



## The relationship between postural asymmetries, scoliosis, windswept hips, contractures and pain for children with cerebral palsy

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## SCIENTIFIC PROGRAMME

*Thursday, May, 19th 2022*

**07.30 – 08.45** **Networking to mobilize new knowledge around participation into practice: the Participation-focused Translation (P-KT) roadmap**  
**Plenary room**

**Chair:** Dana Anaby, Canada

**Speaker:** Christine Imms, Australia

**07.30-08.45** **Casting as a part of multimodal treatment approach In children with cerebral palsy**  
**Room MR5+6**

**Chair:** Nigar Dursun

**Speakers:** Nigar Dursun, Marcin Bonikowski, Jorge Carranza

- Introduction and overview
- Review of evidence based literature on casting
- Patient selection, assessment of hypertonia, spasticity and contracture
- Muscle plasticity and casting: intermittent models
- Combined treatment approaches and integrating casting to functional rehabilitation
- Practical applications and case presentations
- Questions and Answers

**07.30-08.45** **Coaching in early intervention: a promising method to enhance participation of families with an infant with special needs**  
**Room MR7+8**

- Lecture about coaching: **Schirin Akhbari Ziegler, Switzerland**
- Group work to practice coaching skills: **Michèle Brülhart & Schirin Akhbari Ziegler, Switzerland**
- Moderation of the discussion: **Michèle Brülhart, Switzerland**



**07.30-08.45 Feasibility analysis of technologies for rehabilitation in children**

Room MR14

**Chair:** Giuseppina Sgandurra, Italy

- Introduction. **Giuseppina Sgandurra , Italy**
- Framework of feasibility analysis of technologies for rehabilitation in clinics and for tele-rehabilitation. **Giuseppina Sgandurra, Italy**
- Engineer perspective in the design and use of technologies. **Silvia Filogna, Italy**
- Feasibility of CareToy and Tele-UPCAT system. **Elena Beani, Giuseppina Sgandurra, Valentina Menici, Italy**
- Feasibility of market ready systems. **Elena Beani, Clara Bombonato, Italy**
- Practical session on how to design dedicated questionnaires

**07.30-08.45 Transición a la edad adulta / Transition to adulthood**

Room MR12+13

**Moderadora:** Rosa Fernández, España

- Funcionamiento y participación en la vida de adulta de las personas con PC. **Mariano Lloria, España**
- Implementación de PCP y Buenos Apoyos. **María Requena, España**
- La persona adulta con PC. Cambios en la vida familiar. **Ángela Blasco, España**
- Proyecto de vida en primera persona. **Amaia Zuazua del Estal, España**

**07.30-08.45 Development of Evidence-based Clinical Practice Guidelines for Cerebral Visual Impairment (CPG-CVI) – EACD-funded Consensus project**

Room MR2

**07.30-08.45 ERCForum Special interest group (SIG)**

Room MR3

**08.45-09.15 Open Ceremony**

Plenary room



**09.15-10.00 Keynote. Big data and artificial intelligence in child rehabilitation**

**Plenary Room** **Chairs:** Jeroen Vermeulen. The Netherlands  
**Speakers:** Christopher Newman, Switzerland  
 Bernard Dan, Belgium

**10.00-10.30 Coffee break**

**10.30-11.30 Oral communications**

**Plenary Room OC: Technology-assisted rehabilitation**

**Chairs:** Sylvain Brochard. France  
 Mari Carmen Lillo. Spain

- **OC-001** Dynamic standing exercise in a novel assistive device compared with standard care for non-ambulant children with cerebral palsy, regarding quality of life and cost-effectiveness. **Katarina Lauruschkus, Sweden**
- **OC-002** Eye-gaze technology for participation in computer activities in young children with complex needs: A single-case research design. **Yu-Hsin Hsieh, Sweden**
- **OC-003** Head-mounted VR displays are a promising tool for pediatric neurorehabilitation to train walking activities. **Corinne Ammann-Reiffer, Switzerland**
- **OC-004** Scoping review on neurofeedback training strategies most strongly associated with improved motor function for pediatric neurorehabilitation applications. **Diane Damiano, USA**
- **OC-005** Efficacy of implementing motor skill learning virtual-based sessions in a HABIT-ILE intervention in children with cerebral palsy: a non-inferiority randomized controlled trial. **Geoffroy Saussez, Belgium**

**Room MR5+6 OC: Orthopaedics 1**

**Chairs:** Annemieke Buizer. The Netherlands  
 Mercedes Martínez Moreno. Spain

- **OC-006** Two-stage bone lengthening with reuse of a single intramedullary telescopic nail in patients with achondroplasia. **María Galán Olleros, Spain**
- **OC-007** A prospective cohort study on attainment of personal goals in the first year of intrathecal baclofen treatment in dyskinetic cerebral palsy. **Laura Bonouvrie, The Netherlands**
- **OC-008** Postoperative radiological parameters of proximal femur in children with CP. **Vadim Kozhevnikov, Russia**
- **OC-009** Complications of intrathecal baclofen requiring surgery: a 20-year follow-up study in children. **Laura Bonouvrie, The Netherlands**



**10.30-11.30 Oral communications**

**Room MR5+6 OC: Orthopaedics 1**

- **OC-010** Difference in intrathecal baclofen in children dosage between children with dyskinetic and spastic cerebral palsy. **Laura Bonouvie, The Netherlands**
- **OC-011** Does Intrathecal Baclofen Therapy Decrease the Progression of Hip Dysplasia in Young Patients with Cerebral Palsy?. **M. Wade Shrader, USA**

**Room MR7+8 OC: Interventions in bilateral cerebral palsy**

**Chairs:** Elisabeth Rodby-Bousquet. Sweden  
Beatriz de la Calle. Spain

- **OC-012** Improvement of the integrity of upper and lower extremity fibers of the corticospinal tract in children with bilateral cerebral palsy following intensive therapy. **Rodrigo Araneda, Belgium**
- **OC-013** A Randomised Controlled Study to Investigate Effects of Bobath Trunk Control Training on Motor Function of Children with Cerebral Palsy. **Gonca Ari, Germany**
- **OC-014** Effect of short-term predictable internal and external focused perturbation training in improving postural control in children with CP. **Pinar Kaya Ciddi, Turkey**
- **OC-015** Could Hand-Arm Bimanual Intensive Therapy Including Lower Extremities (HABIT-ILE) deteriorate or improve the range of motion of children with cerebral palsy?. **Daniela Ebner Karestinos, Belgium**
- **OC-016** Intensive therapy of the lower limbs and the trunk in children with bilateral spastic cerebral palsy: comparing two approaches. **Vanessa Van Tittelboom, Belgium**

**Room MR14 OC: Autism and developmental conditions**

**Chairs:** Briano di Rezze. Canada  
Olga Laporta. Spain

- **OC-017** Construct Validity of the Autism Classification System of Functioning for Social Communication (ACSF) Across Childhood and Adolescence. **Briano Di Rezze, Canada**
- **OC-018** LILAC: A Novel Approach to Diagnosis and Intervention in Autistic Spectrum Disorder. **Cormac Duff, Irlanda**
- **OC-019** Formal support: expectations and experience of parents raising children with severe or profound intellectual disabilities. **Yael Karni-Visel, Israel**
- **OC-020** Developmental Coordination Disorder: New insights on underlying mechanisms. **Peter Wilson, Australia**



**10.30-11.30 La persona por encima de todo**

Room MR12+13

**Moderadora:** María Gómez Vela, España

- Diversidad y calidad de vida: **Julita Medina Cantillo, España**
- Ser frágil, ser humano: **Ricardo Martino Alba, España**

**11.45-12.30 Keynote. Early intervention in at risk infants: evidence, opportunities and challenges.**

Plenary Room

**Chairs:** Alain Chatelin. Fondation Paralysie Cerebrale Lecture, France  
Bernard Dan. University Libre de Bruxelles, Belgium

**Speaker:** **Mijna Hadders-Algra. University of Groningen, The Netherlands**

**12.30-13.30 Goal Shifting in Cerebral Palsy: When and How to Shift Primary Clinical Efforts away from "Medicalization" and towards Participation and Community Integration**

Plenary Room

**Chair:** Nathan Rosenberg, USA

- Introduction, case, PM&R perspective. **Nathan Rosenberg, USA**
- Case presentation, Complex Care perspective. **Garey Noritz, USA**
- Case presentation, orthopedics perspective. **David Frumberg, USA**
- CP Parent & MSW perspective. **Sha Clark, USA**
- Open dialogue is encouraged throughout the session as opposed to just at the conclusion of speaking.

**12.30-13.30 The European Reference Network for Rare Neurological Diseases: networking knowledge into action**

Room MR5+6

**Chair:** Carola Reinhard, Germany

- Improving care for children with RND – What does ERN-RND offer for you and your patients?. **Carola Reinhard, Germany**
- Living with a RND - The perspective of patients and families. **Astri Arnesen, Norway**
- Recent achievements and new challenges in the care of children with RND: the role of European collaboration within ERNs. **David Gómez-Andrés, Spain**
- Neurorehabilitation in children with RND: best practice examples. **Annemieke Buizer, The Netherlands**
- Discussion with the audience



**12.30-13.30** **Comparing three coaching approaches in pediatric rehabilitation: Contexts, mechanisms and outcomes.**  
 Room MR7+8

- COPCA; theoretical background and translation into practice. **Schirin Akhbari Ziegler, Switzerland**
- OPC; approach to goal setting, Collaborative Performance Analyzes. **Fiona Graham**
- SFC-peds; conceptual background, key features and summary of evidence. **Gillian King**
- Facilitated discussion. **Schirin Akhbari Ziegler, Switzerland**

**12.30-13.30** **Cognition and Cerebral Palsy**  
 Room MR14 **Chair:** Roser Pueyo, Spain

- Cognitive PROFILE: What we need to know and why. **Olga Laporta.Hoyos, Spain**
- Cognitive ASSESSMENT: Is it doable in people with severe motor and/or communicative impairment?. **Júlia Ballester-Plané, Spain**  
 Opinion and experiences from Vanessa Fuentes, a psychologist with cerebral palsy.
- Cognitive INTERVENTION: Far from strong recommendations but close to provide some advice. **Montse Blasco and María García-Galant, Spain**  
 Opinion and experiences from parents of children with cerebral palsy

**12.30-13.30** **Enfoque diagnóstico y terapéutico de las alteraciones de la marcha en pacientes con parálisis cerebral GMFCS tipo III.**  
 Room MR12+13

**Moderador:** Ignacio Martinez Caballero, España

- La matriz diagnóstica en la toma de decisiones desde la exploración física al análisis del movimiento. **Sergio Lerma, España**
- El manejo rehabilitador previo a la cirugía ortopédica una alternativa y un complemento para potenciar los resultados de la cirugía multinivel. **Patricia Ferrand, España**
- Algoritmos de tratamiento quirúrgico y de manejo del paciente durante el periodo de recuperación tras cirugía multinivel. **Ignacio Martínez Caballero, España**

**13.30-14.30** **Lunch**





**13.30-14.30 Sponsored Symposium IPSEN**

Room MR12+13 **Evaluación del control motor selectivo en miembro superior en niños con PC**



- Síntesis de evidencia: Escalas disponibles para la evaluación de control motor selectivo en MS en niños con PC. **Mercedes Martínez, España**
- Proyecto PULSE: Consenso para la elección de una escala para la evaluación de control motor selectivo en MS en niños con PC. **Juan Andrés Conejero**

**13.30-14.30 National Coordinatos meetings**

Room MR14

**14.30-15.15 Keynote. Same Reality, two differents points of view**

Plenary room

**Chair:** Francisca Quintana, Spain

**Speakers:** Claudia Tecglen, Spain

Miguel López Zúñiga, Spain

**15.30-16.30 Oral communications**

Plenary Room

**OC: Movement Analysis**

**Chairs:** Marco Konings. Belgium

Verónica Robles García. Spain

- **OC-021** Home-based measurements of upper extremity dystonia using a smartphone, wearable inertial sensors and machine learning. **Helga Habberfehlner, The Netherlands**
- **OC-022** Automatic differentiation of dystonia and choreoathetosis using machine learning during functional upper limb tasks in the dyskinetic cerebral palsy population. **Inti Vanmechelen, Belgium**
- **OC-023** Use of Actigraph assessment for measuring upper limb daily life activities in children with Unilateral Cerebral Palsy. **Elena Beani, Italy**
- **OC-024** Relation between proximal and distal proprioception in the upper limb in unilateral cerebral palsy using robotics. **Lisa Decraene, Belgium**
- **OC-025** The use of DeepLabCut to detect and quantify mirror movements in children with unilateral cerebral palsy. **Cristina Simon-Martinez, Switzerland**
- **OC-026** Quantitative assessment of trunk movements in functional reaching in children and adolescents with dyskinetic cerebral palsy. **Ellen Van Wonterghem, Belgium**



Room MR5+6 **OC: Orthopaedics 2**

**Chairs:** Marek Jozwiak. Polonia  
Patricia Ferrand Ferri. Spain

- **OC-027** Upper limb passive range of movement over time in children with cerebral palsy, treated or not treated with Botulinumneurotoxin-A - a population-based study. **Jenny Hedberg Graff, Sweden**
- **OC-028** Percutaneous lengthening with intramuscular needle of the gastrocsoleus complex improves critical ankle kinematic parameters in resistant equinus: A pilot study. **María Galán Olleros, Spain**
- **OC-029** Reliability of assessing proximal femur geometry with Rutz classification schema in patients with Cerebral Palsy. **Maciej Kasprzyk, Polonia**
- **OC-030** Talus and calcaneus morphologies and its determinants in children with unilateral cerebral palsy and equinus gait. **Bailly Rodolphe, France**
- **OC-031** Long-term outcomes of talonavicular arthrodesis for the treatment of planovalgus foot in children with cerebral palsy. **María Galán Olleros, Spain**
- **OC-032** Association of pseudo-Galeazzi sign with asymmetric flexor contracture in spastic hip and pelvic obliquity. Management with botulinum toxin on the iliopsoas of the ascended side. **María Galán Olleros, Spain**

Room MR7+8 **OC: Working with families**

**Chairs:** Teresa Joyce. United Kingdom  
Álvaro Hidalgo. Spain

- **OC-033** Mothers perspectives on the participation of their child with Developmental Disabilities. **Marieke Coussens, Belgium**
- **OC-034** Participation of young children with developmental disabilities: parental needs and strategies, a qualitative thematic analysis. **Marieke Coussens, Belgium**
- **OC-035** Sharing observations: Parent-therapist engagement and learning cycles in early intervention physical therapy for infants with cerebral palsy. **Phillip Harniess, United Kingdom**
- **OC-036** Improving hospital to home transition for children with medical complexity and their families by understanding parental needs: a meta-aggregation of qualitative studies. **Liz Van Riet. The Netherlands**
- **OC-037** This is My Baby Interview: An Adaptation to the Spanish Language and Culture. **Elena Pinero-Pinto, Spain**



Room MR14 **OC: Low income settings**

**Chairs:** Hans Forssberg, Sweden

Julita Medina, Spain

- **OC-038** Children with Cerebral Palsy among Syrian Refugees in Turkey: Preliminary Report. **Cemil Özal, Hacettepe, Turkey**
- **OC-039** Disability and poverty: a population based case control study to define these two related conditions in Bangladesh. **Tasneem Karim, Australia**
- **OC-040** Supporting Ultra-Poor children with cerebral palsy and their families with Integrated Microfinance/livelihood and community-based rehabilitation program - a Cluster Randomized Controlled Trial. **Mahmudul Hassan Al Imam, Australia**
- **OC-041** Access to education among children with cerebral palsy in low-and middle-income countries: findings from the Global LMIC CP Register. **Mahmudul Hassan Al Imam, Australia**
- **OC-042** Social capital of primary caregivers of children with and without disability in rural Bangladesh- findings from a population-based case-control study. **Israt Jahan, Australia**
- **OC-043** Efficacy of the Hand-Arm Bimanual Intensive Therapy Including Lower Extremities (HABIT-ILE) in young children with bilateral cerebral palsy in a low-income country: a randomized trial. **Emmanuel Segnon Sogbossi, Belgium**

**15.30-16.30 Logopedia y práctica basada en la evidencia en motricidad orofacial.**

Room MR12+13

**Moderadora:** Lidia Rodríguez García, España

- Abordaje logopédico en terapia miofuncional en discapacidad infantil. **Yvette Ventosa Carbonero, España**
- Logopedia y nutrición enteral: práctica basada en la evidencia : **Begoña Barceló, España**
- Logopedia Neonatal Hospitalaria: Inversión de futuro. **Belén Ordoñez-Miyar, España**

**16.30-17.00 Coffee break**



**17.00-18.30 Parent, Therapist and Physician Perspectives on Standing Interventions.**

Plenary Room

**Chair:** Ginny Paleg, USA

- Introduction of Controversies **Ginny Paleg, USA**
- Why, Where, When, Who and Types of Standing Interventions. **Elisabet Rodby-Bousquet, Sweden & Ginny Paleg, USA**
- Proactive standing for children with CP and other neuromuscular conditions across the lifespan: Indications and contra-indications. **Marek Jozwiak, Polonia**
- Case Study. **Lourdes Macias-Merlo, Spain**
- The postoperative intervention of weight-bearing and standing frames. **Ignacio Martinez, Spain**
- A parent perspective (parent of a child with SMA): **Manuel Corchado, Spain**
- The lived experience of a father and orthopedic surgeon **M Wade Shrader, USA**
- Summary and Consensus of the Controversies **M Wade Shrader, USA & Elisabet Rodby-Bousquet, Sweden**
- Questions and Group Discussion

**17.00-18.30 Functional and biomechanical changes induced by early Hand-Arm Bimanual Intensive Therapy Including Lower Extremities in pre-school children with unilateral cerebral palsy**

Room MR5+6

**Chairs:** Sylvain Brochard, France  
Christopher Newman, Switzerland

- Motor changes induced by early HABIT-ILE in pre-school children with UCP. **Yannick Bleyenheuft, Belgium**
- Non-Motor changes induced by early HABIT-ILE in pre-school children with UCP. **Rodrigo Arandeda, Belgium**
- Amount of movement following early HABIT-ILE in pre-school children with UCP. **Sandra Bouvier, France**
- Kinematic changes induced by early HABIT-ILE in pre-school children with UCP. **Sandra Bouvier, France**



**17.00-18.30** **International Network to advance research and care for children with arthrogyrosis multiplex congenita across the life span**  
Room MR7+8

**Chair:** Noémi Dahan-Oliel, Canada

- Phenotype and genotype of children with arthrogyrosis: Preliminary findings and plans for an international network. **Noémi Dahan-Oliel, Canada**
- Common data elements to develop an international registry. **Shahrazad Nematollahi, Canada**
- Fetal detection and diagnosis of arthrogyrosis. **Isabel Filges, Canada & Johanna Inge de Vries, The Netherlands**
- Post-natal diagnostic work-up and research perspectives. **Klaus Dieterich & Daniel Natera, Spain**
- Patient support groups to promote research and registry involvement. **Victoria Castillo, Spain & Carolina Navalon, Spain**
- Concept and Framework for a federate international AMC registry. **Tony Pan, USA & Cole Hilton, USA**
- AMC registry in adults: Current findings and plans for the future. **Shahrazad Nematollahi, Canada**

**17.00-18.30** **Cerebral Palsy in Sub Saharian Africa**  
Room MR14

**Chair:** Hans Forsberg, Sweden

- Epidemiology, nutrition and mortality in children and youth with CP living in LMICs. **Angelina Kakooza, Uganda**
- Functional development, access to health and education services. **Carin Andrews, Sweden**
- Development of an intervention programme for children with CP in low resource settings based on ICF, evidence based methods and addressing stigma. **Gillian Saloojee, South Africa**
- Implementation of a new intervention programme during a pandemic. **Elizabeth Asige, Uganda**
- Discussion



**17.00-18.30** **Desarrollo de la comunicación y el lenguaje en la infancia con discapacidad y multilingüismo.**  
[Room MR12+13](#)

**Moderadora:** Lidia Rodríguez García, España

- Por qué las prácticas centradas en la familia ayudan a desarrollar el lenguaje infantil. **Claudia Escorcía, España**
- Evaluación funcional y auténtica en la participación de los niños en las rutinas cotidianas. **Catalina Morales, España**
- Entrevistar a familias de entornos bi/multilingües. **Silvia Nieva, España**
- Estudio longitudinal del desarrollo del lenguaje de niños y niñas con implante coclear. **Mar Pérez, España**

**18.30-20.00** **AGM Meeting**

[Plenary Room](#)

*Friday, May, 20th 2022*

**07.30 – 08.45** **Diskinetics Special interest group (SIG)**

[Plenary room](#)

**07.30-08.45** **20 years Dutch Saliva Control team: (clinical) lessons learned!**

[Room MR5+6](#) **Chair:** Karen Van Hulst, The Netherlands

**Speakers:** Karen Van Hulst, The Netherlands  
Jan Van Der Burg, The Netherlands  
Sandra De Groot, The Netherlands

- Stepwise approach to the clinical management of drooling in the Dutch saliva control team
- Noninvasive and invasive treatment options
- Evaluation saliva interventions options
- Clinical examples
- Discussion: global differences



**07.30-08.45** **An overview of the occurrence of muscle weakness and fatigue of the upper limb in children with UCP, new testing methods and its impact on clinical reasoning**  
[Room MR7+8](#)

- Introduction. **Eugene Rameckers, The Netherlands**
- Occurrence of muscle weakness and fatigue of the upper limb in children with UCP. **Katrijn Klingels, Belgium**
- Assesment of muscle strength, fatigue and functional strength of the upper limb in children with UCP. **Yvonne Janssen-Potten, The Netherlands**
- Impact of muscle weakness and fatigue of the upper limb in children with UCP on clinical decision making and choices for functional therapy approaches. **Katrijn Klingels, Belgium & Eugene Rameckers, The Netherlands**
- Functional therapy approaches and functional strength in children with UCP. **Eugene Rameckers, The Netherlands**
- Examples of individual cases, interactive session. **Yvonne Janssen-Potten, The Netherlands, Katrijn Klingels, Belgium & Eugene Rameckers, The Netherlands**
- Discussion. **Katrijn Klingels, Belgium**

**07.30-08.45** **A Multidisciplinary Approach to Best Outcomes in Epilepsy Surgery**  
[Room MR14](#)

**Chair:** Nathan Rosenberg, USA

**Speakers:** Adam Ostendorf, Neurology, USA  
Jonathan Pindrik, Neurosurgery, USA  
Nathan Rosenberg, Physical Medicine and Rehabilitation, USA

Presencial

Open dialogue is encouraged throughout the session as opposed to just at the conclusion of speaking.

**07.30-08.45** **Nuevos retos en el tratamiento multidisciplinar de la atrofia muscular espinal.**  
[Room MR12+13](#)

**Moderador:** Joaquim Fagoaga Mata, España

- Cambio de paradigma de la atrofia muscular espinal. **Andrés Nascimiento Osorio, España**
- Manejo de fisioterapia en la atrofia muscular espinal. **Joaquim Fagoaga Mata, España**
- Cirugía de columna en la AME. **Rosa M. Egea-Gámez, España**
- Fisioterapia respiratoria en el paciente con AME. **Montserrat Juncà Carrasco, España**



**07.30-08.45** Surveillance Cerebral Palsy Special interest group (SIG)  
Room MR3

**09.00-09.45** Keynote. What Wikipedia can't tell you about effective treatments for cerebral palsy  
Plenary room  
**Chair:** Patricia de Lipthay Behrend. Elssas Foundation, Denmark  
**Speaker:** Iona Novak, Australia

**09.45-10.15** Coffee break

**10.15-11.20** Oral communications  
Plenary Room  
**OC: CP musculoskeletal disorders**  
**Chairs:** Diane Damiano. USA  
Ana Isabel Melián. Spain

- **OC-044** Ataxic cerebral palsy in Europe: prevalence, clinical profile and origin. **Veronka Horber, Germany**
- **OC-045** Acute Effects of Passive and Active Stretching Exercises on Muscle Oxygenation in Pediatric Patients with Spastic Cerebral Palsy. **Fatma Nur Yilmaz, Turkey**
- **OC-046** Children with Cerebral Palsy show less intramuscular coherence than typically developing children in the first year of life: Sign of impaired corticospinal drive?. **Anina Ritterband-Rosenbaum, Denmark**
- **OC-047** Sequence of lower limb contracture development in children with cerebral palsy. **Erika Cloudt, Sweden**
- **OC-048** The relationship between postural asymmetries, scoliosis, windswept hips, contractures, and pain for children with cerebral palsy. **Jackie Casey, United Kingdom.**
- **OC-049** Incidence and risk factors of care-related pain in children with motor disabilities in institutional settings. **Amandine Dubois, France**
- **OC-050** Reliability of the functional discrepancy in the length of the lower limbs according to the test "level of heels when lying down and sitting" **Marek Kluszczynski, Polonia**





Room MR5+6 **OC: Transition and adults**

**Chairs:** Niek de Taeye. Belgium

Carmen Matey. Spain

- **OC-065** Access to higher education and employment in young adults with Cerebral Palsy: An analysis of the SPARCLE study. **Nicolas Vidart D'egurbide Bagazgoitia, France**
- **OC-066** Associations between the physical, social, and attitudinal environment of adolescents with cerebral palsy and their parent-reported quality of life: results from the SPARCLE Study. **Catherine Arnaud, France**
- **OC-067** Living Conditions and Social Outcomes in Adults with Cerebral Palsy. **Katina Pettersson, Sweden**
- **OC-068** Dysphagia, weight, height and BMI in adults with cerebral palsy. **Elisabet Rodby-Bousquet, Sweden**
- **OC-069** Association between functional and personal factors with the frequency of community services of neuromotor disorders adults. **José Joaquim Alvarlhao, Portugal**
- **OC-070** The Real Me: Insight into youths' abilities to transition to adulthood through digital images. **Chantal Robillard, Canada**
- **OC-071** "Just-Like-You"- co-creation of meaningful transition to adulthood information for adolescents with cerebral palsy, spina bifida and (congenital) limb malformations and their parents. **Iris Van Wijk, The Netherlands**

Room MR7+8 **OC: COVID19 and telerehabilitation**

**Chairs:** Christelle Pons. France

Rosa Fernández. Spain

- **OC-058** Changes in performance, satisfaction and achievement goals after family centred telerehabilitation service for children with disabilities. **Naguia Medeiros, Brasil**
- **OC-059** Promoting telehealth knowledge, attitudes, and practice by an interprofessional online course. **Liat Gafni-Lachter, Israel**
- **OC-060** Enhancing participation of youth and young adults with disabilities during a global pandemic: The impact of PREP intervention. **Dana Anaby, Canada**
- **OC-061** Parents' perspectives of the feasibility of longitudinal and remote functioning's assessment in children with neuromotor disabilities during the COVID-19 pandemic. **Beatriz Helena Brugnaro, Brasil**
- **OC-062** Participation of school-aged children with ASD during the pandemic: the unique impact of parents' participation. **Zi-Ru Wang, Canada**
- **OC-063** The impact of the COVID-19 pandemic on the field of childhood disability in Belgium: A survey of caregivers and professionals. **Ellen Van Wonterghem, Belgium**
- **OC-064** Exploring challenges and opportunities posed by COVID-19 on team working and the delivery of residential neurorehabilitation to children and young people with acquired brain injury. **Kathy Davis, United Kindom**



Room MR14 **Education/Cognitive**

**Chairs:** Lorna Wales. United Kingdom  
Lidia Rodríguez-García. Spain

- **OC-051** Long-term cognitive outcome following pediatric stroke: Associations with age at stroke. **Regula Everts, Switzerland.**
- **OC-052** Determinants of mathematical performance in children with Developmental Coordination Disorder. **Eliane Dionne, Canada.**
- **OC-053** Inhibition Skills in Children with and without DCD: Response Inhibition and Interference Control. **Teresa Joyce, United Kingdom.**
- **OC-054** Wellbeing and Occupational Awareness in Childhood: a school program. **Dulce María Romero-Ayuso, Spain**
- **OC-055** Introducing Spooniekids to clinical practice in residential eurorehabilitation setting for severe Acquired Brain Injury (ABI). **Joanna Hunt, United Kingdom.**
- **OC-056** Cognitive outcome is related to functional thalamo-cortical connectivity after pediatric stroke. **Leonie Steiner, Switzerland**
- **OC-057** Understanding implementation of an innovative language assessment tool: an international clinician survey. **Jael Bootsma, The Netherland**

**10.15-11.30 Actualización en el manejo del paciente pediátrico afecto de mielomeningocele.**  
Room MR12+13

**Moderadora:** Mar Meléndez Plumed, España

- Manejo global del paciente con mielomeningocele desde una unidad multidisciplinar sin límite de edad. **Mar Meléndez- Plumed, España**
- Cirugía prenatal del feto afecto de defecto del tubo neural abierto. **Elena Carreras, España**
- Estimulación precoz y fisioterapia del niño con secuelas de mielomeningocele. **Esther Olalla Hernando y Glòria Samanes Agreda, España.**
- Protocolo del manejo urológico en el niño con mielomeningocele. **Romy Gander, España**
- Protocolo del manejo del hábito intestinal en el niño con mielomeningocele **Adriana Farré –Jimenez, España**



**11.30-12.15** **Keynote. Quality of life after orthopedic surgery in ambulatory patients with cerebral palsy. Quality of life after orthopedic surgery in non-ambulatory patients with cerebral palsy**  
**Plenary Room**  
**Chair:** Bernard Dan. Belgium  
**Speakers:** Tom Novacheck, USA  
 Wade Shrader, USA

**12.15-13.15** **Oral communications**  
**Plenary Room**  
**OC: Early detection / premature**  
**Chairs:** Mijna Hadders-Algra. The Netherlands  
 Susana Trallero: Spain.

- **OC-072** Perinatal and Neonatal Predictors and Neurocognitive Profile of Children with/at Risk for Developmental Coordination Disorder. **Anna-Mari Ylä-Kojola, Finlandia.**
- **OC-073** Motor, visuospatial and navigation functions in toddlers born preterm: preliminary analysis of a prospective longitudinal study. **Nuria Martin-Pozuelo, Spain.**
- **OC-074** Is the Alberta Infant Motor Scale at 12 months associated with motor and gait outcomes at 4-5 years in children born very preterm?. **Reem Albeshar, Australia**
- **OC-075** Effects of early crawling training on the motor development of very premature infants. **Marianne Barbu-Roth, France.**
- **OC-076** Applications and Identification of Asymmetries in High-Risk Infants Using The General Movement Assessment and Hammersmith Infant Neurological Evaluation to Guide Early Intervention. **Jordan Avery, USA.**

**Room MR5+6** **Sponsored Symposium**  
**Sialorrhoea in Paediatric Patients with Neurological Disorders in Europe**

**CLINIGEN**

- Welcome and introduction
- Results of European Market Research. **Dr Henno Welgemoed, Clinigen Medical Affairs Director**
- Sialorrhoea: Why it is time to reconsider our approach to management. **Professor Jeremy Parr, Professor of Paediatric Neurodisability, Newcastle University, UK**
- Sialorrhoea in Individuals with Cerebral Palsy: Care Pathway Development. **Dr Laurie Glader, Section Chief, Division of Complex Care, Medical Director, Comprehensive Cerebral Palsy Program and Nationwide Children's Hospital, USA**
- Live Panel Discussion. **Dr Henno Welgemoed, Professor Jeremy Parr, Dr Laurie Glader, Dr Jan van der Burg, Dr Karen van Hulst**



Room MR7+8 **OC: Unilateral CP**

**Chairs:** Yannick Bleyenheuft. Belgium  
Laura Delgado. Spain

- **OC-077** Children with cerebral palsy show higher static, but not dynamic, motor fatigability in grip and pinch tasks than typically developing children. **Lieke Brauers, Belgium**
- **OC-078** Somatosensation in the dominant hand of children with unilateral cerebral palsy compared to typically developing children: How is the information processing? Preliminary results. **Patricia Jovellar-Isiegas, Spain**
- **OC-079** Best responders to Hand-Arm Bimanual Intensive Therapy Including Lower Extremities (HABIT-ILE) among children with unilateral cerebral palsy. **Enimie Herman, Belgium**
- **OC-080** Action Observation Training [AOT] to treat upper limb functions in infants with a unilateral brain lesion - a feasibility study . **Angela Botros, Switzerland**
- **OC-081** Neural correlates of mirror movements in children with arterial ischemic stroke. **Cristina Simon-Martinez, Spain**

Room MR12+13 **OC: Assessments**

**Chairs:** Katja Groleger. Slovenia  
Esther Toro. Spain

- **OC-082** Agreement of the World Health Organization Disability Assessment Schedule (WHODAS 2.0) between Parents and Youth with Physical Illness. **Mark Ferro, Canada**
- **OC-083** Challenge-20 test for measuring advanced motor skills in children with cerebral palsy: Age related norms with typically developing children. **Darko Milascevic, France**
- **OC-084** Test-retest reliability and agreement between observers for the Both Hands Assessment (BoHA) . **Gøril O. Johansen, Norway**
- **OC-085** Physical activity energy expenditure predicts quality of life in school-age ambulatory children with spastic cerebral palsy. **Jinuk Lee, Korea.**
- **OC-086** Responsiveness and performance discrimination of a modified Jebsen-Taylor Test of Hand Function scoring for children with unilateral cerebral palsy. **Astrid Carton De Tournai, Belgium**



Room MR14 **OC: Miscelanea**

**Chairs:** Mattijs Alsem. The Netherlands  
Rocio Puente. Spain

- **OC-087** A Retrospective Natural History Study of Physical Function in an Irish Duchenne Muscular Dystrophy Paediatric Population. **Aileen D'arcy, Irlanda**
- **OC-088** A retrospective study of the effect of Nusinersen and physiotherapy on specific motor skills in Spinal Muscular Atrophy. **Marina Vidal-Pedrós, Spain**
- **OC-089** Functional evolution according to the time of diagnosis and treatment of developmental dysplasia of the hip. **Beatriz Guzmán Illanes, Spain**
- **OC-090** Evaluation of the Effects of Family Socioeconomic Indicators, Family Burden Level on Child's Quality of Life in Adolescents with Cerebral Palsy. **Cemil Özal, Turkey**

**13.15-14.15 Lunch**

**13.15-14.15 Sponsored Symposium**

Room MR5+6 **The changing face of Spinal muscular atrophy**



- Evolving SMA phenotypes in a new therapeutic era. **Eduardo F. Tizzano, Spain**
- Respiratory care in children with SMA. **Sandra Espinosa, Spain**
- The impact of physical therapy on disease progression: motor outcomes and orthopedic consideration. **Giorgia Coratti, Italy**

Room MR7+8 **New ways for treating drooling in children**



- Management of Sialorrhea in children. **Adrián Garcia-Ron. Spain**
- New opportunities in the management of Paediatrics Sialorrhea – The SIPEXI Study (This study was funded by Merz Pharmaceuticals GmbH, Frankfurt/Main, Germany). **S. Berweck, Germany**



**14.15-15.30 Oral communications**

**Plenary Room European Society for Movement Analysis in Adults and Children (ESMAC)**

**Chair:** Morgan Sangeux, France  
Elegast Monbaliu, Belgium

- **OC-098** The impact of BMI progression on gait kinematics in children with cerebral palsy. **Karen Brady, Irlanda**
- **OC-099** Gait of preschool-age children born very preterm at risk for developmental coordination disorder. **Reem Albeshar, Australia**
- **OC-100** Long term goal attainment results of Robot - Assisted Gait Therapy in Cerebral Palsy Children - a large cohort prospective study. **Oliwia Śliwiana, Polonia**
- **OC-101** Reliability of the GAIT.SCRIPT interpretation tool to systematically assess gait impairments in children with spastic cerebral palsy. **Sarah Dekker, The Netherlands**
- **OC-102** The effect of prolonged walking on gait in children with cerebral palsy. **Marjolein Van Der Krogt, The Netherlands**
- **OC-103** The medium-term effects of selective dorsal rhizotomy on gait compared to a matched cerebral palsy control group: a follow-up study. **Andrea Marron, Irlanda**
- **OC-104** Development of the Walking Ability Level Classification System (WALCS) in cerebral palsy patients: inter-observer agreement, bio-psycho-social factors and implementation guidelines. **Ignacio Martínez Caballero/María Galán Olleros, Spain.**

**Room MR5+6 OC: Brain imagery / Neurophysiology**

**Chairs:** Els Ortibus. Belgium  
Cristina Simón. Switzerland

- **OC-091** Exploring structural brain connectomes and its impact on sensorimotor function in children with unilateral cerebral palsy. **Lisa Mailleux, Belgium.**
- **OC-092** Cerebral blood flow and cognitive outcome after pediatric stroke to the middle cerebral artery. **Regula Everts, Switzerland**
- **OC-093** Structural brain damage and high level visual function in children with cerebral palsy due to periventricular leukomalacia. **Francesca Tinelli, Italy**
- **OC-094** Functional and structural brain connectivity in children with bilateral cerebral palsy compared to age-related controls and in response to intensive rapid-reciprocal leg training. **Diane Damiano, USA**
- **OC-095** Cerebral blood flow and its association with cognitive and motor performance in pediatric cancer survivors. **Kirstin Schuerch, Switzerland**
- **OC-096** Corpus callosum white matter microstructures links to cognitive performance and functioning laterality in preterm and term born children. **Louise Rönnqvist, Sweden.**
- **OC-097** Asymmetry in sleep spindles predicts motor outcome in infants with unilateral brain injury. **Viviana Marchi, Italy.**



Room MR7+8 **OC: Participation**

**Chairs:** Jackie Casey. Sweden

María Gómez Vela. Spain

- **OC-105** Daily Functioning in Children with Developmental Coordination Disorder. How Do Learning, Performance and Participation Correlate?. **Laura Delgado-Lobete, Spain**
- **OC-106** A French national survey about innovative solutions needs to facilitate children and young with disabilities daily life and participation: An Artificial Intelligence-based analysis. **Johanne Mensah-Gourmel, France**
- **OC-107** Capturing participation patterns among transition-aged youth with visual impairments. **Mallory Ryan, Canada**
- **OC-108** Characterization of participation at home of infants with and without biological risk in the first year of life. **Beatriz Helena Brugnaro, Brasil**
- **OC-109** Supporting Participation of Children with and without Neurodevelopmental Conditions. The Role of Social and Physical Environment. **Laura Delgado-Lobete, Spain**
- **OC-110** Driving a wheelchair: you need to train to master the task. **Katja Groleger Srsen, Slovenia**
- **OC-111** Tailor-made tricycles in rehabilitation. **Berit Gjessing, Beitostølen, Norway**

Room MR14 **OC: Programmes**

**Chairs:** Nana Nino Tatishvili. Georgia

Rocío Palomo. Spain

- **OC-112** PERRIN Next Step: Better Together from Knowledge to Active practice. **Maureen Bult-Mulder, The Netherlands.**
- **OC-113** Introducing PRISM to clinical practice in residential neurorehabilitation setting for severe Acquired Brain Injury (ABI). **Lorna Wales, United Kingdom.**
- **OC-114** Cerebral Palsy as an Underlying Cause of Death. **Mark Peterson, USA.**
- **OC-115** ARRoW-CP: Gait rehabilitation with an Active Video Game for Children with Cerebral Palsy. Preliminary results. **Anne-Laure Guinet, France**

**14.15-15.30 Dolor crónico en la infancia.**

Room MR12+13

**Moderadora:** Beatriz de la Calle García, España

- Los niños también sufren dolor crónico. **Beatriz de la Calle García, España**
- Neurobiología del dolor y la analgesia en niños. **Juana Gallar Martínez, España**
- Tratamientos en Rehabilitación: **Inmaculada Riquelme, España**
- Psicología y dolor Infantil. **Jordi Miró, España**



**15.45-16.30** **Keynote. How to communicate prognostic information to families through GMFCS and set realistic goals together.**  
[Plenary room](#)

**Chair:** Arnab Seal, United Kingdom

**Speaker:** Peter Rosenbaum, Canada

**16.30-17.00** **Coffee break**

**17.00-18.30** **Adaptation of HABIT-ILE in children with bilateral CP to different dosage, schedules and cultures**  
[Plenary Room](#)

**Speakers:** Yannick Bleyenheuft, Belgium

Leanne Sakzewski, Australia

Andrew M. Gordon, USA

Transferability and adaptability of the HABIT-ILE concept to different schedules, clinical or cultural needs

**17.00-18.30** **BORNTOGETHERe: Implementation of early detection, surveillance, and intervention service delivery in infants at risk for cerebral palsy in Europe, SriLanka and Remote Queensland, Australia**  
[Room MR5+6](#)

**Chair:** Andrea Guzzetta

**Speakers:** Andrea Guzzetta, Jens Bo Nielsen, Nana Tatishvili, Arie Bos, Roslyn Boyd, Gopi Kitnasamy, Giuseppina Sgandurra

- Project description
- ED, ES and EI principles
- LEAP-CP international experience
- Discussion





**17.00-18.30** **Feeding intolerance in children with severe neurological impairment - an increasing threat to life. An international comparison of the definitions, assessment and management approaches**  
 Room MR7+8

**Chair:** Giuliana Antolovich, Australia

- Feeding failure - the next frontier in severe neurodisability. **Zoe McCallum, Australia**
- Symptoms and conditions of the dysfunctional gastrointestinal tract in severe neuro-disability. **Monica Cooper, Australia**
- Approaches to palliative care in end-stage feeding intolerance. **Bronwyn Sacks, Australia**
- International approaches to assessing and managing feeding intolerance in neurodisability. **Catherine Diskin, Australia**
- The hidden family burden of feeding intolerance in paediatric neurodisability. **Ingrid Sutherland, Australia**

**17.00-18.30** **Families Support Group**  
 Room MR14 **Chairs:** Teresa Mano Da Costa. Portugal  
 Claudia Tecglen. Spain

- **OCF-01** Co-designing resources to improve the transition from child to adult health services for young people with cerebral palsy: A design thinking approach. **Jennifer Fortune. Irlanda**
- **OCF-02** The patient and public involvement (PPI) of adults with cerebral palsy in doctoral research during the pandemic: reflections on the process, challenges, impact and experiences. **Manjula Manikandan. Irlanda**
- **OCF-03** "Finding better ways to put therapy into practice" How functional goal-setting for daily activities (i-ADL) can be used in an e-health environment to better meet family needs and improve rehabilitation outcomes. **Inez van der Ham. The Netherlands**
- **OCF-04** Early childhood intervention - from theory to practice, by families eyes. **Isabel Catarina Martins. Portugal**
- **OCF-05** Passion for potential: developing expectation environments. **Beth Moulam. United Kingdom**
- **OCF-06** Lived experience of parents through a standard structured universal practice model of intervention called Kolkata Development Model. **Anja Bhattacharya. India**
- **OCF-08** What are your superpowers? - Why families need strengths – based approach. **Katarzyna Swieczkowska. Polonia**



**17.00-18.30** **Guía de consenso española de los productos de apoyo para la movilidad y el posicionamiento en bipedestación y sedestación.**  
[Room MR12+13](#)

**Ponentes:** Juan Andres Conejero, Lourdes Macias, Patricia Jovellar, Gloria Pomares, Mercedes Martinez

**20.00** **Gala Dinner**

*Saturday, May, 21st 2022*

**07.30-08.45** **Technology Special interest group (SIG)**

[Plenary Room](#)

**07.30-08.45** **Video coaching in home-based upper limb training programs for infants and toddlers with (a high risk of developing) unilateral Cerebral Palsy**  
[Room MR5+6](#)

- Introduction. **Pauline Aarts, The Netherlands**
- 'Ingredients' of video coaching illustrated with videos. **Ingrid van den Tillaar, The Netherlands**
- Parents' experiences as a training provider in a home-based upper limb training program using a video coaching approach. **Anke Verhaegh, The Netherlands**
- Implications for clinical practice. **Judith van Munster, The Netherlands**
- Discussion

**07.30-08.45** **Movement Disorder-Childhood Rating Scale 0-3 - Revised (MD-CRS 0-3 R): an updated tool for the evaluation of movement disorders in the first years of life**  
[Room MR7+8](#)

**Chair:** Roberta Battini, Italy

- MD-CRS history. **Roberta Battini, Italy**
- MD-CRS 0-3 R assessment tool. **Roberta Scalise, Italy**
- MD-CRS Psychometric properties. **Giuseppina Sgandurra, Italy**
- MD-CRS 0-3 R videoprotocol and rater manual. **Valentina Menici, Italy**
- Practical session on how to score MD-CRS 0-3. **Valentina Menici, Roberta Scalise, Giuseppina Sgandurra, Roberta Battini, Italy**



**07.30-08.45 A model of muscle deformity in spastic cerebral palsy**

Room MR14 Chair: Adam Shortland, UK

- A primer in muscle physiology. **Adam Shortland, UK**
- The development of the neuromuscular system. **Martin Gough, UK**
- Neurological and myological phenomena in cerebral palsy. **Adam Shortland, UK**
- A pathophysiological model of the development of deformity in spastic cerebral palsy. **Martin Gough, UK.**

**07.30-08.45 Actualización del abordaje interdisciplinar en hemiplejía.**

Room MR12+13 Moderadora: Verónica Robles García, España

- Programas domiciliarios y campamentos en la hemiplejía infantil. **Patricia Roldan, España**
- El rol de las familias en la intervención fisioterapéutica. **Rocío Palomo, España**
- Abordaje de la espasticidad en la hemiplejía infantil. **Ana Melián Suarez, España**
- Soluciones tecnológicas para la vida diaria en la hemiplejía infantil: **Thais Pousada García/ Verónica Robles, España**

**07.30-08.45 Adult lifespan Special interest group (SIG)**

Room MR3

- Introduction. **Elisabet Rodby Bousquet, Sweden**
- Health, sleep, physical activity. **Mark Peterson, USA**
- Lessons learned MyStory project. **Jan Willem Gorter. The Netherlands**
- Knowledge translation. **Emma Livingstone**

**09.00-09.30 Keynote. Augmenting mobility in early childhood**

Plenary room

Chair: Ginny Paleg. USA

Speaker: Roslyng Livingstone, Canada

**09.30-10.00 Coffee break**



**10.00-11.30** **Innovations in measuring dystonia and choreoathetosis using sensors in children and youth with dyskinetic cerebral palsy**  
**Plenary room**

- Introduction. **Annemieke Buizer, The Netherlands**
- Current practice within clinics & research. **Elegast Monbaliu, The Netherlands & Helga Haberfehlner, Belgium**
- Use of mobile sensors to evaluate dystonia and choreoathetosis. **Inti Vanmechelen, Belgium**
- Measuring in a home-based environment. **Helga Haberfehlner, The Netherlands**
- Future perspectives in a clinical context. **Laura Bonouvrié, The Netherlands & Elegast Monbaliu, Belgium**
- Discussion Q&A

**10.00-11.30** **Strategies and Case Examples of the Implementation of the F-words for Child Development at an Organizational Level**  
**Room MR5+6**

**Speakers:** Rachel Teplicky  
Brittany Harding, Canada  
Kim Hesketh, Canada  
Danijela Grahovac, Canada

**10.00-11.30** **Unilateral Cerebral Palsy (UCP): What path to follow in the treatment of the affected upper limb? New approaches to increase the manual functionality**  
**Room MR7+8**

- New perspectives in the upper limb rehabilitation of children with UCP. **Maribel Ródenas, Spain**
- ¿Action observation therapy. Which is the role of the observation and of the action in its effectiveness? **Giuseppina Sgandurra, Italy & Elena Beani, Italy**
- ¿CIMT and/or BIT. Do these therapies have the same effect in children with UCP with different levels of bimanual functional performance? **Rocio Palomo, Spain**
- Evidences of Neuroplasticity. **Andrea Guzzetta, Italy**
- Parents' perspectives. **Xenia Díaz, Sapin**
- Open Discussion



**10.00-11.30** **Transforming Clinic Practice in Cerebral Palsy to Include Sexuality as a Critical Component of Discussion**  
Room MR14

**Chair:** Nathan Rosenberg, USA

**Speakers:**

- Introduction, polling, review of exposures in media, case presentation. **Nathan Rosenberg, USA**
- Review of available literature, identification of barriers. **Laurie Glader, USA**
- CP Parent and MSW perspective. **Sha Clark, USA**
- Identification of available communication tools. **Susan Gray, USA.**
- Open dialogue is encouraged throughout the session as opposed to just at the conclusion of speaking.

**10.00-11.30** **Inclusión en Escuelas Ordinarias: Una mirada interdisciplinar y familiar.**  
Room MR12+13

**Moderadora:** Carmen Matey, España

- Donde poner el foco. De intervenciones para la promoción de la inclusión del alumnado en la escuela ordinaria, al trabajo en equipo por una escuela inclusiva. **Marta Casbas, España**
- Inclusión, equidad y justicia social en la escuela. **Dolors Forteza, España**
- Logopedia para la inclusión en un equipo específico de comunicación y lenguaje. **Miquela Sastre, España**
- La perspectiva de la familia en la inclusión educativa. **Carmen Matey, España**

**11.45-12.30** **Keynote: Neurplasticity as a therapeutic target for intellectual disability**  
Plenary room

**Chair:** Kevin Rostasy. Germany

**Speaker:** **Mara Dierssen, Spain.** Join session with European Pediatric Neurology Society

**12.30-13.15** **Close Ceremony**  
Plenary Room