



## Friday, September 25, 2020

All session and presentation times are in the **Central Time (CDT) Zone** and are subject to change. Unsure how to convert times to your specific time zone; just click [here](#).

Times and presentations are subject to change.

### Lunch & Learn Seminars (formerly 'Breakfast Seminars')

**11:00 am - 12:00 pm, CDT; all "Lunch and Learn Seminars" run concurrently**

**LL15: Active ingredients of Activity and Participation focused Rehabilitation for children with Cerebral Palsy** | *Roslyn N. Boyd, PhD; Leanne Sakzewski, PhD, OT*

**LL16: Communication classification: how can it inform clinical practice?** | *Katy D. Caynes, BSpPath, PhD student; Leanne Johnston, PhD; Tanya Rose, PhD, BSpPath(Hon1); Debbie Burmester, BSpPath*

**LL17: Developing and testing a mental health intervention for young adults with developmental disabilities using a participatory approach** | *Ariel Schwartz, PhD; Jessica Kramer, PhD*

**LL18: Interdisciplinary Continence Clinic: Benefits of Collaboration of Nursing and Behavioral Therapy in Treating Bowel and Bladder incontinence in Children with Neurodevelopmental Disabilities** | *Susan Demetrides, MS, CRNP; Bridget G. Gibbons, MA*

**LL19: Making a Difference - Are we? What's the GOAL?** | *Unni Narayanan, MD; Pam Thomason, MPT*

**LL20: Orthopedic Management of Rett Syndrome: What's Tried and True and What's New** | *Michael W. Shrader, MD; Jason Howard; Uri Givon*

**LL21: Postural Contexts for Participation: Increasing Autonomy and Self-Efficacy of Children with GMFCS IV and V** | *Sandra Saavedra, MS, PT, PhD; Donna Snowdon, PT, MS, DPT; Danielle M. Bellows, PT, MHS, DHSc*

**LL22: Progress in multimodal brain imaging for neurorehabilitation research in children with cerebral palsy: Towards reproducible and open science** | *Samuel T. Nemanich, II, PhD, MSCl; Claudio L. Ferre, PhD; Christos Papadelis, PhD*

**LL23: Spinal Muscular Atrophy Update: Review of Genetic Pathophysiologic and Clinical Findings and How Genetic Treatments May Alter Clinical Course** | *Mark Gormley, Jr., MD; Supreet Deshpande, MD; Rachel Clark, MS*

**LL24: Systems Change: Promoting Early Detection and Intervention of Cerebral Palsy** | *Sandra Heimerl, DPT; Marybeth Barkocy, DPT; Virginia Paleg, DScPT*

**LL25: Transition for People with Spina Bifida: Update and Discussion of National Initiatives for Local Applications** | *Richard C. Adams, MD; Timothy J. Brei, MD; Paula Peterson, MS*



**LL26: Unlocking the potential of youth engagement in childhood disability research** | Linda Nguyen, BHS, MSc; Tram D. Nguyen, MS, PhD; Keiko Shikako-Thomas; Jan Willem Gorter, MD, PhD

**LL27: Upper Extremity Interventions for Infants and Toddlers with CP: State of the Science and Implementation Case Study** | Kelly J. Tanner, PhD; Jill Heathcock, MPT, PhD

**Break / Get Up and Move Activity (12:00 pm - 12:30 pm, CDT)**

**Free Paper Sessions (12:30 pm - 2:15 pm, CDT; "Free Paper Sessions E-H" run concurrently)**

**Free Paper Session E: Gait**

- |                     |  |
|---------------------|--|
| 12:30 pm - 12:37 pm | <b>E1: The Gait Outcomes Assessment List (GOAL) Questionnaire: Replication of Validation in a Gait Analysis Center</b>   <u>Jean L. Stout, MS, PT</u> ; Kathryn Walt, DPT; Andrew Georgiadis, MD   |
| 12:38 pm - 12:45 pm | <b>E2: Perceived limitations of walking in individuals with cerebral palsy</b>   <u>Jennifer A. Nelson, DPT</u> ; Elizabeth R. Boyer, PhD  |
| 12:46 pm - 12:53 pm | <b>E3: Long-term evolution of walking in patients with cerebral palsy: perception and objective gait parameters</b>   <u>Alice Bonnefoy-Mazure, PhD</u> ; Geraldo de Coulon, MD; Stéphane Armand, PhD  |
| 12:54 pm - 1:01 pm  | <b>E4: Charcot-Marie-Tooth type 1 and 2: a comparison of gait function using lower extremity mechanical work in youth</b>   <u>Sylvia Ounpuu, MSc</u> ; Erin Garibay; Kelly Pogemiller; Gyula Acsadi; Kristan A. Pierz, MD                               |
| 1:02 pm - 1:09 pm   | <b>E5: Can Community Ambulation Measures Serve as Complimentary Data to Gait Analysis Variables?</b>   <u>Kelly A. Jeans, MS</u> ; Wilshaw Stevens, Jr., BS; Robert Wimberly, MD; Lori A. Karol, MD  |
| 1:24 pm - 1:31 pm   | <b>E6: Gait Analysis at Your Fingertips: Accuracy and Reliability of Mobile App Enhanced Observational Gait Analysis in Children with Cerebral Palsy</b>   <u>Vedant A. Kulkarni, MD</u> ; Donald Kephart, MD; Anita Bagley, PhD, MPH; Jon R. Davids, MD |
| 1:32 pm - 1:39 pm   | <b>E7: Long and Short Term Kinematic Outcomes of Rectus Femoris Transfers in Ambulatory Children with Cerebral Palsy</b>   <u>Rubini Pathy, MD</u> ; Mary E. Gannotti, PT, PhD; Brianna Liquori, MS; George Gorton                                       |
| 1:40 pm - 1:47 pm   | <b>E8: Reactive Balance Responses to Repeated Surface Perturbations During Treadmill Walking in Adults with Cerebral Palsy and Adults without Disabilities</b>   <u>Ilana Levin,</u>   |



*PT, DPT, PhD; Michael D. Lewek, PT, PhD; Christopher K. Rhea, PhD; Richard Faldowski, PhD; Deborah E. Thorpe, PT, PhD*

1:48 pm - 1:55 pm

**E9: Factors Associated with Walking Activity in Adults with Cerebral Palsy** | *Nancy Lennon, PT; Chris Church, MPT; Michael W Shrader, MD; Tim Niiler, PhD, MS, MA, BS; Thomas Shields; Julieanne Sees, DO; Freeman Miller, MD; John Henley, PhD*

1:56 pm - 2:03 pm

**E10: Effect of Pediatric Orthopedic Intervention on Ambulatory Adults with Cerebral Palsy: A long-term longitudinal assessment** | *Julieanne Sees, DO; Tanyawat Saisongcroh, MD; Freeman Miller, MD; Michael W Shrader, MD; Chris Church, MPT; Nancy Lennon, MPT*

**Free Paper Session F: Rehab**

12:30 pm - 12:37 pm

**F1: Parenting acceptance and commitment therapy (PACT): Preliminary findings from a RCT with families of children with cerebral palsy (CP)** | *Catherine Mak, PhD; Koa Whittingham, PhD, BA, BSc, MAPS; JeanieSheffield, PhD; Roslyn N. Boyd, PhD*

12:38 pm - 12:45 pm

**F2: Improvements in hand function after unimanual or bimanual training are independent of corticospinal tract laterality** | *Claudio L. Ferre, PhD; Marina B. Brandao, PhD; Karen Chin, MA; Veronique H. Flamand, PhD, OT; Ana Bonouvrié-Smorenburg, PhD; Talita C. Campos, MA; Maxime Robert, PhD; Yannick Bleyenheuft, PhD; Jason B. Carmel, MD, PhD; Andrew M. Gordon, PhD; Kathleen M. Friel, PhD; Hsing-Ching Kuo, PhD*

12:46 pm - 12:53 pm

**F3: Reorganization of the sensori-motor system in children with congenital hemiplegia after Action Observation Training affects: A pilot study** | *Giuseppina Sgandurra, MD, PhD; Laura Biagi, PhD; Adriano Ferrari, MD; Leonardo Fogassi, Prof; Elisa Sicola, PT; Andrea Guzzetta, MD, PhD; Giovanni Cioni, MD; Michela Tosetti*

12:54 pm - 1:01 pm

**F4: Manual abilities Are Associated with Cognition in Children with cerebral palsy** | *Thais Invencao Cabral, PhD; Tanya Tripathi, PhD; Jill Heathcock, MPT, PhD*

1:02 pm - 1:09 pm

**F5: Quantifying and Examining Engagement Levels during Therapeutic Interventions in Children with Cerebral Palsy** | *Dalina Delfing, MS; Larissa Hentrich, BA; Jaya Rachwani, PhD; Victor Santamaria, PT, MS, PhD; Christine Imms, PhD, MSc, BAppScOT; Andrew M. Gordon, PhD*



1:24 pm - 1:31 pm **F6: To what extent can motor skill training improve the structural connectivity of the corticospinal tract fibers in children with cerebral palsy?** | Yannick Bleyenheuft, PhD; Laurence Dricot, UCLouvain, PhD, Ir; Daniela Ebner-Karestinos, PT; Julie Paradis, PhD; Geoffroy Saussez; Anne Renders; Anne De Volder; Rodrigo Araneda, PhD; Andrew M. Gordon; Kathleen M. Friel, PhD

1:32 pm - 1:39 pm **F7: Rehabilitation status of children with Cerebral Palsy in low-and middle-income countries: findings from the Global LMIC CP Register** | Mahmudul Hassan Al Imam, CSF Global, MPH; Israt Jahan, MPH; Mohammad Muhit, PhD; Manik C. Das, MBBS; Denny Hardianto, MPH; Francis Laryea, BS; Amir Banjara Chhetri, MA; Nadia Badawi, PhD; Gulam Khandaker, PhD

1:40 pm - 1:47 pm **F8: Evidence for Specificity in Pediatric Neurorehabilitation** | Megan Metzler, MSc; Linda Fay; Kathleen O'Grady; John Andersen; Darcy Fehlings, MD, MSc, FRCP(C); Shannon Harvey; Mia Herrero; Adam Kirton

1:48 pm - 1:55 pm **F9: Relationship Between Mobility and Problem Solving Skills in Young Children with Heterogeneous Motor Abilities** | Ketaki Inamdar, MPT; Rebecca Molinini, DPT; Audrey E. Kane, PhD, OTR/L; Lin-Ya Hsu, PhD; Natalie A. Koziol, PhD; Regina T. Harbourne, PhD; Sarah Westcott McCoy, PhD; Michele A. Lobo, PT, PhD; James A. Bovaird, PhD; Stacey Dusing, PhD

1:56 pm - 2:03 pm **F10: Measuring Patient Engagement in a National Research Network** | Keiko Shikako-Thomas; Miriam Gonzalez, PhD; Jonathan Weiss, PhD; Connie Putterman; Annette Majnemer, OT, PhD, FCAHS

**Free Paper Session G: International**

12:30 pm - 12:37 pm **G1: Epidemiology of epilepsy in children with cerebral palsy in Southern Nigeria** | Roseline E. Duke, MBBS; Chimaeze Tory, FWACP; Richard Bowman, MD; Kathryn Burton, MD

12:38 pm - 12:45 pm **G2: Epidemiology of cerebral palsy in low and middle- income countries: preliminary findings from an international multi-centre cerebral palsy register** | Gulam Khandaker, PhD; Israt Jahan, MPH; Mohammad Muhit, PhD; Mahmudul Hassan Al Imam, MPH; Denny Hardianto, MPH; Francis Laryea, BS; Amir Banjara Chhetri, MA; Tasneem Karim, MBBS, MPH; Hayley SmithersSheedy; Sarah McIntyre, PhD; Nadia Badawi, PhD

12:46 pm - 12:53 pm **G3: Developing Indian Participation and Environment Measure- Children and Youth using Applied Cultural**



**Equivalence Framework** | *Vrushali Kulkarni, BTh.; Roopa Srinivasan, DnB Pediatrics*

- 12:54 pm - 1:01 pm  
**G4: Update from the Cerebral Palsy Research Network- 2020**  
| *Garey Noritz, MD; Lama Albarqawi, MS; Kristie Bjornson, PT, PhD; Robert J. Bollo, L, MD; Jeffrey Raskin; Jacob Kean, PhD; Jeffrey Leonard, MD; Brandon Rocque, MD, MS; Manish N. Shah, MD; Benjamin Shore, MD MPH; Paul H. Gross, BA*
- 1:02 pm - 1:09 pm  
**G5: Mapping the Use of the International Classification of Function, Disability and Health (ICF) in Child Health Care Reference Centers in Brazil** | *Ana R. Lindquist; Isabelly R. Regalado; Keiko Shikako-Thomas; Camila R. Simão; Letícia D. Maciel; Egmar Longo, PhD*
- 1:24 pm - 1:31 pm  
**G6: Prevalence and severity of individuals with cerebral palsy in Scandinavia and Scotland, a CP-North study** | *Sandra J. Hollung, MS, PhD; Gunnar Hägglund, MD, PhD; Mark Gaston, MD; Bjarne Møller-Madsen, MD, DMSc; Ann Alriksson-Schmidt, MSPH, PhD; Guro L. Andersen, MD, PhD*
- 1:32 pm - 1:39 pm  
**G7: Cerebral palsy and health inequity in Bangladesh: Findings from the Bangladesh Cerebral Palsy Register** | *Tasneem Karim, MBBS, MPH; Israt Jahan, MPH; Manik C. Das, MBBS; Mahmudul Hassan Al Imam, MPH; Mohammad Muhit, PhD; Nadia Badawi, PhD; Gulam Khandaker, PhD*
- 1:40 pm - 1:47 pm  
**G8: Prevalence and severity of children with cerebral palsy born in Norway to immigrant mothers** | *Sandra J. Hollung, MS, PhD; Torstein Vik, MD, PhD; Guro L. Andersen, MD, PhD*
- 1:48 pm - 1:55 pm  
**G9: Epidemiology of malnutrition among children with cerebral palsy (CP) in low- and middle- income countries (LMICs): preliminary findings from the Global LMIC CP Register** | *Israt Jahan, MPH; Mohammad Muhit, PhD; Mahmudul Hassan Al Imam, CSF Global, MPH; Manik C. Das, MBBS; Denny Hardianto, MPH; Francis Laryea, BS; Nadia Badawi, PhD; Gulam Khandaker, PhD*
- 1:56 pm - 2:03 pm  
**G10: Adult Cerebral Palsy Patient Reported Outcomes Registry: Preliminary Report on Changes Across Lifespan in Gross Motor, Manual Abilities, and Communication Function**  
| *Mary E. Gannotti, PT, PhD; Deborah E. Thorpe, PT, PhD; Edward A. Hurvitz, MD; Garey Noritz, MD; Bethann Sennett, EdD; Linda E. Krach, MD; Michael E. Msall; Henry G. Chambers, MD; Susan Horn, PhD; Paul H. Gross, BA*

**Free Paper Session H: Classification and Medical Mix**



- 12:30 pm - 12:37 pm **H1: The Functional Communication Classification System – Extended reliability and validity for children with cerebral palsy aged 2 to 4 years** | Katy D. Caynes, BSpPath; Tanya Rose, PhD, BSpPath; Debbie Burmester, BSpPath; Robert Ware, PhD; Leanne Johnston, PhD
- 12:38 pm - 12:45 pm **H2: Testing the reliability of the Autism Classification System of Functioning: Social Communication-Integrated, for children and youth ages 2 to 21 years** | Peter Rosenbaum, MD, FRCP(C), DSc (HC); Briano Di Rezze, PhD, OT Reg(Ont.) Mary Jo C. Hidecker, PhD, MS, MA, CCC-A/SLP; Lonnie Zwaigenbaum, MD, FRCP(C); Caroline Roncadin, C.Psych.; Eric Duku, PhD., P.Stat; Stephen J Gentles, MSc, PhD; Stelios Georgiades, BA, MA, PhD; Helena Viveiros, BA, BSc; Hanna Fang, BSc, MSc
- 12:46 pm - 12:53 pm **H3: High practice variability in cerebral palsy diagnosis: need for clarification of the consensus definitions?** | Bhooma R. Aravamuthan, MD, DPhil; Darcy Fehlings, MD, MSc, FRCP(C); Sheetal Shetty, PhD; Michael Fahey, MD; Laura Gilbert, DO MBA; Ann Tilton, MD; Michael C. Kruer, MD
- 12:54 pm - 1:01 pm **H4: Novice rater accuracy and reliability following orientation to three different communication classifications** | Katy D. Caynes, BSpPath; Tanya Rose, PhD, BSpPath; Debbie Burmester, BSpPath; Robert Ware, PhD; Leanne Johnston, PhD
- 1:02 pm - 1:09 pm **H5: Advanced gross motor assessment tools for ambulant school-aged children with cerebral palsy: a systematic review and decision tree** | Georgina L. Clutterbuck, BS
- 1:24 pm - 1:31 pm **H6: How Congenital Zika Virus impacted my child's functioning and disability: a Brazilian qualitative study guided by the ICF** | Verónica Schiariti, PhD; Taynah Neri C. Campos; Melissa Gladstone, PhD; Egmar Longo, PhD
- 1:32 pm - 1:39 pm **H7: Differences in attention and cognitive outcomes in children at eight/nine years of age following neonatal cardiac and non-cardiac surgery** | Natalie Fairbairn, MPH; Iona Novak, PhD; Nadia Badawi, PhD; Antoinette Hodge; Claire Galea, MS; Alison Loughran-Fowlds
- 1:40 pm - 1:47 pm **H8: Understanding The Use Of The Affected And Unaffected Arm By Mapping Simple And Complex Fine Motor Skills In Children With Hemiparesis** | Tanya Tripathi, PhD; Thais Invencao Cabral, PhD; Gardenia Barbosa, PhD; Amy Darragh, PhD, OTR; Sharon Ramey, PhD; Stephanie C. DeLuca, PhD; Jill Heathcock, MPT, PhD



1:48 pm - 1:55 pm

**H9: Interventions for improving upper extremity function in children with severe involvement: a systematic review** | *Alice Chu, MD; Yash M. Shah, BS; Kunj Jain, BA; Vaishali Ravikumar, BS; Anugya Mittal, BA*

1:56 pm - 2:03 pm

**H10: Noninvasive vagus nerve stimulation (VNS) increases activity-dependent plasticity and feeding volumes in dose responsive manner in infants slated for G-tube** | *Patricia Coker-Bolt, PhD, OTR/L, FAOTA, FNAP; Dorothea Jenkins, MD; Turki Aljuhani, MA, BAppSc (OT)*

### Instructional Courses

**2:30 pm - 4:30 pm, CDT; all "Instructional Courses" run concurrently**

**IC15: ACQUIRE Conceptual Framework: Identifying the moving pieces to an intensive behavioral approach to the treatment of children with disabilities** | *Dory Wallace, MS; Mary Rebekah Trucks, MS; Stephanie C. DeLuca, PhD*

**IC16: Assessing Activity Level Outcomes using the Pediatric Evaluation of Disability Inventory- Computer Adaptive Test (PEDI-CAT) family of measures** | *Jessica Kramer, PhD; Maria A. Fragala-Pinkham, PT, DPT, MS; Benjamin Shore, MD MPH; Rawan AlHeresh, PhD, OTR/L*

**IC17: Cutting Edge Technology: "Unmasking the Potential of Individuals with Childhood Acquired Disabilities." Hype or Hope?** | *Anna M. McCormick, MD FRCPC; Cole Galloway, PT, PhD, FAPTA; Deborah J. Gaebler-Spira, MD; Sarah H. Evans, MD; Hana Alazem, MD, FRCPC; Adam Kirton, MD MSc FRCPC*

**IC18: Adults with Cerebral Palsy: Bringing Research into the Clinic** | *Edward A. Hurvitz, MD; Mark Peterson, PhD; Daniel G. Whitney, PhD; Heidi Haapala, MD; Mary Schmidt, DO; Dayna K. Ryan, PT, DPT, NCS, DPT, NCS*

**IC19: In need of respite?: Resilience building for providers caring for children with multidisciplinary care needs.** | *Kristie Malik, MD; Emily Goodwin, MD; Kathleen Huth, MD MMSc*

**IC20: Roles of Distal Femoral Extension Osteotomy and Patellar Tendon Advancement in the Treatment of Severe Persistent Crouch Gait in Adolescents and Young Adults with Cerebral Palsy** | *Tom F. Novacheck, MD; Elizabeth R. Boyer, PhD; Jackie Norling, MPT; Jean L. Stout, MS, PT; Elizabeth W. Weber, MD, MS*

**IC21: Saving the Hips: Therapists and Physicians Working Together** | *Virginia Paleg, DScPT; Unni Narayanan, MD; Elisabet Rodby-Bousquet, PhD; Wade Shrader, MD; Jan Willem Gorter, MD, PhD*



**IC22: Sex in the CP- sexuality and life span care in people with cerebral palsy** | *Heakyung Kim, MD; Amber Newell, CPNP, OTR/L; Jan Moskowitz, LCSW, CCLS; Susan C. Labhard, MSN*

**IC23: Using Implementation Science to Accelerate the Adoption of Evidence-Based Practices for Resistance Training in Cerebral Palsy** | *Nicole Harris, MPT; Noelle G. Moreau, PhD, PT; James B. Hedgecock, DPT; Michelle M. Roy, PT; Matthew Prowse, MD, FRCPC, CSCN (EMG)*

**IC24: The Role of Joint Kinetics in Understanding Gait Pathology and Treatment Decision-making** | *Sylvia Ounpuu, MSc; Kristan A. Pierz, MD; Jennifer Rodriguez-MacClintic*

**IC25: The Year's Top Ten Articles In Developmental Disabilities** | *Richard C. Adams, MD; Nancy A. Murphy, MD*

**IC26: Unmasking Neuromuscular Electrical Stimulation Potential to Improve Function for Individuals with Cerebral Palsy** | *Kelly R. Greve, PT, DPT, PhD; Christopher F. Joseph, DPT; Jessica Rose, PhD*

**Break / Get Up and Move Activity (4:30 pm - 5:00 pm, CDT)**

**General Session (5:00 pm - 7:00 pm, CDT)**

5:00 pm - 5:40 pm	<b>MacKeith Press Basic Science Lecture</b>   <i>Joanne Kurtzberg, MD</i>
5:40 pm - 6:00 pm	<b>Mentorship Award</b>   <i>Mauricio Delgado, MD</i>
6:00 pm - 7:00 pm	<b>Point/Couter-Point Lecture</b>   <i>Jason J. Howard, MD; Mark Gormley, Jr., MD</i>