



Thursday, September 24, 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

LL01: "We don't have access to all things": Supportive Mobility from the Lived Perspective of People with Cerebral Palsy Across the Lifespan | *Kristie Bjornson, PT, PhD; Heather A. Feldner, PT, PhD, PCS; Deborah Gaebler-Spira, MD*

LL02: Acute Flaccid Myelitis (AFM): A formidable malady in the 21st century | *Rajashree Srinivasan, MBBS; Laura L. Owens*

LL03: Advances in clinical and instrumental evaluation of oropharyngeal dysphagia in infants and young children with cerebral palsy | *Amanda Khamis, B.App.Sc. (Sp Path); Katherine Benfer, Doctor of Philosophy; Jane Pettigrew, B.App.Sc. (Sp Path), M.A. (Com Dis)*

LL04: Interpreting Hip Surveillance X-Rays with the HipScreen App: A Primer for the Radiology Novice | *Vedant A. Kulkarni, MD; Jon R. Davids, MD; Suzanne Bratkovich, MSPT; Pam Thomason, B Phty, M Physio*

LL05: It Takes A Village: An Interdisciplinary Approach to Patient and Family Pre-Operative Education | *Jackie Norling, MPT; Amy Grossman, MSW, LICSW; Natalie Kinsky, MS, BA; Sara Moga, MSN, RN, PHN*

LL06: Management of the spastic upper extremity in hemiplegic children using a multidisciplinary approach | *Supreet Deshpande, MD; Deborah Bohn, MD*

LL07: Navigating the Updated National Institute of Neurological Disorders and Stroke Cerebral Palsy Common Data Elements Website | *Robin S. Feldman, BS, MBA; Theresa Sukal-Moulton, PT, DPT, PhD; Carolina Mendoza-Puccini, MD*

LL08: Pearls and pitfalls of measuring fidelity in early intervention clinical trials for infants at high risk of cerebral palsy | *Kimberley S. Scott, DPT; Roslyn N. Boyd, PhD; Leanne Sakzewski, PhD, OT; Jill Heathcock, MPT, PhD*

LL09: Physical and Mental Health Outcomes in Cerebral Palsy across the Lifespan: Insights from the Clinic and Large Population-Representative Cohorts | *Mark Peterson, PhD; Edward A. Hurvitz, MD; Daniel G. Whitney, PhD*

LL10: Practical approaches to enhancing compliance with rehabilitation recommendations such as bracing and home exercise programs | *Nathan S. Rosenberg, MD; Natalie P. Truba, PhD; Catie Christensen, PT, DPT, PCS*

LL11: Recent Practice Changing Publications for the Pediatric Complex Care Provider | *Kristie Malik, MD; Sarah K. Luthy, MD, MSCS; Anna Jesus, MD, MBE; Irene C. Dietz, MD*



LL12: Standardizing psychosocial evaluations when assessing candidacy for intrathecal baclofen therapy in children who do not ambulate | *Fabiola I. Reyes, MD; Holly Roach, OT; Whitney Herge, PhD; Julie Rogers, MSW*

LL13: Unmasking the research potential in rare diseases: Creation of a multi-stakeholder registry | *Noemi Dahan-Oliel, OT, PhD; Vasiliki Betty Darsaklis, OT, MSc; Michael Aiona, MD; Frank Rauch, MD*

LL14: Nontraditional Rhizotomy Applications: stepping outside of the box for hemiplegia, diplegic spasticity of non-cerebral origin, nonambulating and adult patients | *Marcie Ward, MD; Patrick Graupman, MD; Tim Feyma, MD*

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

Free Paper Sessions (12:30 pm - 2:15 pm, CDT; "Free Papers Sessions A-D" run concurrently)

Free Paper Session A: Ortho-Lower Extremity

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| 12:30 pm - 12:37 pm | A1: Assessing Surgeon Decision Making for Treatment of Unilateral Hip Displacement in Children with Cerebral Palsy <i>Maria Juricic, PT; Stacey Miller, PT; Nandy Fajardo, BS; Judy So, BS; Benjamin Shore, MD MPH; Unni Narayanan, MD; Kishore Mulpuri, MBBS, MS(Ortho), MHSc(Epi)</i> |
| 12:38 pm - 12:45 pm | A2: Palliative treatment options for spastic hip dislocations in cerebral palsy children with severe pain complaints <i>Aleksander Koch, MD; Joanna Krasny, MD; Maria Wolff; Marek Jozwiak, PhD</i> |
| 12:46 pm - 12:53 pm | A3: Hip Surveillance: A Multi-Disciplinary Quality-Improvement Initiative with Standardized Reporting for Children with Cerebral Palsy <i>Amanda T. Whitaker, MD</i> |
| 12:54 pm - 1:01 pm | A4: Surgical Outcomes of Children with Syndromic Hip Dysplasia <i>Sayan De, MD; Wade Coomer, BS; Sophie Seward, BS; Jason Rhodes, MD; Lori Silveira, PhD</i> |
| 1:02 pm - 1:09 pm | A5: Intraoperative hip arthrography in neuromuscular hip reconstruction: Can we reliably decide which children require concomitant pelvic osteotomy? <i>Colyn Watkins, MD; Laura Lins, MPH; Patricia Miller, MS; Travis Matheney, MD; Brian Snyder, MD PhD; Kemble Wang, MD; H. Kerr Graham, MD; Benjamin Shore, MD MPH</i> |
| 1:24 pm - 1:31 pm | A6: Genu Valgum Following Distal Femoral Extension Osteotomy in Children with Cerebral Palsy <i>Sayan De, MD; Wade Coomer, BS; Patrick Carry, MS; Marisa Flores, BS; Jason Rhodes, MD</i> |
| 1:32 pm - 1:39 pm | A7: Anterior Distal Femoral Hemiepiphysiodesis With and Without Patellar Tendon Advancement for Fixed Knee |



Contractures in Children With Cerebral Palsy | Robert M. Kay, MD; Susan Rethlefsen; Alison Hanson; Tishya Wren; Oussama Abousamra

1:40 pm - 1:47 pm

A8: Factors Associated with Gross Motor Recovery during Rehabilitation Following Single-Event Multilevel Surgery (SEMLS) for Youth with Cerebral Palsy | Nancy Lennon, PT; Grace E. Gerry; Jason Beaman, MPT; Nicole Mamula, OTR/L; Abigail Gilmore, OTR/L; Tim Niiler, PhD, MS, MA, BS; Laura L. Owens, MD

1:48 pm - 1:55 pm

A9: Long-term outcomes of femoral derotation osteotomy in ambulatory individuals with cerebral palsy | Elizabeth R. Boyer, PhD; Kathryn Walt, DPT; Antonio Munoz, MD; Michael Healy, MD; Michael H. Schwartz, PhD; Tom F. Novacheck, MD

1:56 pm - 2:03 pm

A10: Does orthopedic surgery mitigate joint pain in individuals with cerebral palsy? | Zachary B. Novaczyk, BS; Tom F. Novacheck, MD; Chantel C. Barney, PhD; Frank Symons, PhD; Elizabeth R. Boyer, PhD

Free Paper Session B: Early Intervention

12:30 pm - 12:37 pm

B1: Development of Reaching Behaviors Across Time in Infants with Varying Levels of Motor Delay | Andrea Baraldi Cunha, PhD; Iryna Babik, PhD; Rachel Gaston; Regina T. Harbourne, PhD; Stacey Dusing, PhD; Sarah Westcott McCoy, PhD; James A. Bovaird, PhD; Michele A. Lobo, PT, PhD

12:38 pm - 12:45 pm

B2: Structured neonatal physical therapy (SNP) program in moderate to late preterm (MLP) infants: Outcome on motor, cognition and language development at 3 and 6 months of age | Sonia Khurana, PhD; Bhamini K. Rao, PhD; Leslie E. Lewis, MBBS, DCH, DNB; Senthil Kumaran, PhD; Asha Kamath, PhD; Stacey Dusing, PhD

12:46 pm - 12:53 pm

B3: Infant Motor Profile: Predictivity of neurodevelopmental disorders in a population of high-risk infants | Giuseppina Sgandurra, MD, PhD; Riccardo Rizzi, MD; Valentina Menici, PT; Veronica Barzacchi, PT; Elena Beani, PT, PhD; Martina Orlando, PT; Matteo Giampietri, MD; Giovanni Cioni, MD

12:54 pm - 1:01 pm

B4: Measuring early problem solving skills in young children with motor impairments: A validation study | Rebecca M. Molinini, DPT; Natalie A. Koziol, PhD; Tanya Tripathi, PhD; Ketaki Inamdar, MPT; Regina T. Harbourne, PhD; Michele A. Lobo, PT, PhD; Sarah Westcott McCoy, PhD; James A. Bovaird, PhD; Stacey Dusing, PhD



- 1:02 pm - 1:09 pm **B5: Quality of life and Motor impairments identified at 3.5-5.5 years of age using the Movement Assessment Battery for Children-2** | *Raye-Ann deRegnier, MD; Lynn Boswell, MS; MaryKay Santella, PT; Annamarie Russow, MED; Deborah Gaebler, MD*
- 1:24 pm - 1:31 pm **B6: Relationship between reaching and type of toys in infants with hemiparetic cerebral palsy** | *Gardenia O. Barbosa, PhD; Thais Invencao Cabral, PhD; Tanya Tripathi, PhD; Menglin Xu, PhD; Amy Darragh, PhD, OTR; Sharon Ramey, PhD; Stephanie C. DeLuca, PhD; Jill Heathcock, MPT, PhD*
- 1:32 pm - 1:39 pm **B7: Effectiveness of associative learning-based interventions on motor, cognitive and feeding outcomes in infants: A Systematic review** | *Ketaki Inamdar, MPT; Sonia Khurana, PhD; Stacey Dusing, PhD*
- 1:40 pm - 1:47 pm **B8: Understanding parents' experiences of their infant's diagnosis of cerebral palsy and health professionals' perspectives on early diagnosis** | *Catherine Mak, PhD; Corrine Dickinson; Jeanie Sheffield, PhD; Roslyn N. Boyd, PhD; Koa Whittingham, PhD, BA, B Sc (Hons), MAPS*
- 1:48 pm - 1:55 pm **B9: Long term change in object permanence in infants with motor delays: group and individual differences in START-Play and usual Early Intervention** | *Karl Jancart; Regina T. Harbourne, PhD; Stacey Dusing, PhD; Michele Lobo; Natalie A. Koziol, PhD; James A. Bovaird, PhD; Sarah Westcott McCoy, PhD; Lin-Ya Hsu, PhD; Andrea Baraldi Cunha, PhD; Mihee An*

Free Paper Session C: Adult

- 12:30 pm - 12:37 pm **C1: An international clinical study on impairments and disability in adults with cerebral palsy as a base for developing an ICF Core Set** | *Suzie Noten, MSc; Elisabet Rodby-Bousquet, PhD; Chonnanid Limsakul, MD; Fay Visser, MSc; Suttipong Tipchatyotin, MD, PhD; Vincent de Groot, MD, PhD; Anneke Grootoonk, PA; Manin Konijnenbelt, Drs; Francisca E. Meuzelaar-Kiezebrink, MD; Wilma M. van der Slot, MD, PhD; Rita J. van den Berg-Emons, PhD; Melissa Selb, MSc; Marij E. Roebroek, PhD*
- 12:38 pm - 12:45 pm **C2: The mortality and chronic disease burden of non-trauma fracture for adults with cerebral palsy** | *Daniel Whitney, PhD; Edward A. Hurvitz, MD; Mark Peterson, PhD*
- 12:46 pm - 12:53 pm **C3: Disability due to pain and health related quality of life in adolescents and adults with cerebral palsy living in urban South Africa** | *Roshaan Salie, MSc; Maaike M. Eken, PhD; A G.*



Fieggan, MD, FCS(SA); Kirsten A. Donald, PhD; Nelleke G. Langerak, MSc, PhD

12:54 pm - 1:01 pm

C4: Adults with cerebral palsy report similar levels of patient reported outcomes despite undergoing two distinct spasticity management strategies during childhood: Preliminary results of a long-term multi-center study | Meghan E. Munger, MPH; *Brian Po-Jung Chen, MD; Elizabeth A. Duffy, MPH; Bruce A. MacWilliams, PhD; Mark L. McMulkin, PhD; Lisa H. Carter, PT; Shelley L. Mader, PT; Brianna Hayes, MS; Tom F. Novacheck, MD; Kristen L. Carroll, MD; Alan k. Stotts, MD; Glen O. Baird, MD; Michael H. Schwartz, PhD*

1:02 pm - 1:09 pm

C5: Impact of Pain location, intensity, and interference across the adult life course: pilot findings from the Adult Cerebral Palsy Patient Reported Outcomes Registry | Mary E. Gannotti, PT, PhD; *Deborah E. Thorpe, PT, PhD; Edward A. Hurvitz, MD; Garey Noritz, MD; Michael E. Msall; Bethann Sennett, EdD; Linda E. Krach, MD; Henry G. Chambers, MD; Susan Horn, PhD; Paul H. Gross, BA*

1:24 pm - 1:31 pm

C6: Experiences of Ageing and Sexual and Reproductive healthcare for women with cerebral palsy (CP) across the life course | Sonali Shah, PhD; *Caroline Bradbury-Jones, PhD; Julie Taylor, PhD*

1:32 pm - 1:39 pm

C7: Early indicators of cardiovascular disease are evident in children and adolescents with cerebral palsy | Nevin Hammam, PhD; *Harald Becher, PhD, MD; John Andersen, MD; Patricia J Manns, PhD; Jackie Whittaker, PhD; Lesley Pritchard-Wiart, PhD*

1:40 pm - 1:47 pm

C8: Determining blood pressure levels in adults with cerebral palsy: a systematic review and meta-analysis of individual participant data | Suzie Noten, MSc; *Wilma M. van der Slot, MD PhD; Deborah E. Thorpe, PT, PhD; Patricia C. Heyn, PhD; Christina M. Marciniak, MD; Patrick G. McPhee, PhD; Robert P. Lamberts, MSc, PhD, FECSS; Nelleke G. Langerak, MSc, PhD; Olaf Verschuren, PhD; Tommi Salokivi, MD; Katherine Morrison, PhD; Grigorios Papageorgiou, MSc; Rita J. van den Berg-Emons, PhD*

1:48 pm - 1:55 pm

C9: Physical activity in adults with cerebral palsy | Maaïke M. Eken, PhD; *Thulfieq Behardien, MPH; Roshaan Salie, MSc; Robert Lamberts, PhD; Nelleke G. Langerak, MSc, PhD*



1:56 pm - 2:03 pm

C10: Microstructural Changes within the Cervical Spinal Cord of Adults with Cerebral Palsy | Michael P. Trevarrow, BS; Sarah Baker; Tony W. Wilson, PhD; Max J. Kurz, PhD

Free Paper Session D: Basic Science

12:30 pm - 12:37 pm

D1: Differential transcriptomic and epigenetic signatures characterize impairment of muscle-generating stem cells from contracted muscle in cerebral palsy | Andrea A. Domenighetti, PhD; Lydia A. Sibley, BS; Nicole Broda, BS; Vineeta T. Swaroop, MD; Henry G. Chambers, MD; Richard L. Lieber, PhD

12:38 pm - 12:45 pm

D2: Genetics of Cerebral Palsy: Who to Test | Jason B. Carmel, MD, PhD; Halie J. Holmes, MS; Jennifer Fasheun; Joshua E. Hyman; David P. Roye, Jr.; Evan H. Baugh; Anya Revah-Politi; Natalie Lippa; Sulagna Kushary; Jennifer M. Bain; Vimla Aggarwal; David Goldstein

12:46 pm - 12:53 pm

D3: Small RNA sequencing of circulating vesicular RNA at rest and in response to aerobic exercise in individuals with cerebral palsy and typically developed subjects | Ferdinand von Walden, MD, PhD; Ivan J. Vechetti, Jr., PhD; Jessica Pingel, PhD; Rodrigo Fernandez-Gonzalo, PhD; Emma Hjalmarsson, MPT; Eva M. Pontén, MD, PhD; John McCarthy, PhD; Björn Alkner, PhD, MD

12:54 pm - 1:01 pm

D4: Cortical Surface Metrics and Volumetrics at Term Predict Motor Development in Very Preterm Infants | Karen Harpster, PhD; Matthew C. Bugada; Julia E. Klein, PhD; Venkata Sita Priyanka Illapani, MA; Nehal A. Parikh, DO

1:02 pm - 1:09 pm

D5: Robotic mapping of motor cortex in children with perinatal stroke and hemiparesis | Hsing-Ching Kuo, PhD; Ephrem Zewdie, PhD; Adrianna Giuffre, BS; Liu Shi Gan, PhD; Helen Carlson, PhD; Adam Kirton, MD MSc FRCPC

1:24 pm - 1:31 pm

D6: Cortical Oscillations that Underlie Working Memory are Altered in Adults with Cerebral Palsy | Rashelle Hoffman, DPT; Christine Embury; Elizabeth Heinrichs-Graham, PhD; Tony W. Wilson, PhD; Max J. Kurz, PhD

1:32 pm - 1:39 pm

D7: Eye-gaze control technology in clinical practice to enhance participation: Consensus-based clinical guidelines | Margaret Wallen, PhD; Petra Karlsson, PhD; Tom Griffiths, MA, BA; Michael Clarke, PhD; Rene Perekles, PT; Saranda Bekteshi, MSc; Kate Himmelmann, PhD; Elegast Monbaliu; Abigail Allsop, MPH; Claire Galea, MS



- 1:40 pm - 1:47 pm **D8: Plasma and cerebrospinal fluid concentrations of baclofen in children with cerebral palsy following oral administration** | *Matthew McLaughlin, MD; DJ Murry, PharmD; Yashpal Singh Chhonker, PhD; Michael Partington, MD; J. Steven Leeder, PharmD; Susan Abdel-Rahman, PharmD*
- 1:48 pm - 1:55 pm **D9: Diffusion imaging shows improved myelination following an intervention targeting skilled lower extremity movement in children with spastic bilateral cerebral palsy** | *Andy Vuong, MS; Eileen G. Fowler, PhD, PT; Loretta A. Staudt, MS, PT; Marcia Greenberg, MS, PT; Hajime Yokota, MD, PhD; Joyce H. Matsumoto, MD; Shantanu H. Joshi, PhD*
- 1:56 pm - 2:03 pm **D10: Free automated dystonia identification using smartphone-quality videos acquired in an outpatient clinic setting** | *Bhooma R. Aravamuthan, MD, DPhil; Keisuke Ueda, MD; Toni Pearson, MD*

Instructional Courses

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

- IC01: Aspirational Thinking: Reflections on Mealtime Management for Children with Cerebral Palsy (CP) with Eating and Drinking Difficulties** | *Gina R. Rempel, FRCPC; Diane Sellers, PhD; Cindy B. Dodds, PhD; Consuelo Ibarra*
- IC02: Avoiding Mistakes in the Surgical Treatment of Gait Dysfunction in Children with Cerebral Palsy** | *Elizabeth W. Weber, MD, MS; Tom F. Novacheck, MD; Michael Healy, MD; Patrick Graupman, MD*
- IC03: Bringing Genomics to the Cerebral Palsy Clinic** | *Michael C. Kruer, MD; Francisca Millan; Julie S. Cohen; Bhooma R. Aravamuthan, MD, DPhil*
- IC04: Dilemmas in Intrathecal Baclofen Pump (ITB) Patients- Challenging Cases** | *Jane Anne Emerson, MD; Rez Farid, MD; Kristin Buxton, MSN*
- IC05: Fixing the femurs, fibers and feet. Impact on fitness, function, friendships and the future** | *Pam Thomason, MPT; Kate L. Willoughby, B Physio, D Physio; Abhay Khot, MD*
- IC06: Neuropsychology of Cerebral Palsy: Updates and Recommendations** | *Seth Warschausky, PhD; Kristine Stadskleiv, PhD; Jennifer Larson, PhD*
- IC07: Optimal Segment Kinematics & Alignment Approach to Rehabilitation (OSKAR): A Biomechanical Approach to Orthotic Management** | *Kristie Bjornson, PT, PhD; Garth Shippen, L/CO*
- IC08: Pressure Ulcer and Wound Management in Children and Young Adults with Disabilities** | *Mark Gormley, Jr., MD; Supreet Deshpande, MD; Jennifer Wilhelmy, CNP; Angela Sinner, DO*
- IC09: Project TEAM: A group intervention to teach transition age youth with developmental disabilities to problem solve physical and social environmental barriers to participation** | *Jessica Kramer, PhD; Ariel Schwartz, PhD; ITing Hwang*



IC10: Supporting parents of infants with cerebral palsy through parenting and mindfulness-based approaches | *Koa Whittingham, PhD, B.A., B Sc, MAPS; Catherine Mak, PhD; Roslyn N. Boyd, PhD*

IC11: The Gross Motor Function Measure at Age 30: "What's New"? | *Marilyn Wright Wright, MSc; Peter Rosenbaum, MD, FRCP(C), DSc (HC); Rachel Teplicky, MSc*

IC12: The Potential and Power to Pedal: Cycling for People with Cerebral Palsy or other Childhood Onset Disabilities | *Ellen L. Armstrong, BExSc, MSc(APA), MPT; Rachel Toovey, PhD, MPHTM, BPhysio(Hons); Jennifer E. Miros, MPT; Jennifer Angeli, PT, DPT, PhD*

IC13: Optimizing Inclusion Across the Lifespan in Educational, Medical, and Residential settings | *Tracy Pickar, MSW; Laurie Glader, MD; Jennifer Lyman, BS, MS*

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 - 5:20 pm **Opening Address and Gavel Exchange** | *Mauricio Delgado, MD; Susan Sienko, PhD*

5:20 pm - 6:00 pm **Presidential Guest Lecture** | *Ann Tilton*

6:00 pm - 6:20 pm **Lifetime Achievement Award** | *Michael Sussman*

6:20 pm - 7:00 pm **Presidential Guest Lecture** | *Yvonne Wu, MD, MPH*

Poster Crawl with Past Presidents (7:00 pm - 8:00 pm, CDT)