorder

Miriam Palomo, Miguel Villa-de Gregorio, Irene Ramon-Otero, Reza Abdollahipour

57 The development of a movement demonstration video library to support motor learning in children with Developmental Coordination Disorder

David Wright, Sally Payne, Paul Holmes, Greg Wood

150 How do pediatric physiotherapists adapt motor learning strategies when teaching motor tasks to children with Developmental Coordination Disorder?

Ingrid van der Veer, Eugene Rameckers, Bert Steenbergen, Caroline Bastiaenen, Katrijn Klingels

PS15 – Early childhood 1	ANATOMISCH THEATER
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Chair: Matthieu Lenoir

330 Which social and physical environmental factors at home are associated with motor competence in typically developing toddlers? – A systematic review

Lore Daelman, Eline Coppens, Lynn Bar-On, Eva D'Hondt

302 Home Sweet Competence: Home affordances and their association with toddler's motor skills and cognitive functioning

Lies Blontrock, Lisa Mertens, Matthieu Lenoir, Eva D'Hondt, Eline Coppens

158 The BabyGrow Project: Predicting infants' social-communication skills from early motor features

Mohammad Saber Sotoodeh, Georgina Donati, Ori Ossmy, Jazmin Hall, Hannah Rowan, Aman Kaur, Gillian Forrester

214 Motor coordination and sensory responsiveness among women and infants: The role in exclusive breastfeeding

Adi Freund Azaria, Tami Bar-Shalita, Rivka Regev, Orit Bart

101 Associations of SGA and LGA with children's suspected Developmental Coordination Disorder: a national cohort study in 551 Chinese cities

Haizhen You, Jing Hua, Wenchong Du

244 A crawling intervention for very premature infants at high risk of neurodevelopmental disorders

Léa Guéret

26 Perceived motor skill teaching competence in parents of children with CHARGE syndrome

Melanie Perreault, Pamela Beach, Lauren Lieberman, Madison Kent, Brooke Wolff

S5 – Validity evidence for the Physical Literacy in Children Questionnaire, a journey without an end **BAUDELOZAAL**

Lisa Barnett, Richard Tyler, Isaac Estevan, Diao Yucul, Mhairi MacDonald, Emiliano Mazzoli

14:45-15:45 Moderated electronic poster session + coffee

FOYER

PO2A

Chair: Lynn Bar-On

240 Integrate therapeutic strategies in comorbidity of DCD and emotional disorders: a multidisciplinary approach

Alessia Tedesco, Marinella Garotta, Silvia Micheli

24 Effectiveness of a motor intervention for children with Autism Spectrum Disorder facilitated by college Physical Education students

Yuemei Lu, Xiaozan Wang

169 Online 3-minute calisthenics improve coordination, core symptoms, emotion, and adaptive behavior in children with neurodevelopmental disorder traits.

Sumiko Okugawa, Akio Nakai

320 Are there differences in rhythmic sensorimotor synchronization deficits between Developmental Coordination Disorder and/or Dyslexia?

Anais Desbernats, Mélody Blais, Margaux Lê, Mélanie Jucla, Jessica Tallet

266 Motor imagery in individuals with Cerebral Palsy: A systematic and meta-analytic review of hand-rotation task performance

Pamela Barhoun, Ian Fuelscher, Michael Do, Catherine Emerson, Kaila Bianco, Mervyn Singh, Hannah Portogallo, Jacqueline Williams, Emily Kothe, Soukayna Bekkali, Christian Hyde

293 Motor imagery in children with Unilateral Cerebral Palsy (UCP) and Developmental Coordination Disorder (DCD) using hand rotation task: a pilot study.

Giada Martini, Eleonora Bieber, Elena Beani, Katrijn Klingels, Hilde Feys, Giovanni Cioni, Giuseppina Sgandurra

53 Children with Developmental Coordination Disorder and Autism Spectrum Disorders show similar profiles in the Sensory Organization Test

Crystal Alvarez

349 Using a transdiagnostic approach to understand motor behavior: Preliminary results of the COMBINE (Consortium for Motor Behavior in Neurodivergence)

Priscila Tamplain, Nicholas Fears, Haylie Miller

200 Motor difficulties in autism: is it co-occurring developmental coordination disorder? Report from a cross-national study in Belgian and Italian children

Alessandro Crippa, Charlotte Johnson, Gaia Scaccabarozzi, Massimo Molteni, Ann Hallemans, Pieter Meyns, Evi Verbecque, Katrijn Klingels

205 Motor profiles and indication of Developmental Coordination Disorder (DCD) in children diagnosed with Childhood Apraxia of Speech (CAS) in the USA

Priscila Tamplain, Justine Phan, Peyton Johnson, Kassandra Miranda, Jenya Iuzzini-Seigel

234 Association between Developmental Coordination Disorder traits, Autism Spectrum Disorder, and emotional/behavioral problems among preschool children

Sumika Fujisawa, Aya Saito, Akio Nakai

126 Enhancing early diagnosis of Autism Spectrum Disorder with machine learning algorithms using postural control features

Ting Liu, Ila Wallace, Hayden Cressman, Rachel Koldenhoven, Yumeng Li, Damian Valles

291 How accurate are parent perceptions of physical activity for children with and without autism?

Kerri Staples, Jessica Doty, Leah Ketcheson

NS11 DCD and ASD; implications of high co-occurrence in our community children's service

Heather Turpin

NS13 Raising awareness of motor impairment with fetal alcohol spectrum disorder (FASD) is imperative to support motor and participation outcomes

Catherine Hilly

104 A systematic review of Language, speech, and oral motor performance in children with developmental coordination disorder:

Anna Fäldt, Amy De Roubaix, Evelien D'haeseleer

338 Motor competence and physical activity of children and adolescents with a congenital heart disease – action please!

Kristof Vandekerckhove, Katya De Groot, Frederik Deconinck

356 Language skills of children with Developmental Coordination Disorder and motor skills of children with Developmental Language Disorder: a systematic review

Lynn van der Schaaf, Jelle Kisjes, Johannes Noordstar, Remo Mombarg, Ellen Gerrits, Frank Wijnen, Margreet Luinge

339 Brazilian health and education professionals' knowledge of Developmental Coordination Disorder

Clarice Ribeiro Soares Araujo, Lilian Viviane Barbosa, Lívia de Castro Magalhães

333 Toward population-based screening of Developmental Coordination Disorder in West Africa: preliminary evidence from Ghana

Rosemary Xorlanyo Doe-Asinyo, Emmanuel Bonney

345 Terminology used in research reports of developmental coordination disorder: updated review from 2006-2023

Lívia C Magalhães, Barbara Moraes, Larissa Godinho, Lilian Barbosa, Lorena Sales, Rejane Palhares, Iasmin Maia, Clarice Araújo, Alessandra Cavalcanti, Maira Amaral

PO2B

Chair: Francesco Sgro

34 The effect of proprioceptive intervention on eating, sleeping and movement among children with special needs aged one to three years

Orit Bart, Chen Chechi

- 25 Effect of a sports camp upon quality-of-life indicators in youth with visual impairments
Pamela Beach
- 40 Participation in sports can promote physical fitness and motor competence: Is it true for Greek girls?
Irene Kossyva, Vasiliki Kaioglou, Komanthi Kouloutmpani, Fotini Venetsanou
- 347 Adapted physical activity in children with DCD: Constrains, assessment, problem-solving, adaptation, modification and evaluation
Ivana Djordjević
- 335 Assessing the impact of occupational therapy intervention on brain-muscle communication in children with Developmental Coordination Disorder
Greg Wood, Maaïke Esselaar, Emma Hodson-Tole, Johnny Parr
- 89 Benefits of an intensive individual CO-OP intervention in a group setting for children with DCD: a replication study
Jessica Lust, Hilde Krajenbrink, Jordi Van Heeswijk, Anke Verhaegh, Bert Steenbergen
- 84 Effectiveness of the group-based CO-OP intervention: multiple baseline single-case experimental study protocol across subjects
Emmanuel Madieu
- 245 Establishing an Activity Club for Children with Functional Motor Difficulties: Development, Implementation and Future Directions
Tanya Rihtman, Susan Allen, Anna L. Barnett
- 239 Visuo-spatial abilities in DCD and adoption: Functional and emotional enhancement activities
Marinella Garotta, Daniele Bergamin, Paola Sbrissa
- 241 Enhancing executive functions (EF) in children with DCD through the intersection of therapy and play
Chiara Abbadessa, Marinella Garotta
- 275 White matter changes with CO-OP intervention in children with co-occurring autism spectrum disorder and developmental coordination disorder
Jill Zwicker
- 75 Exergames: A potentially effective tool to improve physical activity behaviour in adolescents with DCD.
Taha Yassine Tamlali, Bert Steenbergen, Jessica Lust, Sandra der Wal
- 219 The effect of group occupational therapy for ADL in clumsy children with neurodevelopmental disorders: A pilot study
Takuya Higashionna, Kilchoon Cho, Akio Nakai, Ryoichiro Iwanaga
- 344 Effects of class-wide peer tutoring on motor performance of typically developing students and students with Down syndrome in physical education
An Van de Putte, Matthieu Lenoir, Hilde Van Keer
- 276 The impact of CO-OP approach on coordination, QOL, and parenting behavior in the Japanese children with neurodevelopmental disorders.
Yuuki Katsuhara, Akio Nakai
- NS14 The use of non-traditional methods and teaching aids in the prevention of DCD of preschool children
Lenka Knopová

88 Instructions and feedback in telehealth physiotherapy sessions for children with neurodevelopmental disorders: a pilot study

Kathlynn F. Eguia, Shamay S.M. Ng, Thomson W.L. Wong

321 The effect of a core-stabilization functional training program on physical fitness and health-related quality of life in adolescents

Sofia Monastiridi, Ermioni Katartzi, Maria Kontou, Ioannis Pappas

217 The effect of a 10-week intervention training program on jumping and kicking kinematic characteristics in preschoolers

Georgia Axeti, Ioannis Gkisis, Ermioni Katartzi, Georgios Komsis

295 The process of clinical practice guideline for Developmental Coordination Disorder in Finland

Piritta Asunta, Aulikki Lano, Heli Sätälä, Helena Viholainen, Kati Rantanen, Helena Mäenpää, Reetta Tuomisto, Harri Arikka, Sini Martikainen, Isa Teeriaho, Helena Tigerstedt, Krista Nuotio, Jorma Komulainen

350 Awareness and support for developmental coordination disorder in nursery school

Ryoichiro Iwanaga, Takuya Higashionna, Akiko Tokunaga, Akira Imamura

PO2C

Chair: Judith Gentle

202 Judgements of visuospatial task performance in adults with DCD and ADHD

Emily Meachon, Liezl Launspach, Agnes Detert, Alexander Grob

317 French adaptation and validation of the Adult Dyspraxia/Developmental Coordination Disorder Checklist

Sarah Seiwert, Joseph Tisseyre, Jessica Tallet

308 Characterization of the motor competence of university young adults

José Oliveira-Santos, Sara Ribeiro, Ana Nogueira, Maria João Lagoa

174 Self-reported motor competence and weekly participation in physical activity in Greek young adults: A pilot study

Ioannis Pappas, Ermioni Katartzi, Maria Kontou, Sofia Monastiridi, Symeon Vlachopoulos

201 Are animal-assisted interventions relevant to adults with DCD or ADHD?

Emily Meachon, Cristina Carvajal Garcia, Agnes M. Detert, Alexander Grob

154 Mental arithmetic performance of adults with and without Developmental Coordination Disorder (DCD): The role of working memory and maths anxiety

Anna-Stiina Wallinheimo, Judith Gentle

31 Understanding DASH17+ performance differences between adults with and without ADHD using fNIRS

Nancy Getchell, Elham Bakhshipour

218 Capturing individual differences in motor functioning as a window on coordination difficulties in adulthood

Luisa Girelli

10 Bio-psycho-social predictors of daily participation among young adults with DCD: A structural equation modeling analysis

Shahar Zaguri-Vittenberg, Naomi Weintraub, Miri Tal-Saban

- 71 Understanding participation and quality of life of college Students with pDCD using structural equation modeling
Miri Tal-Saban, Naomi Weintraub, Hagit Magen
- 93 The relationship between actual motor competence, perceived motor competence, and emotional intelligence in young adults
Katrien De Neve, Matthieu Lenoir, Eline Coppens
- 264 Lack of engagement in an ehealth intervention for families of children with DCD in the USA
Mary Luz Ocampo-Plazas, Andrea Jackson, Sarah Muhiby Asmaty, Jacqueline Williams, Priscila Tamplain
- 81 Understanding the role of family socioeconomic status, size, and structure in early DCD mechanisms: A pathway analysis
Xiaotian Dai, Wenchong Du, Gareth Williams, Keeley Brookes, Jing Hua
- 298 The relationship between motor proficiency and emotional development in 8 to 9-year-old children: The PERF-Fit study
Wilmarié Du Plessis, Clarize Mulder, Daniëlle Neethling Neethling, Elaine Van der Linde, Marincha Van der Merwe
- 190 Integration of psychosocial support of children with Developmental Coordination Disorder, in physiotherapy
Ilse Dereu, Veerle Mox, Maya Van den Eede, Nils Goovaerts
- 222 Quality of life in children with Developmental Coordination Disorder: A meta-analysis
Gayatri Kumar, Christian Hyde, Ian Fuelscher, Jacqueline Williams, Jill Zwicker, Kaila Bianco, Mervyn Singh, Mugdha Mukherjee, Pam Barhoun
- 44 Can creative dance promote prosocial behavior in 1st graders?
Angeliki Giatra, Maria Koutsouba, Fotini Venetsanou, Nektarios Stavrou
- 112 Paediatric motor difficulties and internalising problems: An integrative review on the environmental stress hypothesis
Noah Erskine, John Cairney, Jaime Barratt
- 121 Which motor skills do school-aged children with and without motor problems perceive as important to them?
Marisja Denysschen, Dané Coetzee, Rosemary Doe-Asinyo, Emmanuel Bonney, Bouwien Smits-Engelsman
- 319 The mediating role of motivation in the relationship between motor competence and life skills
Nuria Ortega-Benavent, Cristina Menescardi, Sergio Montalt-García, Jorge Romero-Martínez, Xavier García-Massó, Isaac Estevan

PO2D

Chair: Katrijn Klingels

- 309 Postural control while stooping down to pick up an object in unilateral stance in children with Developmental Coordination Disorder
Ludvík Valtr, Lucia Bizovská, Reza Abdollahipour, Dorothee Jelsma, Bouwien Smits-Engelsman

221 Learn-to-Move. Move-to-Learn. Gross motor coordination, balance and proprioception in children starting school: a cross-sectional study.

Emily Berrios, Amelia Braithwaite, Sally Hannah, Leanne Johnston

208 Auditory and visual motor planning skills and the relationship with gross motor coordination and balance in children starting school

Amelia Braithwaite, Leanne Johnston, Emily Berrios

193 Current approaches for training postural control in children with Developmental Coordination Disorder: a scoping review

Silke Velghe, Evi Verbecque, Eugene Rameckers, Maja Van Grinderbeek, Katrijn Klingels, Pieter Meyns

78 Clinical measures of postural control for children with Developmental Coordination Disorder and their psychometric and clinical properties.

Benjamin Liversidge, Leanne Johnston, Bronwyn Thompson

188 An intervention protocol of a highly intensive activity-based balance training camp in children with Developmental Coordination Disorder

Maja Van Grinderbeek, Silke Velghe, Eugene Rameckers, Pieter Meyns, Ingrid Van der Veer, Charlotte Johnson, Ann Halleman, Evi Verbecque, Katrijn Klingels

353 Development and inter-rater reliability of an extended and age-specific Balance Evaluation Systems Test for children (Kids-BESTest-2) age 5-12

Evi Verbecque, Charlotte Johnson, Mieke Goetschalckx, Pieter Meyns, Katrijn Klingels, Ann Halleman

55 Procedural learning via motor imagery reveals the deficit in the internal model in Adults with DCD

Binn Zhang, Yulan Yao

296 Intersegmental coordination in forward and backward walking in developmental coordination disorder: A case study

Raphael Mesquita, Arthur Dewolf

324 Neuromaturational factors, motor competence and numeracy in median-low-income Brazilian preschoolers

Natália Lima Quirino, Natália Lemos, Clarice Martins

212 Influence of sex, maturity offset and grip strength on throw and catch performance in primary school children

Antonella Maria Vittoria Quinto, Francesco Sgrò, Vera Zymbal, Greta Diquattro, Roberto Coppola

132 Motor Competence and Compliance with Physical Activity Recommendations in Chilean Schoolchildren

Jaime Carcamo-Oyarzun

197 Exploring correlates of children's motor development and physical activity

Sergio Montalt-García, Jorge Romero-Martínez, Nuria Ortega-Benavent, Cristina Menescardi, Isaac Estevan, Xavier García-Massó

213 Do Greek school-aged children, complying with the 24-hour movement guidelines, have better motor competence?

Martha Spanou, Konstantinos Soutos, Sofoklis Sotiriou, Antonis Kambas, Fotini Venetsanou

310 Physical activity, fundamental movement skills and lifestyles in children with poor movement proficiency: The Moves-UP Project.

Siqi Jin, Gareth Stratton, Nils Swindell, Harriet Barker, Claire Barnes, Chelsea Starbuck, Huw Summers, Gemma Thomas

343 Screen time, sleep, and motor skills in socially economically disadvantaged in Brazilian toddlers: A network perspective

Jessica Mota, Érika dos Santos, Alesandra de Souza, Natália Goulart, Paulo Bandeira, Rafael Tassitano, Clarice Martins

290 The relationship between gross motor skills and self-perceived motor competence in children with DCD that attend special versus regular education

Sander Panneman

106 Mediating effect of internal factors on the relationship between Developmental Coordination Disorder and physical activity in school-aged children

Huynh-Truc Tran

288 The relationship between motor skills, occupational performance and mental health in the Japanese children with neurodevelopmental disorders.

Masanori Yasunaga, Nakai Akio, Hideki Miyaguchi, Chinami Ishizuki, Yosuke Kita

100 Cross-cultural exploration of motor skills and executive function among children with Autism Spectrum Disorder in Taiwan and the United States

Ming-Chih Sung, Megan MacDonald

16:00-17:15

PS17 – Underlying mechanisms 3

CONCERTZAAL

Chair: Jessica Lust

242 Synchronization in Developmental Coordination Disorder: effects of metronome characteristics and task complexity on walking and running performance

Mieke Goetschalckx, Peter Feys, Eugene Rameckers, Bart Moens, Marc Leman, Lousin Moumdjian

38 Exploring the presence and impact of sensory differences in children with Developmental Coordination Disorder

Catherine Purcell, Jennifer Keating, Sarah Gerson, Ross Vanderwert, Catherine Jones

56 Evidence of somatosensory deficits in children with Developmental Coordination Disorder

Marion Naffrechoux, Alessandro Farnè, Denis Pélisson, Alice Catherine Roy

27 Recognition of movement qualities of children with Developmental Coordination Disorder: An exploratory study

Srilatha Girish, Kavitha Raja, Asha Kamath

300 Compensatory motor behaviour in children with limb differences

Laura-Ashleigh Bird, Raffaele Tucciarelli, Tamar R Makin, Dorothy Cowie

63 Sensory Modulation Disorder (SMD) of university students with and without Probable DCD.

Miri Tal-Saban, Aviva Yochman, Naomi Weintraub, Hagit Magen

S6 – Highly intensive training: the need, feasibility and preliminary results in children with DCD **KRAAKHUIS**

Silke Velghe, Evi Verbecque, Ingrid Van der Veer, Shanti Sritharan, Katrijn Klingels, Eugene Rameckers

PS16 – Awareness **ANATOMISCH THEATER**

Chair: Amy De Roubaix

NS1 Wees die held, durf over je eigen hek heen te kijken.

Ilona v Wijngaarde

155 Urgent need to refresh strategy for identifying and supporting children with motor skill deficits

Lucy Eddy, Megan Wood, Farid Bardid, Rebecca Murray, Nat Merrick, Mark Mon-Williams

145 The impact of DCD: a report on current state of DCD in Sweden, health-related quality of life of children and parents, resource use and costs

Kine Johansen, Johanna Hardselius, Yuying Feng, Karin Fångström, Michael Wells, Filipa Sampaio

82 The impact of DCD on Parent and Sibling Depression: A Bidirectional Two-Sample Mendelian Randomization Analysis

Xiaotian Dai, Wenchong Du, Gareth Williams, Keeley Brookes, Jing Hua

231 What's in the value of a name? Do caregivers value a Developmental Coordination Disorder diagnosis to inform their child's care?

Lucinda McMillan, Leanne Johnston, Rosemary Mason, Bronwyn Thompson

S7 – The genetics of DCD **BAUDELOZAAL**

Hayley Mountford, Yonas Hirutu

17:30-18:20

FOYER

Keynote – Prof. David Stodden & Prof. Caterine Pesce: A holistic approach to development: Implications for motor development research

Chair: Matthieu Lenoir

19:30-01:00 Conference dinner and party @ Concert Hall VierNulVier (aka De Vooruit)

You can either join the conference dinner in the Vooruit at 7.30 pm or have dinner on your own in the city of Ghent. After the conference dinner, all participants are welcome to enjoy the performance of our cover band 'Mutse' (= Flemish slang for 'cap' or 'hat') from 9.30pm. After the gig, our DJ will set the mood and will get your dancing feet moving until 01.00 am!

Saturday 8 June – Academic program details

De Bijloke, Bijlokekaai 7, Gent

09:00-10:00

PS18 – Adults

CONCERTZAAL

Chair: Jacqueline Williams

NS6 A life with DCD: tumbling into DCD empowerment

Jason Spinks

116 Movement coordination, anxiety and mental effort in adults with and without DCD

Judith Gentle, Mara Deluca, Aliah Shaheen

60 Self-concept, diagnosis and wellbeing in adults with DCD

Kate Wilmut, Clare Rathbone

NS7 Are females paying the price for late or missed diagnosis of DCD? My perspective and journey from clinician to post graduate researcher

Clare Copley

PS19 – Early Childhood 2

ANATOMISCH THEATER

Chair: Catherine Purcell

336 Prediction of Developmental Coordination Disorder in extremely and very preterm Brazilian children

Nadia C Valentini, Carolina Panceri, Renato Procianoy, Rita C Silveira

228 Early observable motor markers for detecting neurodevelopmental disorders in children aged 0-2

Marthe Van de Keere, Marieke Coussens, Lynn Bar-On

79 A retrospective video analysis of movement quality in infants later diagnosed with Developmental Coordination Disorder

Amy De Roubaix, Lynn Bar-On, Katleen Onderbeke, Dominique Van de Velde, Herbert Roeyers, Anjo Janssen, Jill G. Zwicker, Hilde Van Waelvelde

216 How does daily practice impact the development of locomotive postures over the 1st year of life?

Do Kyeong Lee, Valeria Reyes, Melanie Trujillo, Alicia Springfield

10:00-10:30

FOYER

Coffee break

+

Business meeting of I-MDRC (Concertzaal)

10:30-12:00

S8 – DCD BIG IDEAS GROUP (DCD BIG): From big questions to new insights on understanding, recognising and treating DCD **CONCERTZAAL**

Peter Wilson, Bouwien Smits-Engelsman, Frederik Deconinck, Carolyn Dunford, Melissa Prunty, Ludvik Valtr, Dido Green, Dorothee Jelsma, Bert Steenbergen

+ Special contribution by *Jason Spinks* NS10 The DCD voice through poetry: a dyspraxic performance

S9 - Evaluating and stimulating motor competence in relation to the aquatic setting **REFTER**

Boris Jidovtseff, Eva D'Hondt, Teresa Stanley, Kristine De Martelaer, Karen De Rocker

S10 – REACT project: What families, PE teachers, and communities need to know about children's growth, motor development, and health habits **ANATOMISCH THEATER**

José Maia, Sara Pereira, Carla Santos, Fernando Gaberloto

12:00-12:45

FOYER

Awards ceremony & closure of DCD15-IMDRC6

12:45-14:00

FOYER

Lunch