



PRELIMINARY PROGRAM



AACPD

CELEBRATING **2025**
RESILIENCE **79TH ANNUAL MEETING**
NEW ORLEANS, LA | OCTOBER 15-18



Dear Institutional and Industry Professionals,

Resilience refers to both the process and the outcome of adapting to life's challenges by leveraging our connections with one another, our shared purpose, and various other strategies. Whether you live in North America or other parts of the globe, the turbulence of the current times may be affecting you, your community, or the families you serve. We understand the difficulties many are facing, and hope that you will join us in New Orleans to foster your relationships with colleagues, to deepen connections with our Academy's mission, and celebrate and build our collective resilience. The rejuvenating power of time together—engaging in discussions about the latest research, collaborating on the next action steps, and exchanging knowledge from many perspectives—has been the hallmark of our meeting for 78 years. We are confident that this tradition will continue as we gather for the 79th Annual Meeting, which includes an evening networking event that extends our time for thoughtful conversation, shared connections and space to celebrate the strength of our community.

The 79th Annual Meeting planning team – Theresa Moulton, PT, DPT, PhD, Paige Church, MD and David Frumberg, MD – have worked closely with AACPDM staff and the Scientific Review Committee to curate a dynamic and engaging program, which includes 160 podium presentations, more than 250 posters (including scientific, demonstration and clinical case types), 77 education sessions and 6 pre-conference sessions to support the vital work you do each day. The topics extend across all disciplines and reflect the depth of expertise within our membership. We are pleased to share that our dedicated Scientific Review Committee had more than 25% representation of people with lived experience. This presence is also evident in nearly half of the submitted education session abstracts. Additionally, we welcomed the participation of the Academy's first cohort of Emerging Leaders in the review process. There was also a prominent trainee representation in the majority of demonstration, clinical case, and scientific presentation abstracts.

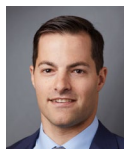
The resilience of our organization stems from the range of perspectives and experiences contributing to the content of our annual meeting's program. It is the collective strength and wisdom of our attendees that make these gatherings so meaningful. We are proud to share this collection of meeting abstracts, where we "Celebrate Resilience" of our academy, our members, and those with childhood-onset disability.



Theresa Sukai-Moulton,
PT, DPT, PhD
First Vice President



Paige Church, MD
Scientific Program
Committee Co-Chair



David Frumberg, MD
Scientific Program
Committee Co-Chair



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Dallas, TX



American Academy
for Cerebral Palsy and
Developmental Medicine

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2025 Local Hosts

Ann Tilton, MD
Noelle Moreau, PhD, PT
Jen Lyman, MS
Maurice G. Sholas, MD PhD

Office Staff

Tamara Wagester – Executive Director
Stephanie Vahsholtz – Senior Meetings Manager
Mckenzie Behrens – Meetings Manager
Amanda Prendergast – Communications Manager
Claire Lofald – Membership & Administrative Coordinator

Future Annual Meetings

80th Annual Meeting

September 27-30, 2026
Marriott Philadelphia Downtown
Philadelphia, Pennsylvania

81st Annual Meeting

September 22- 25, 2027
Sheraton Denver Downtown
Denver, Colorado

Meeting at a Glance

Wednesday, October 15, 2025	
8:00 AM – 9:00 AM	Committee Chair Training
8:00 AM – 12:00 PM	PC1: Transforming Cerebral Palsy Research and Services in Low- and Middle-Income Countries: A Data Driven Approach to Advance Knowledge, Innovation, and Services Using the Global LMIC CP Register. (TICKET)
8:00 AM – 12:00 PM	PC2: Low Tech and High Tech: Technology for ALL! (TICKET)
9:00 AM – 10:00 AM	AACPDM All Committees Meeting
10:00 AM - 12:00 PM	Individual Committee Meetings
12:00 PM – 1:00 PM	Committee/Board Lunch
1:00 PM – 5:00 PM	PC3: Aging with CP (TICKET)
1:00 PM – 5:00 PM	PC4: Fostering Inclusive Participation in Adapted Sports and Exercise Programs for Individuals with CP: Bridging the Gaps (TICKET)
1:00 PM – 5:00 PM	PC5: Learning to Read and Interpret Gait Lab Kinematics and Kinetics: A Case Study Approach (TICKET)
1:00 PM – 5:00 PM	PC6: Strengths-Based Support for Families after an Early Diagnosis of Cerebral Palsy: A Lifespan Approach (TICKET)
1:00 PM – 5:00 PM	Board of Directors Meeting
5:30 PM – 6:00 PM	New Member and Early Career Welcome Reception
6:00 PM – 8:00 PM	Welcome Reception

Thursday, October 16, 2025	
8:00 AM – 9:30 AM	Opening General Session
9:30 AM – 10:30 AM	Coffee Break and Exhibit/Poster Review
10:30 AM – 11:30 AM	Educational Sessions (1-11)
11:30 AM – 12:30 PM	Snack Break (in the exhibit hall)
12:30 PM – 1:30 PM	Podium Presentations A-E A: Neuro and Basic Science 1 B: Orthopedics 1 C: Resilience D: Technology and Innovation E: Therapeutic Interventions 1
1:45 PM – 2:45 PM	Educational Sessions (12-22)
3:00 PM – 4:00 PM	Educational Sessions (23-33)
4:00 PM – 4:30 PM	Coffee Break in the Exhibit Hall
4:30 PM – 5:30 PM	General Session
6:30 PM – 8:00 PM	Special Interest Groups (SIGs)

Meeting at a Glance

Friday, October 17, 2025	
8:00 AM – 9:30AM	General Session
9:30 AM – 10:30 AM	Coffee Break and Exhibit/ Poster Review
10:30 AM – 11:30 AM	Educational Sessions (34-44)
11:30 AM – 12:30 PM	Snack Break (in the exhibit hall)
12:30 PM – 1:30 PM	Podium Presentations F-J F: Adult Lifespan G: Complex Care H: Early Childhood I: Kinematics J: Orthopedics 2
1:45 PM – 2:45 PM	Educational Sessions (45-55)
2:45 PM – 3:15 PM	Coffee Break in the Exhibit Hall
3:15 PM – 4:15 PM	Podium Presentations K-O K: Communication, Vision and Cognition L: Lifespan M: Movement Analysis N: Pain and Tone O: Therapeutic Interventions 2
7:00 PM – 11:59 PM	Networking Celebration 

Saturday, October 18, 2025	
8:00 AM – 9:00 AM	Educational Sessions (56-66)
9:00 AM – 9:15 AM	Coffee Break
9:15 AM – 10:15 AM	Podium Presentations P-T P: Community Focus Q: Early Detection R: Neuro and Basic Science 2 S: Orthopedics 3 T: Therapeutic Interventions and Outcome Measures
10:30 AM – 11:30 AM	Educational Sessions (67-77)
11:45 AM – 1:15 PM	Closing General Session
2:00 PM – 6:00 PM	Board of Directors Meeting

2024-2025 AACPDM Board of Directors

Laurie Glader, MD – President
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 Benjamin J. Shore, MD, MPH, FRCSC – Director
 Gavin Colquitt, EdD – Director

2025 Scientific Program Committee

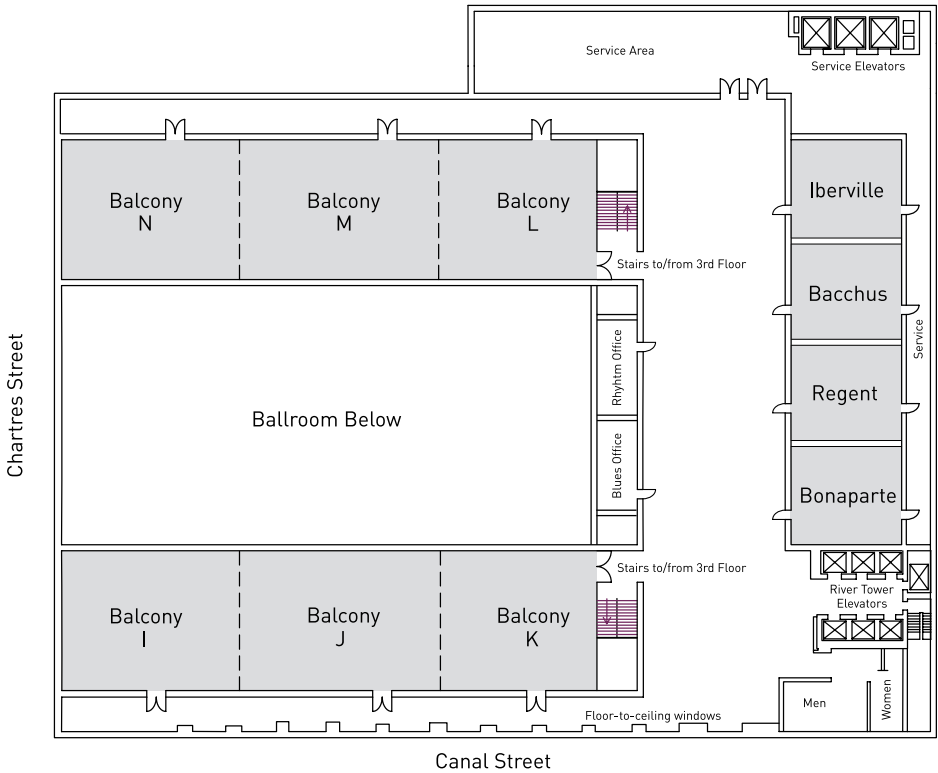
Theresa Sukal-Moulton, PT, DPT, PhD
 David Frumberg, MD
 Paige Church, MD
 Brenda Agnew
 Hana Alazem, MD
 Jennifer Bain, MD
 Corinna Bauer, PhD
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 Lauren Hyer, MD
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 Sonia Khurana, PT, PhD
 Steven Lazar, MD
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 Carly Luke, PhD, MPaedPhys, BPT
 Christopher Modlesky, PhD
 Linda Nguyen, PhD
 Ana Ortiz-Santiago, MD
 Monica Payares-Lizano, MD, FAAOS, FAAP
 Tracy Pickar, MSW
 Katharina Quinlan, PhD
 Justin Ramsey, MD
 Ana Rojas, MD
 Alexandra Santana Almansa, MD
 Cristina Sarmiento, MD
 Amanda Sarafian, EdD, OTR/L
 Verena Schreiber, MD
 Kimberley S. Scott, PT, DPT, PhD
 Yushane C. Shih, MD
 Courtney Streur, MD
 Karen Thomas, MD
 Selamenesh Tsige Legas, MD

AACPDM Past and Future Presidents

Winthrop Phelps, MD	1948	Leon Root, MD	1988
George G. Deaver, MD	1949	Alfred Healy, MD	1989
Earl R. Carlson, MD	1950	Gayle G. Arnold, MD	1990
Bronson Crothers, MD	1951	James R. Gage, MD	1991
Leslie B. Hohman, MD	1952	John F. McLaughlin, MD	1992
Arnold Gesell, MD	1953	Michael A. Alexander, MD	1993
Meyer A. Perlstein, MD	1954	Helen M. Horstmann, MD	1994
Lenox D. Baker, MD	1955	Charlene Butler, EdD	1995
Margaret H. Jones Kanaar, MD	1956	Robert K. Rosenthal, MD	1996
Nicholson J. Eastman, MD	1957	Peter L. Rosenbaum, MD	1997/1998
William T. Green, MD	1958	Dennis C. Harper, PhD	1999
Alvin J. Ingram, MD	1959	John F. Mantovani, MD	2000
Raymond R. Rembolt, MD	1960	Michael D. Sussman, MD	2001/2002
G.W.R. Eggers, MD	1962	James A. Blackman, MD	2003
Russell Meyers, MD	1963	Robert W. Armstrong, MD	2004
Eric Denhoff, MD	1964	Luciano S. Dias, MD	2005
Chester A. Swinyard, MD	1965	Barry S. Russman, MD	2006
Samuel B. Thompson, MD	1966	William L. Oppenheim, MD	2007
Sedgwick Mead, MD	1967	Diane L. Damiano, PhD PT	2008
William Berenberg, MD	1968	Hank G. Chambers, MD	2009
William J. Hillman, MD	1969	Deborah J. Gaebler-Spira, MD	2010
Harriet E. Gillette, MD	1970	Scott A. Hoffinger, MD	2011
Henry H. Banks, MD	1971	Joseph P. Dutkowsky, MD	2012
Lawrence T. Taft, MD	1972	Maureen E. O'Donnell, MD MSc FRCP (C) ...	2013
Robert L. Samilson, MD	1973	Richard D. Stevenson, MD	2014
Elliott D. O'Reilly, MD	1974	Darcy Fehlings, MD MSc FRCP (C)	2015
Hans U. Zellweger, MD	1975	Eileen Fowler, PhD PT	2016
Eugene E. Bleck, MD	1976	Unni Narayanan, MBBS MSc FRCP (C)	2017
Leon Greenspan, MD	1977	Sarah Winter, MD	2018
Gerald Solomons, MD	1978	Jilda Vargus-Adams, MD, MPH	2019
Hyman H. Soboloff, MD	1979	Mauricio Delgado, MD	2020
Leonard F. Bender, MD	1980	Susan Sienko, PhD	2021
Fred P. Sage, MD	1981	Tom F. Novacheck, MD	2022
Paul H. Pearson, MD	1982	Lesley E. Pritchard, PhD, PT	2023
Harold B. Levy, MD	1983	M. Wade Shrader, MD	2024
David H. Sutherland, MD	1984	Laurie Glader, MD	2025
Robert V. Groover, MD	1985	Theresa Sukal-Moulton, PT, DPT, PhD	2026
Alfred L. Scherzer, MD	1986	Kristie Bjornson, PT, MS, PhD	2027
Robert P. Christopher, MD	1987		

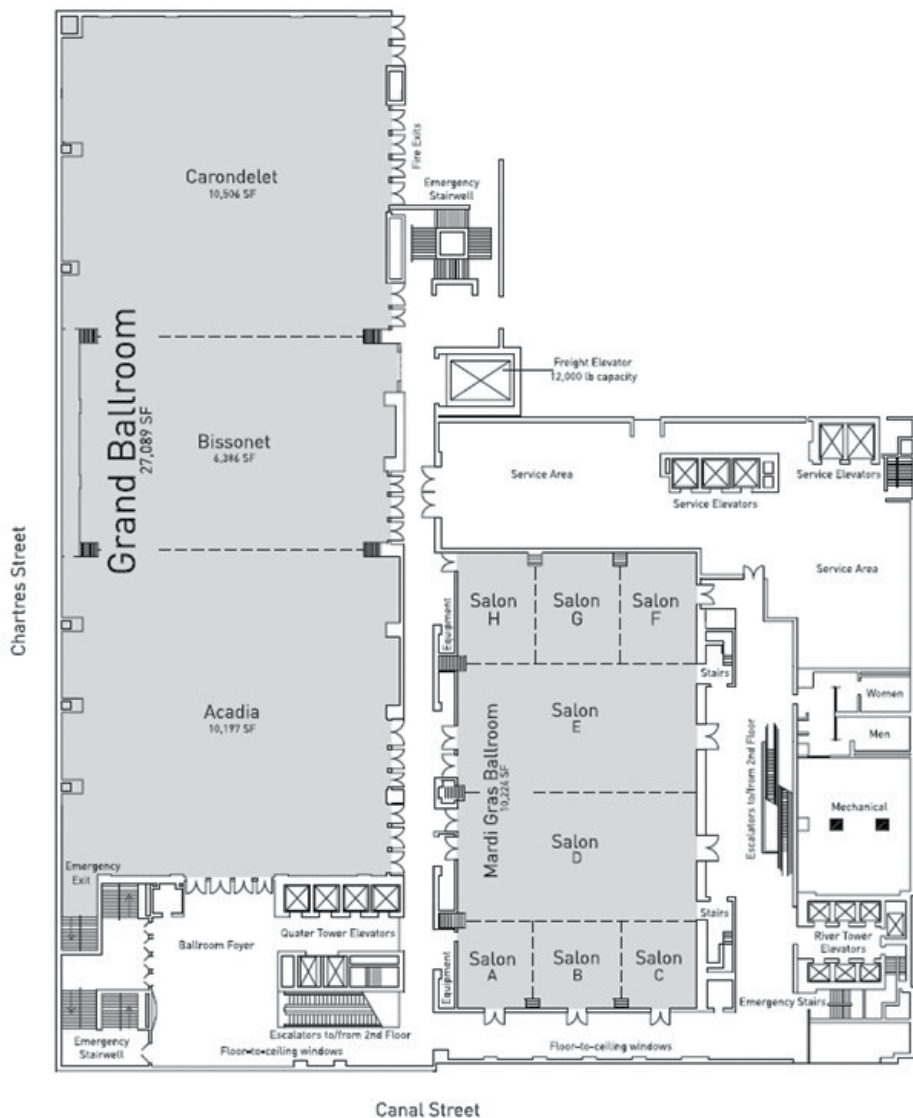
New Orleans Marriott Floor Plans

4th Floor Balcony



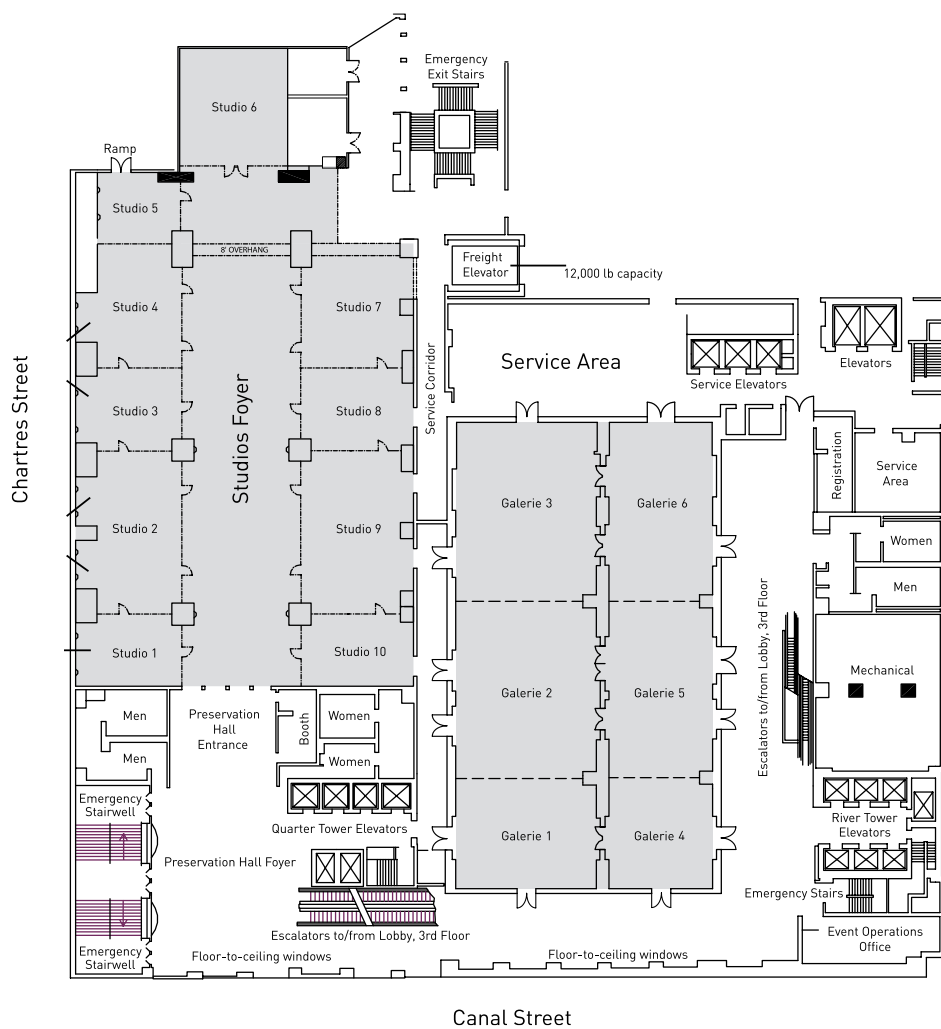
New Orleans Marriott Floor Plans

3rd Floor Grand Ballroom



New Orleans Marriott Floor Plans

2nd Floor Studios



Purpose

The educational program of the American Academy for Cerebral Palsy and Developmental Medicine (AAPDM) is designed to provide targeted opportunities for dissemination of information in the basic sciences, prevention, diagnosis, treatment, and technical advances as applied to persons with childhood-onset disabilities. The program provides a forum for discussion of scientific developments and clinical advances in the care of people with these conditions. By presenting forums which foster interdisciplinary communication and interchange among all allied health care professionals concerned with individuals with cerebral palsy and neurodevelopmental disorders, this program's purpose is to ensure that the qualified personnel have the skills and knowledge derived from practices that have been determined through research and experience to be successful in serving children with disabilities. The purpose is also to encourage teambuilding within organizations and institutions, encourage multicenter studies, develop information for parents, and find a consensus on the optimal care of various conditions.

Objectives

To disseminate information on new developments in applied and translational sciences, prevention, diagnosis, treatment, and technology for individuals with cerebral palsy and other childhood onset disabilities. Specifically:

- Participants will increase awareness of new and emerging treatments for individuals with cerebral palsy and other developmental disabilities.
- Participants will be able to identify new modalities for the diagnosis of cerebral palsy and developmental disabilities.

- Participants will increase interprofessional collaboration to help coordinate and improve services across the continuum of care for individuals with cerebral palsy and developmental disabilities across the lifespan.

Target Audience

All health care professionals, clinicians, researchers and health administrators who are concerned with the care of patients with cerebral palsy and other childhood onset disabilities, including, but not necessarily limited to: developmental and other pediatricians, neurologists, physiatrists, orthopedic and neuro-surgeons, physical and occupational therapists, speech and language pathologists, orthotists, dieticians, rehabilitation engineers, kinesiologists, nurses, psychologists, special education teachers and educators. Note: All levels of skill will be addressed.

AACPDM Vision

To advance the health and well-being of all individuals with cerebral palsy and other childhood-onset disabilities.

AACPDM Mission

Empowering and supporting a collaborative multidisciplinary community that

- provides accessible and robust scientific education for health professionals and researchers.
- fosters innovative research as well as its dissemination and implementation.
- advocates for equitable access to evidence based and patient centered care.



American Academy
for Cerebral Palsy and
Developmental Medicine

AACPDM Member Benefits

How can you benefit from membership in the American Academy for Cerebral Palsy and Developmental Medicine?

Annual Meeting

An international forum for the dissemination and exchange of new knowledge, ideas and educational information between participants from all disciplines.

Each year, the Academy offers International Scholarships and Student Scholarships to members to assist with the cost of attending the Annual Meeting.

Advisor Support Program

The AACPDM Membership Committee launched an Advisor Support Program to match current AACPDM members with new members to ensure they get the most out of their membership.

eCourses

The AACPDM Education Committee launched AACPDM eCourses which are online, selfpaced educational opportunities that are available for 3-4 weeks online to earn continuing education credits (CEUs).

Networking

Membership in AACPDM facilitates contacts with medical professionals and researchers with similar interests. This diverse group of professionals is bound together by a unified interest in improving the lives of people with cerebral palsy and childhood-onset disabilities.

Publications

Developmental Medicine and Child Neurology (DMCN) is the official journal of the AACPDM. This peer reviewed journal is recognized internationally as the leader in the field. Fellow Members receive a FREE electronic subscription.

AACPDM creates a quarterly newsletter and periodic broadcast emails about various events and activities. Members assist in developing informational materials to keep the public informed about advances in treating cerebral palsy and other childhood-onset disabilities.

Research

A key part of the AACPDM mission is to foster innovative research as well as its dissemination and implementation. One way the Academy promotes research is through the annual Research Grant Program. One way in which the Academy promotes research is through annual Research Grants. AACPDM is excited to announce the return of the Mentored Research Grant! *Only AACPDM members are eligible to apply

Website

Members can visit the [“Members Only”](#) section of the AACPDM website for a wide variety of information not available to non-members including membership contact information and other educational opportunities.

▶ **Join or Renew Today!** ◀

Committees

The heart of the Academy is our committees. Committees offer networking and opportunities to explore areas of deep interest with a wide range of professionals from the membership.

- Adapted Sports and Recreation
- Advocacy
- Awards
- Complex Care
- Education
- International Affairs
- Lifespan Care
- Membership
- Nominating
- Publications
- Research
- Scientific Program

[Learn more about the Committees and join one today!](#)

Councils

The AACPD offers an opportunity to participate in a Committee or a Council. Councils are similar to Committees, but the terms of service, objectives, and reporting structures can differ based on the unique nature of the Council charge.

- Community Council
- Care Pathways Council

Thank you to our 2024–2025 Committees and Councils

Committee/Council	CHAIR
Adapted Sports & Recreation	Cosmo Y. Kwok, MD
Advocacy	Melissa Villegas, MD
Awards	Joslyn Gober, DO
Complex Care	Anna O. Jesus, MD
Education	Steven M. Lazar, MD, MEd
International Affairs	Nathan S. Rosenberg, MD
Lifespan Care	Tracy Pickar, MSW
Membership	Wendy Y. Pierce, MD
Publications	Unni G. Narayanan, MBBS, MSc, FRCS(C)
Research	Stacey Chapman Dusing, PhD, PT, PCS, FAPTA
Nominating	M. Wade Schrader, MD
Scientific Program	Theresa Sukal-Moulton, PT, DPT, PhD, Paige Church, MD and David Frumberg, MD
Community Council	Jen Lyman
Care Pathways Council	Jilda N. Vargus-Adams, MD, MSc

THANK YOU!

Registration

Annual Meeting registration will be open online through October 13, 2025.

E-Poster

An E-Poster is an electronic version of the traditional paper poster in PowerPoint format, and is displayed in the Annual Meeting mobile app. In addition to traditional paper posters on bulletin boards, Scientific, Demonstration and Clinical Observation/Single Case Study Poster Presenters were also required to submit their poster as an E-Poster.

No Smoking

Smoking is prohibited at all Annual Meeting sessions and events.

Attire

Attire for the educational sessions of the meeting is business casual. Please bring a jacket or sweater, as room temperatures may vary.

Camera/Recording Policy

It is the policy of AACPDm that no cameras are permitted in the meeting sessions, exhibit hall, or poster sessions. Please refrain from taking any photos in those locations. Audio or videotaping is strictly prohibited.

FDA Disclaimer

Some medical devices or pharmaceuticals not cleared by the FDA or cleared by the FDA for a specific use only may be used "off-label" (i.e., a use not described on the product's label) if, in the judgment of the treating physician, such use is medically indicated to treat a patient's condition. "Off label" uses of a device or pharmaceutical may be described in AACPDm educational programs or publications so long as the lack of FDA clearance for such uses is also disclosed. Results from scientific studies known to the author or presenter relating to the described intended use should be discussed, if so doing will not adversely affect the study or violate some other regulatory

requirement. Some drugs or medical devices described or demonstrated in Academy educational materials or programs have not been cleared by the FDA or have been cleared by the FDA for specific use only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or device he or she wishes to use in practice.

Americans with Disabilities Act

The AACPDm wishes to ensure that no individual with a disability is excluded, denied services, or otherwise treated differently than other individuals because of the absence of auxiliary aides and services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act please notify AACPDm at least 14 working days prior to the program to allow time to acquire the support needed.

SESSION EVALUATIONS

We need your feedback! As a dedicated learner during the AACPDm 79th Annual Meeting we truly value your feedback on the individual sessions, general sessions as well as the overall meeting experience. The future leadership of the AACPDm uses this information to improve on the future educational offerings and to make your experience the most productive and realistic in bringing back practical information to your practice. Please take a moment to provide your feedback on the AACPDm 79th Annual Meeting in the in the following way:

- Participants will be asked to provide input on the educational program of the AACPDm 79th Annual Meeting through the online CME /CEU Claim System when claiming credit for participation.

Insurance/Liabilities and Disclaimer

The AAPDPM will not be held responsible for injuries or for loss or damage to property incurred by participants or guests at the Annual Meeting, including those participating in social and fitness events. Participants and guests are encouraged to take out insurance to cover loss incurred in the event of cancellation, medical expenses, or damage to or loss of personal effects when traveling outside of their own country. The AAPDPM cannot be held liable for any hindrance or disruption of Annual Meeting proceedings arising from natural, political, social or economic events, or other unforeseen incidents beyond its control. Registration of a participant implies acceptance of this condition. The material presented at this continuing medical education activity is made available for education purposes only. The material is not intended to represent the only, nor necessarily the best, methods or procedures appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement, or opinion of the faculty that may be helpful to others who face similar situations.

Disclosure

The presenting authors on the Podium Presentations and Posters are underlined. All corresponding authors were responsible for querying the co-authors regarding the disclosure of their work. The AAPDPM does not view the existence of these disclosed interests or commitments as necessarily implying bias or decreasing the value of the author's participation in the course. To follow ACCME guidelines the Academy has identified the options to disclose as follows:

- a. Research or institutional support has been received
- b. Miscellaneous, non-income support (e.g., equipment or services), commercially derived honoraria, or other non-research related funding (e.g., paid travel) has been received
- c. Royalties have been received
- d. Stock or stock options held
- e. Consultant or employee
- f. Received nothing of value
- g. Did not respond or unable to contact

* One or more of these letters appears by each author's name indicating their disclosure. Please see the Disclosure Index at the back of the program.



American Academy
for Cerebral Palsy and
Developmental Medicine

2025 Scientific Program Overview

This year's program was developed from a submission total of 601 abstracts. All electronically submitted abstracts were independently rated by the multidisciplinary scientific program committee of 40 members. The committee met in March 2025 to review the abstracts and finalize the program (e.g. Scientific poster or podium presentation, education session, demonstration poster, clinical observation or single case study posters). Scientific posters and podium presentations were rated (masked to authors) on research question/ objectives, design, methodology, conclusions and relative impact, relevance and importance to the care and treatment of children with childhood onset disabilities. Education Sessions were rated (unmasked) on course objectives, content, presenters and level of impact, relevance and importance to conference attendees and the AACPDM membership at large. The feedback from the previous year's evaluations are utilized in the process of creating the program with the aim of better meeting the needs of meeting attendees.

The 2025 program includes:

- 6 Pre-Conference Sessions
- 76 Education Sessions
- 158 Scientific Podium Presentations
- 205 Scientific Posters
- 41 Demonstration Posters
- 25 Clinical Observation/Single Case Study Posters

Scientific Review Process

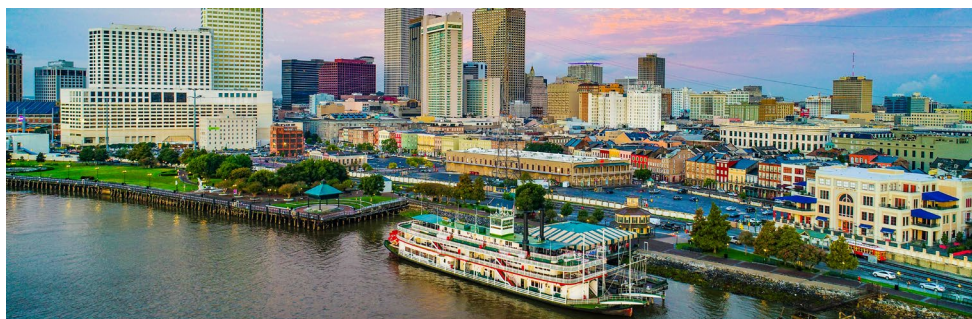
- Blinded abstracts submitted electronically
- Abstracts are scored independently by three members of the program committee with scores submitted electronically and then tallied/averaged
- Highest scored abstracts are selected
- Program Committee meets in March to make final decisions re: scientific program planning and to ensure that on the program is balanced in content.

Podium Presentations and Posters are rated on:

- Level of Evidence
- Methodological Quality
- Statistical Analysis
- External Validity
- Contribution to the Evidence Base
- Interest to AACPDM Audience

Education Sessions are rated on:

- Quality of Presenters
- Significance
- Evidence-Based



Scholarships

The American Academy for Cerebral Palsy and Developmental Medicine Scholarship Program supports the mission of the AACPDM to improve the health and general status of children and adults with cerebral palsy, developmental disorders and childhood acquired disabilities. The Academy seeks international applicants who are highly motivated, currently in clinical practice, and who are in a position which will enable them to disseminate knowledge acquired at the meeting to others in their home country once they return. Particular emphasis is placed on assisting those from areas with under supported medical systems and limited financial resources. The AACPDM also awards scholarships to selected students each year so that they may attend the Annual Meeting.

Grant Awards

A key part of the AACPDM mission is to foster innovative research as well as its dissemination and implementation. One way the Academy promotes research is through the annual Research Grants. In 2025 AACPDM was pleased to offer the return of the Mentored-Research Award! AACPDM accepted research grant applications that align with the Academy's mission to support a collaborative multidisciplinary community that provides robust scientific education, fosters innovative research, and advocates for equitable access to evidence-based care.

For more details visit: <https://www.aacpdm.org/professional-opportunities/grants>



Program and Events – Wednesday, October 15, 2025

8:00 AM – 9:00 AM CT

Committee Chair Training

9:00 AM – 10:00 AM CT

All Committee Member Training

10:00 AM - 12:00 PM CT

Committee Meetings

Preconference Sessions

8:00 AM – 12:00 PM CT

PC1: Transforming Cerebral Palsy Research and Services in Low- and Middle-Income Countries: A Data Driven Approach to Advance Knowledge, Innovation, and Services Using the Global LMIC CP Register.

Gulam Khandaker, PhD; Mercedes Ruiz Brunner, PhD; Thembi J Katangwe, MBBS; Nadia Badawi, PhD

8:00 AM – 12:00 PM CT

PC2: Low Tech and High Tech: Technology for ALL!

Sarah H. Evans, MD; Heather Feldner, PhD, PT; Laura A. Prosser, PT, PhD; Matthew Amodeo, MD; Elizabeth Condliffe; Rachel Byrne; Noam Platt; Anna McCormick, MD; Mary Jo Cooley Hidecker, PhD, CCC-A/SLP; Adam Kirton

1:00 PM – 5:00 PM CT

PC3: Aging with CP

Mary Schmidt, DO; Tracy Pickar, MSW; Irene C. Dietz, MD; Cristina A. Sarmiento, MD; Mary E. Gannotti, PhD,PT; Kathleen M. Friel, PhD; Toni Benton, MD; Katrina Johnson; Selina Silva, MD

1:00 PM – 5:00 PM CT

PC4: Fostering Inclusive Participation in Adapted Sports and Exercise Programs for Individuals with CP: Bridging the Gaps

Noelle G. Moreau, PhD, PT; Corey Gainey; Jennifer Lyman, MS; Nathalie L. Maitre, MD, PhD; Tom Moran, PhD; Pam Carey; Cosmo Kwok, MD; Gavin Colquitt, EdD

1:00 PM – 5:00 PM CT

PC5: Learning to Read and Interpret Gait Lab Kinematics and Kinetics: A Case Study Approach

Ross S. Chafetz, PhD, DPT; Kirsten Tulchin-Francis, PhD; Joseph J. Krzak, PT, PhD; Kristan Pierz, MD; Freeman Miller; Jon R. Davids, MD; Sean Tabaie, MD MBA

1:00 PM – 5:00 PM CT

PC6: Strengths-Based Support for Families after an Early Diagnosis of Cerebral Palsy: A Lifespan Approach

Brenda Agnew; Rudaina Banihani, MD, MMEd; Paige Church; Kim Hindery; Alison Liddle; Michael Msall; Colleen Peyton; Jessica Trenkle

1:00 PM – 5:00 PM CT

Board of Directors Meeting

5:30 PM – 6:00 PM CT

New Member and Early Career Welcome Reception

6:00 PM – 8:00 PM CT

Welcome Reception

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8:00 AM – 9:30 AM CT

Opening General Session

9:30 AM – 10:30 AM CT

Coffee Break and Exhibit/Poster Review

10:30 AM – 11:30 AM CT

Education Sessions 1-11

EDU01: Lifespan Women's Health in CP - Pearls, Pitfalls and Perspectives

Toni R. Benton, MD, Deann Griego, BA, Kathleen M. Friel, PhD, Mary Beth Schubauer, PT, PhD

Learning Objectives:

1. Identify 3 tips and pearls for alternative examination and screening for women with CP or neurodevelopmental disabilities.
2. Describe the use of PT/OT Approach to Pelvic floor therapy to address pelvic pain and female sexual dysfunction.
3. List 4 challenges and barriers that women with CP experience in obtaining comprehensive women's healthcare and preventive health screenings.
4. Participate in a small and large group discussions on strategies to empower women and implement systemic change.

EDU02: Neuro-orthopaedic Journal Club: Top 10 Articles in the Last Year Relating to the Orthopaedic Management of Children with Neuromuscular Disorders

Monica Payares-Lizano, MD, Jon R. Davids, MD, Mara Karamitopoulos, MD, Sean Tabaie, MD MBA, Verena M. Schreiber, MD, Benjamin J. Shore, MD, MPH, FRCSC

Learning Objectives:

1. Introduction to a standardized format for the critical analysis of scientific articles from the medical literature.

2. Be familiar with the most significant recent advances in the orthopaedic management of children with neuromuscular disorders.
3. Incorporate new techniques and technologies into clinical practice.
4. Appreciate current research trends in this area and be inspired to make a contribution to the body of knowledge!

EDU03: Communication Strategies to Alleviate Burnout and Promote Resiliency with Healthcare Providers.

Heather A. Mahnken, OTR/L, Kilby Mann, MD

Learning Objectives:

1. Define burnout and understand its impact on individual healthcare professionals, teams, and patient care.
2. Understand the connection and differences between burn out, resiliency, and loneliness.
3. Describe the social neuroscience impact and its connection with communication strategies that increase connectiveness in conversations.
4. Demonstrate a program focused on communication to improve resiliency and decrease burnout within their own team.

EDU04: Optimizing Learning and Neuroplasticity in Early Intervention: Paradoxes and Opportunities

Michael E. Msall, MD, Sharon Ramey, Ph.D, Ph.D, Craig Ramey, Ph.D, Ph.D

Learning Objectives:

1. Upon completion participants will be able to understand the importance of total child activity based interventions in optimizing developmental outcomes for children at risk for early onset neurodevelopmental disabilities.

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2. Upon completion participants will be able to understand paradoxes in early intervention practices that lead to fragmented practices unrelated to child functioning and participation.
3. Upon completion participants will be able to better understand partnerships for promoting resiliency.
4. Upon completion participants will be able to understand the importance of collaborative networks and partnerships with families to optimize access to evidence based rehabilitation practices.

EDU05: Patient and Family Voices: Reflections on Identifying Priorities for Treatment in Cerebral Palsy and the Influence on Shared Decision Making

Jean L. Stout, PT, MS, PhD, Liz R. Boyer, PhD, Steven Koop, MD, Sandra C. Tierney, MSW, PhD

Learning Objectives:

1. Describe the collaborative nature of a shared decision-making model and how a provider can impact the evolution of participation from parent/caregiver to patient over the course of time.
2. Identify one or more insights that may help empower families in the pre-school years to be advocates for their child in making informed decisions.
3. Discuss the conflicting nature of parent/caregiver and child priorities during childhood/adolescence and how this influences decisions about interventions.
4. Identify 3 characteristics that patients and families seek from providers as they establish priorities for treatment

EDU06: Building Resiliency Within A Pediatric To Adult Healthcare Transition (HCT) Program, To Support Youth And Young Adults With Childhood-Onset Disability

Rhonda G. Cady, PhD, RN, Tori L. Bahr, MD, Kelly Cho, MD, Michael J. Peterson, MA, CCC-SLP, Anna K. Beckstrom, MS

Learning Objectives:

1. Describe evidence supporting planned and structured approach to pediatric to adult HCT for youth with childhood-onset disability, emphasizing critical role of pediatric specialty care in facilitating and supporting HCT.
2. Demonstrate translation of HCT evidence into an organization-wide program for youth receiving pediatric specialty care at Gillette Children's and living throughout rural and urban areas of Minnesota.
3. Identify key process and outcome metrics for phased implementation of HCT for youth and young adults seen Gillette specialty clinics and evaluate its success as an organization-wide program.
4. Examine implementation barriers and opportunities at the clinician (e.g., training, workflow), organizational (e.g., medical record modifications, executive leadership support, metrics collection), and system level (e.g., reimbursement, adult provider availability).

EDU07: Bridging the Gap from Laboratory to Clinic: Use of Common Data Elements in Animal Models

Katharina A. Quinlan, PhD, Deborah Gaebler-Spira, MD, FAAP, Bhooma R. Aravamuthan, MD, DPhil, Megan R. Detloff, PhD

Learning Objectives:

1. Identify ways to make animal studies pertaining to CP more consistent and rigorous

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2. Describe common measures of dystonia, spasticity, and sensory deficits / pain and how they can be accurately assessed in diverse animal models
3. Conduct research using validated assessments of impaired function, including measures both motor and sensory deficits in animal models of CP
4. Integrate common data elements from the clinic to the lab to enhance translation of new research findings into practice

EDU08: “It Doesn’t Have to Be Big Things”: The Legacy Perceptions of Parents/ Caregivers of Medically Complex Children

Leslie Rhodes, DNP, PPCNP-BC, DNP, MBA, PPCNP-BC, Karen Romer, BSN, Kayla Black, Maile T. Jones, MEd

Learning Objectives:

5. Upon completion, participants will be able to understand the needs of parents/ caregivers of children with medical complexities and how legacy building as a psychosocial intervention can optimize coping for them.
6. Upon completion, participants will be able to understand the legacy perceptions of parents/caregivers of children with medical complexity based on qualitative findings and participants stories.
7. Upon completion, participants will be able to articulate the integral role that healthcare experiences play in shaping the memories and legacy perceptions of individuals caring for children with medical complexity.
8. Upon completion, participants will be able to identify implications for clinical practice based on study findings.

EDU09: Updates of Early CP Risk Identification- Emerging Technologies to Decrease Disparities

Lisa C. Letzkus, PhD, RN, CPNP-AC, Santina Zanelli, MD

Learning Objectives:

1. Identify the key risk factors of CP in preterm infants
2. Discuss advancements in the development of digital biomarkers and physiomarkers for screening high-risk infants in the NICU setting.
3. Understand the emerging role of these technologies in the equitable early prediction CP.
4. Identify the benefits and challenges of integrating innovative tools into clinical workflows for CP risk assessment.

EDU10: Advocacy Strategies for Promoting Participation and Quality of Life

Melissa Villegas, MD, Lauren Fetsko, DO, Naomi Lorch, PhD, PT, Alexandra Santana Almansa, MD; Lynne Fogel

Learning Objectives:

1. Define inclusion, participation, and quality of life in the context of childhood-onset disabilities.
2. Examine methods to address ableism when considering quality-of-life.
3. Demonstrate approaches for increasing participation at home and in the community.
4. Apply principles of person-centered planning.

EDU11: Developing Composite Outcome Measures for Use in Cerebral Palsy Clinical Trials and Practice

Richard D. Stevenson, MD, Mark R. Conaway, Ph.D., Amy Darragh, PhD, Stephanie C. DeLuca, PhD

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Learning Objectives:

1. Describe the rationale for the use of composite outcome measures in rehabilitation research in children with cerebral palsy
2. Describe the use of summary composite measures such as that derived with the O'Brien method for statistical analysis
3. Describe the development of an extraction composite measure in rehabilitation research
4. Describe the importance of the incorporation of persons with lived experience in the development of composite outcome measures for rehabilitation research and clinical care

11:30 AM – 12:30 PM CT

Snack Break (in the Exhibit Hall)

12:30 PM – 1:30 PM CT

Podium Presentations A-E

Free Paper Session A: Neuro and Basic Science 1

12:30 PM - 12:36 PM CT

A1: Validation of a Mouse Model of Cerebral Palsy for CP-Associated Muscular Pathology

Rachel M. Thompson, MD, Michaela Juels, BS, Gabrielle Noullet, BS, Yiran Deng, BS, Kara M. Shin, MS, Kevin Chen, Kristen Stearns-Reider, PhD, PT

12:37 PM - 12:43 PM CT

A2: Repeated Botulinum Toxin Injections in the Biceps Brachii Muscle Alters Skeletal Muscle at the Histological and Transcriptomic Level

Eva M. Pontén, PhD, Baptiste Jude, Per Stål, PhD, Ferdinand von Walden, MD, PhD

12:44 PM - 12:50 PM CT

A3: Brain Lesion Size: Insights into Behavioral Outcomes in Children with Unilateral Cerebral Palsy

Alireza Vaysi, M.Sc., Sadra Shahdadian, Ph.D., Eryn Armstrong, MS, Brooke Kimbrell, Fernando Acosta, Jr., MD, Warren A. Marks, MD, Christos Papadelis, PhD

12:51 PM - 12:57 PM CT

A4: Epigenetic Control of Muscle Development in Spastic Cerebral Palsy by a Regulatory Circular RNA

Brigette M. Romero Carpio, MS, Karyn Robinson, M.S., Vijay Parashar, PhD, Robert E. Akins, PhD, M. Wade Shrader, MD, Mona Batish, PhD

1:01 PM - 1:07 PM CT

A5: Skeletal Muscle Macrophage Immune Cells in Muscles of Children with CP are Associated with Muscle Stem Cell Abundance

Guadalupe Meza, Ryan Kahn, Neeraj Patel, MD, MPH, Jill E. Larson, MD, Vineeta T. Swaroop, MD, Sudarshan Dayanidhi, PT, PhD

1:08 PM - 1:14 PM CT

A6: Development of an Automated Segmentation Model for Pediatric Brains with Atypical Neuroanatomy

Jesse Kowalski, PT, DPT, PhD, Jacob Lundquist, Ermias Fair, Kenevan Carter, Isabella Pena Pino, MD, Sally Stoyell, Julia Moser, PhD, Carolina Sandoval-Garcia, MD, Jed Elison, PhD, Damien Fair, PA-C, PhD

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1:15 PM - 1:21 PM CT

A7: Adults with Cerebral Palsy have Reduced N-acetylaspartate Metabolite Concentration in the Sensorimotor Cortices

Max J. Kurz, PhD, Gaelle Doucet, PhD, Tony W. Wilson, PhD

1:22 PM - 1:28 PM CT

A8: Exploring the Relationship Between Brain Morphology and Early Motor Development in Infants at Risk for Neuromotor Impairment

Megan Evans, Brittany Howell, PhD, Stephanie C. DeLuca, PhD

Free Paper Session B: Orthopedics 1

12:30 PM - 12:36 PM CT

B1: Hip Displacement in Spastic Hemiplegia: Increased Risk with Hip Internal Rotation and Adduction Irrespective of Sagittal Gait Pattern

Zhe Yuan, MD, Alexander Aretakis, MD, Chris Church, MPT, M. Wade Shrader, MD, Freeman Miller, MD, Anuj Gupta, MD, Arianna Trionfo, MD, Jason J. Howard, MD

12:37 PM - 12:43 PM CT

B2: Biomechanical and Functional Outcomes of High and Low Burden Multi-Level Surgery in Youth with Cerebral Palsy

Nancy Lennon, DPT, MS, PT, Brittany A. Virgil, PT, DPT, Chris Church, MPT, Anjana Bhat, PhD, PT, Jose J. Salazar-Torres, Ph.D., John Henley, PhD, M. Wade Shrader, MD, Freeman Miller, MD, Jason J. Howard, MD

12:44 PM - 12:50 PM CT

B3: Risk Factors For Avascular Necrosis In Children With Cerebral Palsy Following Varus Derotation Osteotomy

Sam Wimmer, BS, Robert M. Kay, MD, Tishya Wren, PhD

12:51 PM - 12:57 PM CT

B4: Pediatric Patients With Arthrogryposis Are at Increased Risk of Reoperation Following Posterior Spinal Fusion for Deformity

Julian Smith-Voudouris, MSc, Ally Yang, MD, Dominick Tuason, MD, Jonathan N. Grauer, MD, David B. Frumberg, MD

1:01 PM - 1:07 PM CT

B5: Effect of Scoliosis on Pulmonary Function in Spinal Muscle Atrophy (SMA)

Taylor Marie Adams BS, Lennert Plasschaert MD, Patricia Miller PhD, Ron El-Hawary MD, Basil Darras MD, Robert Graham MD, Brian Snyder MD, PhD

1:08 PM - 1:14 PM CT

B6: The Ten-Year Outcome of the Ponseti Method in Children With Idiopathic Clubfoot and Arthrogryposis

Stephanie Butler, DPT, Chris Church, MPT, Jose J. Salazar-Torres, Ph.D., Maureen Donohoe, PT, DPT, John Henley, PhD, Nicole Wang, Freeman Miller, MD, Louise Reid Nichols, MD

1:15 PM - 1:21 PM CT

B7: 10-Year Outcomes of Risdiplam & Nusinersen on Functional Outcomes and Hip Migration in Patients with Spinal Muscular Atrophy: A Retrospective Cohort Study

Varun Arvind, MD, PhD, Emma Berube, MD, Benjamin Lynch, BA, Alysala Malik, BA, Michaela O'Connor, MD, Joshua E. Hyman, MD

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1:22 PM - 1:28 PM CT

B8: The Impact of Below Knee Serial Casting on Ankle and Knee Range of Motion in Children with Cerebral Palsy: A Register-Based Study

Evgenia Manousaki, MD, PhD, Erika Cloudt, PhD

Free Paper Session C: Resilience

12:30 PM - 12:36 PM CT

C1: Comfort and Confidence of Medical Providers in Discussing Adaptive Sport Opportunities

Courtney K. Bishop, PA-C, Nathan S. Rosenberg, MD, Kirsten Tulchin-Francis, PhD

12:37 PM - 12:43 PM CT

C2: Year One Impact of a Pediatric Care Coordination Program for Families and Children Living with Cerebral Palsy

Anna K. Beckstrom, MS, Kari Kubiawicz, MBA, BSN, Kelzee Tibbetts, MPH, Meghan E. Munger, PhD, MPH

12:44 PM - 12:50 PM CT

C3: We Need to Ask: Concerns About Falling and Avoidance Behavior in Individuals with Cerebral Palsy

Liz R. Boyer, PhD, Marissa Esterley, MSc, Kari Pederson, MSW, LICSW, Sandy C. Tierney, PhD, Nate Wandersee, Linda E. Krach, MD

12:51 PM - 12:57 PM CT

C4: Factors Enhancing Quality of Life and Building Resiliency in Children, Teens and Adults with Spina Bifida

Rhonda G. Cady, PhD, RN, Megan M. Lutz, MPH, Maykala J. Williams, MPH

1:01 PM - 1:07 PM CT

C5: Pattern of Depression Among Caregivers of Children with Cerebral Palsy and its Association with Family Factors and the Resilience

Oluwasola Julius OKE, MBBS, M.Clin. Psychol, FMCPaed

1:08 PM - 1:14 PM CT

C6: Health and Well-being in Preschool Children with Severe Complex Disabilities, and Parent Empowerment

Siri Johnsen, MSc, Kristian Sørensen, MSc, Jon Sverre Skranes, MD, PhD, Kristine Stadskleiv, PhD, Reidun B. Jahnsen, PhD, Ida Vestrheim, MSc, Rannei Sæther, PhD

1:15 PM - 1:21 PM CT

C7: Parent-to-Parent Coaching for Parents of Children with Invasive Mechanical Ventilation: A Pilot Support and Empowerment Model

Anne G. Hutchinson, BS, Emma Lynch, MPH, Sarah A. Sobotka, MD, MSCP

1:22 PM - 1:28 PM CT

C8: Facilitating Resilience: Child and Caregiver Perceptions of Participating in a Curricularly-embedded Strength and Power Intensive Group Program

Jamie B. Hall, PT, DPT, PhD, Dana B. Chole, PT, DPT, Carson Miller, PT, DPT

Free Paper Session D: Technology and Innovation

12:30 PM - 12:36 PM CT

D1: Automated Gait Classification: Comparison of Automated Algorithms to Expert Classification

Jeremy Bauer, MD, Karen Kruger, PhD, Joseph J. Krzak, PhD, PT, Ross S. Chafetz, PhD, DPT, Susan Sienko, PhD

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12:37 PM - 12:43 PM CT

D2: Accelerometer-Measured Activity in the Non-Dominant Upper Extremity in Children with Unilateral Cerebral Palsy During a Ride-On-Toy Navigation Training Program

Neha Samuel, Kush Kataria, Sudha M. Srinivasan, PT, PhD

12:44 PM - 12:50 PM CT

D3: Automating Observational Gait Analysis in Children with Cerebral Palsy Using an Artificial Intelligence-Augmented Pipeline

Ishaasamyuktha Somasundaram, Rajkumar Arumugam Jeeva, Lianne Brandt, Cancan (Gloria) Su, Guangwen (Kevin) Sun, Ramiro Olleac, Edward D. Lemaire, PhD, Natalie Baddour, PhD, Kevin Cheung, MD, Albert Tu

1:01 PM - 1:07 PM CT

D5: Defining Existing Clusters of Gait Patterns in Children with Cerebral Palsy (CP) Using Electromyography and Machine Learning

Alessandra Matias, DPT, PhD, Jorge Bejar, Shelley Jakiel, MS, Simin Rahman, MS, Cory Cribb, Christopher M. Modlesky, PhD

1:08 PM - 1:14 PM CT

D6: A Randomized, Cross-Over Trial Testing Feasibility and Comparing the Effect of Home-based Innovative Robotic Gait Training and Functional Clinical Therapy

Anna M. McCormick, MD, Hana F. Alazem, MSc PT, MD, Virginia Wright, BSc(PT), MSc, PhD, Anya H. Friesen, BEng, MD, Michelle Larin, MSc, Patricia E. Longmuir, PhD

1:15 PM - 1:21 PM CT

D7: Diagnosis of Leg Dystonia Severity in Children with Cerebral Palsy Using Machine Learning: A Novel Approach for Clinical Decision-Making

Rishabh Bajpai, PhD, Alyssa Rust, BS, Emma J. Lott, AS, Susie Kim, BS, Sushma Gandham, Keerthana Chintalapati, n/a, Joanna Blackburn, MD, Rose Gelineau-Morel, MD, Michael C. C. Kruer, MD, Bhooma R. Aravamuthan, MD, DPhil

1:22 PM - 1:28 PM CT

D8: Differences in Home Activity between Children with Cerebral Palsy and Typical Development Measured by Wearable Sensors

Julie M. Orlando, PT, PhD, Tracy Kornafel, PT, DPT, PCS, Athylia C. Paremski, BA, Matthew Amodeo, MD, Sam R. Pierce, PT, PhD, Julie A. Skorup, DPT, Morgan M. Alcott, DPT, Laura A. Prosser, PT, PhD

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Free Paper Session E: Therapeutic Interventions 1

12:30 PM - 12:36 PM CT

E1: Effects of Power Training combined with Interval Treadmill Training on Walking Capacity Versus Performance in Real World Settings in Youth with Cerebral Palsy

Noelle G. Moreau, PhD, PT, Kristie F. Bjornson, PT, MS, PhD, Phil Hurvitz, PhD, Donald Mercante, PhD

12:37 PM - 12:43 PM CT

E2: Effect of High-Frequency, Low-Magnitude Vibration on Physical Activity and Physical Function in Children with Cerebral Palsy: A Randomized Controlled Trial

Christopher M. Modlesky, PhD, Sydni Whitten, MS, Trevor Batson, PhD, Junsoo Lee, PhD, Owais A. Khan, PT, Shelley Jakiel, MS, Joel Licea, PhD, Shelby Thompson, MS, Joshua Vova, MD, Gavin Colquitt, EdD

12:44 PM - 12:50 PM CT

E3: Remote Ischemic Conditioning Enhances Muscle Power, Strength, and Gait in Children with Cerebral Palsy: A Pilot Randomized Controlled Trial

Swati M. Surkar, PT, PhD, John Willson, PT, PhD, Shailesh S. Gardas, MS, PT, Kristie F. Bjornson, PT, MS, PhD

12:51 PM - 12:57 PM CT

E4: The Effectiveness of a Gait Training Program on Mobility, Standing and Balance in Children With Cerebral Palsy: A Randomized Controlled Trial

Maria Sxiza, Theofani A. Bania, BSc, MSc, PhD

1:01 PM - 1:07 PM CT

E5: Overground Gait Training Improves Sensorimotor Cortical Dynamics and Results in Mobility Gains for Persons with Cerebral Palsy

Morgan Busboom, DPT, MS, Rachel Spooner, PhD, Liana Chinen, n/a, Sarah Baker, MA, Brad Corr, Katie Bemis, DPT, Kimberley S. Scott, PT, DPT, PhD, Tony W. Wilson, PhD, Max J. Kurz, PhD

1:08 PM - 1:14 PM CT

E6: “Dare to Try”: Understanding Participation in Physical Activity for Children and Adolescents with Cerebral Palsy

Katherine Dimitropoulou, Ph.D., MSPOR, OTR/L, Elliott Hu, HScD, Jacqueline Chen, BS

1:15 PM - 1:21 PM CT

E7: Effects of Remote Ischemic Conditioning Paired with Hand Arm Bimanual Therapy on Bimanual Function and Corticospinal Excitability in Children with Unilateral Cerebral Palsy: A Randomized Control Trial

Swati M. Surkar, PT, PhD, Shailesh S. Gardas, MS, PT, Christine Lysaght, PT, DPT, John Willson, PT, PhD, Jessica M. Cassidy, DPT, PhD, Shailesh Kantak, PT, PhD

1:22 PM - 1:28 PM CT

E8: Feasibility of Implementing a Community-Based Rowing Program for Adolescents with Cerebral Palsy

Karen Davies, MSc, Courtney L. Pollock, Ciara Stevenson, Patricia Moreno Grangeiro, Lise Leveille, MD

1:45 PM – 2:45 PM CT

Education Sessions 12–22

EDU12: Knee Surveillance: Early Detection and Surgical Dosing in Ambulatory Children with Cerebral Palsy

Vedant A. Kulkarni, MD, Jon R. Davids, MD, Erich Rutz, MD, Pam Thomason, BPhy, MPhysio

Learning Objectives:

1. Identify common gait deviations in children with bilateral CP
2. Define the most important early clinical and kinematic signs of flexed knee gait
3. Discuss the stakeholders and process for creation of a knee surveillance program for early detection of flexed knee gait
4. Understand a management algorithm for dosing of knee pathology in children with CP

EDU13: Artificial Intelligence: Real-Life Applications in Rehabilitation

Anna M. McCormick, MD, Albert Tu, FRCS(C), Hana F. Alazem, MSc PT, MD, Arun Munje, Helly Goez, Professor, MD, Kevin Cheung, MD, Divya PA Joshi, PhD

Learning Objectives:

1. Describe clinical applications of 5 AI applications for general movement assessment (BabyMoves), hip surveillance (HipScreen), motion and gait analysis (Movealytics, Smart Hallway), and speech recognition for dysarthric patients (AIHEARU)
2. List common challenges with the development and real-life applications of AI tools in rehabilitation.
3. Demonstrate an understanding of ethical and access considerations for AI tools in rehabilitation.
4. Test the use of rehabilitation focused AI tools presented

EDU14: Coaching for Professional Resiliency and Joy in Work

Nancy A. Murphy, MD, Sarah W. Burton, BS

Learning Objectives:

1. Define professional burnout, provider well-being, and joy in work, and identify factors that build or borrow from our reserves.
2. Describe shifts in provider well-being, from hero to human.
3. Identify professional coaching as tool, distinct from mentoring, advising and sponsoring.
4. Identify 3 professional coaching skills that you will use in your own work settings.

EDU15: The Invisible Burden of Time Toxicity—How Can We Minimize This Side Effect?

David B. Frumberg, MD, Nathan S. Rosenberg, MD, Paige Terrien Church, MD

Learning Objectives:

1. Upon completion, participants will be able to define the concept of Time Toxicity.
2. Upon completion, participants will be able to identify the burdens of care that are invisible to the clinician.
3. Upon completion, participants will be able to apply the concept of time to shared decision making.
4. Upon completion, participants will be able to focus efforts on participation and time-efficiency.

EDU16: Training As A Catalyst For Building Capacity, Connection, And Resiliency In Community Engagement In Research: Learning From Four Organizational Case Studies

Rhonda G. Cady, PhD, RN, Kari Pederson, MSW, LICSW, Paul H. Gross, BA, Valerie Pieraccini,

Learning Objectives:

1. Define community and family engagement in research with attention to the role of lived experience partners.

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2. Discuss why formal training is necessary to build capacity, community and resilience for community and family engagement.
3. Compare core concepts of different implementation strategies to mobilize sustainable community and family engagement best practices.
4. Critically reflect on constraints and opportunities to champion engagement within different organizational and network settings.
2. Upon completion, participants will be able to describe the purpose and features of Courageous Parents Network and NeuroJourney as supportive digital resources
3. Upon completion, participants will be able to analyze how Courageous Parents Network and NeuroJourney support caregivers through anticipatory guidance, goal setting, complex medical decision-making, and many more
4. Upon completion, participants will be able to advocate for the integration of Courageous Parents Network and NeuroJourney as essential resources for caregivers and healthcare professionals

EDU17: It's My Turn: Empowering Self-Advocacy and Building Resilience in Young Adults with Developmental Disabilities

Jensine Clark, MD, Melissa Villegas, MD, Shane C. Johnson, BA

Learning Objectives:

1. Define self advocacy in the context of developmental disabilities.
2. Utilize and ecological, social framework to define domains of self advocacy.
3. Develop strategies to empower patients to advocate in healthcare, family and societal settings.
4. Understand first hand accounts of those with lived experience and lessons learned from self advocacy.

EDU18: Empowering Caregivers and Clinicians: Leveraging Courageous Parents Network and NeuroJourney in Caring for Children with Cerebral Palsy with Complex Medical Co-morbidities

Marina Ma, MD, Cynthia L. Wozow, DO, Chrissy Salley, PhD

Learning Objectives:

1. Upon completion, participants will be able to identify three key psychosocial needs of caregivers of children with cerebral palsy and complex medical co-morbidities

EDU19: Cerebral Visual Impairment and Sensory Integration Challenges: An Interdisciplinary Approach

Haley Oliver, OTD, OTR/L, Kayla Matthews, MS, BCBA

Learning Objectives:

1. Define Cerebral Visual Impairment (CVI) and sensory integration.
2. Describe how sensory integration challenges may interact with CVI to disrupt participation in daily activities.
3. Access the language and tools needed to discuss vision and sensory needs with an individual's teachers, therapists, medical providers and others.
4. Identify practical strategies and resources to support an individual with CVI and sensory integration challenges.

EDU20: Remote Patient Monitoring Practices in Children with Medical Complexity and the Case for a Primary Care Medical Home Model

Monica A. Blazek, MD, Patricia Petroff, MD, Cameron Stine, RN, Craystal Salazar, RN, MSN, CPNP-PC

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Learning Objectives:

1. Identify current barriers to outpatient care in children with medical complexity
2. Describe tools and interdisciplinary techniques to coordinate care for patients remotely.
3. Effectively navigate triaging ill patients via telephone, virtual health visits, and patient portal messaging.
4. Discuss the ongoing nuances goals-of-care and employing shared decision-making while caring for children with medical complexity in their homes.

EDU21: Implementing and Evaluating a Clinical Program using a Learning Health Systems Lens: Learnings from the First Year of Cerebral Palsy Care Coordination

Meghan E. Munger, PhD, MPH, Anna K. Beckstrom, MS, Andrea Bushaw, PhD, Kari Kubiawicz, MBA, BSN

Learning Objectives:

1. Understand a real-world application of Learning Health System (LHS) methodology toward implementing and evaluating a new clinical care program, using learnings from a cerebral palsy care coordination program
2. Identify comprehensive evaluation strategy that prioritizes family wellbeing, measures program efficacy, and informs operational decisions to scale and sustain a clinical program
3. Understand the importance and application of implementation frameworks
4. Understand 1-year program outcomes, including how data refined operational decisions and what efforts were taken to address equity and inclusion

EDU22: Automating General Movements Assessment Classification using Artificial Intelligence for Early Screening of Cerebral Palsy

Laura A. Prosser, PT, PhD, Colleen Peyton, DPT, Rachel Byrne, PT, John Coughlan

Learning Objectives:

1. Describe the motivation for the use of AI in GMA classification and screening of cerebral palsy.
2. Summarize the state of the science on automated classification of GMs.
3. Identify possibilities for large and diverse data-sharing models, including barriers and facilitators.
4. Describe a potential implementation model in their local context.

3:00 PM – 4:00 PM CT

Education Sessions 23–33

EDU23: 2025 Top 10 Articles in Developmental Disabilities

Kilby Mann, MD, Garey H. Noritz, MD

Learning Objectives:

1. Describe recent publications and updates related to the care of children and adults with CP and related disabilities.
2. Describe what is known and future directions related to current topics in the care of children and adults with CP and related disabilities.
3. Critically review scientific literature and apply relevant advances to the care of children and adults with CP and related disabilities in their local settings.
4. Disseminate updates on the care of children and adults with CP and related disorders with local stakeholders (trainees, those with lived experience, communities, others).

Program and Events – Thursday, October 16, 2025

EDU24: Vision Early Assessment and Intervention for Infants at high risk of Cerebral Palsy and Cerebral Vision Impairment

Andrea Guzzetta, PhD MBBS, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Olena Chorna, PhD, Karen L. Harpster, PhD, OTR/L

Learning Objectives:

1. Upon completion participants will learn about early assessment of visual abilities in infants at high risk of CP and CVI using the Ricci scale and Pisa Infant Battery of Vision.
2. Upon completion participants will understand the theoretical underpinnings of the VISIBLE intervention for infants at high risk of CP and CVI.
3. Upon completion participants will understand the specific content of VISIBLE-CVI-CP program including providing context of parent-child daily goal-oriented interactions, environmental enrichment, as it relates to vision-aware modifications.
4. Upon completion participants will learn how to apply the concepts of VISIBLE through interactive case studies.

EDU25: Three-Dimensional Instrumented Gait Analysis for Children with Cerebral Palsy: An Evidence-Based Clinical Practice Guideline

Joseph J. Krzak, PhD, PT, Ellen M. Godwin, PT, PhD, Rebecca States, MA, PhD

Learning Objectives:

1. Apply the action statements from the new clinical practice guideline to the management of children with gait dysfunction related to cerebral palsy.
2. Describe strategies for implementing the action statements into the clinical management of ambulatory children with cerebral palsy.

3. Identify the instruments needed for 3D-IGA, recommendations for staffing of the interdisciplinary team, and the components to be included in a comprehensive 3D-IGA report.
4. Summarize the breadth of evidence supporting action statements about use of 3D-IGA for the management of children with gait disorders related to cerebral palsy.

EDU26: A Taste of Success: Implementation of the International Dysphagia Diet Standardization Initiative at a Pediatric Rehabilitation Hospital

Andrea S. Hoffman, MD, Rebecca Perlin, M.Cl. Sc., Carolyn Li, RD, Janet N. Bernstein, BS

Learning Objectives:

1. Define the distinct IDDSI Levels and understand their importance in relation to client safety.
2. Describe the process undertaken by a pediatric rehabilitation hospital to implement IDDSI in both an inpatient and outpatient setting.
3. Reflect upon the challenges faced by the IDDSI implementation team and the solutions identified through multidisciplinary engagement.
4. Access resources to facilitate implementation of IDDSI in other pediatric centers or to support existing practice.

EDU27: Collaborative Care for Complex Patients: Optimizing Perioperative Management in Cerebral Palsy Hip and Spine Surgery

Arianna Trionfo, MD, Benjamin J. Shore, MD, MPH, FRCSC, Rachel L. Difazio, PhD, RN, Juliana Mariani, MD, Brittany A. Virgil, PT, DPT

Program and Events – Thursday, October 16, 2025

Learning Objectives:

1. Understand the medical and nutritional challenges faced by neuromuscular patients undergoing major orthopedic surgery.
2. Identify key strategies for preoperative optimization to improve surgical outcomes.
3. Recognize the importance of post-operative rehabilitation and equipment needs to support optimal recovery and long-term functional outcomes.
4. Emphasize the importance of identifying pain in non-verbal or minimally verbal patients and implementing effective perioperative pain management strategies.

EDU28: Advances in Developmental Coordination Disorder: Screening, Diagnosis, Evaluation, Intervention

Barbara Sargent, PhD, PT, Erin Iverson, PT, DPT, PCS, Megan E. Frazier, DPT, MFA, Nicole Nghiem, MD

Learning Objectives:

1. Identify the tools with the highest evidence to screen for Developmental Coordination Disorder (DCD).
2. Explain the four diagnostic criteria for DCD and the tools with the highest evidence to inform each criterion.
3. Summarize the evidence for physical therapy evaluation and intervention of DCD.
4. Develop strategies for service quality improvement and implementation to facilitate knowledge translation of current research on DCD to clinicians, parents/caregivers, medical providers, and academic programs.

EDU29: Multidisciplinary Quality Improvement Initiatives: Fostering Resiliency by Addressing our Common Challenges Together!

Susan Biffi, MD, Anna Jesus, MD, Mary Hawkes, DNP, Mario Bialostozky, MD, Verena M. Schreiber, MD, Emily Ahmad, Didem Inanoglu, MD, FAAPMR, CLCP, Alexa Karkenny

Learning Objectives:

1. Upon completion, participants will have a solid understanding of QI principles adequate to design a multidisciplinary QI initiative.
2. Upon completion, participants will be able to cite examples of potential multidisciplinary QI initiatives to address the care of patients with developmental disabilities and complex care needs.
3. Upon completion, participants will be able to identify stakeholders and resources to develop a project including data gathering and tracking.
4. Upon completion, participants will be able to identify strategies for sustaining improvements.

EDU30: From Guidelines to Practice: Enhancing Cerebral Palsy Care in Underserved Communities in Puerto Rico

Ana M. Ortiz-Santiago, MD, Edwin Portalatín, MD, Ana-Marie Rojas, MD

Learning Objectives:

1. Upon completion, participants will be able to illustrate the lived experiences of patients with Cerebral Palsy (CP) in PR from both a Pediatric Physiatrist and Orthopedic perspective.
2. Upon completion, participants will be able to identify barriers to CP care in underserved regions like Puerto Rico.

Program and Events – Thursday, October 16, 2025

3. Upon completion, participants will be able to Highlight the role of AACPDM care pathways in improving care practices for the underserved population in Puerto Rico.
4. Upon completion, participants will be able to Identify strategies to establish effective multidisciplinary care for CP patients in underserved regions like Puerto Rico.

EDU31: Culturally Sensitive Care and Disability: Leveraging Interactions with the Healthcare System

Verónica Schiariti, MD MHSc PhD, Azucena

I. Garcia, BA, Hana Azizi, MD, MPH,

Marina Ma, MD

Learning Objectives:

1. Discuss the importance of cultural awareness to enhance healthcare interactions
2. Share personal experiences with healthcare from different cultural backgrounds
3. Review global evidence on impact of culturally diverse care
4. Propose actions to honour cultural differences and enhance engagement

EDU32: Shared Decision-Making using the GOAL questionnaire with Families Considering Selective Dorsal Rhizotomy: Priorities, Functional Assessment, & Responsiveness to Change

Jean L. Stout, PT, MS, PhD, Katie J. Walt, PT,

DPT, Michael T. Healy, MD, Unni G. Narayanan,

MBBS, MSc, FRCS(C)

Learning Objectives:

1. Describe the unique nature of the GOAL Questionnaire and what it adds to functional outcome assessment.
2. Describe changes in family priorities and function as measured by the GOAL Questionnaire before and after selective dorsal rhizotomy

3. Discuss how direct knowledge of family priorities related to functional tasks can augment and direct treatment planning.
4. Identify one or more pearls and pitfalls regarding incorporation of the GOAL Questionnaire into clinical practice.

EDU33: Bridging the Gap: Translating Intensive Rehabilitation Camp Gains into Real-World Participation for Children with CP

Qinyin Qiu, PhD, Mee Eriksson, MA, Don Scott

Matthews, MS, Karina Mikelson

Learning Objectives:

1. Upon completion, participant will be able to discuss the constellation of barriers to participation experienced by persons with CP.
2. Upon completion, participant will be able to describe the impact of cohorting during camp-based rehabilitation on self-efficacy in children with CP.
3. Upon completion, participant will be able to design a rehabilitation curriculum that facilitates the translation of motor function and activity level improvements into participation expansion.
4. Upon completion, participant will be able to discuss the challenges associated with evaluating the impact of rehabilitation on participation.

Program and Events – Thursday, October 16, 2025

4:00 PM – 4:30 PM CT

Coffee Break in the Exhibit Hall

4:30 PM – 5:30 PM CT

General Session

6:30 PM – 8:00 PM CT

Special Interest Groups (SIGs)

- Adults and Aging
- Complex Care
- Adapted Sports and Recreation
- Technology

THURSDAY

Program and Events – Friday, October 17, 2025

8:00 AM – 9:30 AM CT

General Session

9:30 AM – 10:30 AM CT

Coffee Break and Exhibit/Poster Review

10:30 AM – 11:30 AM CT

Education Sessions 34–44

EDU34: Developmental Powered Mobility: Exploring Diverse Applications for Multisystem Development by Moving Beyond the ‘Point A to Point B’ Paradigm

Sudha M. Srinivasan, PT, PhD, Lisa K. Kenyon, PT, DPT, PhD, Sam W. Logan, PhD, Bethany Sloane, PT, DPT, PhD, Heather A. Feldner, BS, MPT, PhD

Learning Objectives:

1. Describe the difference between traditional Powered Mobility practices and a Developmental Powered Mobility (DPM) approach
2. Discuss the theoretical frameworks underlying DPM
3. Describe the principles and key ingredients of the DPM approach
4. Identify at least 2 ways to use DPM to promote multisystem development in children with Cerebral Palsy

EDU35: Management of Foot Deformities in Non-ambulatory Children with Cerebral Palsy

M. Wade Shrader, MD, Jason J. Howard, MD, Arianna Trionfo, MD, Robert M. Kay, MD, Nancy Lennon, BS, MS, DPT

Learning Objectives:

1. Discuss the common foot deformities and their impact on function in non-ambulatory CP
2. Understand the principles of surgical correction of foot deformities in non-ambulatory CP

3. Gain an understanding of how the treatment of foot deformities can impact the lives of patients and families in terms of participation (ICF) and quality of life
4. Discuss novel assessments of standing and transfer abilities to help quantify associated functional impairments

EDU36: Breaking Barriers: Innovative Strategies for Managing Obesity in Cerebral Palsy and Developmental Disorders

Jennifer Hankenson, FAAPMR, DipABLM, Katherine DeGraaff, DO, Philip Schauer

Learning Objectives:

1. Identify unique etiological factors contributing to obesity in patients with CP and developmental disorders, emphasizing the role of physical and metabolic challenges.
2. Describe and implement evidence-based dietary and physical activity interventions that address the specific nutritional needs and barriers faced by this population.
3. Evaluate the benefits and risks of bariatric surgery and the emerging role of GLP-1 agonists for patients with CP and developmental disorders, utilizing case studies and current research findings.
4. Advocate for interdisciplinary approaches and policy changes that support the implementation of tailored obesity management programs for patients with CP and developmental disorders.

EDU37: Harnessing Infant Spontaneous Movements to Guide Referral to Targeted Early Interventions

Colleen Peyton, DPT, Carly Luke, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

Program and Events – Friday, October 17, 2025

Learning Objectives:

1. Upon completion, participants will be able to describe the features and scoring of the MOS-R and BabyOSCAR and define the differences between both tools.
2. Upon completion, participants will be able to understand how the specific features and scores on MOS-R and BabyOSCAR predict later neurodevelopmental outcomes including CP, autism, FASD and Developmental delay.
3. Upon completion, participants will be able to choose the most appropriate tool (MOS-R or BabyOSCAR) to provide additional in-depth analyses of infant spontaneous movements at 3 months.
4. Upon completion, participants will be able to understand how both tools can be implemented clinically to fast-track infants to targeted early intervention services.

EDU38: Improving Hip Surveillance Implementation: Strategies and Technologies to Overcome Barriers

Ed Wright, MD, Vedant A. Kulkarni, MD

Learning Objectives:

1. Define barriers and potential solutions in the implementation of a hip surveillance program within varying health systems
2. Identify resources to educate key stakeholders in hip surveillance implementation
3. Understand functionality within electronic medical record systems that can improve hip surveillance processes
4. Appreciate the role of mobile app technology to remove barriers in hip surveillance implementation

EDU39: Introducing the CPCHECKlist – The Clinical and Research Utility of a Parent Reported Checklist of Co-morbidities & Utilization of Health Technologies for Cerebral Palsy.

Unni G. Narayanan, MBBS, MSc, FRCS(C), Laurie Glader, MD

Learning Objectives:

1. Provide a comprehensive list of the various comorbidities experienced, and health technologies used, by children and young adults with non-ambulatory cerebral palsy.
2. Understand how the CPCHECKlist can serve as an effective tool to capture the comorbidity concerns and health technology needs for children and young adults with non-ambulatory cerebral palsy.
3. Understand how the CPCHECKlist was developed and validated for research as well as for clinical purposes.
4. Discuss the clinical and research utility of the CPCHECKlist in their own clinical and research settings.

EDU40: Tiny Voices Matter. The Impact of Early Communication: Insights from Research and Clinic

Helen L. Long, PhD, CCC-SLP, Dana R. Anderson, MA, CCC-SLP, Katie M. Michalski, MA, CCC-SLP

Learning Objectives:

1. Recognize early indicators of atypical communication development in children with CP and appropriate timing for referrals for evaluation by speech therapy.
2. Explore language stimulation techniques and parent coaching strategies to promote communication development in home and therapy settings.
3. Identify parent coaching strategies to promote communication development in home and therapy settings.

Program and Events – Friday, October 17, 2025

4. Gain a foundational understanding of AAC strategies and their application in supporting children with limited progress in verbal speech development.

EDU41: Caregiver Engagement and Participation in a Novel Early Therapeutic Intervention for Infants at Risk of Neuromotor Delay

Elizabeth Hoffman, DPT, Nicole Pouppirt, MD, Nishant Srinivasan

Learning Objectives:

1. Explain the current evidence for caregiver participation in early therapeutic interventions for children born with risk factors for neuromotor delay.
2. Summarize the Caregiver Engagement principle in the Project Corbett Ryan Intervention Protocol.
3. Identify at least five methods for facilitating caregiver engagement in early physical therapy intervention.
4. Describe objective measures used to assess caregiver engagement in early therapeutic interventions.

EDU42: Management of Difficult Clinical Presentations of Complex Neurological Conditions, Hypertonia, and Complex Movement Disorders in Children with Disabilities

Mark Gormley, Jr., MD, Timothy J. Feyma, MD, Patrick Graupman, MD

Learning Objectives:

1. Upon completion, participants will be able to better understand difficult hypertonic and complex movement disorders and possible treatment options, including the importance of a team approach in patient management
2. Upon completion, participants will be able to understand when a deep brain stimulator can be useful in managing severe dystonic and dyskinetic conditions

3. Upon completion, participants will be able understand which patients may be successfully treated with a ventral-dorsal rhizotomy or a selective dorsal rhizotomy.
4. Upon completion, participants will be able to understand when intrathecal baclofen, phenol neurolysis, and botulinum toxin injections may be useful in treating hypertonic conditions

EDU43: How the Brain Moves the Body: Characterizing Motor Learning in Typical Development and Cerebellar Ataxia

Nayo Hill, PT, DPT, PhD, Jennifer Keller, PT, MS

Learning Objectives:

1. Define different types of motor learning mechanisms.
2. Describe how the brain adjusts behavior when encountering novel environments.
3. Discuss the implications of injury in different parts of the brain on motor learning mechanisms.
4. Explain resilience in motor function observed after neurological injury when rehabilitation engages preserved mechanisms.

EDU44: Top 5 Articles in Rehabilitation Technology

Ann Tokay Harrington, PT, DPT, PhD, Jennifer Lyman, MS, Megan K. O'Brien, PhD, Joshua Vova, MD, Sarah H. Evans, MD, Deborah Gaebler-Spira, MD, FAAP

Learning Objectives:

1. Upon completion, participants will be familiar with the most significant recent publications related to technology in the care of individuals with CP and developmental disabilities.

Program and Events – Friday, October 17, 2025

- Panelists will critically review recent technology-related literature, and the audience will understand the facilitators and barriers to incorporating these approaches in the care of individuals with CP and related disabilities.
- Upon completion, participants will be able to identify knowledge translation strategies to implement recent research findings in their local communities.
- Upon completion, participants will be able to describe how patients and families can best obtain and understand the current evidence, including common language summaries.

11:30 AM – 12:30 PM CT

Snack Break (in the Exhibit Hall)

12:30 PM – 1:30 PM CT

Podium Presentations F–J

Free Paper Session F: Adult Lifespan

12:30 PM - 12:36 PM CT

F1: Priority Setting for Multicenter Research Among Adults with Cerebral Palsy: A Qualitative Study

Cristina A. Sarmiento, MD, Mary E. Gannotti, PhD, PT, Jocelyn Cohen, JD, Edward A. Hurvitz, MD

12:37 PM - 12:43 PM CT

F2: The Co-design of a Peer Support Program for Adults with Special Care Needs

Karen Pratt, MSc, Caitlin Cassidy, MD, Nicole Turner, Dalton Wolfe, PhD, Laura K. Brunton, PT, PhD

12:44 PM - 12:50 PM CT

F3: Longitudinal Decline in Upper Limb Range of Motion in Adults with Cerebral Palsy

Erika Cloodt, PhD, Jenny SL Hedberg Graff, PhD, Anna Lindgren, PhD, Marianne Arner, Prof, Evgenia Manousaki, MD, PhD, Katina Pettersson, PhD, Elisabet Rodby-Bousquet, Associate professor

12:51 PM - 12:57 PM CT

F4: Different Dimensions of Walking and Contributing Factors in Adults with Cerebral Palsy

Alice Bonnefoy-Mazure, PhD, Anne Tabard-Fougere, PhD, Oscar Vasquez, MD, Geraldo De Coulon, MD, Stéphane Armand, PhD

1:01 PM - 1:07 PM CT

F5: Tobacco Use Is More Dangerous for Adults With Cerebral Palsy

Wesley Day, Gwyneth Maloy, BA, Anthony E. Seddio, BS, Jonathan N. Grauer, MD, David B. Frumberg, MD, Ally Yang, MD

1:08 PM - 1:14 PM CT

F6: How Do Gait Outcomes Progress in Adults with Spastic Cerebral Palsy Following Childhood Orthopedic Care?

Alice Bonnefoy-Mazure, PhD, Anne Tabard-Fougere, PhD, Oscar Vasquez, MD, Geraldo De Coulon, MD, Stéphane Armand, PhD

1:15 PM - 1:21 PM CT

F7: The Association Between Anterior Pelvic Tilt and Back Pain in Adults with Cerebral Palsy

Chris Church, MPT, Jason J. Howard, MD, Freeman Miller, MD, M. Wade Shrader, MD, Nancy Lennon, DPT, MS, PT, Jose J. Salazar-Torres, Ph.D., Madison Lennon, Victoria Hinchberger

FRIDAY

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Free Paper Session G: Complex Care

12:30 PM - 12:36 PM CT

G1: Cerebral Palsy Severity and its Association with Socio-economic and Environmental Factors

Hana F. Alazem, MSc PT, MD, Anna M. McCormick, MD, Richard Webster, PhD, Ewa Sucha, Michelle Larin, MSc, Darcy Fehlings, MD MSc

12:37 PM - 12:43 PM CT

G2: Cost Analysis of Services Used by Children With Emerging Developmental Delays and Their Parents Enrolled in a Parental Coaching Program From a Family Payer Perspective

Annette Majnemer, OT, PhD, FCAHS, Xiao Yang Jia, MSc, Myla E. Moretti, PhD, Wendy J. Ungar, MSc, PhD, Kristy Wittmeier, PhD, Jillian H. Filliter, PhD, Faizan Khan, BA, Tamlyn Smith, Jennifer Zwicker, PhD MPP

12:44 PM - 12:50 PM CT

G3: Multidisciplinary Initiative to Reduce Medical Device Pulling

Claire Wallace, PhD, Kim Ueltschy, MS, CCC-SLP, Brian Dieffenderfer, MPH, Patrick Hogan, MPH

12:51 PM - 12:57 PM CT

G4: Development of an ICF Minimal Functional Data Set for Children Living with Health Complexities in British Columbia and Yukon (Canada): A Co-Design Collaborative Approach

Verónica Schiariti, MD MHSc PhD, Tessa Diaczun, CNP, Lee M. Johnston, MPH, PhD, Elizabeth Stanford, PhD, Tom McLaughlin, MD, MPP, FRCPC, FAAP, Hal Siden, MD, MHSc

1:01 PM - 1:07 PM CT

G5: Magnitude of Malnutrition and Associated Factors in Children with Cerebral Palsy at Tikur Anbessa Hospital, Addis Ababa

Atsede Teklehaimanot Legesse

1:08 PM - 1:14 PM CT

G6: Children with Invasive Mechanical Ventilation: Clinical Experts' Perspectives on Neurodevelopmental Disabilities and Habilitative Needs

Emma Lynch, MPH, Sarah A. Sobotka, MD, MSCP

1:15 PM - 1:21 PM CT

G7: Data Dispels the Myths: Prevalence, Risk Factors, Pathogenesis, and Mitigation of Cast Related Pressure Sores in Pediatric Patients

Ruchika Khot, Max Twedt, James Sypherd, Bria Foley, Hani Haider, PhD, Maegen Wallace, Vivek Dutt, MBBS, Matthew A. Halanski, MD

1:22 PM - 1:28 PM CT

G8: Assessments of Neurodevelopmental Outcomes for Children with Invasive Mechanical Ventilation (IMV) in a NICU follow-up clinic

Sarah G. Heigel, MSN, RN, CNL, Michelle High, MSN, Sarah A. Sobotka, MD, MSCP

Free Paper Session H: Early Childhood

12:30 PM - 12:36 PM CT

H1: School Readiness in Very Preterm Infants in Ontario: A Pilot Database Study

Kamini Raghuram, Nicole Bando, Magdalena Janus, Seungwoo Lee, Ashley Gaskin, Amanda Offord, Caroline Reid-Westoby, PhD, Rachel Ault, M.Ed., Ed.D., Prakeshkumar Shah

FRIDAY

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12:37 PM - 12:43 PM CT

H2: A Composite Score to Evaluate Atypical Motor Development Using Standardized Pediatric Assessments

Megan K. O'Brien, PhD, Elizabeth Folkmann, Kyle Embry, PhD, Raye-Ann deRegnier, MD, Arun Jayaraman, PT, PhD

12:44 PM - 12:50 PM CT

H3: Selective Motor Control Changes from Term Age to 3 Months of Age in Infants Both With and Without Cerebral Palsy

Theresa Sukal-Moulton, PT, DPT, PhD, Lynn Boswell, PT, MS, Imani Mann, Barbara Sargent, PhD, Raye-Ann deRegnier, MD, Ryan Millman, Arend F. Bos, PhD, Colleen Peyton, DPT

12:51 PM - 12:57 PM CT

H4: Timeline to Engagement in Early Intervention Services for High-Risk Neonatal Intensive Care Unit Graduates

Nicole Pouppirt, MD, Aneta M. Jedraszko, MPH, Jessica Trenkle, DPT, Sarah G. Heigel, MSN, RN, CNL, Elizabeth Hoffman, DPT, Raye-Ann deRegnier, MD

1:01 PM - 1:07 PM CT

H5: Emergence of Selective Motor Control in Very Preterm Infants with and without Cerebral Palsy

Colleen Peyton, DPT, David Aaby, MS, Ryan Millman, Raye-Ann deRegnier, MD, Arend F. Bos, PhD, Theresa Sukal-Moulton, PT, DPT, PhD

1:08 PM - 1:14 PM CT

H6: Asymmetry in Infant Selective Motor Control Predicts Cerebral Palsy Laterality and Body Distribution at age 2 or older

Alison Goetzeluck, PT, DPT, Colleen Peyton, DPT, Lynn Boswell, PT, MS, Vanessa Barbosa, Kristina Stein, MS, Imani Mann, Sarah Heigel, Nicole Pouppirt, MD, Raye-Ann deRegnier, MD, Theresa Sukal-Moulton, PT, DPT, PhD

1:15 PM - 1:21 PM CT

H7: Changes in Dyadic Emotional Availability from Term Age to 15 Weeks Later in Term and Preterm Parent-Infant Dyads

Corri L. Stuyvenberg, PT, DPT, MA, Rebecca Molinini, PhD, Corissa Rohloff, PhD, Christine Spence, PhD, Jennifer Burnsed, Stacey C. Dusing, PhD, PT, FAPTA

1:22 PM - 1:28 PM CT

H8: Selective Motor Control in Infancy Predicts Gross Motor Function at Age 2 and Beyond in a Clinically Diverse CP Cohort

Kristina Stein, MS, Alison Goetzeluck, PT, DPT, Lynn Boswell, PT, MS, Colleen Peyton, DPT, Theresa Sukal-Moulton, PT, DPT, PhD, Vanessa Maziero Barbosa, PhD, Imani Mann, Raye-Ann deRegnier, MD, Nicole Pouppirt, MD

Free Paper Session I: Kinematics

12:30 PM - 12:36 PM CT

I1: Predicting Gait Kinematics in Youth with Cerebral Palsy using Clinically Informed Machine Learning Algorithms

Daniel Wagner, Nancy Lennon, DPT, MS, PT, Chris Church, MPT, Jose J. Salazar-Torres, Ph.D., C. Nataraj, PhD, Freeman Miller, MD, David Cereceda, Jason J. Howard, MD

12:37 PM - 12:43 PM CT

I2: Are the Clinical and Kinematic Findings of Idiopathic Toe Walking Really more Symmetrical than those in Mild Cerebral Palsy?

Mauro C. Morais Filho, MD, Cátia M. Kawamura, PT, Marcelo H. Fujino, MD, José Augusto F. Lopes, MSc, Nicole Cirilo, MD

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12:44 PM - 12:50 PM CT

I3: Differential Diagnosis Between Idiopathic Toe Walking and Mild Cerebral Palsy Using Clinical and Kinematic Findings

Mauro C. Morais Filho, MD, Cátia M. Kawamura, PT, Marcelo H. Fujino, MD, José Augusto F. Lopes, MSc, Nicole Cirilo, MD

12:51 PM - 12:57 PM CT

I4: Ability of Children with Idiopathic Toe Walking and a Moderate Calf Contracture to achieve a First Rocker in Gait

Jeremy Bauer, MD, Mark L. McMulkin, PhD, Susan Sienko, PhD, Bruce A. Macwilliams, PhD, Jon R. Davids, MD

1:01 PM - 1:07 PM CT

I5: Selective Motor Control correlates with Gait Function in Patients with Hereditary Spastic Paraplegia

Robert Wimberly, MD, Kelly A. Jeans, MSc, Elizabeth Bunkell, PT

1:08 PM - 1:14 PM CT

I6: Passive Versus Active Dorsiflexion During Weight Bearing and Gait in Charcot-Marie-Tooth Disease

Sylvia Ounpuu, Kristan A. Pierz, MD, Jennifer Rodriguez-MacClintic, PT, Lauren Bargmann, MS, Zahra Bassiri, PhD, Emmanuelle Tiongson, MD, Gyula Acsadi, MD, PhD, Tishya A. L. Wren, PhD

1:15 PM - 1:21 PM CT

I7: Gait Patterns Were Reliably Recognized Through Video Observations in Children with Cerebral Palsy

Inti Vanmechelen, PhD, Edwin Råsberg, Evgenia Manousaki, MD, PhD, Tina Andersson, Cecilia Lidbeck, PT

1:22 PM - 1:28 PM CT

I8: A Cluster Analysis on Trunk and Pelvic Kinematics in Children with Diplegic Cerebral Palsy

Vishnu Deep Chandran, PhD, Olivia Tracey, BA, Akshitha Adhiyaman, BS, Silvia Zanini, MS, Bridget A. Assip, DPT, Jennifer Jezequel, DPT, Dara Jones, MD, Howard J. Hillstorm, PhD, David M. Scher, MD, Paulo Selber, MD

Free Paper Session J: Orthopedics 2

12:30 PM - 12:36 PM CT

J1: Evaluating 4-Year Failure Rates of Hip Reconstruction in Pediatric Patients with Cerebral Palsy

Rebecca Schultz, BS, Alexander H. Jinnah, MD, PhD, Jason Z. Amaral, BS, Norvin Hernandez, Madison Allen, MD, Scott Rosenfeld, MD, Dorothy Harris Beauvais, MD

12:37 PM - 12:43 PM CT

J2: Intraoperative Traction Does Not Improve Curve Correction or Pelvic Obliquity Within a Matched Cohort of Patients with Neuromuscular Scoliosis

Alastair W. Sterns, BS, Jacquelyn Valenzuela-Moss, BS, Tiffany N. Phan, BA, Efrain Amaro, BS, Tyler A. Tetreault, MD, Gerard K. Williams, Jr., MD, Lindsay M. Andras, MD, Michael J. Heffernan, MD

12:44 PM - 12:50 PM CT

J3: The Spinal Muscular Atrophy Functional Classification System (SMAFCS): Development and Analysis of Age-Related Trajectories in a Treated Cohort

Jason J. Howard, MD, Kerr Graham, MD, MD, M. Wade Shrader, MD, Sadettin Ciftci, MD

FRIDAY

Program and Events – Friday, October 17, 2025

12:51 PM - 12:57 PM CT

J4: Risk for Hip Displacement is Associated with Etiology of Cerebral Palsy

Stacey D. Miller, BSc(PT), MRSc, Maria Juricic, MRSc, BScPT, BScKin, Sharon Shrestha, Caitlyn Siu, Ram A. Mishaal, MD, Vuong Nguyen, Kishore Mulpuri, MHSc, MSc, MBBS, FRCSC

1:01 PM - 1:07 PM CT

J5: Disease Modifying Treatment (DMT) does NOT Mitigate Scoliosis in Spinal Muscular Atrophy (SMA)

Taylor Marie Adams BS; Lennert Plasschaert MD; Patricia Miller PhD; Ron El-Hawary MD; Basil Darras MD; Brian Snyder MD, PhD

1:08 PM - 1:14 PM CT

J6: Improved Posterior Hip Coverage without Osteotomy: Pelvic Growth Modulation in the Swine Model.

Matthew A. Halanski, MD, Brittney Kokinos, MS, Cameron Jeffers, MS, Tengeng Tang, PhD, Vamsikrishna Kurakalva, M. Wade Shrader, MD, Tom D. Crenshaw, PhD, Cindy (Xiangjia) Li, PhD

1:15 PM - 1:21 PM CT

J7: Does Disability Bias Exist in Pediatric Orthopedics?

Taylor M. Adams, BS, Maria F. Canizares, MD, MPH, Shanika De Silva, PhD, Benjamin J. Shore, MD, MPH, FRCSC

1:22 PM - 1:28 PM CT

J8: Health-Related Quality of Life (CPCHILD) After Guided Growth Treatment for Hip Displacement in Young Children with Cerebral Palsy

Uri Givon, MD, M. Wade Shrader, MD, Christina Herrero, MD, Rachel Lenhart, MD, PhD, Arianna Trionfo, MD, Alice Taylor, Freeman Miller, MD, Jason J. Howard, MD

1:45 PM – 2:45 PM CT

Education Sessions 45–55

EDU45: Empowering Engagement in Physical Activity for Children and Adolescents with Cerebral Palsy: A Community-Based Participatory Model for Community Organizations, Researchers, and Clinicians

Mara M. Yale, PhD, Jacqueline Chen, BS, Elliott Hu, HScD, Brian D. Wishart, DO, MMS, FAAP, Katherine Dimitropoulou, Ph.D., MSPOR, OTR/L
Learning Objectives:

1. Describe the methods and the implementation strategies of the CBPR model for developing PA programs that empower families, children, and adolescents with cerebral palsy.
2. Define strategies for building collaborations between community members, programs, researchers, and clinicians
3. Describe the implications of academic-community collaborations for developing meaningful and impactful research
4. Articulate the implications of academic-community collaborations for clinical care, development of PA community programs and impactful research

EDU46: Bridging the Gap for Emerging Adults with CP: Insights on Transition Planning from Three Institutions

Sanaya Shenoy, MSPH, Heather RM Riordan, MD, Deborah Sahlin, BS, Morgan Leigh Kane, OTR/L, Cristina A. Sarmiento, MD

Learning Objectives:

1. Identify gaps in existing infrastructure for transition planning and areas of priorities for transition planning
2. Assess tools for transition planning, including those that are currently available and those that are in development

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3. Describe models of healthcare transition planning for individuals with CP used at three different institutions
4. Apply an approach to a CP-specific transition planning program for developing context-specific tools for the attendee's healthcare institution
2. Upon completion participants will describe commencement at the correct level of ability and incrementation of intervention using the Hand Assessment of Infants (HAI) in infants with Hemiplegia.
3. Upon completion participants will understand facilitators, barriers and opportunities for implementing intensive EI in community and hospital contexts in high and low resource settings.
4. Upon completion participants will determine processes for ensuring high fidelity of delivery by therapists and the optimal set up in the home, selection of toys using a coaching model.

EDU47: Voice of the Unheard: Addressing Complex Communication Needs in Healthcare

Jensine Clark, MD, Michelle Seymour, MD, PhD

Learning Objectives:

1. Develop strategies for interviewing those who have complex communication needs and their care team.
2. Apply proxy measures to clinical settings and incorporate the data into treatment plans.
3. Identify communication themes of caregivers, providers and patients to develop treatment plans that include all members of the care team.
4. Integrate augmentative and alternative communication strategies into clinical encounters.

EDU48: Implementation of Intensive Early Intervention using Motor Learning approaches for children with Cerebral Palsy 0-5 years

Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Leanne Sakzewski, PhD, Bachelor Occupational Therapy, Andrea Nicole N. Burgess, B Occ Thy, Grad Cert Epi, PhD, Kate McLeod, PT, Kimberley S. Scott, PT, DPT, PhD, Andrea Guzzetta, PhD MBBS

Learning Objectives:

1. Upon completion participants will identify key ingredients for effective early interventions (EI) for infants at high risk of cerebral palsy (CP) and implementation methods based on evidence from recent RCTs.

EDU49: Dilemmas in Perioperative Management for Non-ambulatory Children with Cerebral Palsy and Related Disorders: The “Heart” of Decision Making

Laurie Glader, MD, Giuliana Antolovich, PhD, Unni G. Narayanan, MBBS, MSc, FRCS(C), Erich Rutz, MD, Ingrid R. Sutherland, RN, Nathan S. Rosenberg, MD

Learning Objectives:

1. Describe the complexities of determining if and when to pursue lower extremity surgical procedures in individuals with CP and related disorders
2. Identify critical co-morbidities that can complicate the peri-operative period and influence decision making to pursue or not pursue surgery.
3. Identify key ethical issues that may arise when considering major surgery in children with CP and related disorders.
4. Implement tools to support decision making so that care goes well when pursuing major orthopedic surgery in children with non-ambulatory CP and related disorders.

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EDU50: Managing Osteoporosis in Children with Cerebral Palsy: Updated Evidence on Care Pathways

Craig Munns, PhD, Darcy Fehlings, MD MSc, M. Wade Shrader, MD, Laura Bentley, PhD

Learning Objectives:

1. Understand the updated epidemiology and risk factors for low bone mineral density and fractures in children with CP.
2. Review evidence-informed interventions for managing osteoporosis, including calcium intake, vitamin D levels and promoting weight-bearing activities.
3. Discuss the implications of the updated evidence to inform potential changes to the AACPD M Care Pathway recommendations to improve bone health outcomes for children with CP.

EDU51: Orthopedic Aspects of Spinal Muscular Atrophy: Implications for Surveillance and Treatment in the Era of Disease-Modifying Therapies

Jason J. Howard, MD, Matthew A. Halanski, MD, Saunder Bernes, MD

Learning Objectives:

1. Learning Objectives: Describe the genetic basis and classification of disease severity in spinal muscular atrophy, and the evidence for the use of disease modifying treatments to improve function
2. Describe the epidemiology and treatment of scoliosis in spinal muscular atrophy, including the role of disease modifying treatments on prevalence and surgical outcomes.
3. Describe the epidemiology and treatment of hip deformities in spinal muscular atrophy, including the role of disease modifying treatments on prevalence and surgical outcomes.

4. Describe the evaluation and treatment of gait function in spinal muscular atrophy and how it has been impacted by disease modifying treatments.

EDU52: Increasing Access to Genetics Services for Individuals with Cerebral Palsy

Kaitlyn Burns, CGC, Alexis Heidlebaugh, MS

Learning Objectives:

1. Demonstrate basic understanding of genetics and genetic testing
2. Describe potential etiologies for cerebral palsy, outside of pregnancy/delivery risk factors
3. Demonstrate how genetic evaluation in patients with CP can impact patient medical care, other family members, and other aspects of life
4. Provide resources for genetics support

EDU53: Fast-Track Research Networking: Connecting Researchers, Clinicians & Individuals with Lived Experience

Samuel Thomas Nemanich, PhD, MSCI, Stacey C. Dusing, PhD, PT, FAPTA, Deborah E. Thorpe, BS, MS, PhD, PT, Dalina Delfing, MS, Hannah Aura. Shoval, MD

Learning Objectives:

1. Deliver a research pitch clearly, effectively, and concisely to a researcher, clinician, and person with lived experience.
2. Identify potential research collaborators among attendees.
3. Expand their network through discussions with experts in cerebral palsy and developmental medicine.
4. Gain valuable insights from clinicians, researchers and people with lived experience on the real-world impact of research.

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EDU54: Down Syndrome Across the Lifespan: Moving Beyond Milestones to Resilience Through Functioning and Thriving – Advancing Neuroscience, Equity, and Advocacy in Down Syndrome Care

Gabriel Anzueto, MD, Rudaina Banihani, MD, MMed, Michael E. Msall, MD

Learning Objectives:

1. List common co-morbidities of children with Down syndrome from birth through early adulthood.
2. Analyze the unique developmental trajectory of individuals with Down syndrome and the limitations of milestone-based assessments in clinical practice.
3. Define and recognize co-morbid conditions such as Autism Spectrum Disorder in Down syndrome (DS-ASD), Down syndrome regression disorder, and other diagnostic overshadowing.
4. Develop strategies to apply a strengths-based, resilience-focused approach to clinical care and education for individuals with Down syndrome, incorporating principles of neuroscience, equity, and advocacy.

EDU55: Importance of Engagement in Rehabilitation for Children and Youth with Developmental Disabilities

Sudha M. Srinivasan, PT, PhD, Lisa K. Kenyon, PT, DPT, PhD

Learning Objectives:

1. List current models and frameworks of engagement and motivation in the context of rehabilitation across the lifespan.
2. Describe existing tools to evaluate engagement during rehabilitation among children and youth.

3. Discuss current state of the research on rehabilitation interventions enhancing engagement among children and youth with developmental disabilities.
4. Identify strategies to enhance engagement during healthcare interventions among children and youth with developmental disabilities.

2:45 PM - 3:15 PM CT

Coffee Break in the Exhibit Hall

3:15 PM - 4:15 PM CT

Podium Presentations K-O

Free Paper Session K: Communication, Vision and Cognition

3:15 PM - 3:21 PM CT

K1: Phenotypes Associated with Motor Speech Disorders Vary by Genetic Etiology

Marissa W. Mitchel, MS, Alexander Berry, PhD, Matthew Oetjens, David H. Ledbetter, Scott M. Myers, MD

3:22 PM - 3:28 PM CT

K2: Decoding Early Infant Neuromotor Behaviour on the Motor Optimality Score-Revised and Hammersmith Infant Neurological Examination to Determine High Likelihood of Autism at 12 Months

Carly Luke, PhD, Anya Gordon, BA, MaPaedsPrac, Katherine Benfer, PhD, Robert S. Ware, PhD, Margot Bosanquet, FRACP, Shaneen Leishman, PhD, Arend F. Bos, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

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3:29 PM - 3:35 PM CT

K3: Descriptive Epidemiology of Functional Communication Among Children Age 10 Born Extremely Prematurely

Mary Jo Cooley Hidecker, PhD, CCC-A/SLP,
Helen L. Long, PhD, CCC-SLP, Stacey Slone, MS,
Madeleine Lenski, MSPH

3:36 PM - 3:42 PM CT

K4: Retinal Thickness and Associated Visual White Matter Microstructure in Children with Arterial Ischemic Stroke

Meghan Maiani, BScOT, Joseph Floer garrido,
Nisha Lahey, Martin Bardhi, Helen Carlson,
Adam Kirton

3:46 PM - 3:52 PM CT

K5: Randomised Controlled trial of Vision Intervention for Seeing Impaired Babies: Learning through Enrichment (VISIBLE).

Roslyn N. Boyd, PhD, Bachelor Physiotherapy,
Andrea Guzzetta, PhD MBBS, Ada Bancale,
PT, Olena Chorna, PhD, Glen Gole, MBBS,
Alison Salt, MD, Terry L. Schwartz, MD, karen L.
Harpster, PhD, OTR/L, Nana Tashivilli, MD, Ana
Bedoshvilli, MD

3:53 PM - 3:59 PM CT

K6: Content Validation of the Measure of Early Vision Use for Children with Vision Impairment

Belinda Deramore Denver, n/a, Lachlan
Morgan, Kelsey Aquilina, Sophie Walzl, Elspeth
Froude, Sue Silveira

4:00 PM - 4:06 PM CT

K7: Cortical Development in Adolescents and Young Adults with Cerebral Visual Impairment

Marie Drottar, MS, Chan-Mi Kim, Corinna Bauer

4:07 PM - 4:13 PM CT

K8: Screening children for cerebral visual impairment: Accuracy of PreViAs

Karen L. Harpster, PhD, OTR/L, Terry L.
Schwartz, MD, Alaina Johnson, BA, Li Lin, MS,
Melissa L. Rice, OD

Free Paper Session L: Lifespan

3:15 PM - 3:21 PM CT

L1: Childbirth and Reproductive Outcomes Among Women Living with Cerebral Palsy

Anna Linder, PhD, Mia Kolak, Tinna Laufey
Ásgeirsdóttir, Ann I. Alriksson-Schmidt, PhD,
Johan Jarl, PhD

3:22 PM - 3:28 PM CT

L2: Unraveling Postural Control Deficits in School-Aged Children with Spastic Cerebral Palsy: The Role of Brain Lesion Type, Location and Extent

Nina Jacobs, MSc, Simona Fiori, Andrea
Guzzetta, PhD MBBS, Ann Hallemans, PhD,
Kaat Desloovere, PhD, Els Ortibus, MD, Pieter
Meyns, PhD

3:29 PM - 3:35 PM CT

L3: Stakeholder Perspectives on an Adult Cerebral Palsy Community Registry: A Qualitative Study

Cristina A. Sarmiento, MD, Edward A.
Hurvitz, MD, Jocelyn Cohen, JD, Mary E.
Gannotti, PhD,PT

3:36 PM - 3:42 PM CT

L4: Functional Mobility Changes with Age in Patients with Spina Bifida

Diego J. Restrepo, MD, Luciano Dias, MD,
Vineeta T. Swaroop, MD, Jill E. Larson, MD,
Ana-Marie Rojas, MD, Tasos Karakostas, MPT,
MBA, PhD BEng.

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3:46 PM - 3:52 PM CT

L5: The Importance of Social Support, Competence and Continuity in Managing Transition and Transfer Challenges for Young Adults with Disabilities

Grethe Månrum, Reidun B. Jahnsen, PhD, Ellen Hæhre, MSc, Anna Ullenhag, PhD, Berit Gjessing, PhD, Astrid Nyquist, PhD

3:53 PM - 3:59 PM CT

L6: Evaluation of Burden of Care and Self-Efficacy in Pediatric Upper Extremity Conditions

Nina Lightdale, MD, Abigail Padilla, BS, John Livingstone, MD, Brittany N. Garcia, MD, Alastair W. Sterns, BS

4:00 PM - 4:06 PM CT

L7: Shoulder Health in Youth Manual Wheelchair Users: A Novel Comparison with Non-Wheelchair Users

Caleb M.A. Cordes, Jonathan Samet, MD, Joshua M. Leonardis, PhD, Mark J. England, MD, Karin Goodfriend, MD, MSPT, Kathy Zebracki, PhD, Shubhra Mukherjee, MD, FRCPC, Brooke Slavens, PhD

4:07 PM - 4:13 PM CT

L8: Pain Trajectories in Children and Adolescents with Cerebral Palsy: A Swedish Population-based Registry Study

May P. Sin, MD, MSc, Johan Jarl, PhD, Ann I. Aliksson-Schmidt, PhD

Free Paper Session M: Movement Analysis

3:15 PM - 3:21 PM CT

M1: Impact of Age on Gait Deviations and Function After Single Event Multilevel Surgery in Children with Cerebral Palsy

Jason Nadeau, PT, DPT, MS, Alison Hanson, PT, Eva Ciccodicola, DPT, Susan Rethlefsen, Tishya A. L. Wren, PhD, Robert M. Kay, MD

3:22 PM - 3:28 PM CT

M2: From Hip to Ankle: Evidence for Generalized Proprioceptive Deficits In Children with Unilateral and Bilateral Spastic Cerebral Palsy Through 3D Motion Analysis

Nina Jacobs, MSc, Ann Hallemans, PhD, Els Ortibus, MD, Kaat Desloovere, PhD, Pieter Meyns, PhD

3:29 PM - 3:35 PM CT

M3: Breaking It Down or Keeping It Whole? Comparing Sub-Movement and Full-Motion Features to Upper Extremity Timing for Stacking Blocks in Cerebral Palsy Patients

Alice Chu, Roshan V. Patel, Harshill Patel, BA, Amog Mysore, Stephen Macneille, BA

3:36 PM - 3:42 PM CT

M4: Assessment of Upper Extremity Symmetry Differences in Movement Patterns seen during Fine Motor Tasks: A Motion Analysis Study

Alice Chu, Maansi Chalasani, BS, Stephen Macneille, BA, Amog Mysore, Abhiram Dawar, Jean Francois Daneault, PhD

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3:46 PM - 3:52 PM CT

M5: What is The Effect of Medial Hamstring Lengthening in Hemiplegic Cerebral Palsy Patients Undergoing Surgery for an Equinus Contracture?

Robert Wimberly, MD, Lizabeth Bunkell, PT, Cinthy Meza

3:53 PM - 3:59 PM CT

M6: Comparative Analysis of Upper Joint Mimicry for Cerebral Palsy Patients and Healthy Controls

Alice Chu, Amog Mysore, Stephen Macneille, BA, Maansi Chalasani, BS, Abhiram Dawar, Jean Francois Daneault, PhD; Sabrina Dieffenbach, MD

4:00 PM - 4:06 PM CT

M7: Upper Limb Impairments are Common in Pediatric Hereditary Spastic Paraparesis

Angela Shierk, PhD, Michelle Rose Christie, MD, Robert Wimberly, MD, Linsley B. Smith, RN, Sadie Oakley

4:07 PM - 4:13 PM CT

M8: Children with Better Selective Motor Control Attained Greater Motor Function and Knee Flexion Power Following Camp Leg Power: A Motor Control Intervention for Spastic CP

Eileen G. Fowler, PT, PhD, Loretta A. Staudt, MS,PT, Andy Vuong, PhD, Marcia Greenberg, MS, PT, Carolyn Kelley, DPT, Christy Skura, DPT, Christine M. Craib, MS

Free Paper Session N: Pain and Tone

3:15 PM - 3:21 PM CT

N1: Nociceptor Plasticity and Neuroinflammation May Impact Pain Development in an Experimental Model of Cerebral Palsy

Megan R. Detloff, PhD, Corinne W. Marble, BS, Patrick J. McGinnis, BS, MS, Elvia Mena Avila, MD/PhD, Landon Genry, BS, Brendan Moline, BS, Natallia Katenka, BS, MS, PhD, Benjamin Katholi, MD, Deborah Gaebler-Spira, MD, FAAP, Katharina A. Quinlan, PhD

3:22 PM - 3:28 PM CT

N2: Long-term Pain Trajectories and Their Association with Physical and Psychological Well-being in Children and Youth with Cerebral Palsy: A Cohort Study

Heather Shearer, DC, PhD, Sheilah Hogg-Johnson, MMath, PhD, Pierre Côté, DC, PhD, Darcy Fehlings, MD MSc

3:29 PM - 3:35 PM CT

N3: The Influence of Intrathecal Baclofen Pumps on Outcomes Following Spinal Fusion in Non-ambulatory Patients with Cerebral Palsy

Lexi Larson, Daniel J. Miller, MD, Luis Torres-Gonzalez, Tenner J. Guillaume, MD, Walter H. Truong, MD, Joseph H. Perra, MD, Linda E. Krach, MD, Maykala J. Williams, MPH, Sara J. Morgan, PhD

3:36 PM - 3:42 PM CT

N4: Relationship Between Hypertonia Treatment and Gastrocnemius Muscle Properties in Ambulatory and Non-Ambulatory Youth with Cerebral Palsy

Liz R. Boyer, PhD, Christiana Raymond-Pope, PhD, Daniel Hoffman, PhD, Marshall H. Taniguchi, MD, Tom F. Novacheck, MD, Braydon A. Crum, Sarah M. Greising, PhD

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3:46 PM - 3:52 PM CT

N5: Onset of Hip Pain for Children with SMA: Its Relationship to Scoliosis Surgery

Daniel Fontannaz, PA-R, Sheena Seewoonarain, MBBS, Simon Roberts, MBBS FRCS, Sarah Driscoll, MBBS, Ady Abdelhaq, MBBS FRCS, Stewart Tucker, MBBS FRCS, Fabian Norman-Taylor, MBBS FRCS

3:53 PM - 3:59 PM CT

N6: Lumbosacral Ventral Dorsal Rhizotomy Outcomes at One Year After Surgery and Beyond

Dylan Mann, MD, Isle A. Graupman, Supreet L. Deshpande, MD, Salma H. Noor, MPH, Mo Chen, Robin McDonald, MPT, Patrick Graupman, MD, Peter D. Kim, MD, PhD, Debbie Song, MD, Linda E. Krach, MD

4:00 PM - 4:06 PM CT

N7: Functional Outcomes of Single-level Selective Dorsal Rhizotomy Combined with Gastrocnemius-soleus Lengthening

Eric L. Dugan, PhD, Amy E. Barbuto, DPT, Nisha Gadgil, MD, Aloysia L. Schwabe, MD, Jeffrey Shilt, W, MD

4:07 PM - 4:13 PM CT

N8: Factors associated with receipt of Selective Dorsal Rhizotomy In the United States

Jeffrey R. Leonard, MD, Yueran Zhang, Charles B. Stevenson, MD, Amy F. Bailes, PT PhD, Kyle J. Van Arendonk, M. Wade Shrader, MD, Kristie F. Bjornson, PT, MS, PhD

Free Paper Session O: Therapeutic Interventions 2

3:15 PM - 3:21 PM CT

O1: Randomised Trial of Telehealth Delivered Group Social Skills Program for Adolescents with Acquired and Congenital Brain Injuries.

Leanne Sakzewski, PhD, Bachelor Occupational Therapy, Rosemary Gilmore, Nicola Hilton, Sarah Goodman, Speech Pathology, Bianca Thompson, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

3:22 PM - 3:28 PM CT

O2: Preschool HABIT-ILE: Best Responders of Intensive Motor Training in Young Children with Bilateral Cerebral Palsy

Kate McLeod, Sarah E. Reedman, PhD, Bachelor of Physiotherapy, Andrea Nicole N. Burgess, B Occ Thy, Grad Cert Epi, PhD, Leanne Sakzewski, PhD, Bachelor Occupational Therapy

3:29 PM - 3:35 PM CT

O3: Specificity of Training Effects of a Power-Based Training Program on Rectus Femoris Muscle Architecture in Youth with Cerebral palsy – Comparison to Traditional Approaches

Noelle G. Moreau, PhD, PT, Joel Licea, PhD, Kristie F. Bjornson, PT, MS, PhD, Donald Mercante, PhD

3:36 PM - 3:42 PM CT

O4: Efficacy of HABIT-ILE in children 2-5 years with bilateral Cerebral Palsy

Andrea Nicole N. Burgess, B Occ Thy, Grad Cert Epi, PhD, Kate McLeod, PT, Sarah E. Reedman, PhD, Bachelor of Physiotherapy, Diana Patricia Hermith-Ramirez, Yannick Bleyenheuft, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Leanne Sakzewski, PhD, Bachelor Occupational Therapy

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3:46 PM - 3:52 PM CT

O5: Effects of Focus of Attention on Gait Parameters and Balance Performance in Children with Cerebral Palsy: A Preliminary Study

Rabia Zorlular, MSc, Murat Akinci, MSc, Bulent Elbasan, II, PhD

3:53 PM - 3:59 PM CT

O6: Home-Based Videogaming for Upper Limb Therapy in Cerebral Palsy: Parent and Child Experiences From Costa Rica

Daniela Chan Viquez, PT, MSc, PhD, Heilyn Fernandez Huertas, PT, Fernanda Chacon Vargas, BS, Carles Montserrat Gonzalez, Darcy Fehlings, MD MSc, Sarah Munce, Virginia Wright, BSc(PT), MSc, PhD, Elaine Biddiss, MAsc, PhD

4:00 PM - 4:06 PM CT

O7: Muscle Fatigability After an Intense Progressive Exercise Task in Children with Cerebral Palsy

Jean L. Stout, PT, MS, PhD, Tom F. Novacheck, MD, Laurent Bouyer, PhD

4:07 PM - 4:13 PM CT

O8: Effectiveness of the TIME-Baby Protocol on Motor Development of Infants at Biological Risk: A Randomized Controlled Trial

Vitoria RR Urruchia, Andrea B. Cunha, PT, PhD, Ana luiza Greco, Julia Lima, Eloisa Tudella

4:30 PM – 5:30 PM CT

Scholar Highlights and Receptions

7:00 PM – 11:59 PM CT

Networking Celebration

Join us for this exciting AACPDM signature event, where you can enjoy delicious food, dancing, and plenty of chances to catch up with fellow Academy members. Remember, tickets are required and in limited supply, so make sure to grab yours before they're gone.

*Tickets will not be sold on-site.

FRIDAY

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8:00 AM – 9:00 AM CT

Education Sessions 56–66

EDU56: Spasticity Management Across the Lifespan in Cerebral Palsy: A Longitudinal Perspective

Heakyung Kim, M.D., Hana Azizi, MD, MPH, Rajashree Srinivasan, MBBS

Learning Objectives:

1. Upon completion, participant will be able to identify Key Challenges in Aging with Cerebral Palsy
2. Upon completion, participant will be able to understand the Importance of Lifelong Spasticity Management
3. Upon completion, participant will be able to review medical and Surgical Treatment Options for Spasticity in Adults with CP
4. Upon completion, participant will be able to apply Evidence-Based Guidelines to Optimize Long-Term Outcomes

EDU57: Driving ‘CHANGE’ in Services/ Care for Individuals with Childhood-Onset Disabilities: Examples from the trenches!

Darcy Fehlings, MD MSc, Richard D. Stevenson, MD, Golda Milo-Manson, MD MHSC

Learning Objectives:

1. Describe the components of the Knowledge to Action Cycle framework to drive change in your clinical practice.
2. Learn from four shared examples of ‘clinical practice’ change stories including strategies used for addressing barriers, building momentum, and bringing about and maintaining change.
3. Have an opportunity for open discussion with others about the opportunities and challenges to making clinical change.
4. Identify common barriers and facilitators to making change in your clinical practice.

EDU58: Comprehensive Management of Knee Problems in Cerebral Palsy

Patrick F. Curran, MD, John Collins, MA, ATC, Christine Amacker, DPT, Heather Waters, DPT, Henry Chambers, MD

Learning Objectives:

1. Upon completion, participants will be able to understand the specific pathophysiological mechanisms that contribute to knee problems in individuals with cerebral palsy.
2. Upon completion, the participant will be able to differentiate between various types of knee problems, such as contractures, instability, and gait abnormalities and patterns.
3. Upon completion, the participant will acquire knowledge of evidence-based interventions and treatment modalities for managing knee problems in cerebral palsy.
4. Upon completion, the participant will be able to develop communication skills to effectively work with patients, their families, and a multidisciplinary team to create personalized and comprehensive treatment plans.

EDU59: The Urologic Care of Persons with Cerebral Palsy

Courtney S. Streur, Sean Elliott, MD, MS

Learning Objectives:

1. Upon completion, participant will be able to describe how the bladder typically functions and can function differently for persons with cerebral palsy.
2. Upon completion, participant will be able to describe when and how to treat bladder dysfunction for persons with cerebral palsy.

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3. Upon completion, participant will be able to explain the management of other urologic concerns of persons with cerebral palsy, including recurrent urinary tract infections and kidney stones.
4. Upon completion, participant will be able to describe the sexual function of persons with cerebral palsy.

EDU60: The Importance of Procedural Pain and Anxiety Management: Virtual Reality as a Novel Approach

Maykala J. Williams, MPH, Lisa Lykken, BS, Nanette Aldahondo, MD, Rosemary Ramp, MD, Chantel C. Burkitt, PhD

Learning Objectives:

1. Appreciate the importance and challenges of providing excellence in pain and anxiety management during medical procedures.
2. Understand feasibility, safety, and efficacy of Virtual Reality use during medical care and in conjunction with procedural sedation.
3. Understand how pain experience can lead to medical trauma and anxiety for patients and families.
4. Describe practical approaches for managing procedural pain and anxiety in patients with developmental disabilities.

EDU61: Advances in Dystonia Diagnosis in Cerebral Palsy

Bhooma R. Aravamuthan, MD, DPhil, Rose Gelineau-Morel, MD, Laura A. Gilbert, DO MBA, Rishabh Bajpai, PhD

Learning Objectives:

1. Define dystonia and common barriers to diagnosing it
2. Institute quality improvement initiatives are their institution to improve dystonia diagnosis
3. Compare how clinicians and caregivers may differently describe dystonia

4. Define quantifiable movement features that can be used to detect dystonia

EDU62: A Walk Through History: Lessons Learned in Clinical Decision-Making for Ambulatory Individuals with Cerebral Palsy

Jennifer Jezequel, DPT, Bridget A. Assip, DPT, David M. Scher, MD, Paulo Selber, MD

Learning Objectives:

1. Describe the natural history of gait pathology in CP and differentiate between primary deviations and compensatory or coping mechanisms.
2. Demonstrate the importance of instrumented gait analysis in clinical decision-making in individuals with CP.
3. Identify several distinct iatrogenic gait deviations observed in individuals with CP.
4. Discuss current treatment philosophies for improving the walking ability of individuals with CP.

EDU63: Collaboration with the Cerebral Palsy Research Network (CPRN) for Clinical and Community Research

Joyce P. Trost, PT, PhD, Kristie F. Bjornson, PT, MS, PhD, Judy-April Murayi, MD, MPH, CNSC, Liz R. Boyer, PhD

Learning Objectives:

1. Describe the data available to outside collaborators within the CP Research Network Registries.
2. Understand how investigators can utilize the infrastructure within the CP Community Registry for the purpose of prospective study recruitment and survey research.
3. Describe how to access data for secondary analysis using CPRN registry elements and associated PCORnet CDM data for the purposes of hypothesis generation, grant preliminary data, and secondary analyses.

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4. Conduct lived experience and community-based outcome research proposing new surveys to a community of parents of children and adults with CP using MyCP and the CPRN Community Registry infrastructure.

EDU64: Supporting Implementation of Early Hand Therapy for Young Children with Cerebral Palsy

Alicia Hilderley, PhD, Brenda Agnew, BA, Sandra Reist-Asencio, Kathleen O'Grady, Liz Cambridge, Adam Kirton, MD

Learning Objectives:

1. Discuss barriers and facilitators to implementation of early hand therapy
2. Describe how implementation strategies can be matched to barriers and facilitators
3. Select implementation strategies to support early hand therapy delivery that apply to their context.
4. Identify modifications that may be needed to tailor strategies to their context.

EDU65: Orthopedic Management of Rett Syndrome

Uri Givon, MD, Jason J. Howard, MD

Learning Objectives:

1. Discuss the pathophysiology and diagnosis of RTT,
2. Understand the orthopedic impairments of RTT, the principles of non-operative care, and indications for orthopedic surgery.
3. Understand the typical orthopedic surgical procedures that children with RTT typically undergo, including muscle lengthenings, hip reconstructions, and spinal fusion.
4. Understand the possible complications and the necessary special care for patients with RTT

EDU66: Cardiovascular Regulation Impairment in Children Following Brain Injury

Brian D. Wishart, DO, MMS, FAAP, Katherine Dimitropoulou, Ph.D., MSPOR, OTR/L, Mara M. Yale, PhD

Learning Objectives:

1. Understand the current state of the literature regarding neurologic injury and cardiovascular health and regulation
2. Explore the needs and potential impact of monitoring cardiovascular regulation in children with brain injury and how this will impact their participation in activity.
3. Identify tools for studying this and associated outcome measures to follow.
4. Understand the real world implications of increased energy expenditure in children and adolescents with CP and how this affects their participation in school, social interactions and physical activity.

9:00 AM – 9:15 AM CT

Coffee Break in the Exhibit Hall

9:15 AM – 10:15 AM CT

Podium Presentations P-T

Free Paper Session P: Community Focus

9:15 AM - 9:21 AM CT

P1: Experiences of Mental Health Difficulties Among Young People with CP: Perspectives of Young People and Parents

Manjula Manikandan, PhD, Jessica Burke, Aisling Walsh, PhD, Claire Kerr, PhD, Ruth Kevlin, PhD, Kimberley J Smith, PhD, Aoife Twohig, Ian McClelland, Meriel Norris, PhD, Jennifer M M. Ryan, PhD

Program and Events – Saturday, October 18, 2025

9:22 AM - 9:28 AM CT

P2: State Anxiety Associated with Orthopedic Surgery and Pain Interference in Children with Cerebral Palsy – A 12 Month Prospective Study

Liz R. Boyer, PhD, Jason J. Howard, MD, M. Wade Shrader, MD, Tom F. Novacheck, MD, Frank Symons, PhD, Chantel C. Burkitt, PhD

9:29 AM - 9:35 AM CT

P3: Co-creating a Patient-Oriented Research Toolkit for Child Health Researchers

Linda Nguyen, PhD, Marie-Eve Bolduc, PhD, Sevinj Asgarova, Yvonne Pelling, Jenny Gilbert, Alix Zerbo, Miriam Gonzalez, PhD, Heather Muir, Annette Majnemer, OT, PhD, FCAHS

9:36 AM - 9:42 AM CT

P4: Exploring Suicide Risk in a Clinical Sample of Children and Adults with Cerebral Palsy

Mwuese R. Ngur, BA, Benjamin Schindel, MD, MPH, Allison Gornik, PhD, Suzanne Rybczynski, MD, MSHCM, Heather RM Riordan, MD, Eric M. Chin, MD, Paul H. Lipkin, MD

9:46 AM - 9:52 AM CT

P5: Self reported Mental Health in Adults with Cerebral Palsy

Jensine Clark, MD

9:53 AM - 9:59 AM CT

P6: Medical Student Perception of Disability Healthcare Needs

Simran Prakash

10:00 AM - 10:06 AM CT

P7: The Prevalence of Mental Health Difficulties and Mental Disorders Among Children with Cerebral Palsy

Manjula Manikandan, PhD, Claire Kerr, PhD, Jennifer Fortune, PhD, Aoife Twohig, Ian McClelland, Jessica Burke, Kimberley J Smith, PhD, Michael Walsh, Ruth Kevlin, PhD, Jennifer M M. Ryan, PhD

10:07 AM - 10:13 AM CT

P8: Enhancing Healthcare Provider Knowledge of Cerebral Palsy Utilizing a Virtual Education ECHO Platform

Laurie Glader, MD, Nicole Jewett, MD

Free Paper Session Q: Early Detection

9:15 AM - 9:21 AM CT

Q1: Exploring the Implementation of anEarly Detection Tool for Cerebral Palsy: Perspectives from Healthcare Providers

Tatiana Ogourtsova, PhD OT, Darcy Fehlings, MD MSc, Martina Alkot, Mae Ru Sanford, Annette Majnemer, OT, PhD, FCAHS

9:22 AM - 9:28 AM CT

Q2: Comparison of Spontaneous Movement Measurements Using Video Observation and Inertial Measurement Units (IMUs) in Typically Developing Infants and Infants at Risk for Cerebral Palsy

Xiwen Su, MS, Evan Yarnall, BS, Marie Kelly, MPH, Hyunjoon Kim, MS, Claudio L. Ferre, PhD

SATURDAY

Program and Events – Saturday, October 18, 2025

9:29 AM - 9:35 AM CT

Q3: Prediction of Neuromotor Outcome from Quantitative Assessment of Infant Movement at 1 Month of Age

Laura A. Prosser, PT, PhD, Julie A. Skorup, DPT, Sam R. Pierce, PT, PhD, Noor Ruwaih, Melanie Segado, PhD, O. Francis Sowande, Yasmin Broomand-Khoshbacht, DPT, PCS, Sara B. DeMauro, MD MSCE, Frances Shofer, PhD, Michelle J. Johnson, PhD

9:36 AM - 9:42 AM CT

Q4: Trajectories of Fidgety Movements in Infants With and Without Medical Complexity

Colleen Peyton, DPT, David Aaby, MS, Amanda K.L. Kwong, BaPhys(Hons), PhD, Olena Chorna, PhD, Cathryn Crowle, PhD, Theresa Sukal-Moulton, PT, DPT, PhD, Catherine Morgan, PhD; BAppSc (Physio), Andrea Guzzetta, PhD MBBS, Alicia Spittle, PhD

9:46 AM - 9:52 AM CT

Q5: Early Cerebral Palsy Screening tools predict broader Neurodevelopmental Outcomes at 2 years: Insights from a State-wide Implementation Study.

Carly Luke, PhD, Laura Purcell, BA, Christine Finn, BA, Sarah Gibson, BA, Ellena Oakes, BA, Anya Gordon, BA, MaPaedsPrac, Shaneen Leishman, PhD, Robert S. Ware, PhD, Arend F. Bos, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

9:53 AM - 9:59 AM CT

Q6: Identification of Motor Delay From Quantitative Assessment of Spontaneous Infant Movement

Julie A. Skorup, DPT, Sam R. Pierce, PT, PhD, Noor Ruwaih, Melanie Segado, PhD, O. Francis Sowande, BA, Yasmin Broomand-Khoshbacht, DPT, PCS, Sara B. DeMauro, MD MSCE, Frances Shofer, PhD, Michelle J. Johnson, PhD, Laura A. Prosser, PT, PhD

10:00 AM - 10:06 AM CT

Q7: Concurrent and Convergent Validity of the Bayley-4, AIMS, and HINE Assessments in 1-Year-Old Infants

Weiyang Deng, PT, PhD, Bahda Hoang, BS, Theresa Sukal-Moulton, PT, DPT, PhD, Barbara Sargent, PhD, PT, Colleen Peyton, DPT, Elizabeth Hoffman, DPT, Nicole Pouppirt, MD, Raye-Ann deRegnier, MD, Richard L. Lieber, PhD, Arun Jayaraman, PT, PhD

10:07 AM - 10:13 AM CT

Q8: Investigations in the Use of HINE and GMA in a High-risk Population of Infants with Down Syndrome

Denise Barnes, MSN, Lynn Boswell, PT, MS, Ann Marie Crean, DPT, Megan Garhan, Alison Goetgeluck, PT, DPT, Aneta M. Jedraszko, MPH, Nicole Pouppirt, MD, Kristina Stein, MS, Raye-Ann deRegnier, MD

Free Paper Session R: Neuro and Basic Science 2

9:15 AM - 9:21 AM CT

R1: Motor Experience Drives Brain Development: A Longitudinal Study of Infant Manual Skills and Cortical Activity in Neurotypical Infants and Infants with Unilateral Cerebral Palsy

Evan Yarnall, BS, Xiwen Su, MS, Hyunjoon Kim, MS, Marie Kelly, MPH, Claudio L. Ferre, PhD

Program and Events – Saturday, October 18, 2025

9:22 AM - 9:28 AM CT

R2: Adults with Down Syndrome Exhibit Uncharacteristic Cortical Oscillations Serving Motor Control

Jiraros Meejang, BS

9:29 AM - 9:35 AM CT

R3: Both Sensory and Motor Pathways Predict Fingertip Force Modulation in Children with Unilateral CP

Jennifer Gutterman, PhD, Claudio L. Ferre, PhD, Andrew M. Gordon, PhD, Kathleen N. Friel, PhD

9:36 AM - 9:42 AM CT

R4: Forearm Muscle Structure in Hemiparetic Cerebral Palsy: Insights from Diffusion Tensor Imaging and Their Relationship to Grip Strength

Divya Joshi, PhD, Alexandra Hruby, DPT, Julius PA Dewald, PT, PhD, Carson Ingo, PhD

9:46 AM - 9:52 AM CT

R5: New Insights into Atypical White Matter Microstructure and Hand Motor Deficits in Children with Unilateral Spastic Cerebral Palsy

Alexandra R. Hruby, Divya PA Joshi, PhD, Julius PA Dewald, PT, PhD, Carson Ingo, PhD

9:53 AM - 9:59 AM CT

R6: Upper Limb Coordination but Not Dexterity Improves with Age in Children with and without Unilateral Cerebral Palsy

Cassandra J. Kemmel-Bartletti, MS, Meghann Sytsma, Karin Goodfriend, MD, MSPT, Sheila Schindler-Ivens, PhD, PT, Samuel Thomas Nemanich, PhD, MSCI

10:00 AM - 10:06 AM CT

R7: Microstructure Asymmetry of the Corticospinal Tract: Comparisons between Infants with Perinatal Brain Injury and Typical Development

Jose M. Guerrero Gonzalez, PhD, Douglas C. Dean, III, PhD, Cameron P. Casey, PhD, Veronika Mak, MSc, Ryan M. McAdams, MD, Andrew L. Alexander, PhD, Bernadette T. Gillick, PhD, MSPT, PT

10:07 AM - 10:13 AM CT

R8: Quantifying Self-initiated Balance Perturbations in Children with Cerebral Palsy

Nayo Hill, PT, DPT, PhD, Jennifer Keller, PT, MS

Free Paper Session S: Orthopedics 3

9:15 AM - 9:21 AM CT

S1: The Effect of Immediate Weightbearing After Planovalgus Foot Reconstruction in Ambulatory Children with Cerebral Palsy

Arianna Trionfo, MD, Chris Church, MPT, Jason J. Howard, MD, M. Wade Shrader, MD, Nancy Lennon, DPT, MS, PT, Rachel Lenhart, MD PhD, Christina Herrero, Jose J. Salazar-Torres, Ph.D., Madison Lennon, Hannah Scott

9:22 AM - 9:28 AM CT

S2: Risk of Hip Displacement in Patients with Leukodystrophy by Genetic Diagnosis

Maia D. Regan, BA, Keith D. Baldwin, MD, MPH, MSPT, David Spiegel, MD, Sarah H. Evans, MD, Christine M. Goodbody, MD, MBE

SATURDAY

Program and Events – Saturday, October 18, 2025

9:29 AM - 9:35 AM CT

S3: Co-Management Outcomes for Pediatric Neuromuscular Scoliosis Patients Following Posterior Spinal Fusion

Connor Burrows, BS, Alexandria L. Case, MS, Allison Long, MD, Philip D. Nowicki, MD

9:36 AM - 9:42 AM CT

S4: Effectiveness of Preoperative Halo-Gravity Traction in Spinal Muscular Atrophy Children with Early-Onset Scoliosis

Lennert Plasschaert, MD, Taylor M. Adams, BS, Ron El-Hawary, MD, MSc, FRCS, Hiroko Matsumoto, PhD, Brian D. Snyder, MD, PhD

9:46 AM - 9:52 AM CT

S5: Influence of Length of Epidural on Postoperative Recovery After Hip Reconstruction Surgery in Children with Neuromuscular Complex Chronic Conditions

Lennert Plasschaert, MD, Patricia E. Miller, MS, Colyn Watkins, MD, Travis Matheney, MD, Brian D. Snyder, MD, PhD, Benjamin J. Shore, MD, MPH, FRCSC

9:53 AM - 9:59 AM CT

S6: Two Distinct Patterns of Spinal Deformity in Non-Ambulatory Spinal Muscular Atrophy Patients with Early Onset Scoliosis

Lennert Plasschaert, MD; Taylor M. Adams, BS; Ron El-Hawary, MD, MSc, FRCS; David Liu, MD; Hiroko Matsumoto, PhD; Brian Snyder, MD, PhD

10:00 AM - 10:06 AM CT

S7: Inpatient Rehabilitation After Multi-Level Surgery in Youth with Cerebral Palsy: Acute and 1-Year Mobility Outcomes

Stephanie Butler, DPT, Brittany A. Virgil, PT, DPT, Arianna Trionfo, MD, Jose J. Salazar-Torres, Ph.D., Chris Church, MPT, Nancy Lennon, DPT, MS, PT

10:07 AM - 10:13 AM CT

S8: Femoral Neck Anteversion of the So-called Uninvolved Side in Unilateral Cerebral Palsy

Zhenkun Gu, MD, Paulo Selber, MD

Free Paper Session T: Therapeutic Interventions and Outcome Measures

9:15 AM - 9:21 AM CT

T1: A Global Core Outcome Set for Orthopaedic Interventions in Children with Spinal Dysraphism: Aiming to Enhance Research Quality and Patient Outcomes

Anna L I Bridgens, Jason Mavrotas, Deepika Pinto, MBBS, MS Orthopaedics, MRCS (Eng), Donato Leo, Alpesh Kothari, Alaric Aroojis, MS, D'Ortho, DNB, James wright, Yael Gelfer, BSC MD PHD FRCS

9:22 AM - 9:28 AM CT

T2: Multi-Stakeholder Engagement to Identify Early Intervention Research Priorities

Angela Shierk, PhD, Nancy J. Clegg, BS, MSN, PhD, Daralyn K. Fulton, MS, Mauricio R. Delgado, MD, Vanessa Hunt, Janet Bettger, PhD, Sydney Chapa, BS, Heather Roberts, PhD

SATURDAY

Program and Events – Saturday, October 18, 2025

9:29 AM - 9:35 AM CT

T3: Development of a Composite Outcome Measure for Children with Hemiplegic Cerebral Palsy

Mark R. Conaway, Ph.D., Richard D. Stevenson, MD, Stephanie C. DeLuca, PhD, Amy Darragh, PhD

9:36 AM - 9:42 AM CT

T4: Is the 3-Min Walk Test a Valid Alternative to the 6-Min Walk Test in Typically Developing School Children?

Hsiu-Ching Chiu, PhD, Louise Ada, PhD, Theofani A. Bania, BSc, MSc, PhD

9:46 AM - 9:52 AM CT

T5: The Spinal Muscular Atrophy Functional Classification System (SMAFCS) is Predictive of Hip Displacement, Scoliosis, and Pulmonary Function in a Treated Cohort

Sadettin Ciftci, MD, M. Wade Shrader, MD, Kerr Graham, MD, MD, Jason J. Howard, MD

9:53 AM - 9:59 AM CT

T6: Cracking the Code of Early Intervention: Exploring the Impact of Fidelity Analysis on Delivery of Physical Therapy Services

Andrea B. Cunha, PT, PhD, Sandra Willett, PT, PhD, Lin-Ya Hsu, PT, PhD, Elena Donoso-Brown, OT, PhD, Regina T. Harbourne, PT, PhD, Stacey C. Dusing, PhD, PT, FAPTA

10:00 AM - 10:06 AM CT

T7: Responsiveness, Reliability and Minimal Important Change of the Pediatric Evaluation of Disability Inventory–Computer Adaptive Test – Daily Activities (PEDI-CAT_DA) Domain.

Andrea Nicole N. Burgess, B Occ Thy, Grad Cert Epi, PhD, Sarah E. Reedman, PhD, Bachelor of Physiotherapy, Esther Norfolk, Ashleigh Hines, PhD, Diana Hermith-Ramirez, Mark D. Chatfield, BA, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Leanne Sakzewski, PhD, Bachelor Occupational Therapy

10:07 AM - 10:13 AM CT

T8: Implementation of a Knowledge Translation Strategy to Promote Early Evidence-based Rehabilitation for Children with Cerebral Palsy: Mixed-methods Study

Tatiana Ogourtsova, PhD OT, Jessica Hanson, BSc, MSc, Annette Majnemer, OT, PhD, FCAHS, Keiko Shikako, PhD, Noemi Dahan-Oliel, PhD, Filomena Pietrangelo, BS, Leigh Dickson, BS, MSc, MEd, Emma Steven, MS, Georgina Iliopoulos, OT

10:30 AM – 11:30 AM CT

Education Sessions 67-77

EDU67: Prioritizing Treatment: Chronic Pain, Mood Disorder and ADHD in Patient's with Cerebral Palsy

Minnelly Vasquez, LCSW, Agnes Whitaker, MD, Hana Azizi, MD, MPH, Elisabeth Bates, MSN, Dina Baum, Margaret Lusch, MS, Eduardo del Rosario, Jr., PhD, FNP-BC

SATURDAY

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Learning Objectives:

1. Upon completion, participant will be able to describe the impact of chronic physical pain, ADHD, and mood disorders on individuals with cerebral palsy; explain how these conditions affect overall well-being.
2. Upon completion, participant will be able to list the key components of a multidisciplinary treatment approach for complex cerebral palsy cases.
3. Upon completion, participant will be able to demonstrate an understanding of patient-centered care by analyzing patient feedback on symptoms, and narrowing down treatment options to improve quality of life.
4. Upon completion, participant will be able to explain best practices for engaging patients and families in care planning.

EDU68: Bridging the Gap: Exploring Motor-Communication Links and Clinical Implications through a Developmental Cascades Framework

Ellen N. Sutter, PT, DPT, PhD, Helen L. Long, PhD, CCC-SLP, Jana M. Iverson, PhD

Learning Objectives:

1. Understand the developmental cascades framework.
2. Describe the state of the science on the link between communication and motor development in typical development and in children with motor delays and impairments.
3. Discuss how mobility and motor rehabilitation strategies may positively impact communication development.
4. Identify future directions for researchers and therapists to promote positive communication outcomes for children with motor impairments.

EDU69: Difficult Diagnoses in Early Detection and Intervention Programs

Supreet L. Deshpande, MD, Mark Gormley, Jr., MD, Nathalie L. Maitre, MD, PhD

Learning Objectives:

1. to identify the risk factors and apply the international guidelines to diagnose CP early.
2. apply the care pathway guidelines to patients at high risk for CP.
3. be better equipped to assess infants with history and assessment data that do not follow the guidelines set forth
4. counsel families regarding the ambiguity of some diagnoses

EDU70: Implementation of Best Practices for Early Diagnosis of Cerebral Palsy in Very Preterm Infants: A Canadian Perspective

Thuy Mai Luu, MDCM MSc, Rudaina Banihani, MD, MMed, Karen E. Thomas, MD, FRCPC, Fabiana Bacchini, MA

Learning Objectives:

1. Describe implementation strategies to facilitate uptake of best practices for cerebral palsy diagnosis in very preterm infants by clinicians.
2. Explain the use of the Hammersmith Infant Neurological Examination (HINE) and how it can be effectively integrated with other tools, such as the General Movements Assessment (GMA).
3. Develop strategies for communicating a diagnosis of CP/high probability of CP to families using strengths-based approaches aligned with the F-Words of function and the ICF framework.
4. Describe how collaborative efforts, including family engagement, improve the alignment of clinical and family-centered care.

Program and Events – Saturday, October 18, 2025

EDU71: Building Resilience in Children with Cerebral Palsy (CP) and Other Motor Disorders (OMD) Through Adaptive Sports Programs – an “Intensive” Therapy

*Jennifer E. Miros, MPT, Julie M. Grassi, BS
Physical Therapy, M.Ed*

Learning Objectives:

1. Understand how Adaptive Sports programs are an adjunct to the episodic care model for therapy.
2. Demonstrate an understanding of an adaptive sports camp as an intensive day treatment.
3. Discuss the role of specialized programs in supporting people with CP including activities designed to enhance physical, social, and emotional well-being.
4. Describe the planning process for starting an adaptive sports camp/program in your community and how to get the appropriate stakeholders involved.

EDU72: Using Wearable Sensors to Characterize Early Neuromotor Development

Richard L. Lieber, PhD, John A. Rogers, PhD, Arun Jayaraman, PT, PhD, Megan K. O'Brien, PhD

Learning Objectives:

1. Describe at least three key biometrics that wireless biometric sensors can record in neonates and infants.
2. Identify the latest advances in wearable sensor technology and their unique applications for early screening and longitudinal tracking of development.
3. Discuss the challenges and potential solutions for collecting high-quality biometric data from infants and neonates in different environments, including clinical, research, and home settings.

4. Evaluate the feasibility and usefulness of wearable sensor technology for a participant's own clinical or research application.

EDU73: The National Institute of Neurological Disorders and Stroke (NINDS) Cerebral Palsy Common Data Elements (CDE): Spotlight on Upper Extremity Orthopedic and Neurosurgical CDEs

Angela Shierk, PhD, Joline E. Brandenburg, MD, M. Wade Shrader, MD, Joyce P. Trost, PT, PhD

Learning Objectives:

1. Describe the history and purpose of the CP CDEs.
2. Explain the process for developing and adding CP CDEs.
3. Demonstrate how to navigate the NINDS CDE website.
4. Present the Upper Extremity Orthopedic Surgery and Neurosurgery CP CDEs and discuss the application of CP CDEs in research and clinical practice.

EDU75: The Why's and How's of Contractures and Deformities in Children and Adults with Cerebral Palsy – Implementation of a Multiprofessional Surveillance

Ferdinand von Walden, MD, PhD, Erika Cloodt, PhD, Evgenia Manousaki, MD, PhD; Eva Pontén MD, Associate Professor

Learning Objectives:

1. Upon completion, participant will be able to define the molecular mechanisms of skeletal muscle growth and contracture development.
2. describe the sequence and location of contracture development in the upper and lower extremities.
3. identify individuals with cerebral palsy at high risk for deformities of the hips and spine

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- 4. recognize how a multiprofessional surveillance enables detection, prevention and treatment of contractures and deformities.

EDU76: Transforming Rehabilitation: A Collaborative Approach to Empowering Children with Disabilities.

*Meaghan Rubsam, PT, DPT, PCS,
Juliana Libertin, DPT, Jordan Dann, MA,
Kelsey LeFevour*

Learning Objectives:

- 1. Compare the medical model of disability with the socioecological model to highlight the importance of addressing societal and environmental barriers alongside physical impairments in rehabilitation practices.
- 2. Identify barriers, facilitators, and actionable strategies for implementing holistic rehabilitation programs in clinical and community settings through audience engagement and real-world examples.
- 3. Emphasize the value of centering lived experiences in rehabilitation design through Kelsey’s story, showcasing the transformative impact of inclusion and community collaboration.
- 4. Explain the role of community partnerships and inclusive design in supporting long-term participation for children with disabilities.

Learning Objectives:

- 1. Identify essential components of a sustainable clinical support model for virtual reality integration, including physical infrastructure and operational support.
- 2. Describe practical strategies for overcoming key structural and educational barriers to virtual reality implementation in pediatric rehabilitation, including issues of access, technical support, and knowledge.
- 3. Apply a systematic approach to selecting appropriate virtual reality games and activities based on client needs, therapeutic goals, and available technology options.
- 4. Compare different models of virtual reality implementation support and evaluate their potential application to participants’ own clinical settings.

11:45 AM – 1:15 PM CT

Closing General Session

2:00 PM – 6:00 PM CT

Board of Directors Meeting

EDU77: From Theory to Practice: International Experiences Building a Sustainable Virtual Reality Implementation Model in 3 Pediatric Rehabilitation Centres

Audrey Ferron, MSc; Jérôme Hervo, PT, PhD (c); Maire Hernault, PT; Daniela Chan Viquez, PhD; Lexie Lançon, OT, MSc

SATURDAY

Posters

CLINICAL OBSERVATION OR SINGLE CASE STUDY POSTERS

CO01: A Case Series of Two Patients with a History of Severe Autism Spectrum Disorder (ASD) and Severe Behavior Issues Who Sustained Spinal Cord Injuries (SCI) Due to Their Self Injurious Behaviors
Stacey Hall DO, Mara Martinez MD, MS

CO02: A Case Series of Two Patients with a History of Severe Autism Spectrum Disorder (ASD) and Severe Behavior Issues Who Sustained Spinal Cord Injuries (SCI) Due to Their Self Injurious Behaviors
Mara Martinez MD, MS, Stacey Hall DO

CO04: My Research, Myself: The Ethics of Positionality in Cerebral Palsy Research
Kevin Mintz PhD

CO05: Enhancing Mobility in Infants with Down Syndrome: A Case Study on the Use of the PUMA Harness for Locomotion and Upright Time
Ashley Collimore PhD, Ellen Sutter PT, DPT, PhD, Erin Wilkerson PT, DPT, Nicole Baumer MD, MEd, Jana Iverson PhD

CO06: Congenital Clasped Thumbs in a Premature Infant - What Does the Future Hold?
Paul Abboud MD, Phyllis Aries, Shaina Halegoua, Amelie Bottex-Newton, Meenakshi Singh, Muhammad Zia, VERA TSETLINA MD

CO07: Do Siblings with Charcot-Marie-Tooth 1A Show Similar Progression of Gait Decline? A Case Study
Sylvia Ounpuu, Tishya Wren PhD, Jennifer Rodriguez-MacClintic PT, Gyula Acsadi MD, PhD, Kristan Pierz MD

CO08: Cerebral Palsy Mimics: Two Cases of Genetic Brain Calcifications
Sabrina Dieffenbach MD, Katherine Bentley MD

CO09: Reflecting on Lifespan Care of a 47-Year-Old Man with Cerebral Palsy: Insights for Improving Care Models
Kelli Croll MS, Victoria Polega BS, Cameron Shew

CO10: Intensive Group Therapy Effectively Led to Improvements in Self-Confidence in Community and Physical Fitness in a Teenager with Cerebral Palsy: A Case Report
D'Andre Walker DPT, Abigail Jones DPT, Meaghan Rubsam DPT

CO11: Late Onset Presentation of Progressive Encephalopathy (PEBEL-1) in a Patient with Homozygous NAXE2: A Case Report
Yelim Chung MD, Samantha DiSalvo MD, Elisabeth Bates MSN, Jennifer Bain MD, PhD, Hana Azizi MD, MPH

CO12: Syringomyelia as a Rare Potential Feature of Klippel Feil Syndrome: A Case Report
Yelim Chung MD, Dara Jones MD

CO13: Delayed Identification of Type IV Sacrococcygeal Teratomas in Patients with Medical Complexity: A Case Series
Mason Rostollan MD, MS, Patricia Petroff MD, Monica Blazek MD

CO14: Hip Guided Growth in Leukodystrophy: A Case Series
Maia Regan BA, Keith Baldwin MD, MPH, MSPT, David Spiegel MD, Christine Goodbody MD, MBE

CO15: Spinal Cord Injury Led to Significant Lower Extremity Deformities in an Ambulating Child
Edwin Portalatin MD

Posters

CO16: Pontocerebellar Hypoplasia type 8 in an 18mo Puerto Rican Female

Ana Ortiz-Santiago, MD, Gabriel Lopez-Medrano B.S., Ruth Seleznick, Luis Rivera-Amador

CO17: Delayed Diagnosis of Tethered Cord in a Patient with History of Lumbar Myelomeningocele and Low Back Pain

Elisabeth Bates MSN, Yelim Chung MD, Sandy Huang MD, Hana Azizi MD, MPH

CO18: Functional Impact of Reconstructive Hip Surgery in a Child with Cerebral Palsy, GMFCS IV

Ronni Rowe OTR, ATP, Abbye Gieringer OTR/L, Lucy Ericson, OTR, CHT, MPH OTR/L, Treva Smith, OTR, Robert Wimberly MD

CO19: An Atypical Case of a Low Trauma Left Medial Collateral Ligament Avulsion Fracture Following Casting for Ankle Foot Orthosis in a Patient with Niemann-Pick Type C

Sandy Huang MD, Yelim Chung MD, Elisabeth Bates MSN, Hana Azizi MD, MPH

CO20: Incontinencia Pigmenti and Associated Neurological Complications in a 4 year old Puerto Rican female

Ana Ortiz-Santiago, MD, Gabriel López-Medrano B.S., Ruth Seleznick, Luis Rivera-Amador

CO21: Introducing an Artificial Intelligence (AI)-based Markerless Motion Capture and Interpretation System: A Case Study of an 8-year-old Girl with Cerebral Palsy

Hedva Chiu MD, FRCPC, Michelle Larin MSc, Mahir Hossain BSc Biomedical Mechanical Engineering and BSc Computing Technology, Albert Tu FRCS(C), Kevin Cheung MD, Edward Lemaire PhD, Natalie Baddour PhD, Anna McCormick MD, Akshay Seth MD, Hana Alazem MSc PT, MD

CO22: A Clinical Case Comparison of Prehabilitation versus Standard of Care Before Multi-Level Surgery (MLS) in Two Patients with Spastic Diplegic Cerebral Palsy

Brittany Virgil PT, DPT, Jessica Dunn, Danielle Stapleton DPT, Laura Owens MD, M. Wade Shrader MD, Nancy Lennon DPT, MS, PT

CO23: A Case Study to Demonstrate the Application of Systems Science to Cerebral Palsy

Margaret Mayston AM PhD, MSc, BAppSc, Sarah Foley MSc, BAppSc, Kelly Reynolds BAppSc, MA

CO24: Recurrent Seroma After Intrathecal Baclofen Pump Replacement Due to Underlying Break in the Catheter Seal

Samantha DiSalvo MD, Yelim Chung MD, Hana Azizi MD, MPH

CO25: Risks of Polypharmacy with Anti-Spasticity Medications in an Infant with Quadriplegic Cerebral Palsy

Elisabeth Bates MSN, Yelim Chung MD, Sandy Huang MD, Hana Azizi MD, MPH

CO26: A Case of Recurrent Thrombosis in the Setting of Botulinum Toxin Injection

Emily Qian MS, David Frumberg MD, Jennifer Hankenson MD

Posters

DEMONSTRATION POSTERS

DP01: Reducing Over-Medication in Adults with Developmental Disabilities: Training Direct Care Staff Using a Modified Version of the SPECTROM Program

Michelle Marek MBA, MA, LPCC, Clark Hardgrave MScPAS, Tanisha Medha, Isabela Roddy, Shoumitro Deb PhD, Bharati Limbu, Amber Seik MSN, Heather Clark-Kuhn PhD, John Phillips MD, Toni Benton MD

DP02: It's not that Difficult. Implementing Developmental Evaluations in Multidisciplinary Clinic

Brooke Kimbrell MD, MSE

DP03: Building Legacies to Foster Patient and Family Centered Care in an Outpatient Cerebral Palsy Clinic

Leslie Rhodes DNP, MBA, PPCNP-BC, Karen Romer BSN, Kayla Black

DP04: Enhancing The Family And Therapist Experience Through The Creation Of Pediatric Home Program Videos Integrated With Electronic Medical Record

Frances Baratta-Ziska BS, DPT, MS, Magdalena Oledzka DPT, PhD, Corinne Slevin DPT, MS

DP05: Feasibility and Effect of Frugal Innovation for the Development of Walking Assistive Devices Used in Early Childhood

Wayne Ribeiro Ferreira MS, Lidiane Ferreira PhD, Eduardo Romeiro PhD

DP06: Cooking Together: Bimanual Therapy for Youth with Cerebral Palsy

Liz Cambridge, Temine Fedchak

DP07: Supporting Family Resilience with Digital Introductions

Mary Hawkes DNP

DP08: Biophilic Health: Translating Nature's Health Benefits and Strategies for Resilience into Child Health

Nancy Rushford M.A, MSc, OT (Reg.), PhD, Paul Stacey MSc (OT), MBBS, FRCPC

DP09: Spina Bifida Global Learning Collaborative: The Development of a Network to Educate the Next Generation of Clinicians, Researchers, and Advocates

Semhal Teku, Melinda rocchi, Mary Locastro BS, MPH, Ann Alriksson-Schmidt PhD, Nienke Dosa MD, MPH, Jessica Stockman MSc, Jonathan Castillo MD, Yakob Ahmed, Mahder Deju

DP10: Collaboration with School-based Professionals to Improve Care for Medically Complex Refugee Children

Emily Smith MS, Emily Smith MS, Johnadette Adams, Christine Pelis PT, DPT, PCS, Estee Wu BS, Andrea Shaw MD, Nienke Dosa MD, MPH

DP11: Example of Multidisciplinary Clinic Model to Evaluate and Treat Children with Complex Tone

Kristin Buxton MSN, Rachel Tombeno, Anna Musman, Benjamin Shore MD, MPH, FRCSC

DP12: Outlining the Role of a Credentialed and Privileged Pharmacist in the Care of People with Medical Complexities

Kayla Petkus PharmD, BCACP, Laurie Glader MD

DP13: Cerebral Palsy Foundation Early Career Mentorship Program - A Map to Health Care Futures.

Justin Ramsey MD, Christopher Najarian MD, MPH, Cynthia Wozow DO, Ashley Harris Whaley M.S., CCC-SLP, Jacqueline Searson, Deborah Gaebler-Spira MD, FAAP

DP14: Kids Building for Kids: Building Community One School at a Time

Jennifer Tucker, Julie Feuerstein PhD, CCC-SLP

Posters

DP15: Creating Inclusive Library Storytimes for Children with Complex Communication and Motor Needs

Jennifer Tucker, Julie Feuerstein PhD, CCC-SLP

DP16: Exploring the Relationship Between Screen Time, Playfulness, Physical Activity, and Child Development in 2-5 Year Olds: A Study Protocol

Michaela Sizemore, Sonia Khurana PhD

DP17: Quicker and Quieter: Developing Robust, Reliable, and Accurate Brain Imaging for Infants

Veronika Mak MSc, Maren Schimek BS, Jose Guerrero Gonzalez PhD, Bernadette Gillick PhD, MSPT, PT, Andrew Alexander PhD, Steven Kecskemeti PhD

DP18: Access GMA: Implementation of GMA Across Large Hospital System for Access to Early Detection for All Infants

Elyse Hahn OTR/L, Jeanette Hill MS, Lynn Boswell PT, MS, Alison Goetzeluck, Kristina Stein, Raye-Ann deRegnier MD, Nicole Pouppirt MD, Ann Marie Crean DPT

DP19: Exploring Broadens the Mind: Examining Infant Object Exploration During Early Intervention Physical Therapy Sessions

Michele Goncalves Maia, Regina Harbourne PT, PhD, Sarah Berger PhD, Andrea Cunha PT, PhD

DP20: Hybrid Infant and Toddler Pediatric Constraint Induced Movement Therapy Camp: Parent Collaboration and Early Intervention

Jennifer de la Rosa MOT, OTR/L, BCP, Sophia Patroulis Lessig, Erin Schwenke

DP21: Implementation Trends in Arizona of Early Detection of Cerebral Palsy

Valerie Pieraccini MS OTR, Maria Baldino, Meghan Gorman BS

DP22: Application of an implementation science lens to a Gait Surveillance pilot for patients with cerebral palsy

Katie Walt PT, DPT, Michael Peterson MA, CCC-SLP, Krystina Hopkins MPH, Tom Novacheck MD

DP23: Motor Phenotyping in Mouse Models of Cerebral Palsy

Annika Agrawal, Bhooma Aravamuthan MD, DPhil

DP24: Using Holographic Technology to Improve Healthcare for Adults with Disabilities

Carolyn Buchanan MA, CCC-SLP, Julie Feuerstein PhD, CCC-SLP, Tracy Rackensperger PhD

DP25: Building Better Protocols: Effective Strategies to Enhance Non-Sedated Infant Magnetic Resonance Imaging Success

Maren Schimek BS, Kellie Collins PT, DPT, PCS, Veronika Mak MSc, Cameron Casey PhD, Katherine Konieczka BS, Carly Allen BA, Steven Kecskemeti PhD, Douglas Dean PhD, Andrew Alexander PhD, Bernadette Gillick PhD, MSPT, PT

DP26: Resilience in Action: Elevating Family and Patient Voices in Cerebral Palsy (CP) Research

Haley Brunelle, Rhonda Cady PhD, RN

DP27: Co-Developing a Youth Engagement in Research Training Program for Youth with Neurodevelopmental Disabilities and Chronic Health Conditions

Sam Micsinszki PhD, Linda Nguyen PhD, Amanda St. Dennis BA, Andrea Cross PhD

Posters

DP28: What Do They Think Now? Reflections on Assenting as a Child for Non-Invasive Brain Stimulation Studies
Veronika Mak MSc, Bernadette Gillick PhD, MSPT, PT, Katherine Konieczka BS

DP29: Post-Operative Functional Decline in Children with Severe Neurological Impairment: A Pilot Study
Elaha Niazi BHSc, Anne-Mette Hermansen, Stacey Miller BSc(PT), MRSc, Daphne O'Young OTR/L, Sophie Stukas, Kishore Mulpuri, Liisa Holsti BSR, PhD, Harold Siden

DP30: Increased Oral Baclofen Dose as a Potential Preoperative Adjunct for Children with Cerebral Palsy: Review
Michael Li BSc, Ram Mishaal MD, Naama Rozen MSc. Pharm

DP31: Tibialis Anterior Tendon Transfer in the Arthrogrypotic Clubfoot—Proof of Concept of an Internal Brace
Lauren Hyer, Emily Shull PhD, David Westberry MD

DP32: Tarsal Decancellation for the Resistant Arthrogrypotic Clubfoot—A Reasonable Reconstructive Option
Lauren Hyer, Emily Shull PhD, David Westberry MD

DP33: Advancing the Concept of Single Event Multi-Level Surgery and Computerized Motion Analysis in the Pediatric Arthrogryposis Population
Lauren Hyer, Emily Shull PhD, David Westberry MD

DP35: Fun, Food and Friendship: Building a More Vibrant Community with the Biggest Community Event Dedicated to Cerebral Palsy
Jacqueline Chen BS, Jennifer Pimentel BA, Belkis Tavaréz Gonzalez, Minnelly Vasquez LCSW, Eduardo del Rosario PhD, FNP-BC, Jamie Montgomery, Lisa Yoon DPT, Katherine Dimitropoulou Ph.D., MSPOR, OTR/L, Jason Carmel MD, PhD

DP36: Exploration into Balance Confidence in Pediatric Cerebral Palsy
Emily Shalit OTD, Heather Forst MA, Corey McGee PhD, Liz Boyer PhD

DP37: Resilience of Hospitalized Children using Bond Based Trained Facility Dogs
Bernadette Gillick PhD, MSPT, PT, Paige DeGraves, Jenna Robertson MS, CCLS, Brianna Peterson

DP38: Closing Gaps in Pediatric Care: Improving Cost Efficiency and Reducing Inpatient Strain with the Specialized Pediatric Rehabilitation Outpatient (SPROUT) Program

Maya Shimshi-Barash MD, Grace Li MD, FRCPC, Yue Yuan MPH, Ram Mishaal MD

DP39: Investigating the Integration of Speech Therapy into Intensive Small Groups for Children and Youth with Cerebral Palsy
Dana Catalano M.A., CCC-SLP, Tara Horvat M.A., CCC-SLP, Alexandra Edwards M.S., CCC-SLP, Elaine Hitchcock Ph.D. CCC-SLP, Don Matthews MS

Posters

DP40: Optimization Strategies for Tractseg White Matter Segmentation in Perinatal Brain Injury

Kellie Collins PT, DPT, PCS, Jose Guerrero Gonzalez PhD, Cameron Casey PhD, Ellen Sutter PT, DPT, PhD, Arun Karumattu Manattu PhD, Douglas Dean PhD, Bernadette Gillick PhD, MSPT, PT

DP41: A Novel Computer Vision and Artificial Intelligence (AI)-Based Hand Function Rehabilitation Program in Children with Cerebral Palsy

Jeong-eun Jeklin Kim, Eun Jae Ko MD, PhD., Jong Yoon Chang, Da Yeong Kim, Joon Hee Lee, Seungwoo Cha, Su Min Kim, Sunyoung Joo

DP42: Measuring Bimanual Skill Learning Using Markerless Motion Capture Software in Children with Unilateral Cerebral Palsy

Nicole Metelski M.S., ORT/L, Shivakeshavan Ratnadurai-Giridharan PhD, Kathleen Friel PhD, Andrew Gordon PhD

SCIENTIFIC POSTERS

SP01: The Relationship Between Executive Functions and Physical Function in Patients with Muscular Dystrophy: A Systematic Review

Dilan Savas Kalender, Merve Kurt Aydin PhD, Tulay Tarsuslu PhD

SP02: Transforming Cerebral Palsy Care: The Power of Genetic Testing

Ashley Swift

SP03: Camel vs. Cow Milk Effect on Autism Spectrum Disorder (ASD); A Systematic Review and Meta-Analysis

Ismail Ibrahim, Ahmed Hosney Nada, Nada Khalid Asar, Rand Ibrahim, Rawan Ahmed Farouk, Sarah A. Nada

SP04: From Stigma to Solutions: Rethinking Autism Screening Across Diverse Communities, A Scoping Review

Buddhima Mannapperuma MBBS, MD, DCH, Hashan Pathiraja MBBS, MD, Dilini Vipulaguna MBBS, MD, DCH

SP05: Comparative Effectiveness of Early Interventions on Motor Function in Infants at High Risk for Cerebral Palsy: A Systematic Review and Network Meta-analysis

Xiwen Su MS, Hyunjoon Kim MS, Claudio Ferre PhD

SP06: Developing a Standardized Framework for Cerebral Palsy Registries Network in Arabic-Speaking Countries: A Scoping Review

Nihad Almasri, Carl Dunst Ph.D

SP07: Ambulatory Patterns and Considerations for Children with Autism

Heather Willets MPO

SP08: Parent and Caregiver Perspectives of their Child's Transition from Pediatric to Adult Care: A Meta-Ethnography

Anushka Patel, Hannah Rose Rosales, Linda Nguyen PhD, Karen Beattie, Michelle Batthish MD, MSc, FRCPC

SP09: Accelerated and Premature Aging in Adults with Cerebral palsy: A Scoping Review

Devon Howell MSc, Amber Briar BS, Laura Brunton PT, PhD, Caitlin Cassidy MD

SP10: The Overlooked Puzzle: Autism in Individuals with Sensory Impairment – A Systematic Review of the OASID tool (Observation of Autism in People with Sensory and Intellectual Disabilities)

Alia Satti MBBS, FRCPCH, CCT, Khuloud Arab, Ibtihal Abdelgadir MBBS, MD, FRCPCH, CCT, MSc

Posters

SP11: Impact of the COVID-19 Pandemic on Surgical Management of Equinus Ankle Contracture in Pediatric Patients with Cerebral Palsy

Nadim Kheir, Olivia Schaffer, Micaela Tomaro, Mara Karamitopoulos MD

SP12: SPARCS Database Analysis of Hip Reconstruction Incidence in Pediatric Cerebral Palsy Post-2014 AACPDM Guidelines

Olivia Schaffer, Barlas Goker, Micaela Tomaro, Utkarsh Anil, Mara Karamitopoulos MD

SP13: Outcomes of Percutaneous Muscle Lengthening in Children with Cerebral Palsy: A Systematic Review

Ana Paula Tedesco, Renata Panisson PhD

SP14: The Role of the Popliteal Angle Test in Cerebral Palsy and Flexed Knee Gait: A Systematic Review

Giulia Beltrame MD, Pari Palandjian, Viveka Jain, Paulo Selber MD

SP15: Quality of Instruments for Assessing Motor Aspects of Children and Adolescents with Autism Spectrum Disorder: A Systematic Review

Arthur de Lima BS, Amanda Soares BS, Ricardo Júnior MSc, Amanda Fernandes MSc, Hércules Leite PhD

SP16: Conventional Physiotherapy and Technology-Driven Re/habilitation Interventions for Head and Trunk Control in Children with Developmental Disabilities: A Scoping Review

Shristi Shakya MPT, Shradha S. Parsekar PhD, Rikesh Shrestha DPT, Shamanth Madapura S. MTech, Sonia Khurana PhD, Shubha R. Nayak BPT, Dana Anaby PhD, V. S. Venkatesan PhD, Sivakumar Gopalakrishnan PhD, Bhamini Krishna Rao PhD

SP17: The Efficacy of Robotic-Assisted Therapy in Improving the Upper Extremity Motor Function of Children with Cerebral Palsy: A Systematic Review and Meta-Analysis

Qing Du PhD, Binbin Fu

SP18: A Scoping Review of Robotic Assessments of Reaching in Children with Cerebral Palsy

Simin Rahman MS, Owais Khan PT, Christopher Modlesky PhD

SP19: The Effect of Upper Limb Rehabilitation Therapies on Mirror Movements in Children with Cerebral Palsy: A Systematic Review and Meta Analysis

Javeria Shahid DPT, MS-Neuromuscular Physical Therapy (NMPT), Madison Bollinger BS, Virginia Chu PhD, OTR/L

SP20: Mapping the Evidence: A Scoping Review of Goal-Directed Training for Children with Cerebral Palsy

Angela Shierk PhD, Bridget Barry Thias, Katherine Lampe, Benjamin Chaiprasert, Haley Becker BS, Baylee Allen BS, Heather Roberts PhD

SP21: Generalisability of Motor Skill Interventions for Young Children with Cerebral Palsy and Vision Impairment: A Qualitative Exploration of the Evidence and Research Investigator Perspectives

Belinda Deramore Denver, Amber O'Grady, Jennifer Lyman MS, Bridget O'Connor

SP22: Virtual Reality-Based Fine Motor Skills Training in Paediatric Rehabilitation: A Scoping Review

Jéromine Hervo PT, Rodolphe Bailly PhD, Sylvain Brochard MD, PhD, Danielle E. Levac PT, PhD, Christelle Pons MD, PhD

Posters

SP23: Hummingbird-HOPE Pilot Study: Measuring Hope in the Context of Progressive Illness

Areesheh Khan, Anna Jesus MD, Rebecca Scharf MD, MPH, Sarah Jones MD, Margaret Plews-Ogan MD MS, Erin Plews-Ogan MD

SP24: Numbness is Associated with Pain Severity in Adults with Cerebral Palsy: Hints of a Neuropathic Mechanism

Paul Salib BS, Eric Chin MD, Claudia Campbell PhD, Xiaobu Ye MD, Shenandoah Robinson MD

SP25: Children with Cerebral Palsy Exhibit Reduced Skeletal Muscle Respiratory Capacity

Sebastian Edman PhD, Linnéa Corell MD, Johanna Lanner PhD, Eva Pontén PhD, Ferdinand von Walden MD, PhD

SP26: Clinical and Sociodemographic Profile of People with Autism in Brazil: initial data of Multicenter Study IdentificaTEA

Arthur de Lima BS, Gabriela Oliveira BS, Amanda Nascimento MSc, Thalita Karla Cruz PhD, Deisiane Oliveira Souto Deise PhD

SP27: A Single Cell RNA-Seq Study of Skeletal Muscle Gene Expression in Spastic Cerebral Palsy

Karyn Robinson M.S., Qi Zheng, Adam Marsh, Stephanie lee MS, Jonathan Hicks B.S., M. Wade Shrader MD, Robert Akins PhD

SP28: Biomechanical Signatures of Hand Dominance: Comparing Healthy Individuals and Children with Cerebral Palsy

Alice Chu, Stephen Macneille BA, Jean Francois Daneault PhD

SP29: Botulinum Neurotoxin as a Tool for Studying Muscle Atrophy and Contralateral Compensation

Travis Wentz PhD, Brieana Gregg MS, Adhirath Bollapragada MS, Patrick McNutt PhD

SP30: Exploring Mental Health Risks Among Parents of Children with Spina Bifida: Insights from a Population-Based Study

Melinda Rocchi, Ann Alriksson-Schmidt PhD, Johan Jarl PhD

SP31: Physical Self-Esteem and Daily Activity in Children with Cerebral Palsy

Julia Starck, Susanna øen, Mikael Reimeringer, Helene Alexanderson, Ferdinand von Walden MD, PhD, Emma Hjalmarsson PhD

SP32: Pre-Operative EOSQ-24 Scores are Consistent Over Time in Children with Neuromuscular Scoliosis

Rayyan Abid, Michael Glotzbecker MD, Christina Hardesty MD, Pediatric Spine Study Group

SP33: Developing and Implementing Integrated Behavioral Health Services within a Multidisciplinary Pediatric Cerebral Palsy Clinic

Noelle Whitney PhD, lauren Desmarais DO, Wendy Pierce MD, Lauren Eckhart

SP34: Comprehensive Assessment of Psychological Health in Preterm Infants and their Caregivers: A Pilot Study

Jong Yoon Chang, Do Hyung Lee, Nam Hyun Lee, Su Min Kim, Da Yeong Kim, Joon Hee Lee, Seungwoo Cha, Eun Jae Ko MD. PhD.

SP35: A National Survey of Rett Syndrome: Behavioral Characteristics in Individuals with Rett Syndrome in Korea

You Gyoung Yi MD, Ph.D

Posters

SP36: Overmedication in Adults with Cerebral Palsy and Other Developmental Disabilities

Toni Benton MD, Isabela Roddy, Tanisha Medha, Amber Seik MSN, Michelle Marek MBA, MA, LPCC, Alia Manning RN, Clark Hardgrave MScPAS, Richard Campbell PhD, Piyadisa Kodituwakku PhD, John Phillips MD

SP37: Feeding Support Groups for Children with Feeding Tubes and Tracheostomies

Karen Dilfer MS, Carolyn Jaynes MS, Sarah Sobotka MD, MSCP

SP38: Caregivers' Perceptions of the Impact of Adolescents with Autism Spectrum Disorder Participating in Modified Sports Intervention Programs

Lidiane Ferreira, Hércules Leite PhD, Ricardo Júnior MSc, Deisiane Souto, Fabiane Ferreira, Ana Amélia Cardoso PhD

SP39: Development of a Virtually-Guided Infant Developmental Abilities Screening Tool to Enhance Access to Follow-up Care of Children with Complex Medical Conditions

Sandra Fucile PhD, Smith Lorraine MSc, Janine Kowalczyk MSc OT, Alyssa Alguire MSc OT, Andrea Switzer

SP40: Developmental Outcomes of a Parent-administered Sensorimotor Intervention in Infants Born Preterm at 18 Months of Age

Sandra Fucile PhD, Lorraine Smith MSc, Kimberly Dow MD

SP41: Building Resilience with Technology: Can Virtual Reality Help Reduce Pain and Anxiety for Children Receiving Botulinum Toxin for Hypertonicity Management?

Hedva Chiu MD, FRCPC, Raissa Passos dos Santos PhD, Michelle Larin MSc, Cassandra Kapoor BS, Gali Shapira Zaltsberg MD, Tracey DeAmicis, Anna McCormick MD, Matthew Head, Hana Alazem MSc PT, MD

SP42: Clinician Perspectives on the Feasibility of Implementation and Acceptance of an Innovative and Engaging Training Program Using Ride-On Toys for Children With Unilateral Cerebral Palsy.

Kush Kataria, Zaria Jarvis, Sudha Srinivasan PT, PhD

SP43: "It's Really Fun!": Children Perceptions on the Use of Ride-On Toys for Rehabilitation in Childhood Hemiplegia.

Kush Kataria, Sudha Srinivasan PT, PhD

SP44: Changes in Upper Extremity Motor Function Following a Clinician-Delivered Bimanual Training Program Using Ride-On Toys in Children with Unilateral Cerebral Palsy: A Pilot Feasibility Study.

Sudha Srinivasan PT, PhD, Kush Kataria, Meghan Gagnier, Kara Borkowski BS, Jana Lawrence, Vivian London, Nirali Vachhani

SP45: Keeping Children with Medical Complexity at Home: Improving Emergency Care for Children Supported by a Complex Care Program in Australia

Esther Yap MD, Susan Gibb MBBS, FRACP, Rachael Haddon

Posters

SP46: Fostering Resilience in the Genomic Era: A Video-Based Curriculum to Empower Medical Trainees

Meredith Suggs, Christine Murphy MD, FAAP, Erin Cooney, Jenny Do, Megan Morand, Gabrielle Segal, Anna Beck, Devin Davis

SP47: Integrating Palliative Care into Surgical Planning for Neuromuscular Scoliosis: A Model for Enhancing Patient and Family Experience

Rami Abuqubo, Emmanuel Mbamalu, Zachariah Samuel, Edina Gjonbalaj, Leila Mehraban Alvandi PhD, Jennifer Hall, Sarah Norris, Alexa Karkenny, Jaime Gomez

SP48: Infant Monitoring Devices Used in Infants with or at Risk for Sturge-Weber Syndrome: Analysis of Clinical Questionnaire

Katharine Joslyn BS, Ashley Eisenberg, Anne Comi MD

SP49: Implementing a Novel Interdisciplinary Acute Care Consultation Approach to Pediatric Rehabilitation: Findings from the Rehabilitation, Education, and Care Hub (REACH)

Theodore Yip MD, Katie Van Tiem BS, Hannah Allen PhD, Kerry Blazek PT, DPT, PCS, Brianna Fowler OTR/L, Kimberly Sellinger MS, Kayleigh Wilson BA, Kelly Clark MA, Janet Bettger PhD, Joshua Alexander MD

SP50: Quantitative Assessment of Nutritive Sucking in Infants with Hypoxic Ischemic Encephalopathy

Mozhde Askari MD, Amanda Crandall PhD, Julie Lumeng MD, Sabrina Shandley PhD, David Riley MD, Yvette Johnson MD, Ioannis Ntoumanis PhD, Christos Papadelis PhD

SP51: Is an Intrathecal Baclofen Trial Helpful to Select Patients and Predict Outcomes After Selective Dorsal Rhizotomy?

Hannah Weiss MD, Patricia Siegel, Owen Les, Sebastian Anderson, Benjamin Konigsberg, Alex Konigsberg, Daniela Anderson, Diana Maloney, Angela D'Alessandro MD, Richard C. E. Anderson

SP52: Initial use of the Physical Abilities and Mobility Scale (PAMS) in ASXL-Related Disorders

Heather McLean PT, MPT, CBIS, C/NDT, TMRc, Natasha Ludwig, Rujuta Wilson MD, Rachel Northrup, Serene Wong, Julia Sloan, Bianca Russell

SP53: Integrating Clinical and Lived Expertise: Developing and Refining the GMFC-AMC Through Consensus and Case-Based Analysis.

Clarice Araujo PhD, Lauren Hyer, Cathleen Buckon MS, Susan Sienko PhD, Jennifer Sullivan, Alicja Fafara PhD, Maureen Donohoe DPT, Daniel Natera De Benito PhD, Kristen Donlevie, Noémi Dahan-Oliel PhD

SP54: Health Literacy and Treatment-Seeking Behaviors: A Prospective Study Comparing Caregivers of Patients with Cerebral Palsy and Patients with Acute Fractures

Nora Galoustian B.A., Michaela Juels BS, Alexander Rueda MPH, Anahit Malumyan, Aura Elias BS, Gabrielle Noullet BS, Lisa Su MD, MS, Rachel Thompson MD

Posters

SP55: 'Mom, if I were able to walk you would have brought all these clothes, right?': Caregivers' lived experiences of clothing related Knowledge, Challenges, and Preferences of Children with Cerebral Palsy

Nagaveni Nayak M.A.FM, Pursuing PhD, Veena Rao PhD, Sivakumar Gopalakrishnan PhD, Sonia Khurana PhD, Bhamini Krishna Rao PhD

SP56: Head Position During Sleep: Comparison of Videosomnography Data in Infants with Typical Development and with Torticollis

Michele Goncalves Maia, Sarah Berger PhD, Natalie Barnett, Katie Liang

SP57: A Gamified iPad Task Reveals Differences in Unimanual and Bimanual Motor Skill Learning among Children Born Preterm and Term

Cassandra Kemmel-Bartletti MS, Md. Raihan Mia BS, Sheikh Iqbal Ahamed PhD, Naveen Bansal, Samuel Nemanich PhD, MSCI

SP58: Who Does Not Come to Clinic – An Analysis of Clinic No Shows in an Urban Early Detection Clinic

Jennifer de la Rosa MOT, OTR/L, BCP, Cristina Brea MD, Mary Kay Heldman MSW, Deborah Gaebler-Spira MD, FAAP, Joann Searcy RN

SP59: Item-Level Reliability Analysis of the Hammersmith Infant Neurological Examination in Infants with Early Brain Injuries

Joseph Collins PT, DPT, MS, CSCS, Katherine Konieczka BS, Kellie Collins PT, DPT, PCS, Samara Breuer, Whitney Piper, Paige DeGrave, Bernadette Gillick PhD, MSPT, PT

SP60: The Effect of Intrathecal Baclofen and Age on Hip Migration in High GMFCS Children with Cerebral Palsy

Maximillian Feygin, Zachary Perry, Edward Wright MD, Nisha Gadgil MD

SP61: NIH Toolbox Feasibility in Preschool Aged Children Born Extremely Preterm in the Pre-Vent/Post-Vent Cohort

Lynn Boswell PT, MS, Raye-Ann deRegnier MD, Erin Lonergan MS, RRT, CCRC, Casey Rand MS, Debra Weese-Mayer MD, Namasivayam Ambalavanan, Michelle Berkovits PhD, Deanne Wilson-Costello MD

SP62: Baby Observational Selective Control AppRaisal (BabyOSCAR) predicts Cerebral Palsy Topography, Hand function and Motor patterns at 2 years

Carly Luke PhD, Colleen Peyton DPT, Roslyn Boyd PhD, Bachelor Physiotherapy, Theresa Sukal-Moulton PT, DPT, PhD

SP63: Revisiting Video Analysis: Can This New Tool Transform Head and Trunk Control Assessments in Children with Developmental Disabilities?

Shristi Shakya MPT, Sonia Khurana PhD, Vani Lakshmi R PhD, Veena KD PhD, Dana Anaby PhD, Shamanth Madapura S. MTech, Hitesh Hasmukhlal Shah PhD, V. S. Venkatesan PhD, Sivakumar Gopalakrishnan PhD, Bhamini Krishna Rao PhD

SP64: Use of Affected Limb in Children with Hemiplegic Cerebral Palsy as Measured by Accelerometry following Infancy Initiated Constraint-Induced Movement Therapy (CIMT): A Pilot Study

Mark Gormley MD, Kelli Moberg OT, Mark Jankowski MS, Mo Chen PhD, Alyssa Spomer PhD, Maykala Williams MPH

Posters

SP65: School Readiness of Children Identified as High Risk of Cerebral Palsy in Infancy

Stina Oftedal PhD, B Hlth Sc (Diet), Samudragupta Bora PhD, Leanne Sakzewski PhD, Bachelor Occupational Therapy, Koa Whittingham PhD, Iona Novak PhD, Nadia Badawi PhD, Catherine Morgan PhD; BAppSc (Physio), Michael Fahey MBBS, PhD, Ashleigh Hines PhD, Roslyn Boyd PhD, Bachelor Physiotherapy

SP66: Associations of School Readiness Vulnerability in Children with Cerebral Palsy

Stina Oftedal PhD, B Hlth Sc (Diet), Samudragupta Bora PhD, Leanne Sakzewski PhD, Bachelor Occupational Therapy, Koa Whittingham PhD, Iona Novak PhD, Nadia Badawi PhD, Catherine Morgan PhD; BAppSc (Physio), Michael Fahey PhD, MD, Ashleigh Hines, Roslyn Boyd PhD, Bachelor Physiotherapy

SP69: General Movements Assessment and Developmental Outcomes at Later Age Children Born to Mothers with Gestational Diabetes Mellitus and/or Pre-eclampsia

Bilge Nur Yardımcı-Lokmanoğlu PhD, Esra Kinacı-Biber MS, Akmer Mutlu

SP70: Parents/Caregivers Practice on Responsive Care Giving and Early Learning Opportunity in Addis Ababa, Ethiopia

Atsede Legesse

SP71: Dynamic Body Weight Support Enhanced Exploration in Infancy and Developmental Disabilities (DBWS EE): Pilot analysis of two children.

Nia Mensah PT, DPT, PhD, Radhika Attal PT, MPT, Ai-Tzu Chan, Nora Almoadi PT, MS, Stacey Dusing PhD, PT, FAPTA

SP72: Motor Based Problem Solving Intervention Plus Dynamic Body Weight Support Improves Motor and Cognitive Skills and Self-Initiated Transitions in a 1 Year Old with Cerebral Palsy.

Stacey Dusing PhD, PT, FAPTA, Nia Mensah, Radhika Attal, Francis Kwan

SP73: Characteristics of Children with Ataxic Cerebral Palsy in Sweden, Norway, and Denmark

Katrina Pettersson PhD, Elisabet Rodby-Bousquet Associate professor

SP74: Motor compromise of children in Latin America: Preliminary findings of the Latin American Cerebral Palsy Register (LATAM-CPR)

Mercedes Ruiz Brunner PhD, L. Johana Escobar Zuluaga MSc, Hércules Leite PhD, Luana Silva, Jorge Carranza MD, Carlos Quintero Valencia MD, Carolina Toro MD, Nadia Badawi PhD, Gulam Khandaker PhD, Eduardo Cuestas PhD

SP75: Brain Lesion Severity, Growth and Body Composition of Children with Cerebral Palsy

Stina Oftedal PhD, B Hlth Sc (Diet), Simona Fiori, Kristie Bell PhD, Robert Ware PhD, Peter SW Davies BS, MS, PhD, Roslyn Boyd PhD, Bachelor Physiotherapy, Katherine Benfer PhD

SP76: Causes of Flexed Knee Gait in Children with Unilateral Cerebral Palsy

Jeremy Bauer MD, K Patrcik Do BS

SP77: Prevalence and Severity of Idiopathic Toe Walking: A 22-year Period Gait Laboratory Database Review.

Mauro Morais Filho MD, Cátia Kawamura PT, Marcelo Fujino MD, José Augusto Lopes MSc, Nicole Cirilo MD

Posters

SP78: Effects of Orthoses Optimization on Biomechanics and Function in Children with Cerebral Palsy: An Exploratory Study
Teresa Pierce PhD, Alyssa Fiss PhD, Mark Geil, Karl Barner

SP79: The Adaptability of the Inter-leg Coordination is Altered in Adults with Cerebral Palsy
Logan White M.S., Morgan Busboom DPT, MS, Sarah Baker MA, Swati Surkar PT, PhD, Max Kurz PhD

SP80: Comparison of Markerless and Marker-based Motion Analysis in Children with Cerebral Palsy Wearing Hinged Ankle-Foot Orthoses
Riley Horn, John Collins MA, ATC, Heather Waters DPT, Christine Amacker DPT, Martins Amaechi MS, Rachel Thompson MD, Patrick Curran MD, Henry Chambers MD

SP81: Clinical, Imaging, and Musculoskeletal Management Correlates of Toe Walkers with Fibrolipomas in the Filum Terminale
Fabiola Reyes MD, Karen Lin BS, Linsley Smith RN, Jennifer Royo PA, Marlen Lucero, Robert Wimberly MD, Brett Whittemore MD

SP82: An Artificial Intelligence-Augmented Pipeline to Automate Motion Assessments in Pediatric Patients with Cerebral Palsy
Lianne Brandt, Ishaasamyuktha Somasundaram, Rajkumar Arumugam Jeeva, Cancan (Gloria) Su, Guangwen (Kevin) Sun, Edward D. Lemaire PhD, Natalie Baddour PhD, Ramiro Olleac, Kevin Cheung MD, Albert Tu

SP83: Outcomes of Botulinum Toxin-A on Gait, Functional Performance, and Parental Perspectives in Ambulatory Children with Cerebral Palsy: A Mixed-Method Study
Warnakulasuriya Fernando BSc, Fathima Zahra Safnaz Ziad Mohamed BSc, MPH, Wijesinghe Arachchige Priyanwada Nayani Wijayasinghe BSc, Heiyanthuduwege Thilini Madushika BSc, Githmi Ishara Bandara BSc, Shirom Rajeev Siriwardana MBBS, MD, Dilini Vipulaguna MBBS, MD, DCH, Samanmali P. Sumanasena MBBS, DCH, MSc, MD, MRCPCH

SP84: The Development of Gene Therapy Using Antisense Oligonucleotide in Patients with Spinobulbar Muscular Atrophy (SMA)
Chung-reen Kim, Donghwi Park

SP85: Neuroimaging of 74 patients with Genetically Confirmed Pediatric Onset Hereditary Spastic Paraplegia
Michelle Christie MD, Cinthya Prado Meza BA, Linsley Smith RN, Angela Shierk PhD, Robert Wimberly MD

SP86: Use of the Quality-of-Life Inventory-Disability in Children with SYNGAP1-Related Disorder
Somto Ibekwe, Emily Schneider, Matthew Edelstein, Mary Gerrard, Siddharth Gupta, Constance Smith-Hicks, Natasha Ludwig

SP87: Assessing the Feasibility of an 'Integrated' Version of Enabling Visions and Growing Expectations (Envisage): A Program for Service Partners and Parents of Children with Neurodisabilities
Alice Soper MSc, Marilyn Wright BScPT, MEd, MSc, Elizabeth Chambers HBA, BEd, OCT, Marion Knutson, Debra Hughes RN, MA, Kim Hesketh MS, Jessica Hanson, Myanca Rodrigues, Andrea Cross PhD, Peter Rosenbaum MD, FRCP(C), DSc (HC)

Posters

SP88: A Survey of Pediatric Complex Care Programs: Health Services, Referral Sources, and Patient Eligibility

Lisa Letzkus PhD RN CPNP-AC, Laurie Glader MD, Maria Osipovich BA, Kristi Williams MD, Scott Callahan MD, Ricki Goldstein MD, Jay Berry MD, MPH

SP90: Frequency, Characteristics, and Reasons for Termination of Cerebral Palsy Clinical Trials

Michael Gouzoulis BS, Dennis Caruana MD, Ally Yang MD, Anthony Seddio BS, Jonathan Grauer MD, David Frumberg MD

SP91: Early Identification and Diagnosis of Cerebral Palsy: An Implementation Study in BC

Vivian Wong, Ram Mishaal MD, Mor Cohen Eilig MD, Keith O'Connor MS, Nandy Fajardo PT, Jill Zwicker PhD, MA, BA, BSc(OT), OT, Stephanie Glegg PhD, Reg. OT(BC), MSc, BScKin

SP92: Motor Evoked Potentials in Pediatric Populations: An Inter-Rater Reliability Study

Cameron Casey PhD, Hung-Shao Cheng, Kellie Collins PT, DPT, PCS, Abrar Majeedi, Arun Karumattu Manattu PhD, Samuel Nemanich PhD, MSCI, Ryan McAdams MD, Bernadette Gillick PhD, MSPT, PT

SP93: Priorities for Navigating Healthcare Transitions of Emerging Adults with Cerebral Palsy

Sanaya Shenoy MSPH, Deborah Sahlin BS, Paul Salib BS, Deanna Johnson MS, Eric Chin MD, Heather Riordan MD

SP94: Implementation of Robotic Walking in a School Environment: A Pilot Study

Christa Diot MSc, PKin, Emily Newton, Emily Byrne, Andrea Mitchell, Benjamin Norman MSc, Jessica Youngblood MSc, Alicia Hilderley PhD, Elizabeth Condliffe PhD, MD

SP96: Enhancing Knowledge, Confidence, and Use of Functional Electrical Stimulation Among Therapists: An Implementation Intervention in Cerebral Palsy Rehabilitation

Elina Nezon, Sarah Munce, Emily Ho BScOT, MEd, PhD, Cesar Marquez-Chin, Kristin Musselman

SP97: Pre-Post Evaluation of the Family Engagement in Research Course: Does it Increase Knowledge, Abilities, and Confidence in Family Engagement in Neurodevelopmental Disability and Child Health Research?

Alice Soper MSc, Donna Thomson, Connie Putterman MHSc, Dayle McCauley MSc, Patricia Solomon PhD, Christine Chambers PhD, RPsych, Jan Willem Gorter MD, PhD, Andrea Cross PhD

SP98: Provider Training in Early Detection Tools: Clinician Responses to Hammersmith Infant Neurological Examination Training

Christiana Butera, Stacey Dusing PhD, PT, FAPTA

SP99: Cross-Sectional Survey of the Training and Contributions of Clinician Scientists in Occupational and Physical Therapy

Shanice Hamilton OTD, Stacey Dusing PhD, PT, FAPTA, Christiana Butera

SP100: Bridging Disability Healthcare Inequities: Needs Assessment of the Physical and Nutritional Needs of Persons with Disabilities

Simran Prakash

Posters

SP101: Prioritizing the Worries of Adolescent Girls with a Physical Disability and Mothers: A Community-Engaged Approach

Courtney Streur, Dalia Elased BS, Jodi Kreschmer MSW, Grayson Holmbeck PhD, John Bridges PhD

SP102: Co-Occurring Autism and Cerebral Palsy in a Multidisciplinary Cerebral Palsy Clinic

Grace Stotler BS, Tracy Stroud DO, Jane Anne Emerson MD

SP103: Hypotonic Cerebral Palsy Characteristics in a Missouri Multidisciplinary Clinic

Grace Stotler, Tracy Stroud DO, Jane Anne Emerson MD

SP104: Use of the International Classification of Function to Stratify Children with Medical Complexity

Rahel Berhane MD, Adam Rosenbloom MD, MPh, Yingchao Yuan MA, MariAnn Alexander PhD, Kendall Sharp MSN, MBA, Lisa Kirsch MPaff

SP105: Unveiling Psychiatric Vulnerabilities in Spina Bifida: A Case-Control Study

Melinda rocchi, Ann Alriksson-Schmidt PhD, Johan Jarl PhD, Anna Linder PhD

SP106: Family Psychosocial Risk in Cerebral Palsy: Engaging Stakeholders to adapt the Psychosocial Assessment Tool (PAT)

Nicole Enlow PhD, Alice Taylor, Michele Scialla MSN, Melissa Alderfer PhD, M. Wade Shrader MD, Anne Kazak PhD

SP107: Atypical Prefrontal Cortex Activity Contributes to Impaired Reaching During Moving Target Interception in Children with Cerebral Palsy

Owais Khan PT, Deborah Barany PhD, Tarkeshwar Singh PhD, Christopher Modlesky PhD

SP108: Lesion-Specific Functional and Structural Reorganization of Brain Motor Network in Children with Congenital Hemiplegia

Sadra Shahdadian Ph.D., Eryn Armstrong MS, Brooke Kimbrell, Madhan Bosemani MD, Fernando Acosta MD, Warren Marks MD, Christos Papadelis PhD

SP109: Anterior Cingulate and its Role in Enhancing Gait Training Outcomes in Persons with Cerebral Palsy

Morgan Busboom DPT, MS, Liana Chinen, Brad Corr, Katie Bemis DPT, Kimberley Scott PT, DPT, PhD, Sarah Baker MA, Yasra Arif PhD, Tony Wilson PhD, Max Kurz PhD

SP110: β -hydroxy- β -methylbutyrate (HMB) feasibility and efficacy in cerebral palsy – 24 week prospective study

Marissa Esterley MSc, William Juckett MS, Donald Dengel PhD, Tom Novacheck MD, Karri Larson RD, Nicholas Evanoff PhD, Liz Boyer PhD

SP111: Validation of the Trochanteric-Sparing Proximal Femoral Resection Compared to Legacy Salvage Procedures: A Non-Inferiority Retrospective Cohort Study

Lennert Plasschaert MD, Catherine Mackey MD, Patricia Miller MS, Colyn Watkins MD, Brian Snyder MD, PhD, Benjamin Shore MD, MPH, FRCSC

Posters

SP112: “Fixing the Hips” In Spinal Muscular Atrophy: An Age Matched Comparison of Children Treated with and Without Hip Reconstruction in the Era of Disease Modifying Therapies

Rini Desai BS, Kyung-min Roh BS, Saunder Bernes MD, Kelly Lucyk RN, Matthew Halanski MD

SP113: When to Include the Pelvis? Validation of a Hip Arthrography Algorithm for Neuromuscular Hip Reconstruction

Lennert Plasschaert MD, Colyn Watkins MD, Patricia Miller MS, Brian Snyder MD, PhD, M. Wade Shrader MD, Benjamin Shore MD, MPH, FRCSC

SP114: Gross Motor Function Risk of Hip Displacement in Patients with Leukodystrophy

Maia D. Regan, BA, Keith D. Baldwin, MD, MPH, MSPT, David Spiegel, MD, Sarah H. Evans, MD, Christine M. Goodbody, MD, MBE

SP115: Intraoperative Neuromonitoring during Distal Femoral Extension Osteotomies Often Identifies Potential Injury

Robert Wimberly MD, Michael Abraham, Catherine Thompson BS, CCRP, Michelle Christie MD

SP116: Changes in Health-related Quality of Life (CPCHILD) After Hip Reconstruction in Children with Cerebral Palsy: A Case-control Cohort Study

Uri Givon MD, Jason Howard MD, Arianna Trionfo MD, Alice Taylor, Freeman Miller MD, Victoria S Hinchberger BS, M. Wade Shrader MD

SP117: Hip Surveillance X-Ray Rates in Pediatric Patients with Cerebral Palsy: An Epidemiological Analysis from 2016 to 2023

Pooya Hosseinzadeh MD, David Momtaz MD, Jad Lawand MS, Jacob Jahn BS, Quinn Ehlen BS, Blaire Peterson BS, M. Wade Shrader MD

SP118: Changes in Health Related Quality of Life with and without Intrathecal Baclofen Pump in patients with Cerebral Palsy: Evaluation Using the CPCHILD Questionnaire.

Uri Givon MD, Jason Howard MD, Maura McManus MD, Jeffrey Campbell MD, Nancy Lennon DPT, MS, PT, Freeman Miller MD, M. Wade Shrader MD

SP119: Effectiveness and Safety of Epidural Vs General Anesthesia on Postoperative Outcomes in Pediatric Patients with Cerebral Palsy Undergoing Proximal Femoral Osteotomy, A National Matched Cohort Analysis

Pooya Hosseinzadeh MD, David Momtaz MD, Parker Mitchell BS, Blaire Peterson BS, Jad Lawand MS, Abdullah Ghali MD, Sean Tabaie MD, M. Wade Shrader MD, Benjamin Shore MD, MPH, FRCSC, Rachel Thompson MD

SP120: Functional Ambulatory Assessment and Motion Analysis in Children With Severe Untreated Crouch Associated with Cerebral Palsy – A Prospective Study.

Mayuri Gad Msc, Atul Bhaskar, Chasanal Rathod

SP121: Peripheral Neuropathy: The Shadowed Villain in “Idiopathic” Clubfoot Recurrence

Michelle Christie MD, Rusty Hartman MS, Anthony Riccio MD

Posters

SP122: Influence of Plastic Surgery Closure on Infections After Posterior Spinal Fusion for Neuromuscular Scoliosis in Children with Cerebral Palsy

M. Wade Shrader MD, Jason Howard MD, Edward Caterson MD, Mario Aycart MD, Suken Shah MD, Anuj Gupta MD, Alice Taylor

SP123: Analysing Bone Health in Children with Spina Bifida

Megan Wincott, Edward James MBBS, Thomas Acker, Yael Gelfer, Anna Bridgens

SP124: When Conservative Treatment Fails: A Comparison of Surgically Treated Idiopathic and Autism Spectrum Disorder-Associated Toe-Walking

Sang Won Lee MD, Hillary Nguyen MD, Shanika De Silva PhD, Winnie Tzu Hsuan Lin MPH, Collin May MD, MPH, Benjamin Shore MD, MPH, FRCSC

SP126: Pelvic Fixation for Early Onset Scoliosis: Comparative Risks of Complications and Unplanned Returns to the Operating Room

Rayyan Abid, Susan Wager MD, Christina Hardesty MD

SP127: Development and Validation of a 3-Dimensional Reconstruction Tool of the Pelvis Using an Uncalibrated Uniplanar 2-Dimensional Image

Jae Jung Min, Moon Seok Park MD

SP128: Comfort, Positioning, and Caregiver Reports Before and After Hip Surgery in Children with Cerebral Palsy

Ronni Rowe OTR, ATP, Abbye Gieringer OTR/L, Lucy Ericson, OTR, CHT, MPH OTR/L, Treva Smith, OTR, Robert Wimberly MD, James Ogbeide BS, Laura Mayfield MPH, Chanhee jo PhD, Karina Zapata PT,DPT,PhD

SP129: Intraoperative Neurophysiological Monitoring Changes during Surgical Correction of Pediatric Neuromuscular Scoliosis

Mo Chen, Sara Morgan PhD, Salma Noor MPH, Daniel Miller MD, Zack Thompson, Eduardo Beauchamp MD, Walter Truong MD, Tenner Guillaume MD, Joseph Perra MD, Timothy Feyma MD

SP130: Anterior Distal Femoral Hemiepiphysiodesis in Children with Cerebral Palsy: Evaluating Short-Term Outcomes and Risk Factors for Failure

Samuel Ramirez BA, Stuart Ferrell MBS, Lindsey Turner, Ali Asma MD, Jon Wall MD, Dorothy Harris Beauvais MD

SP131: The Neuromuscular Knee Displays Unique Rotatory Tibiofemoral Pathoanatomy

Kateland Howard BS, Ally Yang MD, Johannes Sieberer MS, Alyssa Glennon BS, David Frumberg MD

SP132: Distal Femoral Valgus Growth is More Common after Distal Femoral Osteotomy than Trauma

Colby Neilsen MD, Kyung-min Roh BS, Rini Desai BS, Michael Stickels, Emily Andrisevic MD, Matthew Halanski MD

SP133: Who Benefits from Spinal Bracing in Neuromuscular Scoliosis

Hiroko Matsumoto PhD, Yukiko Shibata MD, Yuri Ota MD, PhD, Joyce Huang MPH, Rachel Difazio PhD, RN, Michael Hresko MD, Brian Snyder MD, PhD

Posters

SP134: Spine Pathoanatomy in Spinal Muscular Atrophy (SMA): Effect of Disease Modifying Therapies (DMT) vs. Genetic Skeletal Phenotype

Hiroko Matsumoto PhD, Yuri Ota MD, PhD, Yukiko Shibata MD, Lennert Plasschaert MD, Basil Darras MD, Amy Pasternak DPT, Brian Snyder MD, PhD

SP135: Estimation of Curve Stiffness and Required Corrective Moment in Spinal Muscle Atrophy (SMA) Children with Early-Onset Scoliosis (EOS)

Lennert Plasschaert MD, Dennis Anderson PhD, Ron El-Hawary, MD, Hiroko Matsumoto PhD, Ryan Murdock MD, MS, Brian Snyder MD, PhD

SP136: Adherence to Hip Surveillance Guidelines in Children with Cerebral Palsy

Stacey Miller BSc(PT), MRSc, Mehdi Nouri Zadeh MSc, Maria Juricic MRSc, BScPT, BScKin, Kishore Mulpuri MHSc, MSc, MBBS, FRCSC

SP137: Relationship Between Pelvic Tilt Measured in Radiographs and Gait Analysis

Zhenkun Gu MD, Vishnu Deep Chandran PhD, Giulia Beltrame MD, Silvia Zanini MS, Bridget Assip DPT, Jennifer Jezequel DPT, Fernando Quevedo Gonzalez PhD, Howard Hillstorm PhD, David Scher MD, Paulo Selber MD

SP138: 3D Surgical Planning and Virtual Osteotomy Simulation in Acetabular Dysplasia Reconstruction

Cemil Yildiz MD, ahmet Metin ÖZSEZEN, Enes Keleş

SP139: Characterizing Trochlear and Patellar Morphology in Patients with Cerebral Palsy and Patella Alta

Patrick Nian, Giulia Beltrame MD, Zhenkun Gu MD, Shae Simpson, Minah Waraich, Amith Umesh, Vishnu Deep Chandran PhD, Paulo Selber MD, Daniel Green

SP140: Knee Flexion Contractures for Children with Cerebral Palsy Undergoing Hip Reconstructive Surgery

Maria Juricic MRSc, BScPT, BScKin, Stacey Miller BSc(PT), MRSc, Sharon Shrestha, Christie Yang, Kishore Mulpuri MHSc, MSc, MBBS, FRCSC

SP141: The Impact of Protective Measures on Musculoskeletal Pain in Caregivers of Children with and without physical disabilities

Taylor Jazrawi, Micaela Tomaro, Sallie Yassin, Adrian Gonzales-Bravo, Mara Karamitopoulos MD

SP142: The Relationship Between Chronic Pain and Health-related Quality of Life in Children and Young Adults with Cerebral Palsy

Maykala Williams MPH, Chantel Burkitt PhD, Alyssa Merbler PhD, Frank Symons PhD

SP143: Prevalence of Lower Back Pain Diagnosis and Injection Utilization are Lower in Patients with Cerebral Palsy

Oghenewoma Oghenesume, Philip Ratnasamy, Jennifer Hankenson MD, Jonathan Grauer MD

SP144: Preliminary Prospective Study to Quantify Pain and Opioid Consumption After Orthopedic Surgeries in Children with Cerebral Palsy

Hailey Frye, Lisa Lykken BS, Liz Boyer PhD, Cole Bothun, Frank Symons PhD, Chantel Burkitt PhD, Tom Novacheck MD

SP145: Mobility Assistance Dogs and Children with Cerebral Palsy: A Qualitative Study

Heather Curtin PhD, Ciaran Simms, Damien Kiernan PhD, Richard Reilly DSc, Michelle Spirtos PhD

Posters

SP146: Mobility assistance dogs and Physical Activity Levels in Children with Cerebral Palsy

Heather Curtin PhD, Michelle Spirtos PhD, Damien Kiernan PhD, Richard Reilly DSc, Ciaran Simms

SP147: Translation, Reliability, and Development of a Calculator for the Brazilian Portuguese Version of the Children's Assessment of Participation and Enjoyment & Preferences for Activities of Children

Deisiane Oliveira Souto Deise PhD, Hércules Leite PhD, Flaviana Kelly de Lima Maciel MSc, Fabio Vila-Nova, Egmar Longo, Cristina dos Santos Cardoso de Sá PhD, PT

SP148: Disability Perspectives on Clinical Research Participation Using Positive Health as an Outcome

Melissa Murphy PhD, Judy Aschner MD, Paige Ryals, Ana Joselyn Barahona BS, Jennifer Lyman MS, Ashley Harris Whaley M.S., CCC-SLP, Rachel Byrne PT, Nathalie Maitre MD, PhD

SP149: Barriers from the Perspective of Adolescents with Cerebral Palsy: Photovoice

Pollyeverlin Rocha, Paloma Pereira, Camila Santana MSc, Eloisa Tudella

SP150: Facilitators According to Tthe Perspective of Adolescents with Cerebral Palsy: Photovoice.

Pollyeverlin Rocha, Paloma Pereira, Camila Santana MSc, Eloisa Tudella

SP151: Lower Extremity Orthosis Satisfaction Scale-Parent Form Development Study

Ecem Yıldız Çangur, Bülent Elbaşan Prof., Pelin Atalan Efkere, Kamile Uzun Akkaya, Sabiha Bezin PhD, Derya Gökmen

SP152: Running Teams That Promote Inclusion for Children With All Movement Abilities: Perspective From Those With and Without Direct Experience

Tara Egan PT, DPT, Tucker Pennington, Forrest Parks, Theresa Sukal-Moulton PT, DPT, PhD

SP153: Long Term Follow-Up on the Stability of Selective Motor Control Measures from 3 Months of Age Through Childhood in Children with and Without Cerebral Palsy

Theresa Sukal-Moulton PT, DPT, PhD, Barbara Sargent PhD, Raye-Ann deRegnier MD, Lynn Boswell PT, MS, Colleen Peyton DPT

SP154: Early Determinants of Treatment Outcomes in Infants with Congenital Muscular Torticollis: A Prospective Cohort Study

You Gyoung Yi MD, Ph.D

SP155: The Complex Interplay Between Knee Kinematics, Motor Functioning and Passive Knee Range of Motion in Children with Spastic Cerebral Palsy

Inti Vanmechelen PhD, Edwin Råsberg, Eva Bröström, Cecilia Lidbeck PT

SP156: Reference Values for Balance in Typically Developing School-Aged Children: A Cross-Sectional Study

Hsiu-Ching Chiu PhD, Louise Ada PhD, Theofani Bania BSc, MSc, PhD

SP157: Exergaming as a Home Exercise Program for Children and Teenagers with Upper Extremity Hemiplegia for Improved Motor Function - A Case Series

Qinyin Qiu PhD, Sergei Adamovich PhD, Gerard Fluet, JenFu Cheng MD, Don Matthews MS, Alexandra Clayton MS, Amanda Gross, Ashley Mont PhD, Brian Hsu, Mee Eriksson MA

Posters

SP158: Evaluation of Current Practices of Pain Management in Inpatient Rehabilitation in Patients After Selective Dorsal Rhizotomy

Cristina Brea, Linda Krach MD, Mark Jankowski MS, Todd Warner MS

SP159: Feasibility of Automated Video Analysis for Upper Limb Function Assessment in Children with Unilateral Cerebral Palsy

Youngsub Hwang, Hakje Yoo, Jeong-Yi Kwon PhD, Myung Jin Chung

SP160: Caregiver-Infant Emotional Availability at Term Age Influences the Receipt and Dose of Community-Based Therapeutic Interventions Across the First Two Years of Life in Infants Born Very Preterm

Rebecca Molinini PhD, Corri Stuyvenberg PT, DPT, MA, Christine Spence PhD, Jennifer Burnsed, Karen Hendricks-Munoz MD, MPH, Amy Harper MD, Richard Stevenson MD, Stacey Dusing PhD, PT, FPTA

SP161: Removeable Serial Casting a Novel Approach to Toe Walking

Larissa Pavone MD, Jordyn Eisenberg BS, Michael Ellis DPT, Trinette Carney BS, Sarah Macabales

SP162: Increasing Compliance with Hip Imaging Guidelines for Patients with Cerebral Palsy: A Multispecialty Quality Improvement Project

Susan Biffi MD, Patrick Curran MD

SP163: SMART Start: A School Readiness Program for Children with Unilateral Cerebral Palsy

Angela Shierk PhD, Heather Roberts PhD, Nancy Clegg BS, MSN, PhD, Catherine Thompson BS, CCRP, Emily Gale, Jill West PhD, Taylor Weatherford BA, Fabiola Reyes MD

SP164: "Effect of Abobotulinumtoxin Treatment on hip pain in adults, adolescents, and children with cerebral palsy at GMFCS level V"

Mayra Estrella

SP165: Evaluating the Impact of Camp Sunny SPARK (Specialized Programs for Advancing Rehabilitation in Kids) on Quality of Life for Children with Hemiplegia: Pre- and Post-Camp Analysis

Ravneet Mundi, Mor Cohen Eilig MD, Naama Rozen MSc. Pharm, Ram Mishaal MD, Michelle Lukas MOT, Hannah Delacruz BTR, Danielle Hill BTR, MRSc

SP166: Building Independence: Evaluating the Impact of Postural Management Through Primary Caregiver Perspectives

Sofia Villarreal-Zambrano, Armando Galindo-Rodriguez, María del Consuelo Ibarra-Rodriguez MD, Paulina Velasco

SP167: Investigation of the Effectiveness of A Functional Home Exercise Protocol in Congenital Muscular Torticollis

Sinem Erturan Asst. Prof., Rabia Zorlular MSc, Rana Beyoğlu MD, Bülent Elbasan Prof.

SP168: Methodology for Implementing Vestibular Rehabilitation in Pediatric Migraine: Focusing on Symptom Relief, Balance, and Quality of Life

Dilan Savas Kalender, Tulay Tarsuslu PhD, Uluc Yis MD, Birgul Balci PhD, Ayse Semra Hiz MD, Ayse Ipek Polat MD, Dilek Sonmezoglu MD, Busenur Asilturk

Posters

SP170: Efficacy of Sensorimotor Robotic Rehabilitation on Hand Function in Children with Congenital Hemiplegia

Sadra Shahdadian PhD, Eryn Armstrong MS, Angela Shierk PhD, Li Wang PhD, Brooke Kimbrell, Warren Marks MD, Fernando Acosta MD, Christos Papadelis PhD

SP171: Exploration of the Promotion of Motor Function in Children with Cerebral Palsy Complicated by Congenital Heart Disease

Qing Du PhD

SP172: Evaluating The Safety of a Robotic Supine Gait Training for Pediatric Rehabilitation — A Retrospective Study

Guy Letellier, Jean-François Catanzariti MD, Christophe Bensoussan MSC

SP173: Challenges in Identifying and Treating Motor Disorders in Brazilian Children with Autism.

Deisiane Oliveira Souto Deise PhD, Arthur de Lima BS, Reinaldo Paulino MS, Thalita Karla Cruz PhD

SP174: The relationship between the Gross Motor Function Classification System, Functional Mobility Scale, and the Observational Gait Scale in children with Cerebral Palsy during integrated rehabilitation.

Marcin Bonikowski MD PhD, Weronika Pyrzanowska MSC PhD, Magda Chrościńska-Krawczyk MD PhD

SP175: Finding the Balance: An exploration of partial bodyweight support use and opportunities for motor errors during physical therapy

Kimberley Scott PT, DPT, PhD, Ella Moberg, Lukas Kocher, Jack Taylor PhD, Brad Corr PT, DPT, PhD, Max Kurz PhD

SP176: Timed Up and Go Test as a Measure of Postural Control in Prune Belly Syndrome

Mallory Rowan, Jessica Lewis PT, DPT, Matthew Parrett M.Ed, FMS, Nathalia Amado PhD, Linda Baker MD, Ajit Chaudhari PhD, Kirsten Tulchin-Francis PhD

SP177: Optimizing Function for Youth with Cerebral Palsy: Quantifying Verbal and Visual Feedback to Drive Adaptive Motor Performance

Kimberley Scott PT, DPT, PhD, Clarisa Cortez, Jackson Barnett, Katie Bemis DPT, Brad Corr PT, DPT, PhD, Max Kurz PhD

SP178: A Shift Toward Precision Rehabilitation: Investigating How Repeated Practice Drives Improvements in Performance of Functional Transfers for Adolescents and Young Adults with Cerebral Palsy

Kimberley Scott PT, DPT, PhD, Mason McClarnon BS, Kaden Luellman, Jack Taylor PhD, Katie Bemis DPT, Brad Corr PT, DPT, PhD, Max Kurz PhD

SP179: Assessing Balance and Stability in Prune Belly Syndrome Using Motion Capture

Mallory Rowan, Jessica Lewis PT, DPT, Matthew Parrett, Nathalia Amado PhD, Linda Baker MD, Ajit Chaudhari PhD, Kirsten Tulchin-Francis PhD

SP180: Pediatric Gait Training at Home with a Robotic Knee Exoskeleton: Initial Feasibility and User Satisfaction from an Ongoing Interventional Trial

Thomas Bulea PhD, Noah Rubin, Afua Asante-Otoo MD, Katharine Alter MD, Diane Damiano PT, PhD

Posters

SP181: Changes in Cortical Activity after an Intensive Motor Skill Learning Intervention (HABIT-ILE) in Children with Bilateral Cerebral Palsy: An fNIRS-Based Approach

Natalia Perez, Daniela Ebner-Karestinos PhD, Rodrigo Araneda PhD

SP182: Referral and Clinical Practices for Speech Therapy in a Multidisciplinary CP Clinic

Helen Long PhD, CCC-SLP, Karen Romer BSN, Carlos Rivera-Peraza, David Spence MD, Stephanie Chen MD, Leslie Rhodes DNP, MBA, PPCNP-BC

SP183: Effect of Speech Modification Strategies on Intelligibility, Naturalness, and Listener Effort for Adolescents with Cerebral Palsy

Kristen Allison Ph.D., CCC-SLP

SP185: Can Artificial Intelligence (AI)-Based Video Analysis Differentiate Hand Postures During Grasp Tasks in Young Children? : A Pilot Study

Da Yeong Kim, Joon Hee Lee, Jong Yoon Chang, Tae Won Kim, Su Min Kim, Sunyoung Joo, Yong Hoe Koo, Seungwoo Cha, June-Goo Lee PhD, Eun Jae Ko MD. PhD.

SP186: Can Artificial Intelligence (AI)-Based Video Analysis Detect Sucking Pattern in Neonates and Infants?: A Pilot Study

Joon Hee Lee, Da Yeong Kim, Jong Yoon Chang, Ji Ae Kim, Jihey Chae, Su Min Kim, Garam Hong, Seungwoo Cha, Jihoon Kweon PhD, Eun Jae Ko MD. PhD.

SP188: BCI4kids: A Family-centered Brain-Computer Interface Clinical Research Program for Children with Severe Disabilities

Danette Rowley, Amy Wieler, Nicole Romanow, Barnfather Alison, Dion Kelly, Zeanna Jadavji, Erica Floreani, Daniel Comanduran Marquez, Eli Kinney-Lang, Adam Kirton

SP189: WE PLAY: Enhancing Pediatric Rehabilitation Through Family-Centered Virtual Reality Games Room

Tatiana Ogourtsova PhD OT

SP190: Investigating the Potential Relationship Between Emotion and Features of Eye-gaze in Youth with Severe Motor and Communication Impairment (SMCI).

Mackenzie Collins Hon. BAsC, T. Claire Davies PhD

SP191: Non-Invasive Measurement of Pulmonary Dysfunction in Children with Cerebral Palsy

Alice Taylor, M. Wade Shrader MD, Tariq Rahman, Jason Howard MD, Arianna Trionfo MD, Thomas Shaffer MS, PhD

SP192: Feasibility of an Adaptive Home Exergaming Mobile App with Augmented Reality to Promote Physical Activity in Children with Cerebral Palsy: Lessons Learned

Melissa Bent MD, Abigail Padilla BS, Susan Rethlefsen, Alison Hanson PT, Eva Ciccodicola DPT, Tishya Wren PhD

Posters

SP193: Understanding how a 12-week robotic walking intervention impacts the physical function of children living with mobility impairments: A single-arm mixed-methods interventional study

Jessica Youngblood MSc, Benjamin Norman MSc, Christa Diot MSc, PKin, Karin Eldred, Amanda Rande MS, Sean Dukelow PhD, Hana Alazem MSc PT, MD, Anna McCormick MD, Kelly Larkin-Kaiser PhD, Elizabeth Condliffe PhD, MD

SP194: Assessing the Accuracy of Different Tasks as Measures of Hand Dominance: A Motion Analysis Study

Alice Chu, Maansi Chalasani BS, Stephen Macneille BA, Amog Mysore, Abhiram Dawar

SP195: Parents' Perspectives on Therapeutic and Recreational Interactive Technology Use in Pediatric Rehabilitation

Audrey Ferron BS, Martin Lemay PhD, Danielle E. Levac PT, PhD

SP196: Skin Integrity after Placement of Wireless Movement Sensors in Infants Hospitalized in a Neonatal Intensive Care Unit

Janette Bell RN, Steven Guldborg BS, Raye-Ann deRegnier MD, Nicole Pouppirt MD, Aneta Jedraszko, Vanessa Rodriguez BA, Jaimie Cretella, Megan O'Brien PhD, John Rogers PhD

SP197: Exploring the Use of Interactive Technologies in Pediatric Occupational Therapy: Insights from a Provincial Survey

Lexie Lançon MscOT, Danielle E. Levac PT, PhD

SP198: Overground Robotic Walker Use in the Home and Community: A Six-month Prospective Cohort Study

Alicia Hilderley PhD, Christa Diot, Hua Shen, Sean Dukelow PhD, Kelly Larkin-Kaiser PhD, Elizabeth Condliffe PhD, MD

SP199: Feasibility of Tracking Progress in the First Three Months After Orthopedic Multi-level Surgery in Children with Cerebral Palsy

Amy Bailes PT PhD, Jillian Kreimer, Emma Austing, James McCarthy MD, Kelly Greve PT, DPT, PhD, Jason Long PhD, Ashley Moulder MS, Gina Rolle MS, Staci Thomas MS

SP200: Enhancing Speech and Arm Rehabilitation Outcomes in Cerebral Palsy through Gamified Multidisciplinary Interventions

Jigna Patel PT, MHS, PhD, Qinyin Qiu PhD, Hannah Shoval MD, Kermina David, Kristy Tam, Soha Saleh PhD, Young Hwa Chang PhD, CCC-SLP

SP201: Benefits of an Evidence Based High-Density Therapy Protocol for Children Diagnosed with Rare Diseases

Dory Wallace OTR/L, Mary Rebekah Trucks MS, OTR/L, Stephanie DeLuca PhD

SP202: Functional Abilities in Hereditary Spastic Paraparesis: Insights from the PEDI-CAT

Angela Shierk PhD, Robert Wimberly MD, Linsley Smith RN, Abigail Floerke, Michelle Christie MD

SP203: Exploring Multichannel Functional Electrical Stimulation during Task-Specific Activities in Outpatient Physical Therapy Practice

Kayleigh Pate DPT, Nora Ludwig, Kelly Greve PT, DPT, PhD

SP204: Analysis of Motor Function in Cerebral Palsy Complicated with Scoliosis

Qing Du PhD

Posters

SP205: Evaluating Outcomes: Parent and Therapist Perspectives on Intensive Group Therapy for Children and Youth with Cerebral Palsy

Amanda Sarafian EdD, OTR/L, Don Matthews MS, Lauren Armenti MS, OTR/L

SP207: Tracking Resilience: Short Term Changes After Orthopedic Multilevel Surgery in Five Children with Cerebral Palsy

Amy Bailes PT PhD, Emma Austing, Jillian Kreimer, James McCarthy MD, Kelly Greve PT, DPT, PhD, Jason Long PhD, Ashley Moulder MS, Gina Rolle MS, Staci Thomas MS

SP208: Mapping Resilience: Impact of CIMT on White Matter and Functional Goals in Children with Hemiplegic Cerebral Palsy

Kelly Greve PT, DPT, PhD, Jon Dudley PhD, Peixin Lu, Weihong Yuan PhD, Amy Bailes PT PhD, Brad Kurowski MD, MS, Jilda Vargus-Adams MD, MSc, Bruce Aronow PhD, Alexis Mitelpunkt

SP209: Hand-Arm Bimanual Intensive Therapy Including Lower Extremities modify abilities in functional domains in children with bilateral cerebral palsy

Daniela Ebner-Karestinos PhD, Natalia Perez, Rodrigo Araneda PhD

SP210: Demographic and Pre-operative Characteristics of Individuals Who Have Undergone Lumbosacral Ventral Dorsal Rhizotomy

Isle Graupman, Dylan Mann MD, Supreet Deshpande MD, Salma Noor MPH, Mo Chen, Robin McDonald MPT, Patrick Graupman MD, Peter Kim MD, PhD, Debbie Song MD, Linda Krach MD

SP211: Minimally-Invasive Interlaminar Approach for Selective Dorsal Rhizotomy: A Custom Approach for Each Patient

Neena Marupudi MD, MS, Lara Rostomian BA, MS, Geena Bommarito BS, Angeline Bowman MD, Erika Erlandson MD

SP212: Selective Dorsal Rhizotomy for Spastic Hemiplegia: Improved Functional Outcomes with Early Intervention

Geena Bommarito BS, Lara Rostomian BA, MS, Kristen Blatt PT, DPT, Erika Erlandson MD, Angeline Bowman MD, Jeffrey Leonard MD, Neena Marupudi MD, MS

SP213: Neurosurgical Treatments in Non-Ambulatory People with Cerebral Palsy: A Debate of Rhizotomy versus Intrathecal Baclofen

Neena Marupudi MD, MS, Brandon Rocque MD, Kristie Bjornson PT, MS, PhD, Charles Stevenson MD, Robert Bollo MD, Thomas Larrew MD, Manish Shah MD, Jeffrey Raskin MD, Nisha Gadgil MD, Jeffrey Leonard MD

SP214: Combined Dorsal / Ventral Rhizotomy for Spastic and Dystonic Quadriplegia: Early CPCHILD Outcomes

Joon Hyeok Choi, Marcella Ruppert-Gomez BA, Kristin Buxton MSN, Ann Morgan MSN, Nahyun Kim MD, Weston Northam MD

SP215: A Novel Model of Neuromuscular Contracture Reveals Pathological SMAD4 Signaling in Myotendon Drives Contracture Formation

Varun Arvind MD, PhD, Hui Zhang PhD, Peter Shyu, Edward Guo PhD, Joshua Hyman MD, Alice Huang PhD

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.