

2024 AACPDM ANNUAL MEETING FINAL PROGRAM



AACPDM



TRANSLATING
DISCOVERY **2024**
78TH ANNUAL MEETING
QUEBEC CITY, CANADA | OCTOBER 23-26

A CLINICAL RESEARCH STUDY FOR DYSKINESIA DUE TO CEREBRAL PALSY (DCP)



DO YOU HAVE A PATIENT WITH DYSKINESIA DUE TO CEREBRAL PALSY?

The Kinect-DCP Study is currently recruiting patients 6 to 70 years old with dyskinesia due to cerebral palsy (DCP). This study, sponsored by Neurocrine Biosciences, is determining the safety of the study drug valbenazine and its potential to improve involuntary movements due to CP. To learn more or refer a patient, visit the study website at KinectDCPResearchStudy.com.

Kinect
DCP STUDY

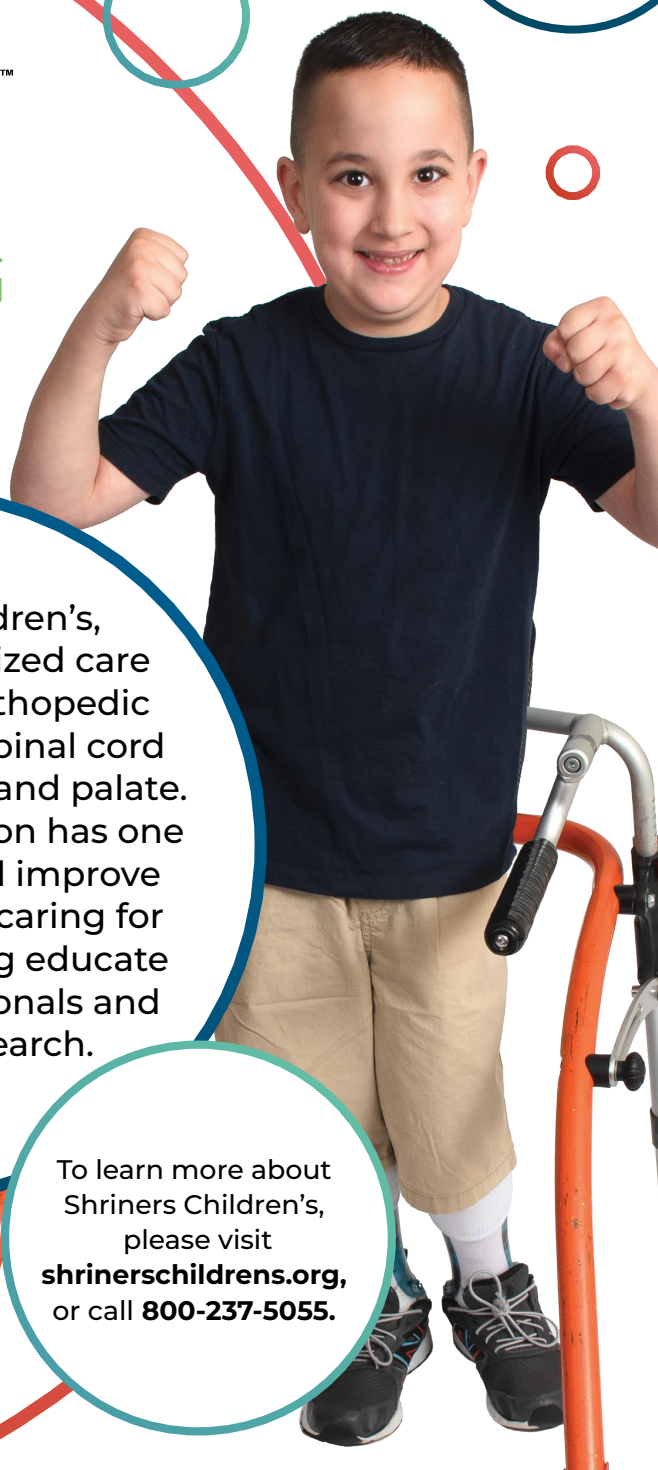


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Children's™

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AMAZING
CARE
anywhere™

At Shriners Children's, we provide specialized care to children with orthopedic conditions, burns, spinal cord injuries, and cleft lip and palate. Our three-part mission has one goal: to change and improve lives. We do this by caring for our patients, helping educate healthcare professionals and conducting research.

To learn more about Shriners Children's, please visit shrinerschildrens.org, or call **800-237-5055**.



Dear Institutional and Industry Professionals,

Bonjour! We are thrilled to welcome you to the American Academy for Cerebral Palsy and Developmental Medicine's (AAPDM) 78th Annual Meeting in the stunning city of Québec. The breadth and richness of the meeting content is impressive and inspiring and has been generated by so many of you – thank you! This year was a banner year for abstract submissions. The final program includes: 39 Morning Seminars, 39 Mini-Symposia, 130 Free Paper Presentations, 161 Scientific Posters, 45 Demonstration Posters, 17 Clinical Observation or Single Case Study Posters and 8 Preconference Sessions.

Our meeting theme is “Translating Discovery”, a concept that threads its way through many of the planned presentations and reveals discovery in its many phases from bench research to implementation science. We have a broad preconference agenda. Topics range from specific skill building, such as interpreting gait lab kinematics and developing behavioral management strategies, to much broader approaches, such as initiating a research program. Our keynote speakers have been carefully selected and are leaders in their fields. As always, we value community partnership, and the Community Forum, hosted by the [AAPDM Community Council](#), offers opportunities for individuals and families with lived experience to learn and participate during our annual conference.

We invite you to the Welcome Reception from 6-8pm on Wednesday, October 23 where we can all say hello and take a sneak peek at the poster presentations. Please join us as well for dinner as part of the Networking Gala at the Québec Armoury on Friday, October 25. The beautiful stone architecture and soaring ceilings in a venue classified as a National Historic Site will surely set the stage for an enjoyable evening. Most of all, it will provide a fantastic backdrop for spending time together and, of course, dancing.

“Translating Discovery” is elemental to our Academy, the fire in all of us. Our Academy celebrates the power of transdisciplinary collaboration and we come together across our various specialties, backgrounds and nationalities to drive the medical fields working on childhood onset disability forward. We all learn from one another. We hope that you discover something at the meeting that will inspire your next steps.



Laurie Glader, MD
1st Vice President



Vedant Kulkarni, MD, FAAOS, FAOA
Scientific Program Committee
Co-Chair



Sruthi P. Thomas, MD, PhD
Scientific Program Committee
Co-Chair



AACPDM

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Boston Children's Hospital
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Baylor College of Medicine
Texas Children's Hospital
Houston, TX

Robert Lane Wimberly, MD

Scottish Rite for Children
University of Texas Southwestern Medical Center
Dallas, TX



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American Academy
for Cerebral Palsy and
Developmental Medicine

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Tamara Wagester – Executive Director
Sarah Shier – Senior Meetings Manager
Mckenzie Morgan – Meetings Manager
Amanda Prendergast – Communications
Manager
Claire Lofald – Membership & Administrative
Coordinator

2024 Local Host

Emilie Croteau MD, PM&R

Future Annual Meetings

79th Annual Meeting

October 15-18, 2025
New Orleans Marriott
New Orleans, Louisiana

80th Annual Meeting

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

Meeting at a Glance

Wednesday, October 23, 2024	
8:00 AM – 9:00 AM	Committee Chair Training
9:00 AM – 10:00 AM	AACPDM All Committees Meeting
10:00 AM – 12:00 PM	Individual Committee Meetings
8:00 AM – 12:00 PM	Preconference Sessions PC1: An International Perspective on Technology Integration in Rehabilitation: Overcoming Barriers and Innovating Care <small>(TICKET)</small>
8:00 AM – 12:00 PM	PC2: Foot Deformities in Cerebral Palsy: A Comprehensive Approach <small>(TICKET)</small>
8:00 AM – 12:00 PM	PC3: HABIT-ILE Masterclass: Unveiling the Key Ingredients and Practical Implementation Needs for Children with Cerebral Palsy <small>(TICKET)</small>
8:00 AM – 12:00 PM	PC4: Transforming Your Early-Stage Research Program into an Established One <small>(TICKET)</small>
12:00 PM – 1:00 PM	Committee Chair/Board Lunch
1:00 PM – 5:00 PM	Board of Directors Meeting
1:00 PM – 5:00 PM	PC5: Learning to Read and Interpret Gait Lab Kinematics and Kinetics: Testing Your Skills <small>(TICKET)</small>
1:00 PM – 5:00 PM	PC6: Operationalizing the Black Box of Coaching: The Applied Coaching Tool <small>(TICKET)</small>
1:00 PM – 5:00 PM	PC7: Initiating a Research Program Focused on Cerebral Palsy or Other Child-Onset Developmental Disabilities <small>(TICKET)</small>
1:00 PM – 5:00 PM	PC8: Unlocking Solutions: Strategies for Managing Self-Injurious and Aggressive Behaviors in Pediatric and Adult Populations with Developmental and Intellectual Disabilities <small>(TICKET)</small>
5:30 PM – 6:00 PM	New Member and Early Career Welcome Reception
6:00 PM – 8:00 PM	Welcome Reception

Thursday, October 24, 2024	
7:00 AM – 8:00 AM	Breakfast in the Exhibit Hall
8:00 AM – 9:30 AM	Opening General Session • Opening Address • Gayle G. Arnold Lecture • Lifetime Achievement Award
9:45 AM – 10:45 AM	Morning Seminar (#1-13)
10:45 AM – 11:45 AM	Coffee Break and Exhibit/Poster Review *Posters with even numbers will be attended by their presenters during this time
11:45 AM – 12:45 PM	Lunch on own
12:45 PM – 2:15 PM	Free Paper Sessions A-D A: Care Delivery & Epidemiology B: Neuroscience C: Orthopaedics 1 D: Rehabilitation & Tone
2:30 PM – 4:00 PM	General Session • Corbett Ryan Pathways Pioneer Award • Gayle G. Arnold Award • Duncan Wyeth Award • AACPDM and Mac Keith Press Basic Science Lecture • Mentorship Award
4:15 PM – 6:15 PM	Mini Symposia (#1-13)
6:45 PM – 8:15 PM	Special Interest Groups (SIGs)
7:00 PM – 9:30 PM	Past Presidents Dinner

Friday, October 25, 2024	
7:00 AM – 8:00 AM	Breakfast in the Exhibit Hall
8:00 AM – 9:00 AM	Morning Seminars (#14-26)
9:15 AM – 10:15 AM	General Session • Presidential Guest Lecture
10:15 AM – 10:45 AM	Coffee Break in the Exhibit Hall
10:45 AM – 12:30 PM	Free Paper Sessions E-H E: Early Development 1 F: Lifespan & Equity G: Orthopaedics 2 H: Therapeutic Interventions
12:30 PM – 1:30 PM	Lunch on own
1:30 PM – 2:30 PM	Coffee Break and Exhibit/Poster Review *Posters with odd numbers will be attended by their presenters during this time
1:45 PM – 2:15 PM	International Scholar Highlight
2:30 PM – 4:30 PM	Mini Symposia (#14-26)
4:30 PM – 7:00 PM	Leisure Time
7:00 PM – 11:59 PM	Networking Gala <small>(TICKET)</small>

Meeting at a Glance, continued

Saturday, October 26, 2024	
7:00 AM – 8:00 AM	Breakfast in the Exhibit Hall
8:00 AM – 9:00 AM	Morning Seminars (#27-39)
8:15 AM – 3:00 PM	Community Forum
9:00 AM – 9:30 AM	Coffee Break in the Exhibit Hall
9:30 AM – 11:15 AM	Free Paper Sessions I-L I: Basic Science & Genetics J: Early Development 2 K: Mental Health, Pain, & Nutrition L: Participation & Gait Analysis
11:30 AM – 1:00 PM	Closing General Session • Chambers Family Lifespan Lecture • Awards • Lifeshots • Closing Remarks • 2025 Committee Introduction
1:00 PM – 2:00 PM	Lunch on own
2:00 PM – 4:00 PM	Mini Symposia (#27-39)
2:00 PM – 6:00 PM	Board of Directors Meeting



2023-2024 AACPDM Board of Directors

M. Wade Shrader, MD – President
 Laurie Glader, MD – First Vice President
 Theresa Sukal-Moulton, PT, DPT, PhD – Second Vice President
 Joline Brandenburg, MD – Treasurer
 Golda Milo-Manson, MHSc, MD, FRCPC – Secretary
 Lesley Pritchard, PT, PhD – Past President
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 Jeremy Bauer, MD – Director
 Colleen Peyton, PT, DPT – Director
 Robert Lane Wimberly, MD – Director
 Anna McCormick, MD, FRCP(C) – Director
 Nancy Murphy, MD – Director
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 Benjamin J. Shore, MD, MPH, FRCSC – Director
 Sruthi P. Thomas, MD, PhD – Director

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 Sruthi Thomas, MD, PhD
 Vedant Kulkarni, MD
 Theresa Sukal-Moulton, PT, DPT, PhD
 David Frumberg, MD
 Paige Church, MD
 Mercedes Ruiz Brunner, PhD
 Michelle R. Christie, MD
 Maurice G. Sholas, MD PhD
 Unoma Akamagwuna, MD
 Jill Heathcock, MPT PhD
 Edward Dabrowski, MD
 Desiree Maltais, PT, PhD
 Kelli Chaviano, DO
 Christos Papedis, PhD
 Heidi Haapala, MD
 Pooya Hosseinzadeh, MD
 Nancy Lennon, DPT, MS, PT
 Eric Chin, MD
 Siddharth Srivastava
 David M. Scher, MD
 Jill E. Larson, MD
 Rachel L. DiFazio, PhD, RN, PNP
 Lisa Letzkus, NP
 Kristie E. Malik, MD
 Amanda Sarafian, EdD, OTR/L
 Joslyn Gober, DO
 Cristina Sarmiento, MD
 Sonia Khurana, PT, PhD
 Saihari Dukkupati, PhD
 Corinna Bauer, PhD
 Laura Gilbert, DO, MBA
 Ahlam Zidan, MSc. PT, PhD (c)
 Meghan Munger, PhD, MPH

Ex-Officio Board Members

Angela Harris – Community Council Chair
 Jilda N. Vargus-Adams, MD, MSc – Care Pathways Chair
 Julieanne Sees, DO, MBA, FAOAO, FAOA – Webmaster
 William L. Oppenheim, MD – Historian
 Tamara Wagester – Executive Director



NEW

AACPDM  **Emerging Leaders Program**

The **AACPDM Emerging Leaders Program** offers early career members an opportunity to develop leadership skills within the AACPDM by participating in:

- Monthly educational sessions and informal drop-in sessions with AACPDM leaders
- Committee participation, specifically the Scientific Program Committee and grant review participation
- Acknowledgement during the Annual Meeting

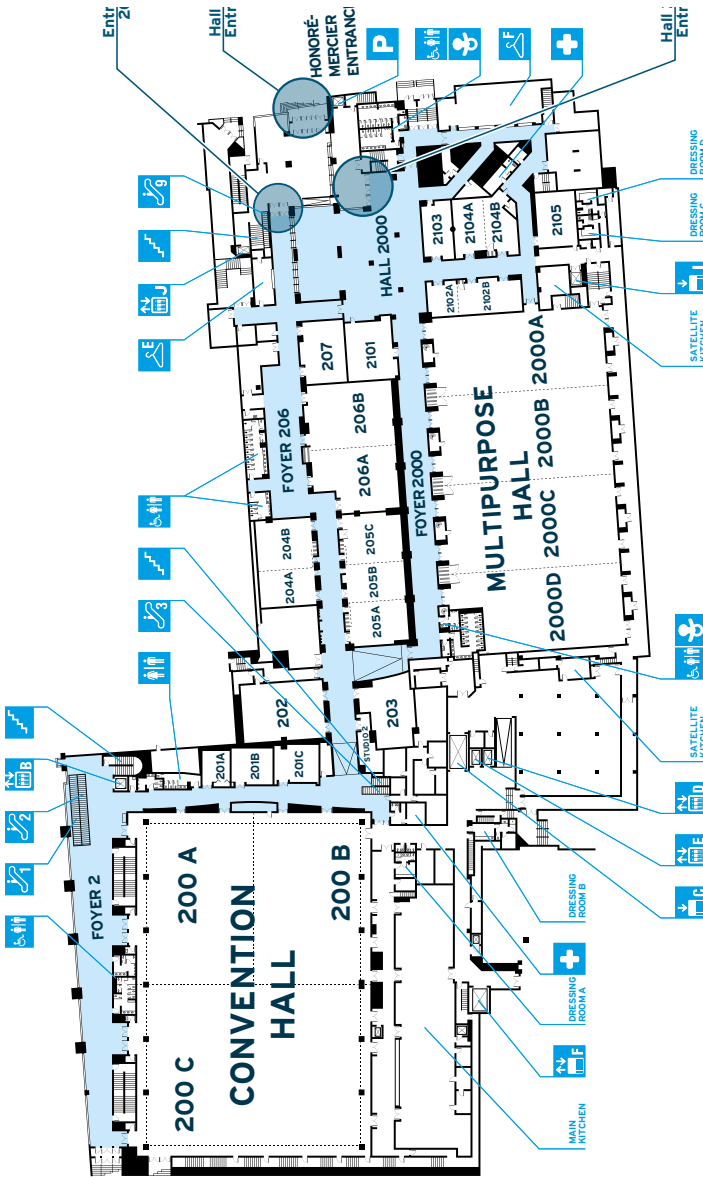
More info Coming Soon!
aacpdm.org

AACPDm Past and Future Presidents

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

Quebec City Convention Center Floor Plans

Level 2



LEGEND

	ACCESSIBILITY		ELEVATOR		RAMP		PRIORITY		RESTROOM
	ACCESSIBILITY		ELEVATOR		RAMP		PRIORITY		RESTROOM
	ACCESSIBILITY		ELEVATOR		RAMP		PRIORITY		RESTROOM
	ACCESSIBILITY		ELEVATOR		RAMP		PRIORITY		RESTROOM
	ACCESSIBILITY		ELEVATOR		RAMP		PRIORITY		RESTROOM

CONVENTION

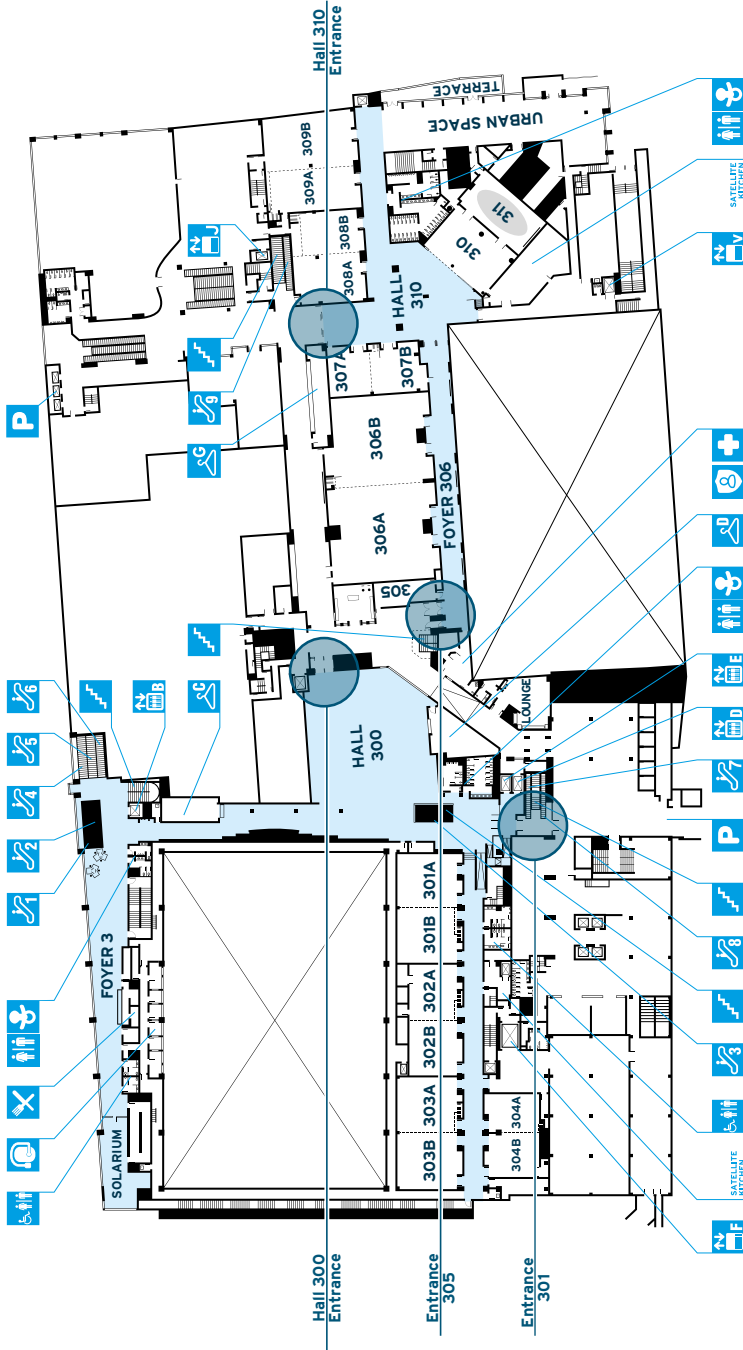
- SATELLITE KITCHEN**
- DRESSING ROOM**
- ELEVATOR**
- RAMP**
- PRIORITY**
- RESTROOM**

ACCESSIBILITY

- ELEVATOR**
- RAMP**
- PRIORITY**
- RESTROOM**

Quebec City Convention Center Floor Plans

Level 3



Make the Most of Your Conference Experience with the **AACPDM Events Mobile App!**

Take Notes | Create & Share Schedules | View e-Posters | Download Handouts | Maps

1. Download the AACPDM Events App



Scan the QR Code or go to the Apple App Store or Google Play and search for **AACPDM Events**.



App Icon

Install and **open** the event app.

Find your event in the Upcoming Events (bottom row).

Tap the event icon to launch your event's app.



Event Icon

2. Login to the App

To start using your event app, select **“Create Account”** and enter the event code **AACPDM2024**. Then, type your name and email address.

If you already have an account, select **“Login”** and enter your username (your email) and password.

3. App Tips

Download the app before you go! Wi-Fi connection on-site can affect the functionality of the app.

*Please note: if you still have the app downloaded on your device from a previous year, we recommend you delete it and redownload it to avoid glitches.

Browse the event information and create a personal schedule by tapping on the star next to presentation titles. Once starred, you will find it in the “My Schedule” tile on the app.

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: 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

Online Self-Reporting System Information for CME/CEU/CE Credits

After the AACPDM 78th Annual Meeting, all registrants will receive an instructional email about reporting and printing out their own continuing education certificates. The online self-reporting will be open by no later than November 2024. To verify your correct email address, please visit the registration desk before you leave the meeting. Please note: In self-reporting, if you miss more than 15 minutes of a session/course, it is not considered full attendance, and cannot be claimed.

CERTIFICATE OF ATTENDANCE

All attendees may claim a Certificate of Attendance.

ACCREDITATION STATEMENT



JOINTLY ACCREDITED PROVIDER
ACCREDITED BY ACCME, ACPE, ANCC

In support of improving patient care, this activity has been planned and implemented by Amedco LLC and American Academy for Cerebral Palsy and Developmental Medicine. Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Amedco Joint Accreditation Provider Number: 4008163

PHYSICIANS (ACCME) CREDIT DESIGNATION

Amedco LLC designates this live activity for a maximum of 27.50 AMA PRA Category 1 Credits™ for physicians.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

TEXAS PHYSICAL THERAPY

This activity has been submitted for review. States with reciprocity with Texas Physical Therapy Association: AL, AK, AZ, CT, DE, GA, HI, ID, IN, IA, KS, KY, LA, ME, MA, MI, MN, MS, NE, NH, NC, ND, OR, PA, RI, SC, SD, TN, UT, VT, VA, WA, WI, WY

PHYSICAL THERAPISTS / PHYSICAL THERAPY ASSISTANTS

PHYSICAL THERAPY BOARD OF CALIFORNIA
The American Academy for Cerebral Palsy and Developmental Medicine is recognized as an Approval Agency by the Physical Therapy Board of California.

OCCUPATIONAL THERAPISTS / OCCUPATIONAL THERAPY ASSISTANTS

The American Academy for Cerebral Palsy and Developmental Medicine is an Approved Provider of Continuing Education by the American Occupational Therapy Association (AOTA) #6379.

Note: The assignment of AOTA CEUs does not imply endorsement of specific course content, products, or clinical procedures by AOTA.

Category 1: Domain of OT

Category 2: Occupational Therapy Process

Category 3: Professional Issues

NURSING CREDITS

The American Academy for Cerebral Palsy and Developmental Medicine (AACPDM) is a Provider approved by the California Board of Registered Nursing, Provider # CEP 14720. Please note that one continuing education unit (CEU) is equal to 10 continuing education contact hours. Register the number of hours you spent in total in the AACPDM 2024 Annual Meeting courses. For example - If you spent 20 hours in the AACPDM courses, this equals 2 CEUs.

AMERICAN SPEECH-LANGUAGE-HEARING
ASSOCIATION

Speech

Pathologists/



ASHA CE
APPROVED PROVIDER

LSVT Global

Various Level
2.5 ASHA CEUs

CSD Students/SLP Assistants: The American Academy for Cerebral Palsy and Developmental Medicine (AAPDM) formed a cooperative agreement with LSVT Global. LSVT Global is approved by the Continuing Education Board of the American Speech- Language-Hearing Association (ASHA) to provide continuing education activities in speech-language pathology and audiology.

This activity has been submitted for review.

Don't forget to vote for your favorite

LifeShot!

Scan the QR code to download our mobile app and vote for your favorite LifeShot by Friday, October 25th at 6:00pm EDT.

One submission per person.

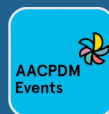


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American Academy
for Cerebral Palsy and
Developmental Medicine

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, self-paced 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 mission of the Academy is to promote excellence in research for the benefit of persons with cerebral palsy and childhood-onset disabilities. One way in which the Academy promotes research is through annual Research Grants. Historically, the AACPDM has partnered with the Pedal with Pete Foundation, and the Center for Progress to fund multiple grants, up to \$25,000 USD each! Areas of research should focus on topics related to cerebral palsy. AACPDM is excited to announce in 2024 that the grant awards will be up to \$30,000 USD.

▶ [Join or Renew Today!](#) ◀

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.

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 AACPDM 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

UCP UNITED
Life without limits for people with disabilities™

- Pediatric Therapy
- Assistive Technology
- Early Intervention
- Education
- Resource & Referral
- Home & Community Based Services
- Adult Services
- Advocacy

Celebrating 75 Years
Providing vital programs and services to the disability community since 1949.

Find an affiliate  ucp.org

Thank you to our Committees and Councils

Committee/Council	CHAIR
Adapted Sports & Recreation	Susan V. Duff, EdD, MPT, OT/L, CHT
Advocacy	Lauren Fetsko, DO
Awards	Michelle R. Christie, MD
Communications	Mercedes Ruiz Brunner, PhD
Complex Care	Kristie E. Malik, MD
Education	Maurice G. Sholas, MD, PhD
International Affairs	Marcin J. Bonikowski, MD, PhD
Lifespan Care	Unoma Akamagwuna, MD
Membership	Kathryn Sigford, MD
Publications	Unni G. Narayanan, MBBS, MSc, FRCS(C)
Research	Jill Heathcock, MPT, PhD
Nominating	Lesley Pritchard, PT, PhD
Scientific Program	Vedant Kulkarni, MD and Sruthi P. Thomas, MD, PhD
Community Council	Angela Harris
Care Pathways Council	Jilda N. Vargus-Adams, MD, MSc

THANK YOU!

Join an AACPDM Special Interest Group (SIG)

SIGs offer additional benefits for Academy members, such as access to subject-specific information and resources, educational opportunities, networking with like-minded peers, and volunteer leadership opportunities.

What SIGs does AACPDM offer?

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



Visit www.aacpdm.org/about-us/aacpdm-special-interest-groups-sigs for more information!

EXPLORE

Quebec City

AACPDM



AACPDM “LET’S MOVE” SCAVENGER HUNT

Participate for the chance to win a \$50
Amazon gift card!



Explore

Visit any of the locations listed below. Take a photo at the location, and be sure to show your AACPDM meeting badge or program.



Post on Social Media

Post **at least three photos** on social media using the **#AACPDMD2024** to qualify. Photos must be posted online between October 23 - 26, 2024.



Win!

Three winners will be selected and announced via social media after the meeting.

Locations

- D'un lieu à l'autre (From One Place to the Other, Chantal Séguin) - Convention Center
- A Fortifications of Québec Stone Walkway
- Fontaine de Tourny
- Plains of Abraham
- Quatuor d'airain (The Bronze Quartet, Lucienne Payan-Cornet)
- Umbrella Alley
- The Armory
- Parliament Hill
- Notre-Dame de Québec Basilica-Cathedral
- Annual Meeting Exhibit Hall Archway - Convention Center
- Annual Meeting Registration Desk - Convention Center
- In front of the Convention Center
- In front of any AACPDM Annual Meeting signage - Convention Center

TRANSLATING
DISCOVERY 2024
78TH ANNUAL MEETING
QUEBEC CITY, CANADA | OCTOBER 23-26

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#AACPDMD2024



Must be an AACPDM Annual Meeting attendee to win!

Registration

Annual Meeting registration will be open online through October 21, 2024.

E-Poster

An E-Poster is an electronic version of the traditional paper poster in PowerPoint format, and is displayed on a personal device using the 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. There will be computer kiosks throughout the Quebec City Convention Center dedicated to E-Posters. Thank you to all the Poster Presenters who took on the extra work to participate in the Poster Preview and/or to submit 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.

SESSION EVALUATIONS

We need your feedback! As a dedicated attendee of the AACPDM 78th 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 78th Annual Meeting in the following ways:

- Participants will be asked to provide input on the educational program of the AACPDM 78th Annual Meeting through the online CME /CEU Claim System when claiming credit for participation.
- New this year, participants will also get the chance to offer presenter feedback directly through the mobile app. Please note- this is not CME related and will only be used for consideration of program planning/ speaker planning in future years.

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 aids 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.

Insurance/Liabilities and Disclaimer

The AACPDM 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 AACPDM 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 Free Papers and Posters are underlined. All corresponding authors were responsible for querying the co-authors regarding the disclosure of their work. The AACPDM 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.

Registration Hours

Tuesday, October 22	4:00 PM - 6:00 PM
Wednesday, October 23	7:00 AM - 8:00 PM
Thursday, October 24	7:00 AM - 4:30 PM
Friday, October 25	7:00 AM - 4:30 PM
Saturday, October 26	7:00 AM - 12:00 PM

Registration will be located on the 3rd floor (Hall 300).

Speaker Ready Hours

Wednesday, October 23	10:00 AM - 2:30 PM
Thursday, October 24	7:00 AM - 2:30 PM
Friday, October 25	7:00 AM - 2:00 PM
Saturday, October 26	7:00 AM - 11:00 AM

The Speaker Ready Room is located in room 201C - there will be a technician available during designated hours to assist.

2024 Scientific Program Overview

This year's program was developed from a submission total of 650 abstracts. All electronically submitted abstracts were independently rated by the multidisciplinary scientific program committee of 34 members. The committee met in March 2024 to review the abstracts and finalize the program (e.g. Scientific poster or free paper, demonstration poster, clinical observation or single case study posters). Scientific posters and free papers 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. Mini Symposia 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 2024 program includes:

- 8 Pre-Conference Sessions
- 39 Morning Seminars
- 39 Mini Symposia
- 130 Scientific Papers
- 161 Scientific Posters
- 45 Demonstration Posters
- 17 Clinical Observation/Single Case Study

Scientific Review Process

- Blinded abstracts submitted electronically
- Abstracts are scored independently by 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 the program is balanced in content.

Free Papers and Posters are rated on:

- Research Question/Objectives
- Research Design, Methodology
- Impact, Relevance & Importance

Mini Symposia are rated on:

- Course Objective
- Content/Presenters
- Impact, Relevance & Importance

Morning Seminars are rated on:

- Course Objective
- Content/Presenters
- Impact, Relevance & Importance

Scholarships

The American Academy for Cerebral Palsy and Developmental Medicine Scholarship Program supports the vision of the AACPDM to advance the health and well-being of all individuals with cerebral palsy and other childhood-onset disabilities. The Academy seeks applications from North America and internationally 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 students each year so that they may attend the Annual Meeting.

Grant Awards

A key mission of the Academy is to promote excellence in research for the benefit of persons with cerebral palsy and childhood-onset disabilities. One way in which the Academy promotes research is through the annual Research Grants. Historically, the AACPDM has partnered with the Pedal with Pete Foundation, and the Center for Progress to fund multiple grants, up to \$30,000 USD each! Areas of research should focus on topics related to cerebral palsy. Research grant funding supports high-quality, clinical research projects/programs. The award may be used to fund planning for a project or to complete a small research project of high impact in any area relevant to the AACPDM's mission. The successful applicant will have a solid track record in childhood-onset disability research. The Principal Investigator on the grant must be an AACPDM member in good standing. Only one grant application per member will be considered in a given budget year.

General Session Speakers

Gayle G. Arnold Lecture: Thinking Big for Disability Inclusion in Healthcare Thursday, October 24

Jennifer Arnold, MD, MSc



Dr. Jennifer Arnold is a pediatrician, neonatologist, and healthcare simulation leader at Boston Children's Hospital. A native of St. Petersburg, FL, Arnold received her undergraduate

degrees in biology and psychology from the University of Miami. She completed her medical degree at Johns Hopkins School of Medicine in 2000 and attended a pediatric residency program at the University of Pittsburgh School of Medicine and the Children's Hospital of Pittsburgh in 2003. Arnold was a National Institutes of Health postdoctoral scholar at the University of Pittsburgh's Safar Center for Resuscitative Medicine from 2006 to 2007. During her fellowship in neonatology at the University of Pittsburgh Medical Center and Magee-Women's Hospital, she also pursued a Master of Science in medical education, graduating in 2009.

A founding director of the simulation centers at both Texas Children's Hospital and Johns Hopkins All Children's Hospital, Dr. Arnold has a passion for innovating the application of healthcare simulation as a patient safety tool. Since 2022, she has served as program director for the Immersive Design Systems at Boston Children's Hospital, the primary pediatric teaching hospital for Harvard Medical School. She also hosts the hospital's "Boston Children's Answers Parentcast Podcast."

Dr. Arnold's passion is to advocate for pediatric healthcare and raising awareness for individuals with disabilities. Dr. Arnold has a rare type of dwarfism called Spondyloepiphyseal Dysplasia Type Strudwick (which involved more than 30 orthopedic surgeries). She is a 10-year cancer survivor. Not only does she have a disability and has personally overcome extraordinary

physical and health obstacles, but she is the mother of two kids with medical complexities, both with skeletal dysplasia. With her husband, Bill Klein, and their two children, they were featured on TLC's docuseries "The Little Couple," an unscripted program that provided a window into the family's personal and professional lives.

AACPDM and Mac Keith Press Basic Science Lecture: Deep Brain Stimulation for Neurological and Neurodevelopmental Disorders in Children Thursday, October 24

George Ibrahim, MD, PhD, FRCSC, FAANS



Dr. George Ibrahim is a pediatric neurosurgeon and the Abe Bresver Chair in Functional Neurosurgery at the Hospital for Sick Children. He is an Associate Professor at the Institute of Biomaterials

and Biomedical Engineering, the Institute of Medical Sciences and the Department of Surgery at the University of Toronto. He is also a Senior Scientist in the Neurosciences and Mental Health program as the SickKids Research Institute.

His clinical and research interests include the surgical treatment of medically intractable epilepsy, spasticity and movement disorders in children. He plays a leading role in the comprehensive epilepsy, dorsal rhizotomy and deep brain stimulation programs at SickKids. His research lab is dedicated to the study of neural networks in children with epilepsy and neurodevelopmental disorders through a combination of connectomic, computational neuroscience and machine learning approaches. He also leads several novel, translational clinical trials of neuromodulation in children. His work has been published in over 250 peer-reviewed journals and is funded by several organizations, including the Canadian Institutes of Health Research. Dr. Ibrahim received several awards and recognitions including being named as one of Canada's Top 40 under 40 in 2019.

General Session Speakers

Presidential Guest Lecture: Do We Need a New Definition of Cerebral Palsy? Friday, October 25

Bernard Dan, MD, PhD



Bernard Dan, is a neurologist, pediatric neurologist and rehabilitation specialist at Inkendaal Rehabilitation Hospital near Brussels, Belgium, professor of neuroscience and

developmental psychology at the Université libre de Bruxelles, chair of the European Academy of Childhood-onset Disability, and Editor-in-Chief of the AACPDM official journal *Developmental Medicine and Child Neurology*. He is fellow of the Royal College of Physicians (London), ordinary member of the Académie royale de Médecine de Belgique, and commander of the Order of Leopold (Belgium). His clinical and research interest includes cerebral palsy, neurogenetic conditions and neurophysiology. He received a number of national and international awards, including the John Stobo Prichard Award and the Elsass Prize. He authored over 300 journal articles and several reference books on childhood disability (including *Cerebral Palsy: Science and Clinical Practice*) and on bioethics. He served as scientific curator for several art exhibitions relating to disability and authored novels and short stories.

Michael Kruer, MD



Michael Kruer is a pediatric movement disorders neurologist and human geneticist. He serves as an Associate Professor of Child Health, Genetics, Neurology and Cellular & Molecular

Medicine at the University of Arizona College of Medicine – Phoenix. He also serves as director of the Pediatric Movement Disorders Program at the Barrow Neurological Institute, Phoenix Children's Hospital. Michael's lab is dedicated to understanding how genetic mutations lead to both common (cerebral palsy) and rare movement disorders in children and how genetics can serve as a springboard to improvements in both diagnosis and treatment. Work in his lab is highly multidisciplinary and connects genomics, phenomics, stakeholder engagement, and molecular and cellular neuroscience. Michael's research has been supported by numerous public and private foundations, philanthropy, industry collaborations, and federal grants, and his work has appeared in highly respected publications including the *American Journal of Human Genetics*, *Annals of Neurology*, *Brain*, *Pediatrics*, *Neurology* and *Nature Genetics*. The Kruer lab is currently leading an NIH-funded genomics initiative within the Cerebral Palsy Research Network (a nationwide collaborative of cerebral palsy centers of excellence) that leverages a self-contained electronic iConsent platform to facilitate network-wide data-sharing for genetic discovery in CP.

General Session Speakers

Lynne Fogel



Lynne Fogel is a parent and past-chair of the AACPDM Community Council. She lives in Blacklick, Ohio, with her husband and two daughters, and works for the Ohio Department of Health as a Parent Consultant. For more than twenty years, Lynne has been a peer mentor and family supporter to others living with a diagnosis of Cerebral Palsy - beginning in 2002 when her daughter with CP was 2 years old, by starting a parent support group for CP in Columbus, OH. She has been a supporter and representative of Pedal with Pete, a Columbus-based organization that funds CP research, and currently serves on the Community Engagement Committee of the CP Research Network. Lynne was a hub team member/family representative for the first CP ECHO series at Nationwide Childrens' Hospital, and is happy to lend a voice of lived experience wherever it will inform the work of people whose job involves improving the lives of people with CP and other disabilities.

Wade M. Shrader, MD



Dr. Wade Shrader is Division Chief and The Freeman Miller Endowed Chair of Cerebral Palsy at the Nemours A.I. duPont Hospital for Children in Wilmington, DE, where he focuses his practice on the treatment of children with cerebral palsy and similar developmental disabilities. He is also the Medical Director for the A.I. duPont Hospital Gait and Motion Analysis Laboratory, and a Professor of Orthopedic Surgery and Pediatrics at the Sidney Kimmel Medical College at Thomas Jefferson University. His undergraduate degree was in aerospace engineering from Mississippi State University, and he worked as a flight engineer at NASA before entering medical school. He is a graduate of the University of Chicago Pritzker School of Medicine. He completed his residency in orthopedic surgery at the Mayo Clinic and his fellowship in pediatric orthopedics and scoliosis at the Texas Scottish Rite Hospital for Children in Dallas, Texas. Dr. Shrader's professional associations include: • American Academy of Cerebral Palsy and Developmental Medicine • Gait and Clinical Movement Analysis Society • Pediatric Orthopedic Society of North America • Scoliosis Research Society • American Orthopedic Association • American Academy of Orthopedic Surgeons • American Academy of Pediatrics He is an active member of the AACPDM since 2007, serving on the Advocacy Committee, Lifespan Committee (Chair), Scientific Program Committees (Co-Chair 2014), Nominating Committee, and the International Affairs Committee. He also has served AACPDM on the Board of Directors. His current research efforts have been investigating pain, hip conditions, gait disorders, and family dynamics of children with special health care needs. Wade is married to Carol, and they are the proud parents of four children, two of whom have cerebral palsy.

General Session Speakers

Chambers Family Lifespan Lecture: Embedding Lived Experience to Advance Research and Healthcare Saturday, October 26

Andrea Cross, PhD



Dr. Andrea Cross (she/her) is an Assistant Professor in the Department of Pediatrics at McMaster University.

Dr. Cross graduated in 2011 from Wilfrid Laurier University with a Master's

of Science in Kinesiology and in 2018 with a PhD in Rehabilitation Science from McMaster University. Patient-Oriented Research (POR) and Implementation Science are foundational to her program of research.

During her post-doctoral fellowship, Dr. Cross co-led the development of three large implementation science/POR Programs at CanChild Centre for Childhood Disability Research, including the Family Engagement in Research (FER) Training Program, the F-words for Child Development Knowledge Translation and Research Program, and the ENVISAGE Program. Her research aims to use implementation science to support the dissemination and implementation of family-centred and family-engaged best practices in the field of neurodevelopmental disability and across the lifespan.

Dr. Cross currently holds a Canadian Institutes of Health Research Patient-Oriented Research Transition to Leadership Award (2020 – 2027). Dr. Cross also teaches in the School of Rehabilitation Science and is an executive committee member of McMaster's Master of Health Management Program.

Francine Rabbito Buchanan, MLIS, PhD



Dr. Francine Buchanan is the Senior Manager, Patient, Family & Community Engagement at The Hospital for Sick Children (Ontario, Canada) and the Ontario Child Health Support Unit

(OCHSU). In this role, Dr. Buchanan supports a Patient-Centred Health Care philosophy by ensuring patients and families can partner with the healthcare system to co-create a future for children's health care that reflects their lived experiences. Her goal is to ensure patient, family and community voices are key drivers for change in healthcare.

Dr. Buchanan is a sought-after speaker and storyteller on the value and methods of including patients of all ages and family perspective in health system design and research. Her research and teaching interests include Patient Engagement, Shared Decisions-Making, Co-Design and Patient-Oriented Research Methods. She brings a diverse background of skills and experience to her work, as a parent to a child with complex healthcare needs, a health researcher, a parent research partner, and a former strategy consultant. Her educational background includes an Honours Bachelor of Arts in English and Philosophy from McMaster University, a Masters in Library and Information Science from the University of Western Ontario and a PhD in Health Services Research from the Institute of Health Policy, Management and Evaluation, University of Toronto. She also holds an academic appointment as an Assistant Professor at the Institute of Health Policy, Management and Evaluation (IHPME) at the University of Toronto.



AACPDM 2024 Community Forum

The AACPDM Community Council developed an educational event as a resource for people with childhood-onset disabilities and their caregivers.

Saturday, October 26, 2024

Registration opens at 8:15 am

The Forum is held from 9:00 am to 3:00 pm

Quebec City Convention Centre

1000 Bd René-Lévesque E, Québec, QC G1R 5T8, Canada

Schedule:

8:15 am - 9:00 am: Registration

9:15 am. – 10:00 am: Sleep Struggles & Cerebral Palsy

Learn about the types of sleep issues that arise for individuals with cerebral palsy and other neurodevelopment disabilities, including how these sleep issues can be managed, treated, & prevented.

Presenter: Dr. Golda Milo-Manson

10:00 am – 11:00 am: Choose Your Intervention

Evaluation of clinical care, public health, and social programs is essential to determining the path and needs of individuals with CP and other childhood-onset disabilities.

Presenter: Dr. Ronit Mesterman

11:00 am - 12:00 pm: Inspiring Participation - Adapted Sports & Recreation

Highlights of different forms of participation in Adapted Sports & Recreation from various speakers.

Presenters: Dr. Karli Bourque; Sabrina Duchesne; Joshua Koshuba; Marie-Dominique Boivin

12:00 pm - 1:00 pm: Lunch Break

1:00 pm - 2:00 pm: Dystonia Care Pathway

What is Dystonia? Why is it important? How can we diagnose it? What are the daily impacts? Includes an overview of the new AACPDM Dystonia Care Pathway.

Presenters: Dr. Darcy Fehlings; Dr. Bhooma Aravamathan, Angi Harris, Brenda Agnew

2:00 pm - 2:30 pm: Genomics Update 2024

Addresses the role of genetic findings in CP diagnosis and treatment.

Presenter: Dr. Michael Krueer

2:30 pm - 3:00 pm: A Psychiatrist For Life

An overview of the role of psychiatry across the lifespan of a person with CP or other childhood-onset disability.

Presenter: Dr. Emilie Croteau



REGISTER NOW



The Community Forum provides an opportunity to hear experts discuss issues affecting children and adults, and to learn about new research, medical advances, and topics that promote inclusion, participation, and impact the quality of life for those with cerebral palsy.

The Community Forum is open to the public, but event registration is required. Register today!

www.aacpdm.org/events/2024/program/community-forum

About the AACPDM Community Council

The purpose of the AACPDM Community Council is to provide the voice of various stakeholders to enhance the AACPDM's mission, with the goal of creating greater opportunities to collaborate on health, wellness, and service for those with cerebral palsy and other childhood-onset disabilities.

For more information, visit
www.aacpdm.org/events/2024/program/community-forum

Translation services will be available.

AACPDM Community Awards

AACPDM offers several awards each year to honor the accomplishments of the outstanding members who make up our growing Academy. These awards are an opportunity to formally and publically recognize professionals who have made a significant contribution to the field of developmental medicine.

FRED P. SAGE AWARD 2024 Recipient: Rachel Teplicky

F-words Foundations Course (online)

The Fred P. Sage Award is given to the best multimedia submission presenting clinical, research, or educational material in a digital format. This award is named after Fred P. Sage, MD, who was the Past President (1981) and Chairman of the A/V Committee of the AACPDM. Dr. Sage recognized the significant potential of audiovisual use in the Academy and advocated for ways to popularize this teaching method.

MENTORSHIP AWARD 2024 Recipient: Diane Damiano, PhD, FAPTA

National Institutes of Health (NIH)

The Mentorship Award recognizes an individual who has demonstrated outstanding leadership for trainees and colleagues in the field of cerebral palsy and other developmental disabilities.

Diane L. Damiano, PhD, FAPTA is a Senior Investigator and Chief of the Neurorehabilitation and Biomechanics Research Section at the National Institutes of Health. Her research focuses on the design of device-augmented interventions to promote mobility and neuroplasticity in infants and children with cerebral palsy. She pioneered the use of mobile brain imaging technologies to evaluate cortical activity during functional motor tasks and for neurofeedback training. She has over 150 peer-reviewed publications, is an Associate Editor of Neurorehabilitation and Neural Repair, Past President of the Gait and Clinical Movement Analysis Society and Past President of the AACPDM and the first physical therapist to serve in that role.

CORBETT RYAN PATHWAYS PIONEER AWARD

2024 Recipient: Jorge Alfaro

This award is presented to an individual who represents excellence in pursuit of and quality of life who also lives with a personal physical challenge. The recipient excels at:

- Motivation and achievement in pursuing and accomplishing personal and vocational/professional goals,
- Demonstration of a creative approach to their pursuit of education and participation in their vocation/profession,
- Example of a positive approach to life,
- Service as a role model to persons in their sphere of influence, demonstrating sensitivity to others and respect for self.

DUNCAN WYETH AWARD 2024 Recipient: Sabrina Duchesne

This award is presented to an individual who demonstrates outstanding participation in or promotion of sports and recreation and serves as a role model for people with disabilities. The award is named after Mr. Duncan Wyeth for his passion for life and for encouraging people with disabilities of all ages to pursue interests and dreams based on their abilities and not to be limited by their disabilities. Duncan is an active advocate in his local community, nationally and internationally.

LIFETIME ACHIEVEMENT AWARD 2024 Recipient: Darcy Fehlings, MD, MSc, FRCPC

This award is presented to a special presidential guest lecturer selected by the First Vice President. During their lifetime, the recipient of this award has made creative contributions of outstanding significance to the field of medicine and for the benefit of patients with cerebral palsy and other childhood-onset disabilities.

2024 Annual Meeting Abstract Submission Awards

The following awards are associated with an Annual Meeting abstract submission and are determined at the time of the Annual Meeting.

PROMISING CAREER AWARD

2024 Recipient: To Be Announced

The Promising Career Award awards the best Free Paper or Scientific Poster to authors who have completed their training and commenced their current career within four years. The recipient must be a member of the AACPDM or have an application pending. The Awards Committee selects the recipient on-site and presents the award after the Annual Meeting.

SOUTHERN FAMILY CEREBRAL PALSY CENTER BEST ADULT PAPER AWARD

2024 Recipient: To Be Announced

Award is given to the highest-ranked free paper involving adult participants with CP or other childhood-onset disabilities.

GAYLE G. ARNOLD AWARD FOR THE BEST SCIENTIFIC PAPER

2024 Recipient: To Be Announced

The 2024 Gayle G. Arnold Award is selected from a set of abstracts by the Awards Committee. Then the authors are invited to submit a manuscript for final judging. The editors of Developmental Medicine and Child Neurology Journal request to have first option on publication of this winning paper, as long as the authors comply with the publishing requirements of Mac Keith Press.

BEST SCIENTIFIC POSTER AWARD

2024 Recipient: To Be Announced

Every year, the AACPDM awards the Best Scientific Poster Award to the highest-rated poster as selected by the Awards Committee members.

BEST DEMONSTRATION POSTER AWARD

2024 Recipient: To Be Announced

The AACPDM awards the Best Demonstration Poster Award. The award recipient is selected by popular vote during the Annual Meeting.

COMPLEX CARE EARLY CAREER AWARD

2024 Recipient: To Be Announced

This award is presented to a lead early career investigator for their research project focused on complex care of childhood-onset disabilities.



Transformative Practice Award

AACPDM and United Cerebral Palsy are proud to fund the **Transformative Practice Award**, which aims to enhance the capacity of service providers to apply evidence-based clinical strategies/service delivery approaches into practice.

As an AACPDM member, benefit from professional connections within the academy to enhance services for people with childhood-onset disability in your community.



Visit www.aacpdm.org/professional-opportunities/scholarships to learn more about this and other AACPDM funding opportunities.

Need some support finding an expert?
Email info@aacpdm.org.



AACPDM

Scholarship Winners

Thanks to the American Academy for Cerebral Palsy and Developmental Medicine, our donors, partners, and corporate sponsors, the AACPDM is pleased to provide Annual Meeting Scholarships to AACPDM members. Every year, we offer three types of scholarships for the Annual Meeting, namely International, Student, and OrthoPediatrics®

International Travel Scholarship Winners

Sivakumar Gopalakrishnan, PhD

Fenna Walhain, PhD

Hercules Ribeiro Leite, PhD

Silvana Alves Pereira, PhD

OrthoPediatrics Scholarship Winners

Selamenesh Tsige Legas, MD

Lennert R. Plasschaert, MD

Elizabeth Maus, PT

Hidayet Cuha, PT, MSc, PhD (c)

Lauren Misik, MD

Micah G. Catalan, MD

S. Shekar Dukkipati, MD/PhD

Student Scholarship Winners

Buddhika J. Senevirathne, PT

Alicia J. Hilderley, PhD

Ricardo Rodrigues De Sousa Junior, MSc

Ellen Sutter, PT, DPT

Simin Rahman, Doctoral student

Hedva H. Chiu, MD

Karen H. Mistry, DPT, BExSS

Hunter Loewen, MD

Adrien Winning, PhD

Jessica Lewis, PT, DPT

Alyssa M. Robison, DO

Deborah L. Grenard

Melanie J. Schultz

Kellie Collins, PT, DPT, PCS

2024 GRANT RECIPIENTS

The Academy's key mission is to promote research excellence that benefits people with cerebral palsy and childhood-onset disabilities. To achieve this, the Academy provides annual Research Grants. The AACPDM has collaborated with the Pedal with Pete Foundation and the Center for Progress to fund several grants, up to \$30,000 USD each. The focus of research should be on cerebral palsy-related topics.

The Research Grants support high-quality clinical research programs/projects. The grant can be used to finance planning for a project or to complete a small research project with significant impact related to the AACPDM's mission. The successful applicant must have a solid track record in childhood-onset disability research.

Funded by Pedal with Pete

Christopher M. Modlesky, PhD University of Georgia

Beyond Gait: AI Powered Cluster Analysis for Comprehensive Classification of Cerebral Palsy

Courtney S. Streur, MD, University of Michigan

Advancing the Understanding of the Reproductive Health of Women with Cerebral Palsy: Preliminary Evidence to Tailor a Novel, Online Reproductive Health Educational Intervention ("Ability for Life") to Adolescent Girls with Cerebral Palsy

Funded by C-PROGRESS

Sudarshan Dayanidhi, PT, PhD

Cellular Energetic Response to Aerobic Exercise Training in Ambulatory Adolescents with Cerebral Palsy

David M. Scher, MD

A Pilot Study to Examine the Effect of a Powered Knee Orthosis on Crouch Gait in Cerebral Palsy

Kirsten Tulchin-Francis, PhD

Assessment of a Novel Multi-Level, Multi-Muscle Fes Leg Sleeve During Gait Training in Pediatric Patients with Cerebral Palsy: A Pilot Study on Feasibility and Gait Biomarkers



Program and Events – Wednesday, October 23, 2024

8:00 AM - 9:00 AM EDT

Committee Chair Training
Room: Urban Space (Level 3)

9:00 AM - 10:00 AM EDT

AACPDM All Committees Meeting
Room: Urban Space (Level 3)

10:00 AM - 12:00 PM EDT

Committee Meetings

Preconference Sessions

8:00 AM – 12:00 PM EDT

PC1: An International Perspective on Technology Integration in Rehabilitation: Overcoming Barriers and Innovating Care
Anna McCormick MD FRCPC, Danielle Levac pht, MSc, PhD, Elizabeth Condliffe PhD, MD, Claire Shrader MS OTR/L, R. James Cotton MD, PhD, Theresa Sukal Moulton PT, DPT, PhD, Katherine Steele PhD, Christelle Pons MD, PhD, Laura Prosser PT, PhD, Andrew H. Fagg, PhD
Room: 204AB

8:00 AM – 12:00 PM EDT

PC2: Foot Deformities in Cerebral Palsy: A Comprehensive Approach
Rachel Thompson MD, Jason Howard MD, Robert Wimberly MD, Pooya Hosseinzadeh MD, Andrew Georgiadis MD, Mara Karamitopoulos MD, MPH, Benjamin Shore MD, MPH, FRCSC, Robert Kay MD, Kristan Pierz MD, Andrew Skalsky MD
Room: 205BC

8:00 AM – 12:00 PM EDT

PC3: HABIT-ILE Masterclass: Unveiling the Key Ingredients and Practical Implementation Needs for Children with Cerebral Palsy
Yannick Bleyenheuft PhD, Daniela Ebner-Karestinos PhD, Rodrigo Araneda PhD, Geoffroy Saussez PhD - Physiotherapist
Room: 206B

8:00 AM – 12:00 PM EDT

PC4: Transforming Your Early-Stage Research Program into an Established One
Jill Heathcock MPT, PhD, Christopher Modlesky PhD, Christos Papadelis PhD, Stacey Dusing PhD
Room: 206A

1:00 PM – 5:00 PM EDT

PC5: Learning to Read and Interpret Gait Lab Kinematics and Kinetics: Testing Your Skills
Kirsten Tulchin-Francis PhD, Joseph Krzak PT, PhD, Kristan Pierz MD, Freeman Miller MD, Jon Davids MD, Ross Chafetz, PhD, DPT
Room: 204AB

1:00 PM – 5:00 PM EDT

PC6: Operationalizing the Black Box of Coaching: The Applied Coaching Tool
Laura Brunton PT, PhD, Debra Teitelbaum MSc, Patti Thomas PT
Room: 205BC

1:00 PM – 5:00 PM EDT

PC7: Initiating a Research Program Focused on Cerebral Palsy or Other Child-Onset Developmental Disabilities
Jill Heathcock MPT, PhD, Christos Papadelis PhD, Christopher Modlesky PhD, Stacey Dusing PhD
Room: 206A

Program and Events – Wednesday, October 23, 2024

1:00 PM – 5:00 PM EDT

PC8: Unlocking Solutions: Strategies for Managing Self-Injurious and Aggressive Behaviors in Pediatric and Adult Populations with Developmental and Intellectual Disabilities

Unoma Akamagwuna MD, Claire Wallace PhD, Jessica Prokup MD, Toni Benton MD, Kristie Malik MD, Didem Inanoglu MD, Martin Gonzales MD, Cristina Sarmiento MD, Heidi Haapala MD, Mary Schmidt DO

Room: 206B

1:00 PM – 5:00 PM EDT

Board of Directors Meeting

5:30 PM – 6:00 PM EDT

New Member and Early Career Welcome Reception

Room: 200AB

6:00 PM – 8:00 PM EDT

Welcome Reception

Room: 200AB



Program and Events – Thursday, October 24, 2024

7:00 AM - 8:00 AM EDT

Breakfast in the Exhibit Hall

Room: 200AB

8:00 AM - 9:30 AM EDT

Opening General Session

Room: 200C

Opening Address

Gayle G. Arnold Lecture

Jennifer Arnold, MD, MSc

Lifetime Achievement Award

9:45 AM - 10:45 AM EDT

Morning Seminars 1-13

MORNSEM01: 360° of Stakeholder Engagement in Cerebral Palsy: Families, Communities, Clinicians, Researchers, and the Professional Pipeline

Melissa Murphy, PhD, Nathalie Maitre, BA, MD, PhD, Gavin Colquitt, EdD

Room: 202

Learning Objectives:

1. Apply CBPR principles in research to establish equitable partnerships among community members, organizational representatives, and researchers.
2. Demonstrate an understanding of stakeholder engagement needs assessment methods that ensure the perspectives the community are central to the research process.
3. Demonstrate an understanding of strategies for engaging diverse stakeholder groups.
4. Demonstrate an understanding of CBPR and mixed-methods needs assessments can be leveraged to initiate community-driven change and develop equity-based action plans and interventions.

MORNSEM02: Accessing the Cerebral Palsy Research Network Registries: Clinical and Community Research

Joyce P. Trost, PT, PhD, Kristie F. Bjornson, PT, MS, PhD, Julie Stutzbach, DPT, PhD, Jordan M. Wyrwa, DO

Room: 206A

Learning Objectives:

1. Describe the type and amount of data available within the CP Research Network registries.
2. Understand how an investigator can access data in the CP Research Network Registries for the purpose of hypothesis generation, recruitment planning, and secondary analyses.
3. Describe how clinicians can examine practice variation and perform quality improvement through collaboration and access to CP Research Network Registries data.
4. Understand how investigators interested in lived experience research and community-based outcome research can use existing Community Registry data and propose new community studies.

MORNSEM03: Ambulatory Patients with Spina Bifida: A Comprehensive Exploration of MMFC 2 vs MMFC 3

Vineeta T. Swaroop, MD, Jill Larson, MD, Nicole Hroma, PT, Ana-Marie Rojas, MD

Room: 304AB

Learning Objectives:

1. Describe the new functional classification of spina bifida (MMFC) as it relates to manual muscle testing, functional mobility scale and the use of assistive devices for ambulatory patients.
2. Review the factors which influence whether a patient remains stable over time in regard to MMFC level of involvement.

THURSDAY

Program and Events – Thursday, October 24, 2024

3. Analyze gait patterns and functional movements in spina bifida patients with MMFC 2 or 3 level of involvement and understand the rationale for use of assistive devices or orthotics.
4. Define the orthopedic surgery considerations and interventions in spina bifida patients with MMFC 2 vs 3 level of involvement.

MORNSEM04: An International Perspective on the Importance and Challenges of Implementing Neuropsychological Assessments into Clinical Practice in Individuals with Cerebral Palsy.

Ann I. Aliksson-Schmidt, PhD, Petra Karlsson, PhD, Samudragupta Bora, PhD, Seth Warschausky, PhD

Room: 204AB

Learning Objectives:

1. Recognize when standardized assessment procedures are limiting the full participation of a child with a physical disability and leading to a likely underestimate of cognitive skills and abilities.
2. Evaluate specific tests and subtests of cognitive skills and abilities that might be most appropriate for children with motor and related communication impairment.
3. Be informed by case studies that illustrate the theoretical elements in this session.
4. List the importance and the challenges associated with neuropsychological assessment in individuals with disabilities that might affect motor and abilities to communicate.

MORNSEM05: At Your Fingertips – A Web Based Transition Tool that Interfaces with BridgingAPPs Resources

Aloysia L. Schwabe, MD, Cristen Reat, MA

Room: 205BC

Learning Objectives:

1. Describe how a website regarding transition can be used to access APPs also related to transition.
2. List categories of transition resources.
3. Navigate a transition website to obtain information about guardianship and alternatives to guardianship.
4. Understand the ideal timeline for transition preparedness.

MORNSEM06: Bimanual Skills in Unilateral Cerebral Palsy: Translating Knowledge of Development and Motor Control into Clinical Applications

Rachel L. Hawe, DPT, PhD, Samuel T. Nemanich, PhD, MSCI, Swati M. Surkar, PT, PhD, Claudio L. Ferre, PhD

Room: 301A

Learning Objectives:

1. Describe the relation between development of skilled bimanual manipulation and brain function during infancy.
2. Describe typical and atypical development and learning of bilateral coordination skills in childhood and adolescence.
3. Describe the challenges and opportunities in assessing bilateral coordination including traditional clinical assessments and the use of kinematic, robotic, and computer vision assessments.
4. Describe the use of accelerometers to quantify the intensity of bimanual activities during and gains in real-world bimanual performance following hand arm bimanual intensive therapy (HABIT).

MORNSEM07: Cerebral Palsy: Maybe Its Not So Cerebral

Joline E. Brandenburg, MD, Matthew Fogarty, DVM, PhD

Room: 301B

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Learning Objectives:

1. Describe gaps in current definition and construct of cerebral palsy
2. Evaluate how spinal mechanisms may be playing a role in cerebral palsy symptoms
3. Integrate spinal mechanisms into understanding of clinical cerebral palsy symptoms
4. Develop an awareness of the developmental disruption of the brain-spinal cord-muscle interaction in cerebral palsy

MORNSEM08: Determining Risk for Renal Complications in Children with Cerebral Palsy

Mary Keen, MD, MRM, Sarah Macabales, DO, Anton Dietzen, MD

Room: 302AB

Learning Objectives:

1. Recognize risk factors for worsening renal function
2. Inquire about clinical signs possibly indicative of changing bladder function
3. Devise a monitoring protocol for patients at risk for worsening renal function
4. List some treatment strategies for urinary retention in individuals with cerebral palsy

MORNSEM09: Five Palliative Care Principles for Your Level V's

Elizabeth Martin, MD, Heather Brown, MD, Tracy Hills, DO

Room: 303A

Learning Objectives:

1. Define the role of palliative care in the treatment of individuals with cerebral palsy.
2. Explain the difference between primary and secondary palliative care.
3. Implement primary palliative care practices in their own clinical practice.

4. Describe various palliative care formats at different centers and ways they can collaborate with secondary palliative care providers.

MORNSEM10: From Theory to Practice: Translating Disability Training in Medical Education

Christine Murphy, MD, Richard C. Adams, MD

Room: 203

Learning Objectives:

1. Foster an engaging and insightful dialogue on innovatively incorporating disability competencies into medical education.
2. Actively engage with their peers as they explore and discuss strategies aimed at enhancing student preparedness and confidence.
3. Translate the conceptual components to the functional application in the unique and differing teaching environments of the participants .
4. Attain deeper understanding of the importance of scaling these initiatives, thereby contributing to measurable improvement in the skills and attitudes of future physicians – medical and surgical, generalists and specialists.

MORNSEM11: Implementing Hip Surveillance for Children with Cerebral Palsy: Moving Beyond the Guidelines

Stacey D. Miller, BSc(PT), MRSc, Maria Juricic, MRSc, BScPT, BScKin,

Room: 206B

Learning Objectives:

1. Describe the evidence for hip surveillance in children with cerebral palsy.
2. Describe strategies for implementing hip surveillance.
3. List barriers and potential solutions to implementing hip surveillance guidelines in their local context.

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4. Recognize potential side benefits to implementing hip surveillance in their local context.

MORNSEM12: One Step at a Time: The Case for Daily Weightbearing in Non-Ambulatory Children and Adults

Claire Shrader, MS, OTR/L, Barri Alexander, PT, DPT, MBA, Laura L. Owens, MD

Room: 303B

Learning Objectives:

1. Define the benefits of standing and supported stepping devices for non-ambulatory children and those at GMFCS Levels IV & V.
2. Analyze barriers and potential solutions to increased access to supported standing and stepping across home, school and community.
3. Identify novel areas where client engagement and participation could be enhanced by supported stepping and standing devices.
4. Create an action plan to add supported standing and stepping into their settings (home, hospital, outpatient, school etc).

MORNSEM13: Overview of the British Columbia's Early Motor Screening Program (EMSP)

Nandy Fajardo, PT, Keith O'Connor, MS, Mor Cohen-Eilig, MD, Ram A. Mishaal, MD

Room: 207

Learning Objectives:

1. Understand the structure and delivery of the provincial selective early motor screening program in BC.
2. Learn the medical risk factors identified by the EMSP and the reasoning behind them.
3. Understand the benefits and challenges of a provincial screening program for CP including how to effectively navigate conversations of uncertainty with families.

4. Receive practical ideas for implementing similar programs within their local communities.

10:45 AM – 11:45 AM EDT

Coffee Break and Exhibit / Poster Review

(Even-numbered poster presenters available during this time)

Room: 200AB

12:45 PM – 2:15 PM EDT

Free Paper Sessions A-D

Free Paper Session A: Care Delivery & Epidemiology

Moderators: Maurice Sholas, MD, PhD and Cristina Sarmiento, MD

Room: 204AB

12:45 PM - 12:52 PM EDT

A1: Assessing Web-based Early Intervention for Children (3-8 years) with Motor Delay Using Multimodal Rehabilitation: Findings from a Hybrid Type 1 Effectiveness-Implementation Trial
Karen Hurtubise, PhD, Michelle Phoenix, PhD, Isabelle Gaboury, PhD, Jade Berbari, MA, Chantal Camden, PhD

12:52 PM - 12:59 PM EDT

A2: Epidemiology of Cerebral Palsy among Children in Low- and Middle-Income Countries

Israt Jahan, B.Sc (Hons), MS, MPH, PhD, Mohammad Muhiit, MBBS, MSc, PhD, Denny Hardianto, MBBD, MPH, Samuel Kofi Amponsah, MPH, Francis Laryea, BSc., Amir Banjara Chhetri, Masters, Marlies Declerck, PhD, Maria de las Mercedes Ruiz Brunner, PhD, Thembi J. Katangwe, MBBS, MMED Paeds, MPhil Neuro Paeds, Andrea N. Burgess, B Occ Thy I, Grad Cert Epi, PhD., Claudia Durán, MS, Reem Alsayed M Khalil, MD pediatrics and child health MRCPCH, Hayley J. Smithers-Sheedy, BAppSc (SpPath), MPH, PhD, Sarah McIntyre,

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PhD MPS BAppSc (OT) Hons, Nadia Badawi, MBBCh, MSc, DCH, FARCP, PhD, FRCPI, Gulam Khandaker, MBBS, DCH, MPH, PhD, FAFPHM

12:59 PM - 1:06 PM EDT

A3: Health-Related Quality of Life in Arthrogryposis Multiplex Congenita: Results of a Pediatric North American Registry

Shahrzad Nematollahi, PhD, Michael Amara, MSc, Reggie C. Hamdy, Frank Rauch, Lauren C. Hyer, MD, Michelle A. James, Haluk Altiok, Ellen Raney, Jonathan Pellett, Cary Mielke, Sarah B. Nossov, Emmanouil Rampakakis, Sena Tavukcu, Noémi Dahan-Oliel

1:11 PM - 1:18 PM EDT

A4: Sustainable Model of Early Intervention and Tele-rehabilitation for Children with Cerebral Palsy in Rural Bangladesh (SMART CP): A Cluster Randomised Controlled Trial

Mahmudul Hassan Al Imam, PhD, MPH, BScPT, Israt Jahan, PhD, Mohammad Muhit, MBBS, MSc, MSc, PhD, Delwar Akbar, PhD, Shafiqul Islam, BScPT, MPH, Nadia Badawi, MBBCh, MSc, DCH, FARCP, PhD, FRCPI, Gulam Khandaker, MBBS, DCH, MPH, PhD, FAFPHM

1:18 PM - 1:25 PM EDT

A5: Women with Cerebral Palsy Receive Significantly Less Gynecologic Preventative Care

Michael J. Gouzoulis, BS, Ally Yang, MD, Anthony E. Seddio, BS, Anne Smith, MD, Jonathan N. Grauer, MD, David B. Frumberg, MD

1:25 PM - 1:32 PM EDT

A6: Family Experiences with a Community-Based Resistance Intensive Personal Training (RIPT) for Youth with Cerebral Palsy: A Qualitative Study.

Candice Natrasony, BS, Karin Eldred, MSc Rehabilitation Science, BSc Physical Therapy, Elizabeth G. Condliffe, PhD, MD, Lesley Pritchard, PT, PhD

1:37 PM - 1:44 PM EDT

A7: Community Deprivation and Ambulatory Function Among Children in Washington State Enrolled in the Cerebral Palsy Research Network Registry Through Seattle Children's Hospital

Deborah Grenard, Daniel Enquobahrie, MD, PhD, MPH, Stephen J. Mooney, PhD, MS, Desiree Roge, MD, Kristie F. Bjornson, PT, MS, PhD

1:44 PM - 1:51 PM EDT

A8: Prevalence of Varus and Valgus Deformity in Children with Cerebral Palsy: A Register Based Cross-Sectional Study

Evgenia Manousaki, MD, PhD, Elisabet Rodby-Bousquet, PhD, Katina Pettersson, PhD, Jenny Hedberg-Graff, PhD, Erika Clodt, PhD

1:51 PM - 1:58 PM EDT

A9: Fall Outcome Difference in Unilateral and Bilateral Cerebral Palsy

Elizabeth R. Boyer, PhD, Marissa Esterley, MS, Kari Pederson, MSW, LICSW, Sandy C. Tierney, PhD, MSSW, Nathan G. Wandersee, AS, Linda E. Krach, MD

Program and Events – Thursday, October 24, 2024

Free Paper Session B: Neuroscience

Moderators: Eric Chin, MD and Christos Papadelis, PhD

Room: 205BC

12:45 PM - 12:52 PM EDT

B1: Use of Functional Near-Infrared Spectroscopy to Investigate Cortical Function, Connectivity and Plasticity in Cerebral Palsy: A Scoping Review

Owais A. Khan, PT, Simin Rahman, MS, Kanishka Baduni, MPT, Christopher M. Modlesky, PhD

Room: 205BC

12:52 PM - 12:59 PM EDT

B2: Individuals with Cerebral Palsy Display Improved Synchronization of the Occipital Neural Generators after Gait Training

Elizabeth Dao, B.S, Morgan Busboom, PT, DPT, Brad Corr, DPT, Katie Bemis, DPT, Kimberley S. Scott, DPT, PhD, Elizabeth Heinrichs-Graham, PhD, Tony W. Wilson, PhD, Max J. Kurz, PhD

12:59 PM - 1:06 PM EDT

B3: Task-Based and Resting-State Functional Magnetic Resonance Imaging Outcomes of School-Age Children Born Very Preterm

Javier A. Urriola, PhD, Alex M. Pagnozzi, PhD, Kerstin Pannek, PhD, DanaKai Bradford, PhD, Samudragupta Bora, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Joanne George, PhD, Jurgen Fripp, PhD

1:11 PM - 1:18 PM EDT

B4: Multi-modal Functional and Structural Neuroimaging Provides Complementary Understanding of Motor Neural Network Reorganization in Children with Perinatal Stroke

Sadra Shahdadian, PhD, Eryn Armstrong, MS, Stephanie Acord, MD, Fernando Acosta, MD, Warren A. Marks, MD, Christos Papadelis, PhD

1:18 PM - 1:25 PM EDT

B5: Neonatal Advanced Diffusion MRI Measures are Associated with 6-year Motor Outcomes of Children Born Very Preterm: A Fixel Based Analysis

Kerstin Pannek, PhD, Samudragupta Bora, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, DanaKai Bradford, PhD, Paul B. Colditz, MBBS, FRACP, FRCPC, MBIomedEng, DPhil, Jurgen Fripp, PhD, Alex M. Pagnozzi, PhD, Joanne George, PhD

1:25 PM - 1:32 PM EDT

B6: Adults with Down Syndrome Exhibit Altered Cortical Thickness and Somatosensory Gating

Jiraros Meejang, BS, Morgan Busboom, PT, DPT, Sarah Baker, MA, Michael P. Trevarrow, PhD, Yasra Arif, PhD, Gaelle Doucet, PhD, Tony W. Wilson, PhD, Max J. Kurz, PhD

1:37 PM - 1:44 PM EDT

B7: Relationships between Corticospinal Integrity and Neuromotor Behavior in Infants with Perinatal Brain Injury

Ellen N. Sutter, DPT, Jose M. Guerrero-Gonzalez, PhD, Cameron P. Casey, PhD, Anna K. Lowe, n/a, Douglas C. Dean, III, PhD, Ryan McAdams, MD, Bernadette T. Gillick, PhD

Program and Events – Thursday, October 24, 2024

1:44 PM - 1:51 PM EDT

B8: Functional and Structural Reorganization of Somatosensory Network and its Relationship with Sensorimotor Function in Children with Perinatal Stroke
Sadra Shahdadian, PhD, Eryn Armstrong, MS, Stephanie Acord, MD, Fernando Acosta, MD, Warren A. Marks, MD, Christos Papadelis, PhD

1:55 PM - 2:02 PM EDT

B9: Persons with Cerebral Palsy that Respond to Gait Training have Improved Somatosensory Cortical Activity
Morgan Busboom, PT, DPT, Liana Chinen, Brad Corr, DPT, Katie Bemis, DPT, Kimberley S. Scott, DPT, PhD, Sarah Baker, MA, Yasra Arif, PhD, Elizabeth Heinrichs-Graham, PhD, Tony W. Wilson, PhD, Max J. Kurz, PhD

2:02 PM - 2:09 PM EDT

B10: Contributions of the Optic Radiations to Visual Dysfunction in CVI
Marie Drottar, MS, Negin Nadvar, PhD, Corinna Bauer, PhD

Free Paper Session C: Orthopaedics 1

Moderators: Andrew Georgiadis, MD and Pooya Hosseinzadeh, MD

Room: 206B

12:45 PM - 12:52 PM EDT

C1: HipScreen AI: Artificial Intelligence Algorithm Accurately Measures Migration Percentage on Hip Surveillance Radiographs Acquired from a Mobile Device
Anna Kay, BS, Justin Krogue, MD, Marie Villalba, BA, Patrick Donohue, BS, Michael Firtha, DO, Stella Yu, PhD, Vedant A. Kulkarni, MD

12:52 PM - 12:59 PM EDT

C2: The Risk Factors Associated with Increased Anterior Pelvic Tilt in Ambulatory Children with Cerebral Palsy
Chris Church, MPT, Jose J. Salazar-Torres, Ph.D., Tanmayee Joshi, BS, Nancy Lennon, BS, MS, DPT, Thomas J. Shields, BS, John Henley, PhD, Freeman Miller, MD, Wade Shrader, MD, Jason Howard, MD
Room: 206B

12:59 PM - 1:06 PM EDT

C3: Femoral Head Shaft Angle Changes Based on Severity of Neurologic Impairment in Children with Cerebral Palsy and Spinal Muscle Atrophy
Luiz Carlos Almeida da Silva, Nemours Children's Hospital, Yusuke Hori, MD, Burak Kaymaz, M.D, Kenneth Rogers, PhD, Jason Howard, MD, Richard Bowen, MD, Wade Shrader, MD, Freeman Miller, MD, Arianna Trionfo, MD

1:11 PM - 1:18 PM EDT

C4: Impact of Social Determinants of Health on Hip Surveillance in Children with Cerebral Palsy
Sriya Byrapuneni, BS, Rhonda G. Cady, PhD, RN, Peter Schavee, BA, Todd Warner, MS, Christian Ishag, BA, Jamie N. Price, BA, Jennifer Laine, MD, Susan A. Novotny, PhD

1:18 PM - 1:25 PM EDT

C5: Guided Growth of the Proximal Femur for Hip Displacement in Young Children with Cerebral Palsy: A Preliminary Report Comparing Hypertonic and Hypotonic Motor Types
Christina Herrero, MD, Rachel Lenhart, MD PhD, Arianna Trionfo, MD, Wade Shrader, MD, Jason J. Howard, MD

THURSDAY

Program and Events – Thursday, October 24, 2024

1:25 PM - 1:32 PM EDT

C6: Mortality in a Cohort of Children with Cerebral Palsy Enrolled in Hip Surveillance
Stacey D. Miller, BSc(PT), MRSc, Maria Juricic, MRSc, BScPT, BScKin, Christie Yang, n/a, Kishore Mulpuri, MHSc, MSc, MBBS, FRCSC

1:37 PM - 1:44 PM EDT

C7: The Less-Affected Side In Spastic Hemiplegia: Is It The Same As Typically Developing? A Study Of Muscle Properties And Function

Rachel Lenhart, MD PhD, Diego Caban-Rivera, BS, Chris Church, MPT, Curtis L. Johnson, PhD, Arianna Trionfo, MD, Wade Shrader, MD, Jason J. Howard, MD

1:44 PM - 1:51 PM EDT

C8: The Importance of Ambulatory Status on Risk of Hip Displacement in Patients with Leukodystrophy

Nicholas Barbieri, BS, Emily Sergio, BS, Maia D. Regan, BA, Sarah Woidill, MS, Amina N. Khan, MS, Francesco Gavazzi, MD, PhD, Bernard D. Horn, MD, Keith D. Baldwin, MD, MSPT, MPH, David Spiegel, MD, Russell D'Aiello III, MS, Robert W. Grundmeier, MD, Emma Kotes, BA,BS, Adeline Vanderver, MD, Christine M. Goodbody, MD, MBE, Sarah H. Evans, MD

1:55 PM - 2:02 PM EDT

C9: Medialization at the Osteotomy Site May Reduce Relapse After Varus De-rotational Osteotomy (VDRO) of the Proximal Femur in Cerebral Palsy

Frederico Vallim, PhD, Kerr Graham, MD, MD, João Antônio Matheus Guimarães, PhD, Marcello Henrique Nogueira-Barbosa, PhD

2:02 PM - 2:09 PM CT

C10: Increased Pelvic Rotation is Associated with Decreased Knee Power in Pediatric Patients with Diplegic Cerebral Palsy

Olivia C. Tracey, BA, Akshitha Adhiyaman, BS, Colson Zucker, BA, Vishnu Deep Chandran, PhD, Silvia Zanini, MS, Jennifer Jezequel, DPT, Bridget A. Assip, DPT, Sherry I. Backus, PT, Dara Jones, MD, David M. Scher, MD, Paulo Selber, MD

Free Paper Session D: Rehabilitation & Tone

Moderators: Joslyn Gober, DO and Jill Heathcock, MPT, PhD

Room: 302AB

12:45 PM - 12:52 PM EDT

D1: Leg Dystonia Diagnosis in Children with Cerebral Palsy Using Machine Learning

Rishabh Bajpai, B.Tech., PhD, Joanna Blackburn, MD, Rose Gelineau-Morel, MD, Michael C. Kruer, MD, Dararat Mingbunjerdsuk, MD, Jennifer A. O'Malley, MD/PhD, Laura Tochen, MD, Jeff L. Waugh, MD, PhD, Steve W. Wu, MD, Bhooma R. Aravamuthan, MD, DPhil

12:52 PM - 12:59 PM EDT

D2: The impact of Dosing Schedule on Motor Skill Acquisition in Children with Bilateral Cerebral Palsy (BCP)

Susan Sienko, PhD, Cathleen E. Buckon, OTR/L, MS, Grace-Anne M. Herard, PT, DPT, EdD, Yannick Bleyenheuft Bleyenheuft, PhD, Marina B. Brandão, PhD, Andrew M. Gordon, PhD

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12:59 PM - 1:06 PM EDT

D3: Deficits in Upper Limb Goal-directed Reaching in Children with Unilateral and Bilateral Cerebral Palsy Compared to Typically Developing Children

Simin Rahman, MS, Owais Khan, PT, Tarkeshwar Singh, PhD, Deborah A. Barany, PhD, Christopher M. Modlesky, PhD

1:11 PM - 1:18 PM EDT

D4: To Determine Age-related Differences in Behavioural Outcomes of Bimanual Functional Motor Tasks in Children and Adolescents with Cerebral Palsy: A Scoping Review.

Hubert Gascon, MS, Maxime T. Robert, PhD, Samuel T. Nemanich, PhD, MSCI

1:18 PM - 1:25 PM EDT

D5: Intensive Motor Skill Learning Intervention Modify Specifically the Top-Down Executive Control Sub-Component of Attention in Children with Unilateral Cerebral Palsy

Elisa Vancolen, MS, Daniela Ebner-Karestinos, PhD, Astrid Carton de Tournai, PT, Merlin Somville, PT, Zélie Rosselli, MA, Enimie Herman, PT, Geoffroy Saussez, PhD - Physiotherapist, Yannick Bleyenheuft, PhD, Rodrigo Araneda, PhD

1:25 PM - 1:32 PM EDT

D6: The Role of an Intensive Care Plan in a Motor Skill Acquisition in Individuals with a Motor Impairment

Molly Peterson, DPT, Emma Marino, DPT

1:37 PM - 1:44 PM EDT

D7: Expanding Our Understanding of Dystonia in Cerebral Palsy: Learning From Caregiver Experts

Laura A. Gilbert, DO, MBA, Emma J. Lott, AS, Susie Kim, BS, Amy McQueen, PhD, Bhooma R. Aravamuthan, MD, DPhil

1:44 PM - 1:51 PM EDT

D8: Is Muscle Morphology Linked to Physical Activity and Nutritional Intake in Children with Spastic Cerebral Palsy?

Ineke Verreydt, MSc, Anja Van Campenhout, MD, PhD, Els Ortibus, MD, Ph.D., Olaf Verschuren, PhD, Marieke De Craemer, PhD, Lauraine Staut, MSc, Britta Hanssen, PhD, Erika Vanhauwaert, Daisy Rymen, MD, PhD, Kaat Desloovere, PhD

1:51 PM - 1:58 PM EDT

D9: To Stand or Not to Stand: A Retrospective Review of Clinical and Health-related Quality of Life Outcomes Related to Supported Standing in Patients with MMFC1 Spina Bifida

Peter Shen, BS, Vineeta T. Swaroop, MD, Ana-Marie Rojas, MD, Jill Larson, MD

1:58 PM - 2:05 PM EDT

D10: Objective Spasticity Assessment: Validity of a Portable Device in Children with Cerebral Palsy

Buddhika J. Senevirathne, BPT, MPhil, Sampath Udaya Tennakoon, MBBS, Jithangi Wanigasinghe, MD, John p. Phillips, MD, Jens B. Nielsen, PhD

THURSDAY

Program and Events – Thursday, October 24, 2024

2:30 PM – 4:00 PM EDT

General Session

Room: 200C

Corbett Ryan Pathways Pioneer Award

Gayle G. Arnold Award

Duncan Wyeth Award

AACPD and Mac Keith Press Basic
Science Lecture

George Ibrahim, MD, PhD,
FRCSC, FAANS

Mentorship Award

4:15 PM – 6:15 PM EDT

Mini Symposia 1-13

MINISYMP01: Genetic Testing for the Non-Geneticist: Practical Tips on the What, When, Why, and How of Genetic Testing in Cerebral Palsy and Developmental Medicine

Steven M. Lazar, MD, MEd, Shannon DiCarlo,
MD, Aloysia L. Schwabe, MD, Kathryn K.
Ostermaier, MD

Room: 206A

Learning Objectives:

1. Compare and contrast the indications for five common genetic and metabolic testing options.
2. Develop an appropriate step-wise genetic and/or metabolic testing plan for patients with neurodevelopmental disabilities that includes at least 3 layers of testing.
3. Identify at least two barriers to genetic testing across familial, clinical, and systems-based practice and their solutions in neurodevelopmental disabilities.
4. Describe at least four key characteristics of patients with a neurodevelopmental disability that would warrant genetic and/or metabolic testing.

MINISYMP02: Characterizing and Predicting Pain in Children with Cerebral Palsy Undergoing Orthopedic Surgery

Chantel Burkitt, PhD, Elizabeth R. Boyer, PhD,
Jason Howard, MD, Aleksys Patterson, BA,
Tom F. Novacheck, MD, Wade Shrader, MD,
Jay Berry, MD

Room: 202

Learning Objectives:

1. Describe ongoing research efforts to document pain trajectories and identify risk factors that predict chronic postsurgical pain in children with CP undergoing musculoskeletal surgery.
2. Describe evidence-based multidisciplinary care coordination pathways supporting the decision making and clinical care of patients with CP undergoing major musculoskeletal surgery.
3. Understand of the lived experience of undergoing major musculoskeletal surgery and pain in CP.
4. Discuss streamlining research, knowledge translation, and patient care.

MINISYMP03: Translating Possibility into Participation

Joline E. Brandenburg, MD, Alena Skinner,
Carol M. Shrader, BA, Mason J. Shrader, MA,
Claire Shrader, MS OTR/L

Room: 203

Learning Objectives:

1. Advocate and identify resources for participation of individuals with cerebral palsy and other developmental disorders in the community.
2. Articulate various ways participation occurs in a practical manner from youth and young adults with cerebral palsy and other developmental disorders.
3. Visualize people with disabilities participating in nonsegregated activities.

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4. Create one action item you can implement to facilitate or encourage participation of individuals with a disability in activities of interest to them.
2. Discuss the importance of incorporating a best practice engagement approach to service delivery planning for children and youth living with health complexity
3. Highlight the importance of functional goal-focused, individualized, longitudinal care as fundamental in the innovative care coordination service plan.
4. Identify key functional areas to describe functioning of children and living with health complexity.

MINISYMP04: Evolution of the Family Engagement Program: Sharing the Scalability, Reach, and Impact of a Novel Training Program

Andrea Cross, PhD, Samantha K. Micsinszki, PhD, Connie Putterman, MHSc, Rachel E. Martens, Alice K. Soper, MSc, Dayle McCauley, MSc, Jan Willem Gorter, MD, PhD

Room: 204AB

Learning Objectives:

1. Build knowledge and awareness in family engagement in research.
2. Understand the importance and impact of training in family engagement for both researchers and individuals with lived and living experience.
3. Identify the core concepts and key ingredients of family engagement in research training.
4. Critically reflect on the development, implementation, and scaling of an international FER training program.

MINISYMP05: ICF and Care Coordination: Developing a Minimal Functional Data Set to Support Care Coordination for Children Living with Health Complexity in BC and Yukon, Canada

Tessa Diaczun, CNP, Verónica Schiariti, MD MHSc PhD, Elizabeth Stanford, PhD, Lee M. Johnston, MPH, PhD

Room: 206B

Learning Objectives:

1. Introduce the BC care coordination service plan, which is guided by the ICF framework

MINISYMP06: Unraveling Uncertainty: Early Diagnostic Dilemmas in Cerebral Palsy

Ram A. Mishaal, MD, Karen Thomas, MD, FRCPC, Paige Terrien Church, MD, Rudaina Banihani, MD, FRCPC, Mor Cohen-Eilig, MD

Room: 207

Learning Objectives:

1. Navigate the complexities of early CP diagnosis and understand the experiences of parents during this uncertain period.
2. Effectively disclose an uncertain diagnosis to families, recognizing the impact of language choice.
3. Evaluate existing interventions aimed at promoting healthy psychological adjustment and well-being for parents in the uncertainty phase.
4. Understand the views of both parents and professionals regarding follow-up processes for infants likely to have CP, considering their perspectives and potential areas for improvement.

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MINISYMP07: Improved Understanding of Impaired Muscle Growth in Children with Cerebral Palsy, by Integrating of Macro- and Microscopic Muscle Properties and Impact of Contributing Factors

Kaat Desloovere, PhD, Anja Van Campenhout, MD, PhD, Eva M. Pontén, MD PhD

Associate Professor

Room: 301A

Learning Objectives:

1. Upon completion the participants will be able to describe altered growth trajectories of lower limb muscles from children with CP compared to typically developing children.
2. Upon completion the participants will be able to integrate macro- and microscopic muscular alterations for the lower and upper limbs in children with CP.
3. Upon completion the participants will understand potential contribution factors (neuromuscular symptoms, physical activity, nutrition and treatment history) to altered muscle growth in children with CP.
4. Upon completion the participants will understand the impact of Botulinum neurotoxin injections on the macro- and microscopic muscle morphology in children with CP.

MINISYMP08: Knee Surveillance in Children with Diplegia

Kerr Graham, MD, MD, Jon R. Davids, MD, Pam Thomason, M Physio, Erich Rutz, MD

Room: 301B

Learning Objectives:

1. Upon completion, participants will understand the concept and practice of “knee surveillance”.

2. Upon completion, participants will be aware of the links between knee surveillance and the stages of musculoskeletal pathology in cerebral palsy.
3. Upon completion, participants will understand the links between the stages of musculoskeletal pathology and management of knee dysfunction, both operative and non-operative.
4. Upon completion, participants will have engaged with drafting a knee management algorithm, for children with diplegia.

MINISYMP09: Robotic Mobility Aids: Answering the Question, “Will my child benefit”?

Elizabeth G. Condliffe, PhD, MD, Alicia Hilderley, PhD, Anna M. McCormick, MD FRCPC, Christa M. Diot, MSc, Hunter Loewen, MD, Stefanie S. Bradley, MSc, Thomas C. Bulea, PhD, F Virginia Wright, BScPT, MSc, PhD

Room: 302AB

Learning Objectives:

1. Describe the available robotic mobility aids
2. Discuss the potential benefits of each device supported by evidence
3. Identify patients likely to experience these benefits
Identify patients unlikely to experience these benefits

MINISYMP10: Top 10 Articles in Lifespan Care

Mary E. Gannotti, PhD,PT, Heidi Haapala, MD, Cristina A. Sarmiento, MD, David Berbrayer, MD, Unoma Akamagwuna, MD

Room: 303A

Program and Events – Thursday, October 24, 2024

Learning Objectives:

1. Upon completion participants will be able to describe recent publications and key research findings related to the lifespan care of adults with childhood onset disabilities.
2. Upon completion participants will be able to identify any gaps in evidence and future directions related to current research in the lifespan care of adults with childhood onset disabilities.
3. Upon completion participants will be able to apply relevant research advances to the lifespan care of adults with childhood onset disabilities in their own clinical practice
4. Upon completion participants will be able to identify dissemination and knowledge translation strategies to implement recent research findings amongst key stakeholders (health care teams, those with lived experience, community organisations)

MINISYMP11: Translating Effectiveness Research into Action: Key Principles and Content for Early Intervention for Infants and Young Children with CP or Motor Delays

Regina T. Harbourne, PhD, Stacey C. Dusing, PhD, Catherine Morgan, PhD; BAppSc (Physio), Lynda M. McNamara, PhD, BPhy (Hons), Iona Novak, PhD, Alicia Spittle, PhD

Room: 303B

Learning Objectives:

1. Understand the best-available evidence to support effective early intervention for infants born preterm, with motor delays or cerebral palsy.
2. Discuss the key ingredients of evidence-based early intervention including, type, population, time, mode, dose and setting.

3. Critically reflect on the barriers to using this evidence in their workplace and the knowledge translation strategies required to overcome these barriers.
4. Suggest strategies for intervention based on the most up-to-date evidence for early intervention for infants and children with motor delays.

MINISYMP12: Implementing Artificial Intelligence in Clinical Care: Enhancing Treatment for Individuals with Cerebral Palsy

Alexis Mitelpunkt, Kelly R. Greve, PT, DPT, PhD, Amy F. Bailes, PT PhD, Jilda N. Vargus-Adams, MD, MSc

Room: 205BC

Learning Objectives:

1. Understand how AI technologies can serve healthcare professionals in enhancing care and its limitations.
2. Identify resources required to effectively integrate AI into clinical care, including data, technology, and collaborations.
3. Discuss current examples of how one center is using AI to create new knowledge and improve care
4. Explore future directions to integrate AI in clinical care

MINISYMP13: Use of the Motor Optimality Score-Revised (MOS-R)-to Predict Cerebral Palsy and Other Adverse Neurodevelopmental Outcomes (NDO).

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

Room: 304AB

Learning Objectives:

1. Upon completion participants will understand the features of the MOS-R scoring.

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2. Upon completion participants will understand the reproducibility of MOS-R among experienced raters and the implications for clinical practice.
3. Upon completion participants will use of MOS-R with HINE, to detect and predict CP, and other adverse NDD in cohorts of Preterm, Term at risk and First Nations infants.
4. Upon completion participants will use interactive case studies to determine clinical use of MOS-R to predict CP and NDD.

THURSDAY

6:45 PM – 8:15 PM EDT

Special Interest Groups (SIGs)

- Adults and Aging
Room: 206A
- Complex Care
Room: 206B
- Adapted Sports and Recreation
Room: 302AB
- Technology
Room: 204AB

What is a Special Interest Group?

Special Interest Groups (SIGs) are communities within a larger organization, created around a shared interest in specific areas of knowledge, learning, technology, or other characteristics of membership. AACPDM SIGs should complement the Academy's activities.

SIGs offer additional benefits for Association members, such as access to subject-specific information and resources, educational opportunities, networking with like-minded peers, and volunteer leadership opportunities.

What SIGs does AACPDM offer What do AACPDM SIGs do?

- SIGs will have a minimum of 1 to a maximum of 2 virtual meetings per year. Scheduling should take place in partnership with the AACPDM staff.
- SIGs will have an in-person meeting at the AACPDM Annual Meeting at a time determined by staff and the 1st Vice President to facilitate maximum attendance at the meeting.
- AACPDM staff will maintain a list of active SIG members.
- SIGs will be re-evaluated every 2 years to ensure relevance and alignment with the AACPDM mission and vision.

<https://www.aacpdm.org/about-us/aacpdm-special-interest-groups-sigs>

Program and Events – Friday, October 25, 2024

7:00 AM – 8:00 AM EDT

Breakfast in the Exhibit Hall

Room: 200AB

8:00 AM – 9:00 AM EDT

Morning Seminars 14–26

MORNSEM14: A Multidisciplinary Approach to Patient Prioritized Outcomes in Shared Decision Making

Minnelly Vasquez, LCSW, Hana Azizi, MD, MPH, Jennifer M. Bain, MD, PhD

Room: 203

Learning Objectives:

1. Upon completion, participants will be able to demonstrate approaches for patient engagement to help support individuals with CP & their families in shared decision-making process.
2. Upon completion, participants will be able to describe how collaborative decision-making between healthcare providers, patients, and, where applicable, their caregivers foster health equity.
3. Upon completion, participants will be able to define ableism and understand how ableism in the clinical setting impacts medical care.
4. Upon completion, participants will be able to implement shared decision-making process in a multidisciplinary team treating a patient who experiences psychiatric conditions.

MORNSEM15: A New Frontier in Head Control Assessment and Intervention for Children with Cerebral Palsy: Revolutionizing care

Bhamini Krishna Rao, Sr., PhD, Jodi Thomas, PT, DPT, DHSc, Sonia Khurana, PT, PhD, Sivakumar Gopalakrishnan, PhD

Room: 204AB

Learning Objectives:

1. Understand the importance of head control from a developmental perspective and identify the challenges in assessing head control
2. Describe the available head control assessment measures
3. Compare existing head control measures and gain knowledge about the implementation of novel, objective, and reliable measure: Head Control Scale
4. Learn about a novel head and trunk control training device to promote head control

MORNSEM16: Breaking Barriers: A Unified Approach to Early Detection and Intervention in Cerebral Palsy

Valerie Pieraccini, MS, Nathalie Maitre, BA, MD, PhD, Rachel Byrne, PT

Room: 202

Learning Objectives:

1. Understand the collaborative efforts of the Cerebral Palsy Foundation and United Cerebral Palsy Research Council in advancing early detection and intervention.
2. Gain insights into the thematic framework designed to empower diverse communities and improve outcomes for families affected by Cerebral Palsy.
3. Explore practical aspects of developing site-specific frameworks, implementing monitoring and evaluation systems, engaging communities, and conducting research and implementation science in the context of early detection and intervention.
4. Engage in interactive discussions to share experiences and insights with fellow professionals and presenters.

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MORNSEM17: Building A Partnership to Improve the Inclusion of Underserved Populations in Childhood Disability Research

Sukaina Dada, PhD, Rachel Teplicky, MS, Michelle Phoenix, PhD, Vanessa Tomas, PhD

Room: 301A

Learning Objectives:

1. Upon completion, participants will be able to identify existing gaps and opportunities in engaging families from equity-seeking and underserved populations in healthcare practice and research
2. Upon completion, participants will be able to describe the importance of developing partnerships with community organizations to conduct equitable health research
3. Upon completion, participants will be able to reflect on their own health research and/or healthcare practices with equity-seeking and underserved populations and identify goals for their work
4. Upon completion, participants will be able to apply strategies and guiding questions to their work as health researchers and/or clinicians to advance equitable health research and service-delivery

MORNSEM18: Participate-CP: Evidence-based Approach to Optimise Participation in Physically Active Leisure for Children with Cerebral Palsy.

Leanne Sakzewski, PhD, Bachelor Occupational Therapy, Sarah E. Reedman, PhD, Bachelor of Physiotherapy, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

Room: 207

Learning Objectives:

1. Upon completion, participants will understand the theoretical underpinnings of Participate CP and the science of health behaviour change.

2. Upon completion, participants will know how to frame and set participation goals in a collaborative way with children and their families.
3. Upon completion, participants will know how motivational interviewing can be for behaviour change and understand the specific content of Participate CP and how to match strategies to barriers of participation.
4. Upon completion, participants will be able to apply the knowledge presented to develop practical solutions to support children's participation in leisure-time physical activities.

MORNSEM19: Enablement Counseling: Talking with Parents After Early Detection of Cerebral Palsy in Infancy

Colleen Peyton, DPT, Michael E. Msall, MD

Room: 301B

Learning Objectives:

1. Utilize an enablement model when discussing early detection and diagnosis of cerebral palsy with families
2. Demonstrate supportive communication strategies during early detection and diagnosis of cerebral palsy
3. Implement evidence-based practice surrounding discussion of neurodevelopmental disability with families
4. Describe the communication guidelines outlined in SPIKES and ouR-HOPE models

MORNSEM20: Every Child's Story is a Treasure: Children with Disabilities and Their Parents Share Their Voices About Supports And Services They Need Post Covid-19 and into the Future.

Genevieve Currie, PhD, Amanda Doherty-Kirby, PhD, Jeanine Lebsack, Danijela Grahovac, MSc

Room: 302AB

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Learning Objectives:

1. Recognize key areas of health care and support needs identified by children with disabilities and parents
2. Assess existing gaps to providing supports in the areas identified by children and their parents
3. Formulate ideas for addressing the gaps to delivering services/supports in both policy and practice
4. Explore strategies for engaging children/youth in health research and policy development

MORNSEM21: Evolving Surgical Algorithms for Spasticity in Cerebral Palsy: Incorporating Nerve Surgery into the Treatment of Upper and Lower Extremity Spasticity

Eugene Park, MD, Sami Tuffaha, MD, Shaun D. Mendenhall, MD, Chris Crowe

Room: 206A

Learning Objectives:

1. Describe the mechanism of action for spasticity reduction following hyperselective neurectomy.
2. Conduct a patient assessment using appropriate instruments to aid in surgical planning for patients with upper and lower extremity spasticity.
3. Understand the surgical technique for hyperselective neurectomy.
4. Incorporate hyperselective neurectomy into a comprehensive treatment plan for lower extremity spasticity and contractures.

MORNSEM22: Get RIPT! Delivery of the Resistance Intensive Personalized Training Program for Youth with Cerebral Palsy via an Innovative Hospital/Community Fitness Centre Partnership

Karin Eldred, MSc Rehabilitation Science, BSc Physical Therapy, Candice Natrasony, BS, Lesley Pritchard, PT, PhD, Elizabeth G. Condliffe, PhD, MD

Room: 303A

Learning Objectives:

1. Understand the evidence related to power training in youth with Cerebral Palsy.
2. Describe how a program can be delivered via an innovative hospital-community fitness centre partnership.
3. List barriers and facilitators related to program delivery.
4. Enjoy experiencing some of the exercises.

MORNSEM23: The CPCHECKlist®: A Parent-Reported Evaluation of Comorbidities for Children with Non-Ambulatory Cerebral Palsy and CP-Like Conditions.

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

Room: 206B

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. Become familiar with the CPCHECKList 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.

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4. Discover the applications for the (clinical) utility of the CPCHECKList in their own clinical and research settings.

MORNSEM24: Implementing and Evaluating a New Clinical Program using a Learning Health Systems Lens: Learnings from a Care Coordination Program for Children Living with Cerebral Palsy

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

Room: 303B

Learning Objectives:

1. Understand Learning Health Systems methodology and its real-world application to implementing and evaluating clinical care delivery innovations, using learnings from a specific cerebral palsy care coordination program
2. Identify a comprehensive evaluation strategy that prioritizes family wellbeing, allows for measuring program efficacy, and informs operational decisions to scale and sustain a clinical program.
3. Understand the importance of implementation frameworks and how one was specifically chosen and applied.
4. Identify early program results - including reviewing qualitative and quantitative outcomes, how data informed operational decisions, and what efforts were taken to address equity and inclusion.

MORNSEM25: Prehabilitation: Building Resilience Before Multi-Level Surgery (MLS) in Cerebral Palsy

Brittany A. Virgil, PT, DPT, Wade Shrader, MD, Laura L. Owens, MD, Nancy Lennon, BS, MS, DPT

Room: 205BC

Learning Objectives:

1. Review the process of patient identification, interdisciplinary case review and prehabilitation program development in a pediatric service specializing in cerebral palsy.
2. Highlight important elements of psychosocial screening, goal setting, and therapy plans of care that make up the prehabilitation program.
3. Participate in group discussion of patient cases.
4. Discuss the current literature related to prehabilitation and future research needs.

MORNSEM26: The Impact of Weight on Gait and Function in Spina Bifida

Jill Larson, MD, Vineeta T. Swaroop, MD, Tasos Karakostas, MPT, PhD, Ana-Marie Rojas, MD

Room: 304AB

Learning Objectives:

1. Review current literature about obesity risk and impact in both ambulatory and non-ambulatory patients with spina bifida
2. Understand the importance of preventing obesity in spina bifida through addressing individual, family, community and societal factors
3. Recognize components of the gait cycle and gait mechanics that are at risk for deterioration with increasing weight in the spina bifida patient
4. Utilize strategies to mitigate the impact of obesity and weight on gait in spina bifida through assistive devices or orthotic modifications

Program and Events – Friday, October 25, 2024

9:15 AM – 10:15 AM EDT

General Session

Room: 200C

Presidential Guest Lecture: Do We Need a New Definition of Cerebral Palsy?

Bernard Dan, MD, PhD, Michael Kruer, MD, Lynne Fogel, Wade M. Shrader, MD

10:15 AM – 10:45 AM EDT

Coffee Break in the Exhibit Hall

Room: 200AB

10:45 AM – 12:30 PM EDT

Free Paper Sessions E-H

Free Paper Session E: Early Development 1

Moderators: Iona Novak, AM, PhD, MSc (Hons) and Desiree Maltais, PT, PhD

Room: 204AB

10:45 AM - 10:52 AM EDT

E1: Development of Digitized Biomarkers Associated with Motor Developmental Delay in Preterm Infants

Yae Lim Lee, MD, Jeong Min Kim, MD, Sung Eun Hyun, MD, Han Tae Kim, MD, Moon Suk Bang, MD, Hyung-Ik Shin, MD, Jungwook Kim, MD, Hee Young Cha, MD, Woo Hyung Lee, MD

10:52 AM - 10:59 AM EDT

E2: Outcomes From the Knowledge Translation of Early Cerebral Palsy (Kite CP) Study: Predictive Validity of High Risk of CP Diagnosis.

Amanda K.L. Kwong, BaPhys(Hons), PhD, Abbey L. Eeles, PhD, Kate L. Cameron, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Catherine Morgan, PhD; BAppSc (Physio), Alicia Spittle, PhD

10:59 AM - 11:06 AM EDT

E3: Implementation of a State-Wide Early Detection Network Predicts Neurodevelopmental Outcomes at 2 Years in an at Risk Infant Cohort

Carly Luke, MAPaedPhys, BPT, Morgan Carlton, PhD, Christine Finn, BPT, Sarah Gibson, BPT, Bernadette Shannon, BOccThy, Ellena Oakes, BOccThy, Anya Gordon, MAPaedPhys, BPT, Kym Morris, BPT, Lynda McNamara, PhD, Joanne George, PhD, Rachel Thomas, BPT, Megan Kentish, BPT, Shaneen Leishman, PhD, Robert Ware, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

11:11 AM - 11:18 AM EDT

E4: Understanding Visual Maturation through Early Vision Screening in Very Preterm Infants

Karen L. Harpster, PhD, OTR/L, Melissa L. Rice, OD, Terry L. Schwartz, MD, Laura Hanson, BA, Andrew Pfander, BS, Nehal L. Parikh, DO

11:18 AM - 11:25 AM EDT

E5: Hammersmith Infant Neurological Examination: Usefulness for Prediction of Developmental Delay in Children Born Between 29 and 36-Weeks of Gestation

Léanne Brabant, erg., Catherine Bernard, Master, Véronique Belval, OT, Mélanie Gagnon, MSc, Marie-Michèle Gagnon, Master, Gabriel Côté-Corriveau, MD, Mathieu Dehaes, PhD, Thuy Mai Luu, MD, Marie-Noelle Simard, PhD

FRIDAY

Program and Events – Friday, October 25, 2024

11:25 AM - 11:32 AM EDT

E6: Motor Optimality Score-Revised and Hammersmith Infant Neurological Examination Predict High Likelihood of Autism at 12 Months Corrected Age in a Developmentally Vulnerable Infant Cohort.

Carly Luke, MAPaedSPhys, BPT, Katherine Benfer, PhD, Robert Ware, PhD, Shaneen Leishman, PhD, Margot Bosanquet, FRACP, Anya Gordon, MAPaedSPhys, BPT, Hailey Williams, BPT, Chloe Taifalos, BPT, Arend F. Bos, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

11:37 AM - 11:44 AM EDT

E7: Impact of Preterm Birth on Emotional Availability as Measured in the NICU at Near-Term Age

Corri L. Stuyvenberg, DPT, Rebecca Molinini, DPT, PhD, Corissa T. Rohloff, Jennifer Burnsed, MD, MS, Stacey C. Dusing, PhD

11:44 AM - 11:51 AM EDT

E8: Portable Technologies for the Early Assessment of Motor Development in Infants under 1 Year Old: A Systematic Review

Weiyang Deng, PT, PhD, Rachel A. Andersen, BS, Megan K. O'Brien, PhD, Arun Jayaraman, PhD PT

11:51 AM - 11:58 AM EDT

E9: A Follow-Up Study on The Outcomes of Infants Born Preterm at 4 Months After Participating in a Parent-Delivered Intervention Program in the Neonatal Intensive Care Unit.

Sandra Fucile, PhD, Laurie Snider, PhD, Kimberly Dow, MD

12:03 PM - 12:10 PM EDT

E10: Evolution of Independent Joint Control is Different in Infants With Higher Likelihood of Cerebral Palsy in the First Three Months of Life

Colleen Peyton, DPT, Ryan Millman, n/a, Raye-Ann deRegnier, MD, Theresa Sukal Moulton, PT, DPT, PhD

12:10 PM - 12:17 PM EDT

E11: Early Screening Tools Predict Neurodevelopmental Outcomes at 12 Months in a Developmentally Vulnerable First Nations Infant Cohort

Carly Luke, MAPaedSPhys, BPT, Leeann Mick-Ramsamy, Katherine Benfer, PhD, Robert Ware, PhD, Shaneen Leishman, PhD, Margot Bosanquet, FRACP, Anya Gordon, MAPaedSPhys, BPT, Hailey Williams, BPT, Chloe Taifalos, BPT, Ellena Oakes, BOccThy, Maria Smith, Megan Kentish, BPT, Lynda McNamara, PhD, Arend F. Bos, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

12:17 PM - 12:24 PM EDT

E12: Barriers Experienced by Caregivers of Preterm Infants in Active Implementation of Therapeutic Intervention from Hospital to Home in South India – A Qualitative Study

Manasa Kolibylu Raghupathy, MPT, Selim Jahangir, PhD, Sonia Khurana, PT, PhD, Leslie E. Edward S Lewis, DNB Pediatrics, Bhamini Krishna Rao, Sr., PhD

Program and Events – Friday, October 25, 2024

Free Paper Session F: Lifespan & Equity

Moderators: *Unoma Akamagwuna, MD and Mary Gannotti, PT, PhD*

Room: 205BC

10:45 AM - 10:52 AM EDT

F1: Social Determinants of Health in Adults with Chronic Low Back Pain and Cerebral Palsy

Julie Stutzbach, DPT, PhD, Cristina A. Sarmiento, MD, Theresa M. Sax, BS, Tanya S. Kenkre, PhD, MPH, Mary E. Gannotti, PhD, PT, Joyce Oleszek, MD

10:52 AM - 10:59 AM EDT

F2: Why Do Adults with Cerebral Palsy Get Hospitalized?

Michael J. Gouzoulis, BS, Ally Yang, MD, Anthony E. Seddio, BS, Jonathan N. Grauer, MD, David B. Frumberg, MD

10:59 AM - 11:06 AM EDT

F3: What Can Families, Society or Healthcare Systems Do to Reduce Concerns About Falling: Understanding the Lived Experience of Children and Adults with Cerebral Palsy Using a Phenomological Approach

Kari Pederson, MSW, LICSW, Marissa Esterley, MS, Sandy C. Tierney, PhD, MSSW, Linda E. Krach, MD, Nathan G. Wandersee, AS, Elizabeth R. Boyer, PhD

11:11 AM - 11:18 AM EDT

F4: Cardiovascular Disease in Adults with Cerebral Palsy

Michael J. Gouzoulis, BS, Meera M. Dhodapkar, BS, Ally Yang, MD, Tony Pastor, MD, Jonathan N. Grauer, MD, David B. Frumberg, MD

11:18 AM - 11:25 AM EDT

F5: Community Factors Related to Employment Pathways for Youth with Disabilities: A Realist Review

Amelia Hagelstam Renshaw, BA, Mehrnoosh Movahed, MD, Linda Nguyen, PhD, Roberta Cardoso, PhD, Keiko Shikako, PhD

11:25 AM - 11:32 AM EDT

F6: Exploring the Use of the Transition Readiness Assessment Questionnaire (TRAQ) Among Adults with Cerebral Palsy: A Qualitative Study

Cristina A. Sarmiento, MD, Hannah Friedman, MD, Chloe Glaros, MPH, MSW, Christine Petranovich, PhD, Brooke Dorsey Holliman, PhD

11:37 AM - 11:44 AM EDT

F7: Performance of Reference Centiles in Describing the Distribution and Progression of Gross Motor Development in a Large Cerebral Palsy Clinical Cohort

Francis Eusebio, MD, Rachel Sanderlin, BA, Charlotte Schluger, BA, Joe Wu, PhD, Laura A. Prosser, PT, PhD

11:44 AM - 11:51 AM EDT

F10: "We Don't Know What to Do with an Adult": A Qualitative Study on the Transition to Adult Care and Priorities for Adult Cerebral Palsy Care

Cristina A. Sarmiento, MD, Christine Petranovich, PhD, Chloe Glaros, MPH, MSW, Hannah Friedman, MD, Brooke Dorsey Holliman, PhD

11:51 AM - 11:58 AM EDT

F11: Polypharmacy and Associated Patient Factors in Adults with Cerebral Palsy

Laura K. Brunton, PT, PhD, Caitlin Cassidy, MD, FRCPC, Joshua Wiener, Karen Pratt, BScKin, MSc

Program and Events – Friday, October 25, 2024

11:58 AM - 12:05 PM EDT

F12: Incidence Of Lymphedema and Associated Factors Among Adults With Cerebral Palsy

Christine Gettys, MA, Sean Smith, MD, Kimberly K. Rauch, DO, Daniel G. Whitney, PhD

Free Paper Session G: Orthopaedics 2

Moderators: Andrew Georgiadis, MD and Jill Larson, MD

Room: 206B

10:45 AM - 10:52 AM EDT

G1: Is the CPCHILD Questionnaire Responsive - Assessing HRQoL Changes and Performance of the CPCHILD After Hip and Spine Surgery in Children with Severe Cerebral Palsy

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

10:52 AM - 10:59 AM EDT

G2: Pneumonia Induced Mortality and Risk of Pneumonia in Children with Cerebral palsy with Scoliosis Treated With and Without Surgery

Matti Ahonen, MD, PhD, Ira Jeglinsky-Kankainen, PhD, Mika Gissler, PhD, ilkka Helenius, MD

10:59 AM - 11:06 AM EDT

G3: Improving Detection of Underlying Neurologic Etiology for Pediatric Cavovarus Foot Deformity: We Can Do Better

Michelle Christie, MD, Rusty L. Hartman, MS, Michael O'Sullivan, MD, Jacob Zide, MD, Anthony Riccio, MD

11:11 AM - 11:18 AM EDT

G4: Burying Flexible Nails in the Femoral Canal Distally Prevents the Need for Removal Surgery in Non-ambulatory Children with Cerebral Palsy

Luiz Carlos Almeida da Silva, Yusuke Hori, MD, Burak Kaymaz, M.D, Kenneth Rogers, PhD, Arianna Trionfo, MD, Jason Howard, MD, Richard Bowen, MD, Wade Shrader, MD, Freeman Miller, MD

11:18 AM - 11:25 AM EDT

G5: The Influences of Functional Level, Muscle Type, and Botulinum Toxin on Hamstring Muscle Morphology for Children with Cerebral Palsy: An Ex Vivo Analysis of Contractile Tissue and Collagen Content

Karyn Robinson, MS; Venus Joumaa, PhD; Stephanie Lee, MS; Robert E. Akins, PhD; Timothy Leonard, PhD; Walter Herzog, PhD; Wade Shrader, MD; Jason J. Howard, MD

11:25 AM - 11:32 AM EDT

G6: Greater Implant Density Does Not Improve Pelvic Obliquity and Major Curve Correction in Neuromuscular Scoliosis

Patrick Thornley, MD, MSc, FRCSC, Arlene Maheu, Kenneth Rogers, PhD, ATC, Peter Gabos, MD, M. Wade Shrader, MD, Suken A. Shah, MD

11:37 AM - 11:44 AM EDT

G7: Disparities in Access to and Type of Spinal Deformity Surgery for Children with Cerebral Palsy and Neuromuscular Scoliosis

Luis Torres-Gonzalez, BS; Christopher D. Seaver, BS; Sara Morgan, PhD; Rhonda G. Cady, PhD, RN; Zelfhia C. Brown, MPH; Daniel Miller, MD

Program and Events – Friday, October 25, 2024

11:44 AM - 11:51 AM EDT

G9: Impact of Comorbidities on Mortality in Neuromuscular Patients with Early Onset Scoliosis

Taylor Adams, BS, Bhavana Gunda, BS, Sydney Lee, BA, Maria F. Canizares, MD MPH, Yoko Matsumoto, PhD, Mark A. Erickson, MD, MMM, John Smith, MD, Pediatric Spine Study Group, n/a, Brian D. Snyder, MD, PhD, Hiroko Matsumoto, PhD

11:51 AM - 11:58 AM EDT

G10: Morphological Variations in the Talus and Calcaneus Following Lateral Column Lengthening in Adults with Cerebral Palsy

Andrew Peterson, MS, Kassidy Knutson, MS, Joseph J. Krzak, PT, PhD, Peter Smith, MD, Karen M. Kruger, PhD, Amy Lenz, PhD

12:03 PM - 12:10 PM EDT

G11: Distal Radius Fracture Repair in Adults with Cerebral Palsy

Michael J. Gouzoulis, BS, Alexander J. Kammiem, BS, Maxwell Modrak, MD, Ally Yang, MD, David Colen, MD, Jonathan N. Grauer, MD, David B. Frumberg, MD

12:10 PM - 12:17 PM EDT

G12: A Suture-Based Approach for Correction of Fixed Knee Flexion Deformity in Skeletally-Immature Patients with Cerebral Palsy

Mathangi Sridharan, MD, Nakul Talathi, MD, Enda Kelly, MD, Daniel Weltsch, MD, Rachel M. Thompson, MD

Free Paper Session H: Therapeutic Interventions

Moderators: Kristie Bjornson, PT, PhD, MS and Nancy Lennon, DPT, MS, PT

Room: 302AB

10:45 AM - 10:52 AM EDT

H1: Power Training combined with Interval Treadmill Training to Improve Walking Activity in Cerebral Palsy: A Randomized Controlled Trial

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

10:52 AM - 10:59 AM EDT

H2: The efficacy of the Hand-Arm Bimanual Intensive Therapy Including Lower Extremities (HABIT-ILE) in young children with bilateral cerebral palsy in a low-income country: a randomized trial.

Emmanuel S. Sogbossi, PhD, Daniela Ebner-Karestinos, PhD, Geoffroy Saussez, PhD - Physiotherapist, Julie Paradis, PhD, Solange Sotindjo Adon, PT, Solange Dossou, PT, Toussaint Kpadonou, MD, Rodrigo Araneda, PhD, Yannick Bleyenheuft, PhD

10:59 AM - 11:06 AM EDT

H3: Impact of HABIT-ILE on Infants with Unilateral Cerebral Palsy: A Randomized Trial

Astrid Carton de Tournai, PT, Enimie Herman, PT, Daniela Ebner-Karestinos, PhD, Estelle Gathy, PT, Rodrigo Araneda, PhD, Célia De Clerck, PT, Seyma Kilcioglu, PT, Laurence Dricot, Institute of Neuroscience, UCLouvain, PhD, Benoit Macq, PhD, Yves Vandermeeren, PhD, Yannick Bleyenheuft, PhD

11:11 AM - 11:18 AM EDT

H4: Effects of Power Training combined with Interval Treadmill Training on Muscle Performance in Youth with Cerebral Palsy as Compared to Traditional Approaches: A Randomized Controlled Trial

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

Program and Events – Friday, October 25, 2024

11:18 AM - 11:25 AM EDT

H5: Efficacy of Intensive Training Targeting Mobility for Children and Adolescents with Cerebral Palsy: A Systematic Review And Meta-Analysis

Isabella P. Sudati, PT, Leanne Sakzewski, PhD, Bachelor Occupational Therapy, Carolina da Silva, Michelle Jackman, Matthew Haddon, Dayna Pool, Maharshi Patel, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Ana Carolina de Campos, PhD

11:25 AM - 11:32 AM EDT

H6: Blinded, Randomized Trial Comparing Constraint Induced Movement Therapy with Virtual Reality to Constraint Induced Movement Therapy Alone

Heather Roberts, PhD, Angela Shierk, PhD, Alex Loewen, MS, Sophia Ulman, PhD, Nancy Clegg, PhD, Debbie Baldwin, BS, Sydney Chapa, BS, Ashley Erdmen, BS, Briana Arellano, BS, Madison Trahan, BS, Fabiola Reyes, MD

11:37 AM - 11:44 AM EDT

H7: Comparison of Muscle Volume and Muscle Belly Length in Children with Spastic Cerebral Palsy without Treatment History from Suriname and with Treatment History from Belgium

Fenna Walhain, PhD, Britta Hanssen, PhD, Ruby Chin A Fat, MSc, Marlies Declerck, PhD, Chelsi Bardan, MSc, Delaja Plein, MSc, Rhea Cruden, MD, Lynn Bar-On, PhD, Anja Van Campenhout, MD, PhD, Kaat Desloovere, PhD

11:44 AM - 11:51 AM EDT

H8: Speech and Language Development in Children with Cerebral Palsy and Seizures: A Cross-Sectional Clinical Screening Study

Helen L. Long, PhD, CCC-SLP, Karen Romer, RN, David Spence, MD, William C. Warner, Jr., MD, Leslie Rhodes, DNP, PPCNP-BC, DNP, PPCNP-BC

11:51 AM - 11:58 AM EDT

H9: Adherence of Parent-Delivered Play Activities for Very Preterm Infants Drops During the Transition from NICU to Home.

Shaaron Brown, PT, Jenniifer Burnsed, MD, Richard D. Stevenson, MD, Leroy R. Thacker, PhD, Christine Spence, PhD, Stacey C. Dusing, PhD

12:03 PM - 12:10 PM EDT

H10: Variation in Occupational Therapy Care Delivery for Individuals with Cerebral Palsy by Age, Gross Motor Function, Manual Ability and Area Deprivation Index

Amy F. Bailes, PT PhD, Amber Sheehan, OTR/L, Emma M. Austing, Jillian Kreimer, Li Lin, MS, Jenny M. Dorich, PhD

12:10 PM - 12:17 PM EDT

H11: Efficacy of Upper Limb Therapies for Children with Cerebral Palsy: A Systematic Review and Network Meta-analysis.

Andrea N. Burgess, B Occ Thy I, Grad Cert Epi, PhD, Mark D. Chatfield, BA, Michelle Jackman, B Occ Thy, PhD, Megan Thorley, Msc, Bachelor of Occupational Therapy, Sarah E. Reedman, PhD, Bachelor of Physiotherapy, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Leanne Sakzewski, PhD, Bachelor Occupational Therapy

12:17 PM - 12:24 PM EDT

H12: Exploring Parent Perspectives After Intensive Telerehabilitation for Children with Hemiparesis: A Qualitative Analysis

Elizabeth Maus, PT, Angela Rittler, OTD, Kylie L. Amon, Stephanie C. DeLuca, PhD, Jill Heathcock, MPT, PhD, Warren Lo, MD, Amy Darragh, PhD

Program and Events – Friday, October 25, 2024

1:30 PM – 2:30 PM EDT

Coffee Break and Exhibit / Poster Review
(Odd-numbered poster presenters available during this time)

Room: 200AB

1:45 PM – 2:15 PM EDT

International Scholar Highlight

Room: 207

2:30 PM – 4:30 PM EDT

Mini Symposia 14–26

MINISYMP14: Implementation of the LEAP Program for the Early Detection of Infants at High Risk of Cerebral Palsy and Implementation of Early Intervention in Low Resource Settings.

Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Ana Bedoshvilli, MBBS, Golam Moula, B Social Work, Katherine Benfer, PhD

Room: 202

Learning Objectives:

1. Upon completion Participants will be informed about implementation of feasible and accurate early detection methods suitable for LMICs.
2. Upon completion Participants will be informed about tools including GMA, MOS-R, HINE for CP and SACS-R for Autism.
3. Upon completion Participants will be informed about the cultural adaptations required to enhance engagement of Australian First Nations families in early surveillance.
4. Upon completion Participants will be informed about implementing EB approaches to Early Intervention in LMICs for infants at high risk of CP (India, Sri Lanka, Georgia, Australia).

MINISYMP15: Empower360: Navigating EDIT-CP (Early Detection and Intervention Toolkit for Cerebral Palsy) for Primary Care Physicians, Rehabilitation Specialists, and Caregivers

Tatiana Ogourtsova, PhD OT, Jessica Hanson, BSc (Honors), MSc, Annette Majnemer, BSc, MSc, PhD, Darcy Fehlings, MD FRCP(C), MSc

Room: 203

Learning Objectives:

1. Demonstrate a comprehensive understanding of the early detection strategies outlined in the EDIT-CP Toolkit, focusing on attributes detectable by primary care providers and caregivers.
2. Demonstrate a comprehensive understanding of the early intervention strategies outlined in the EDIT-CP Toolkit, focusing on evidence-based rehabilitation approaches.
3. Effectively navigate the online toolkit and readily apply the learned strategies in real-world scenarios.
4. Contribute to collaborative problem-solving discussions about the mobilization of evidence-based practices to foster improved outcomes in the early care journey for children with CP.

MINISYMP16: Equity-Based Co-Creation in Childhood Disability: Innovation in Service Design, Clinician Training, Tool Development, and Family Engaged Research

Michelle Phoenix, PhD, Meaghan Reitzel, OT, Karen Hurtubise, PhD, Martine Nault, BA, Vanessa Tomas, PhD, Samantha K. Micsinszki, PhD, Meaghan Reitzel, OT

Room: 206A

Program and Events – Friday, October 25, 2024

Learning Objectives:

1. Identify the key elements (philosophy, methods, outcomes) of EqCC as applied to childhood disability contexts.
2. Appraise examples to determine how EqCC can be applied in their own clinical or research environments to enhance service or tool development, engagement in service design or research, and training.
3. Recognize the challenges in engaging marginalized groups in EqCC and generate solutions for addressing these barriers.
4. Determine whether any of the co-design materials presented (clinical tool, clinical training, telerehabilitation solutions) are applicable for use in their own environment. These products are available for audience members.

MINISYMP17: Advocacy Strategies for Health Equity: Multi-Step Actions for a Multi-Level Challenge

Verónica Schiariti, MD MHSc PhD, Lauren Fetsko, DO, Naomi Lorch, PhD, PT, Brenda Agnew, BA, Melissa Villegas, MD

Room: 206B

Learning Objectives:

1. Introduce global evidence on health equity/inequity of people with disabilities.
2. Discuss ableism using practical examples
3. Highlight the importance of self-advocacy in health equity and ableism
4. Review concrete examples of advocacy strategies to achieve meaningful inclusion

MINISYMP18: Translating the NINDS Cerebral Palsy Common Data Elements (CP CDEs): Discover Ways to Advance Your Research, Clinical, and Educational Productivity While Shaping the Next Generation of CP CDEs.

Joline E. Brandenburg, MD, Theresa Sukal Moulton, PT, DPT, PhD, Angela Shierk, PhD, Verónica Schiariti, MD MHSc PhD, Susan Sienko, PhD

Room: 207

Learning Objectives:

1. Define CP CDEs, case report forms, and instruments.
2. Identify one way you can use the CP CDEs in research, clinic, or in an educational setting.
3. Describe the process for developing and updating CP CDEs and instruments.
4. Generate one recommendation for updating the CP CDEs.

MINISYMP19: Global Low- and Middle-Income Country Cerebral Palsy Register- Changing Landscape of Cerebral Palsy Registers for the Majority World Population.

Nadia Badawi, MBBCh, MSc, DCH, FRCPC, PhD, FRCPI, Mohammad Muhit, MBBS, MSc, MSc, PhD, Gulam Khandaker, MBBS, DCH, MPH, PhD, FAFPHM, Israt Jahan, B.Sc., MS, MPH, PhD, Maria de las Mercedes Ruiz Brunner, PhD, Thembi J. Katangwe, MBBS, MMED Paeds, MPhil Neuro Paeds

Room: 301A

Learning Objectives:

1. Describe and compare the different innovative methods for population-based and institution-based survey/surveillance in low- and middle-income countries.

Program and Events – Friday, October 25, 2024

2. Replicate and adapt the process of establishing multi-country network/ collaboration and conduct epidemiological research on cerebral palsy in low resource settings.
3. Describe the epidemiology of cerebral palsy among children in low- and middle-income countries.
4. Identify potential scopes for collaboration and future research on cerebral palsy in low- and middle-income countries.

MINISYMP20: Surveillance and Management of Hip Displacement in Children with Cerebral Palsy: Clinical and Ethical Dilemmas

Jason Howard, MD, Benjamin J. Shore, MD, MPH, FRCSC, Kerr Graham, MD, MD, Erich Rutz, MD

Room: 205BC

Learning Objectives:

1. To review new thinking on the pathophysiology of hip displacement (HD) in cerebral palsy (CP)
2. To review the state of hip surveillance in CP
3. To review the role of preventative orthopedic surgery for HD in CP
4. To review the best evidence regarding long term outcomes and goals of reconstructive surgery for HD in CP, including controversies and ethical dilemmas

MINISYMP21: More Than an IQ Score: Challenges and Opportunities for Accurately Evaluating Cognitive Strengths and Weaknesses in Children with Cerebral Palsy

Brooke Kimbrell, MD, MSE, Samudragupta Bora, PhD, Eric M. Chin, MD, Anastasia Wilson, BA, Maegan Newell, MD, Sanaya Shenoy, MSPH

Room: 301B

Learning Objectives:

1. Upon completion, participants will be able to identify indications for cognitive evaluation in people with CP
2. Upon completion, participants will be able to describe common patterns of cognitive challenges faced by children with CP
3. Upon completion, participants will be able to describe the importance of accurate, equitable cognitive evaluation to match abilities and resources
4. Upon completion, participants will be able to discuss knowledge and resource gaps limiting accurate cognitive evaluation for children with CP

MINISYMP22: Parallel Lines Never Meet – So How Can We Connect Parents, Providers, and Healthcare Systems to Improve Care for Children with Disabilities?

Elizabeth A. Hill, DO, Kinga Pozniak, PhD, Alyssa M. Robison, DO, Kim Hesketh, MS, Rachel E. Martens, Alison A. Martens, none, Nancy A. Murphy, MD

Room: 302AB

Learning Objectives:

1. Upon completion, participants will be able to describe the experiences of families of children with disabilities in healthcare systems.
2. Upon completion, participants will be able to reflect on their experiences in caring for their children, including barriers to providing the kind of care they would like to provide.
3. Upon completion, participants will be able to explore strategies to advance healthcare delivery for families of children with disabilities through education, enhanced communication training, and workforce development.

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4. Upon completion, participants will be able to identify three changes to make in their own practices to improve the experience of healthcare delivery for patients, families, and providers.

MINISYMP23: Research and Clinical Application of the Gross Motor Function Measure Item Set in Children 2–24 months of age.

Stacey C. Dusing, PhD, Lin-Ya Hsu, PhD, Silvana A. Pereira, Dr, Shaaron Brown, PT

Room: 303A

Learning Objectives:

1. Upon completion, the participant will be able to describe the pros and cons of the GMFM and GMFM item set
2. Upon completion of this course we focused on neonatal intensive care.
3. Upon completion of this course, the participants will be able to make describe 2 new locations they want to trader.
4. Upon Completion, the researcher will describe how they would implement this took in to research for a child under 12 months.

MINISYMP24: Selective Dorsal Rhizotomy: Multi-Center Perspective on Surgical Techniques, Selection Criteria, and Functional Outcomes

Amy E. Barbuto, PT, DPT, Daniel Curry, MD, Aloysia L. Schwabe, MD, Jeffrey Shilt, MD, Jean L. Stout, PT, MS, PhD(c), Michael T. Healy, MD, Mark Gormley, Jr., MD

Room: 204AB

Learning Objectives:

1. List two similarities in surgical techniques between traditional and focal SDR procedures.
2. List two differences in surgical techniques between traditional and focal SDR procedures.

3. Describe three selection criteria for focal SDR.
4. Describe three selection criteria for traditional SDR.

MINISYMP25: The World of Modified Sports: Illuminating the Pathway for People with Disability to Enter into, Participate in, and Excel at Leisure Time Physical Activity

Ricardo Sousa Junior, Jr., MSc, Georgina Clutterbuck, PhD, Hercules R. Leite, Sr., PhD

Room: 303B

Learning Objectives:

1. Upon completion, participants will understand: The treatment components of modified sports interventions
2. The state of the evidence regarding the effectiveness of modified sports for children with disability
3. The implications of implementation of modified sports in different contexts within a global context (Australia & Brazil)
4. How to apply their new knowledge of modified sports interventions to implement these interventions for children of different ages and with different impairments in varying contexts.

MINISYMP26: Top 10 Articles in Developmental Disabilities

Kilby Mann, MD, Garey H. Noritz, MD

Room: 304AB

Learning Objectives:

1. To describe recent publications and updates related to the care of children with CP and related disabilities.
2. Describe what is known and future directions related to current topics in the care of children with CP and related disabilities.

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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).

4:30 PM – 7:00 PM EDT

Leisure Time

7:00 PM – 11:59 PM EDT

Networking Gala

Please join us as well for dinner as part of the Networking Gala at the Québec Armoury on Friday, October 25. The beautiful stone architecture and soaring ceilings in a venue classified as a National Historic Site will surely set the stage for an enjoyable evening. Most of all, it will provide a fantastic backdrop for spending time together and, of course, dancing.

***Ticket Required**



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The graphic features a pink semi-transparent overlay on a background image of a person wearing glasses. The AACPDM logo is in the top right corner, and a hand cursor icon is in the bottom left corner.

Program and Events – Saturday, October 26, 2024

7:00 AM – 8:00 AM EDT

Breakfast in the Exhibit Hall

Room: 200AB

8:00 AM – 9:00 AM EDT

Morning Seminars 27-39

MORNSEM27: Care Pathway to Early Diagnosis of Cerebral Palsy for Community Providers

Ram A. Mishaal, MD, Mor Cohen-Eilig, MD, Olivia Scoten, Vivian Wong

Room: 202

Learning Objectives:

1. Describe the steps along the BC Cerebral Palsy Community Diagnostic Care Pathway;
2. Develop a plan to understand barriers pediatricians practicing in the community may face in implementing clinical guidelines pertaining to early CP diagnosis;
3. Identify partners and stakeholders for possible KT collaboration to enable early diagnosis of CP
4. Conceptualize KT ideas such as a care pathway to enable early diagnosis of CP

MORNSEM28: Considerations for Effective School Readiness Assessment of Children with Cerebral Palsy

Stina Oftedal, PhD, B Hlth Sc (Diet), Samudragupta Bora, PhD, Leanne Sakzewski, PhD, Bachelor Occupational Therapy, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

Room: 203

Learning Objectives:

1. Upon completion, participants will be able to describe the conceptual framework of School Readiness and associated risk and protective factors.

2. Upon completion, participants will be able to describe current knowledge of the school readiness of children with CP, and the effect of early intervention.
3. Upon completion, participants will be able to list the best available tools for school readiness assessment in children with CP, and understand their limitations.
4. Upon completion, participants will be able to apply the knowledge presented to develop practical solutions for effective school readiness assessment of children with CP to optimise their transition to school.

MORNSEM29: Have We Done Enough?: Attitudes Towards Disability in Healthcare

Ashley H. Harris Whaley, MS, CCC-SLP, Justin W. Ramsey, MD, Kathleen N. Friel, PhD

Room: 204AB

Learning Objectives:

1. Gain an understanding of ableism and identify its prevalence embedded within society and healthcare related fields.
2. Identify treatment barriers, biases and stigma faced by individuals with disabilities and understand the need for formalized disability-focused training in healthcare-related fields.
3. Consider the importance of knowledge translation between medical professionals and people with disabilities and how that impacts care delivery and outcomes.
4. Discuss strategies for including disability-centric education in core curriculums for healthcare specialties and explore the value of attracting and retaining more individuals with disabilities as healthcare providers.

Program and Events – Saturday, October 26, 2024

MORNSEM30: Health Promotion and Obesity Management in Individuals with Developmental Disabilities

Anton Dietzen, MD, Tarra Dendinger, PT, MS, Margaret Tunney

Room: 206A

Learning Objectives:

1. Review obesity risk factors in individuals with developmental disabilities and become familiar with pharmacologic care of obesity in youth and young adults with developmental disabilities
2. Discuss behavioral considerations to support weight management in youth with developmental disabilities
3. Review the recommended guidelines for physical activity and barriers to participation
4. Discuss nutrition approaches for weight management

MORNSEM31: Intensity and Principles of Motor Learning: Integrating Research into Everyday Clinical Practice

Bhavini K. Surana, PT, EdD, Grace-Anne M. Herard, PT, EdD

Room: 207

Learning Objectives:

1. Define intensity and discuss how it has been defined in cerebral palsy rehabilitation literature
2. Describe commonalities across various intensive interventions designed to improve motor function in children with cerebral palsy
3. Apply a motor learning framework to create treatment strategies to accomplish children's functional goals.
4. Develop an intensive training plan for each activity that incorporates a corresponding progression/shaping program for different clinical cases

MORNSEM32: New Technologies in Severe Cerebral Palsy: Evidence-Based Research Toward Independent Mobility, Communication, and Computer Access

Saranda Bekteshi, PhD, Elegast Monbaliu, PhD

Room: 205BC

Learning Objectives:

1. Get acquainted with new (unconventional) technologies and the current evidence that supports their use in individuals with severe motor impairments, including the goal group of severe CP.
2. Acquire practical techniques using evidence-based guidelines to introduce, trial, and implement powered mobility with head-foot steering systems and eye-tracking technology through structured and intensive training programs.
3. Assess efficacy and progress using reliable, cost- and time-efficient tools that would further assist in optimizing training programs to meet individual needs and capabilities.
4. Understand the current gaps and future perspectives within emerging technologies with alternative access methods, encouraging innovative ideas and fostering initiatives for new multidisciplinary collaborations that will advance the field.

MORNSEM33: Orthopedic Aspects of Spinal Muscular Atrophy: Implications for Surveillance and Treatment in the Era of Disease-Modifying Therapies

Jason J. Howard, MD, Matthew Halanski, MD, Wade Shrader, MD, Saunder Bernes, MD

Room: 301A

Learning Objectives:

1. Describe the current evidence for the use of disease modifying treatments for spinal muscular atrophy, in particular their impact on improvements in gross motor function

Program and Events – Saturday, October 26, 2024

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.
3. Identify important landmarks on a hip surveillance radiograph used for quantifying hip displacement.
4. Understand protocols for proper positioning of children to obtain accurate hip surveillance radiographs and recognize features of poor patient positioning that could cause inaccuracy of the migration percentage measurement.

MORNSEM34: Considering the Hidden Effects of Hearing Loss

Mary Jo Cooley Hidecker, PhD, MA,
MS, CCC-A/SLP

Room: 301B

Learning Objectives:

1. Participants will be able to describe hearing loss characteristics.
2. Participants will be able to list hearing loss effects on communication.
3. Participants will be able to discuss hearing aid and cochlear implants options.
4. Participants will be able to discuss assistive listening technology options.

MORNSEM35: HipScreen App: A Validated Tutorial for Teaching Hip Surveillance X-Rays Measurement to the Radiology Novice

Vedant A. Kulkarni, MD, Kyra Kane, BScPT, MSc,
PhD, Donald Kephart, MD, Jon R. Davids, MD

Room: 302AB

Learning Objectives:

1. Use the free HipScreen App to measure a hip's migration percentage.
2. Appreciate the role of the HipScreen app in removing barriers to implement a hip surveillance program in their community.

MORNSEM36: Recent Advances in the Genetic Architecture of Cerebral Palsy: What is a Clinician to Do?

Darcy Fehlings, MD FRCP(C), MSc, Richard F. Wintle, PhD, Michael C. Krueer, MD, Maryam Oskoui, MD

Room: 206B

Learning Objectives:

1. Describe the differences between genetic testing (e.g., whole genome sequencing, exome sequencing, CP gene panels) and the clinical implications of ordering specific tests
2. Describe research developments in 'Genomics' of cerebral palsy (CP) including a framework to understand the potential impact on brain development/function
3. Describe the clinical implications of genomics findings on the etiologic work-up for individuals with CP
4. Describe clinical actionability of genomic findings on care/management in individuals with CP

MORNSEM37: Recent Practice Changing Publications for the Pediatric Complex Care Provider (2024)

Kristie Malik, MD, Anna Jesus, MD, Kurtis T. Sobush, MD

Room: 303A

Learning Objectives:

1. Discuss current topics and advances in the care of children with medical complexity.

Program and Events – Saturday, October 26, 2024

2. Understand the multidisciplinary implications for each recent publication.
3. Identify methods to integrate findings into clinical practice.
4. Learn novel practical research in realms of patient-prioritized outcomes, health equity, and/or health care delivery including implementation science.

MORNSEM38: Treatment of children with Walking Impairments: What Do Patients Want, and What Can We Deliver?

Michael H. Schwartz, PhD, PhD, Andrew G. Georgiadis, MD

Room: 303B

Learning Objectives:

1. Upon completion, audience members will be able to define the ICF framework for patients with walking impairments and CP. They will also define the GOAL questionnaire's assessment of family priorities.
2. Upon completion, audience members will be able to explain the difference between correlation and causation in the context of specific treatments for patients with cerebral palsy and walking impairment.
3. Upon completion, audience members will be able to generally understand how treatment outcomes can be predicted from large data sets using causal methodology, counterfactuals, and machine learning.
4. Upon completion, audience members will be able to apply the presented treatment outcome predictions to their own patients who are under consideration for gait treatment.

MORNSEM39: Creating Technology to Increase Function in Children

Sarah H. Evans, MD, Laura A. Prosser, PT, PhD

Room: 304AB

Learning Objectives:

1. Define the “dream team” for creating meaningful technology for pediatric rehabilitation
2. List the appropriate steps required to create a successful technology product
3. Identify the value of end user participation in the development of technology
4. Define motor control and its importance in function

8:15 AM – 3:00 PM EDT

Community Forum

Room: 2000D

9:00 AM – 9:30 AM EDT

Coffee Break in the Exhibit Hall

Room: 200AB

9:30 AM – 11:15 AM EDT

Free Paper Sessions I-L

Free Paper Session I: Basic Science & Genetics

Moderators: Michael Kruer, MD and Eric Chin, MD

Room: 204AB

9:30 AM - 9:37 AM EDT

I1: Developmental Motor Neuron Survival Contributes to Neuromotor Disorders

Joline E. Brandenburg, MD, Matthew Fogarty, DVM, PhD, Wen-Zhi Zhan, MD, Gary C. Sieck, Ph.D., PhD

9:37 AM - 9:44 AM EDT

I2: Using Vertebral Growth Modulation to Correct Kyphosis: Feasibility Study in the Hyperkyphotic Porcine Model.

Matthew Halanski, MD, Cameron Jeffers, BS, Brittney Kokinos, MS, Thomas D. Crenshaw, MS, PhD, Dave Bennett, MD

Program and Events – Saturday, October 26, 2024

9:44 AM - 9:51 AM EDT

I3: Proteomic Analysis of Spastic and Non-Spastic Muscles Reveals Cellular Alterations in the Absence of Fibrosis

Kristen Stearns-Reider, PhD, PT, Rachel M. Thompson, MD, Kirk Hansen, PhD, Mark Maslanka, BS, Yiran Deng, BS, Kara M. Shin, MS, Michelle Ma, BS, Richard E. Bowen, MD

9:56 AM - 10:03 AM EDT

I4: Muscle Morphology and Stiffness in Spastic Hemiplegic Cerebral Palsy Versus Typically Developing Controls Using Magnetic Resonance Elastography

Diego Caban-Rivera, BS; Curtis L. Johnson, PhD; Daniel Smith, PhD; Wade Shrader, MD; Chris Church, MPT; Ellie Montufar Wright, BA; Faaiza Kazmi, MD; Arianna Trionfo, MD; Jason J. Howard, MD

10:03 AM - 10:10 AM EDT

I5: Validation of Machine-Learning Based Automatic Diagnostic Tests for Cerebral Palsy

Jonathan R. Hicks, BS, Karyn Robinson, MS, Robert E. Akins, PhD

10:10 AM - 10:17 AM EDT

I6: Genetics of Idiopathic Toe Walking

Jeremy Bauer, MD, Jon R. Davids, MD, Susan Sienko, PhD

10:22 AM - 10:29 AM EDT

I7: Reliance on Visual Feedback of Hand Position in Typically Developing Children

Triet Lu, BS, Rachel L. Hawe, DPT, PhD

10:29 AM - 10:36 AM EDT

I8: Differences in Symmetric and Asymmetric Bilateral Coordination in Children with Hemiparetic Cerebral Palsy

Samuel T. Nemanich, PhD, MSCJ, Cassandra J. Kemmel-Bartletti, MS, Meghann Sytsma, BS, Karin Goodfriend, MD, MPT, Sheila Schindler-Ivens, PhD, PT

10:36 AM - 10:43 AM EDT

I9: Assessing Neuromuscular Efficiency by Cardiopulmonary Exercise Testing in Spinal Muscular Atrophy with 3 copies of SMN2

Warren A. Marks, MD, Stephanie Acord, MD, Lindsay Jacobs, PT, DPT, Avery R. Caraway, MS, Britney Rhem, MD, Marcie Baldwin, MSN

10:48 AM - 10:55 AM EDT

I10: Single Cell RNA Sequencing Reveals Disrupted In Vivo Transcription of Stem Cells in Muscle Contractures of Children with Cerebral Palsy

Madison Stewart, BS, Lin-Ya Hu, BS, Taryn Loomis, BS, Lizbeth Macias De La Torre, Vedant A. Kulkarni, MD, Marie Villalba, BA, Jon R. Davids, MD, Lucas R. Smith, PhD

10:55 AM - 11:02 AM EDT

I11: The Role of Circular RNA Nuclear Factor IX (CircNFIX) in Regulating MEF2C Levels in Spastic Cerebral Palsy

Brigette M. Romero Carpio, MS, Parsa Hoque, MS, Karyn Robinson, MS, Stephanie Lee, MS, Vijay Parashar, PhD, Robert E. Akins, PhD, Mona Batish, PhD

Program and Events – Saturday, October 26, 2024

11:02 AM - 11:09 AM EDT

I12: Expression of Micrnas and Target Genes Associated With Extracellular Matrix Remodeling and Mitochondrial Function Are Improved Following Intensive Exercise Training in Children With Cerebral Palsy
Noelle G. Moreau, PT, PhD, Joel Licea, PhD, Liz Simon Peter, PhD

Free Paper Session J: Early Development 2

Moderators: Lisa Letzkus, PhD RN CPNP-AC and Colleen Peyton, PT, DPT

Room: 205BC

9:30 AM - 9:37 AM EDT

J1: Associations Between Clinically Accessible Neonatal MRI Scoring and 6-Year Motor Outcomes in a Prospective Longitudinal Cohort of Infants Born Preterm

Karen H. Mistry, DPT, BExSS, Samudragupta Bora, PhD, Kerstin Pannek, PhD, Alex M. Pagnozzi, PhD, Simona Fiori, MD, PhD, Andrea Guzzetta, MD, PhD, Robert Ware, PhD, Paul B. Colditz, MBBS, FRACP, FRCPC, MBIomedEng, DPhil, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Joanne George, PhD

9:37 AM - 9:44 AM EDT

J2: The Impact of Early Intervention Timing on Short-term Outcomes: A Composite Score Analysis of the Supporting Play Exploration and Early Development Intervention Trial

Stacey C. Dusing, PhD, Mark R. Conaway, PhD, Richard D. Stevenson, MD, Shaaron Brown, PT, Rebecca Molinini, DPT, PhD

9:44 AM - 9:51 AM EDT

J3: Effect of Family-Centered Care Interventions on Motor and Neurobehavior Development of Very Preterm Infants: a Systematic Review and Meta-analysis
Manasa Kolibylu Raghupathy, MPT, Shradha S Parsekar, MPH, Shubha R. Nayak, PT, Kalesh M Karun, PhD, Sonia Khurana, PT, PhD, Alicia Spittle, PhD, Leslie Edward S Lewis, DNB Pediatrics, Bhamini Krishna Rao, Sr., PhD

9:51 AM - 9:58 AM EDT

J4: Harnessing Neuroplasticity to Improve Motor Performance, Cognition, and Function in Infants with Cerebral Palsy: A Randomized Controlled Trial

Catherine Morgan, PhD; BAppSc (Physio), Nadia Badawi, MBBCh, MSc, DCH, FRCPC, PhD, FRCPI, Alicia Spittle, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Adrienne Kirby, BSc (hon I), MSc, Rodney W. Hunt, PhD, MMed (ClinEpi), FRACP, FRCPUK, Koa Whittingham, PhD, Kerstin Pannek, PhD, Rachael L. Morton, PhD, Annabel Webb, MS, Michael Fahey, MBBS, PhD, Andrea Guzzetta, MBBS, Karen Walker, PhD MCN BAppSc RGN RSCN, Jane Valentine, MBBS, Catherine Elliott, PhD, Kristina Prelog, MBBS, FRANCRZ, Shannon N. Olivey, BA, Iona Novak, PhD

10:05 AM - 10:12 AM EDT

J5: Stability of Motivation to Move in Toddlers with Cerebral Palsy

Tracy Kornafel, PT, DPT, PCS, Athylia C. Paremski, BA, Julie A. Skorup, DPT, Morgan M. Alcott, DPT, Laura A. Prosser, PT, PhD

SATURDAY

Program and Events – Saturday, October 26, 2024

10:12 AM - 10:19 AM EDT

J6: RCT of a Social-Media-Delivered Intervention for Caregivers of Young Children with Motor Delays or Impairments

Nathalie L. Maitre, MD, PhD, Paige Ryals, MS, Larken Marra, PhD, Will Kjeldsen, MA, Lisa Pinson, PT, Rachel Byrne, PT, Jennifer Lyman, MA, Melissa Murphy, PhD

10:19 AM - 10:26 AM EDT

J8: Long Term Outcomes and Predictive Factors After a Randomised Trial of Baby-CIMT and Baby-BIM for Young Children at Risk of Unilateral Cerebral Palsy.

Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Stina Oftedal, PhD, B Hlth Sc (Diet), Iona Novak, PhD, Susan Greaves, PhD, Nadia Badawi, MBCh, MSc, DCH, FRCPC, PhD, FRCPI, Catherine Morgan, PhD; BAppSc (Physio), Catherine Elliott, PhD, Jane Valentine, MBBS,, lisa Findlay, OT, Robert Ware, PhD, Leanne Sakzewski, PhD, Bachelor Occupational Therapy, Simona Fiori, PhD

10:26 AM - 10:33 AM EDT

J9: Parent Experiences of Early Screening for Cerebral Palsy: A Reflexive Thematic Analysis

Kate L. Cameron, PhD, Free Coulston, PhD, Amanda K.L. Kwong, PhD, Koa Whittingham, PhD, Catherine Morgan, PhD; BAppSc (Physio), Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Cathryn Crowle, PhD, Alicia Spittle, PhD

10:38 AM - 10:45 AM EDT

J10: The HEIGHTEN Trial: A Hybrid Effectiveness-Implementation Trial of Home-based Early Intensive Hand Therapy

Alicia J. Hilderley, PhD, Kathleen O'Grady, MS, Mia D. Herrero, BSCOT, BSC, Eleanor Leverington, OT, Sandra Reist-Asencio, n/a, Roxanne Pynn, n/a, John Andersen, MD, Adam Kirton, MD

10:45 AM - 10:52 AM EDT

J11: BRIGHT Coaching to Empower Caregivers of Children With Suspected Developmental Delays on Waitlist for Services: A Randomized Controlled Trial

Annette Majnemer, BSc, MSc, PhD, Tatiana Ogourtsova, PhD OT, Jillian H. Filliter, PhD, Maureen O'Donnell, FRCPC, Kristy Wittmeier, PhD, Marilyn Ballantyne, PhD, MHSc, RN, Carrie Costello, BFA, Ana C. Hanlon-Dearman, MD, MSc, Faizan Khan, BA, Lucyna M. Lach, PhD, Natalina Pace, Hema Patel, MD, Gina R. Rempel, FRCPC, Mandy Young

10:52 AM – 10:59 AM EDT

J12: Parents' Perceptions of Delays and Disabilities in their Children with Invasive Mechanical Ventilation

Amanda Calipo, BS, Emma Lynch, MPH, Sarah A. Sobotka, MD, MSCPW

Free Paper Session K: Mental Health, Pain, & Nutrition

Moderators: Rachel Difazio, PhD, RN, PNP and Andy Collins, MD

Room: 206B

9:30 AM - 9:37 AM EDT

K1: Characterization of Mental Health Diagnoses Among Children with Cerebral Palsy: An Electronic Health Record Study

Surbhi Bhatnagar, PhD, Alexis Mitelpunkt, Juliana Rizzo, BA, Nanhua Zhang, PhD, Tess Guzman, BS, Ryan Schuetter, BS, Jilda N. Vargus-Adams, MD, MSc, Amy F. Bailes, PT PhD, Kelly R. Greve, PT, DPT, PhD, Melissa Gerstle, PhD, Bruce J. Aronow, PhD, Brad G. Kurowski, MD, MS

Program and Events – Saturday, October 26, 2024

9:37 AM - 9:44 AM EDT

K2: A Mixed Methods Study of the Impact of Selective Dorsal Rhizotomy on Chronic Pain in Children with Cerebral Palsy
Nicole Fischer, MD FRCP(C), Rachel Willis, BS, Golda Milo-Manson, MD FRCP(C), George Ibrahim, MD, PhD, FRCSC, FAANS, Darcy Fehlings, MD FRCP(C), MSc

9:44 AM - 9:51 AM EDT

K3: Post-Traumatic Stress Symptoms in Parents of Children with Medical Complexity: Short Term Outcomes After Hospitalization

Tammie Dewan, MD, MSc, Kathryn A. Birnie, PhD, Isabel Jordan, Laurie Lee, NP, MN, Megan K. Miller, MSW, Janet E. Rennick, PhD, Jennifer Zwicker, PhD, Andrea M. Whiteley, PhD, Melanie Noel, PhD

9:56 AM - 10:03 AM EDT

K4: Mental Health Diagnoses Among Children with Cerebral Palsy Compared with Typically Developing and Chronic Condition Pediatric Patients: An Electronic Health Record Study

Surbhi Bhatnagar, PhD, Alexis Mitelpunkt, Juliana Rizzo, BA, Nanhua Zhang, PhD, Tess Guzman, BS, Ryan Schuetter, BS, Jilda N. Vargus-Adams, MD, MSc, Amy F. Bailes, PT PhD, Kelly R. Greve, PT, DPT, PhD, Melissa Gerstle, PhD, Bruce J. Aronow, PhD, Brad G. Kurowski, MD, MS

10:03 AM - 10:10 AM EDT

K5: Autism Screening in Preschool-age Children with Cerebral Palsy

Georgina M. Perez Liz, MD, Ana Beatriz Vega, MA, Ana Narcizo, BA, Fernanda Alcalde, BA, Maria Jose Batarse, BA, Roberta Contreras, BA, Sofia Garcia, BA, Sofia Villarreal-Zambrano, MS, Alejandra Sagastegui-Roel, MD, Juan Maldonado, MD, MSc, María del Consuelo C. Ibarra-Rodriguez, MD, Diana L. Robins, PhD

10:10 AM - 10:17 AM EDT

K6: Health-Related Quality of Life in Physical Disabilities of Childhood

Stephanie Butler, DPT, Nancy Lennon, BS, MS, DPT, Chris Church, MPT, Wade Shrader, MD, Reid Nichols, MD, Sana Patil, BS, Freeman Miller, MD, Jose J. Salazar-Torres, Ph.D., Maureen Donohoe, PT, DPT, Faithe R. Kalisperis, DPT, Stuart Mackenzie, MD

10:22 AM - 10:29 AM EDT

K7: One-year Pain Intensity Trajectories in Children and Youth with Cerebral Palsy: A Cohort Study

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

10:29 AM - 10:36 AM EDT

K8: Pelvic Floor Physical Therapy for Management of Constipation in Children With and Without Cerebral Palsy

Megan T. Burke, MD, Michelle Pouliot, DPT, Dawn Dore-Stites, PhD, Rita Ayyangar, MBBS, FAAP, FAAPMR, Julie Sturza, MPH, Sania Srivastava, Niko Kaciroti, PhD, Barbara Felt, MD

SATURDAY

Program and Events – Saturday, October 26, 2024

10:36 AM - 10:43 AM EDT

K9: A Scoping Review of Pediatric Feeding Tube Weaning Interventions

Amanda Goldstein, MS, Michelle High, MSN, Emma Lynch, MPH, Andrea Fawcett, MLIS, Sarah A. Sobotka, MD, MSCP

10:48 AM - 10:55 AM EDT

K10: Diet Quality and Parental Concern About Diet Adequacy in Children With Cerebral Palsy at School Entry Age.

Stina Oftedal, PhD, B Hlth Sc (Diet), Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Robert Ware, PhD, Leanne Sakzewski, PhD, Bachelor Occupational Therapy, Kristie Bell, PhD

10:55 AM - 11:02 AM EDT

K12: Prevalence and Prediction of Pain That Limits Activities Among Adults With Cerebral Palsy Receiving Care in a Learning Health Network

Mary E. Gannotti, PT, PhD, Amy F. Bailes, PT PhD, Garey H. Noritz, MD, Elizabeth J. Lucas, MD, Duncan O. Wyeth, MA, Elizabeth Bellisimo, BSN, MSN, Cristina A. Sarmiento, MD, Deborah E. Thorpe, PT, PhD, Jodi M. Kreschmer, MSW, Hana Azizi, MD, MPH, Stephen A. Nichols, MD

Free Paper Session L: Participation & Gait Analysis

Moderators: Jason Rhodes, MD and Amy Barbuto, DPT

Room: 302AB

9:30 AM - 9:37 AM EDT

L1: Participate-CP 2: Optimising Participation in Physically Active Leisure for Children with Cerebral Palsy: Phase III Randomized Controlled Trial.

Leanne Sakzewski, PhD, Bachelor Occupational Therapy, Sarah E. Reedman, PhD, Bachelor of Physiotherapy, Catherine Elliott, PhD, Jenny Ziviani, PhD, Iona Novak, PhD, Stewart Trost, PhD, Annette Majnemer, BSc, MSc, PhD, Tracy Comans, PhD, Keiko Shikako, PhD, Robert Ware, PhD, Lynda McNamara, PhD, Sian A. Williams, PhD, Syed Afroz Keramat, PhD, Denise SK Brookes, PhD, Roslyn N. Boyd, PhD, Bachelor Physiotherapy

9:37 AM - 9:44 AM EDT

L2: Impact of Treatment for Children with Idiopathic Toe Walking on Gait Abnormalities

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

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Program and Events – Saturday, October 26, 2024

9:44 AM - 9:51 AM EDT

L3: Predictors of Employment Among Emerging Adults with Cerebral Palsy
Eduardo S. del Rosario, Jr., PhD, FNP-BC

9:56 AM - 10:03 AM EDT

L4: Effect of Age at the Time of Brain Injury on Hip Rotational Profile During Gait in Children with Unilaterally Affected Cerebral Palsy and Acquired Brain Insult
Jose J. Salazar-Torres, PhD, Chris Church, MPT, Freeman Miller, MD, Nancy Lennon, BS, MS, DPT, Jason Howard, MD, Thomas J. Shields, BS, Laura L. Owens, MD, Wade Shrader, MD

10:03 AM - 10:10 AM EDT

L5: Peak Joint Motion and Power Generation Timing Correlations in Relation to Propulsive Ground Reaction Forces in Patients With and Without Cerebral Palsy
Kirsten Tulchin-Francis, PhD, Mallory Rowan, BS, Matthew Parrett, MS, FMS, Jessica Lewis, PT, DPT

10:10 AM - 10:17 AM EDT

L6: Concordance of Subjective and Objective Measures of Community Participation in Individuals with Cerebral Palsy
Jennifer Kallini, MD, Amith Umesh, BA, Sophie Mesler, BS, Rachel M. Thompson, MD, Kristen Stearns-Reider, PhD, PT

10:22 AM - 10:29 AM EDT

L7: Functional Independence of Children with Arthrogyposis
Lauren C. Hyer, MD, Emily Shull, PhD, Lisa V. Wagner, OTR/L, David E. Westberry, MD

10:29 AM - 10:36 AM EDT

L8: Tibial Torsion and Kinematic Correlations During Gait in Patients with Diplegic Cerebral Palsy
Akshitha Adhiyaman, BS, Olivia C. Tracey, BA, Colson Zucker, BA, Vishnu Deep Chandran, PhD, Silvia Zanini, MS, Jennifer Jezequel, DPT, Bridget A. Assip, DPT, Sherry I. Backus, PT, Dara Jones, MD, David M. Scher, MD, Paulo Selber, MD

10:36 AM - 10:43 AM EDT

L9: Parent-identified Barriers to Healthcare, Education, and Childcare for Children with Disabilities Living in Rural Communities
Rachel Bican, PT, DPT, PhD, Evan Forsythe, BS, Allyson Hughes, PhD

10:48 AM - 10:55 AM EDT

L10: A Feasibility Trial Combining a Modified Sports Intervention With a Context-focused Intervention for Ambulant Children With Cerebral Palsy
Hercules R. Leite, Sr., PhD, Luana Silva, Physiotherapist, Deisiane O. Souto, N/A, PhD, Rafael Magalhães, PhD, Ricardo Sousa Junior, Jr., MSc, Georgina Clutterbuck, PhD, Dana Anaby, PhD, Egmar L. Longo, PhD, Ana Cristina Resende Camargos, PhD

10:55 AM - 11:02 AM EDT

L11: Priorities for research and translation in sport and physical recreation for youth with disabilities
Afra T. Islam, Georgina Clutterbuck, PhD, Joseph Vida, Chelsea Mobbs, PhD

11:02 AM - 11:09 AM EDT

L12: Not All Made Equal: AI Chatbot Responses to Common Patient/Family Questions About Gait Analysis
Kirsten Tulchin-Francis, PhD, Jessica Lewis, PT, DPT, Mallory Rowan, BS, Matthew Parrett, M.Ed, FMS, Daryn Strub, BA, Laura Bates, BS

Program and Events – Saturday, October 26, 2024

11:30 AM – 1:00 PM EDT

Closing General Session

Room: 200C

Chambers Family Lifespan Lecture

Andrea Cross, PhD and Francine
Rabbito Buchanan, MLIS, PhD

Awards

Lifeshots

Closing Remarks

2025 Committee Introduction

2:00 PM – 4:00 PM EDT

Mini Symposia 27-39

MINISYMP27: Bringing Parents and Therapists Together to Co-Design Service Improvements for Children Living with Disabilities: Facilitating Partnership Working Through Experience-Based Co-Design

Jill Massey, BSc/MSc, Natalie Sadler, n/a

Room: 202

Learning Objectives:

1. Describe the principles and six stages of Experience-based Co-design.
2. Define the stages of design thinking and connect tool choice with desired output.
3. Demonstrate the use of two design thinking tools and conduct a prioritisation activity.
4. Discuss and compare participant experiences in traditional service improvement with Experience-based Co-design.

MINISYMP28: Designing and Evaluating Meaningful Interprofessional Educational Experiences: Developmental Disabilities Education as a Lens

Steven M. Lazar, MD, MEd, Mary Jo Cooley
Hidecker, PhD, MA, MS, CCC-A/SLP, Pegah
Firouzeh, PhD, Briano DiRezze, PhD

Room: 203

Learning Objectives:

1. Create meaningful behavioral learning objectives with all 4 key components using the Audience, Behaviour, Conditions, Degree (ABCD) model.
2. Describe at least 3 novel teaching techniques that can be applied to the interprofessional clinical context through an instructional methods card game.
3. Describe best practices in evaluating interprofessional education and training experiences using the Interprofessional Education Collaborative (IPEC) core competencies.
4. Reflect upon their current interprofessional team practice and learning.

MINISYMP29: Implementation of Rehabilitation Early for Infants at High Risk of Congenital Hemiplegia – Informing Clinical Practice and Future Research.

Roslyn N. Boyd, PhD, Bachelor
Physiotherapy, Kimberley S. Scott, DPT,
PhD, Leanne Sakzewski, PhD, Bachelor
Occupational Therapy

Room: 204AB

Learning Objectives:

1. Upon completion participants will be able to identify suitable children for very early interventions aimed to improve unimanual and bimanual hand use and commenced from 3-9 months (c.a.).
2. Upon completion participants will be able to use of the Hand Assessment of Infants (HAI) to select patients, set level to commence and increment the interventions.

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3. Upon completion participants will be able to understand how to administer very early interventions aimed to improve unimanual and bimanual hand use and commenced from 3-9 months corrected age (c.a.).
4. Upon completion participants will be able to provide early intervention as a home-based program using a coaching model with caregivers.

MINISYMP30: Innovative Models of Early Detection and Intervention for Children with Cerebral Palsy in Low- and Middle-Income Countries

Mahmudul Hassan Al Imam, PhD, MPH, BScPT, Roslyn N. Boyd, PhD, Bachelor Physiotherapy, Ruby Fat, MSc, BSc

Room: 205BC

Learning Objectives:

1. Upon completion, participants will gain a comprehensive understanding of the Sustainable Model of eARly intervention and Telerehabilitation for children with CP (SMART CP) and its relevance in low-and middle-income countries.
2. Upon completion, participants will be able to describe the Learning through Everyday Activities with the Parents of children with CP (LEAP-CP) intervention and its adaptability in low- and middle-income countries.
3. Upon completion, participants will be able to examine the Early Detection and Intervention in Suriname (EDIS) program and consider its scalability to other low- and middle-income countries.
4. Upon completion, participants will be able to adeptly describe the Malamulele Onward Carer-2-Carer Training Program and discern its implications for other low- and middle-income countries.

MINISYMP31: Making a Difference with the GOAL Questionnaire – Case Examples: Incorporating Family Priorities into Practice

Jean L. Stout, PT, MS, PhD(c), Andrew G. Georgiadis, MD, Pam Thomason, M Physio, Katie Walt, PT, DPT, Unni G. Narayanan, MBBS, MSc, FRCS(C)

Room: 206A

Learning Objectives:

1. Describe the unique nature of the GOAL Questionnaire and how it can facilitate shared decision making..
2. Identify one or more pearls and pitfalls regarding incorporation of the GOAL Questionnaire into clinical practice.
3. Explain how priorities change across different age categories and the similarities/differences between patients and caregivers
4. Discuss how direct knowledge of family priorities related to functional tasks in conjunction with current evidence base can augment and direct treatment planning.

MINISYMP32: Management of Difficult Clinical Presentations of Complex Neurological Conditions, Hypertonia, and Complex Movement Disorders in Children with Disabilities

Mark Gormley, Jr., MD, Tim Feyma, MD, Patrick Graupman, MD

Room: 207

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.

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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.

MINISYMP33: Mini-SCALE, Selective Control Assessment of the Lower Extremity for Infants and Toddlers: Rationale, Development, Administration and Scoring

Loretta A. Staudt, MS, PT, Eileen G. Fowler, PhD, PT, Barbara Sargent, PhD, PT

Room: 301A

Learning Objectives:

1. Define selective motor control (SMC) of the lower extremities and describe its impact on the function and participation of children with spastic cerebral palsy (CP).
2. Describe the development of SMC of the lower extremities for infants with or at high risk for CP, compared to infants with typical development.
3. Understand the administration and scoring of Mini-SCALE (Selective Control Assessment of the Lower Extremity for Infants and Toddlers).
4. Use Mini-SCALE to accurately evaluate SMC from videos of infants and toddlers with typical development, CP and high risk for CP.

MINISYMP34: Moving Beyond Implementation and onto Optimization of Early Detection of and Intervention for Cerebral Palsy within the United Cerebral Palsy Affiliate Network

Supreet Deshpande, MD, Nanette Aldahondo, MD, Candice L. Johnson, OTD, Robin McDonald, MPT, Mark Gormley, Jr., MD, Valerie Pieraccini, MS, Brittany Dichraff, DPT, Katie Michalski, MA, CCC-SLP

Room: 301B

Learning Objectives:

1. Upon completion, participant will be able to identify the risk factors and evidence for early and accurate diagnosis in Cerebral Palsy
2. Upon completion, participant will be able to identify various approaches to early CP care through examination of 2 diverse clinical settings: Hospital based & Outpatient Therapy Clinic
3. Upon completion, participant will be able to discuss current evidence for early CP intervention to optimize patient outcomes
4. Upon completion, participant will be able to strengthen their knowledge by participating in small group discussions of unique cases that will include care giver experiences in video format.

MINISYMP35: 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, Benjamin J. Shore, MD, MPH, FRCSC, Mara Karamitopoulos, MD, MPH, Verena M. Schreiber, MD

Room: 302AB

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Learning Objectives:

1. Introduction to a standardized format for the critical analysis of scientific articles from the medical literature.
2. Upon completion the participants will be familiar with the most significant recent advances in the orthopaedic management of children with neuromuscular disorders
3. Upon completion, the participants will be able to incorporate new techniques and technologies into clinical practice.
4. Upon completion, the participants will appreciate current research trends in this area and be inspired to contribute to the body of knowledge!

MINISYMP36: Practical Strategies and Guiding Steps for Implementing High Quality Evidence Based Intensive Therapies

Dory Wallace, MS, OTR/L, MaryRebekah Trucks, MS, OTR/L, Stephanie C. DeLuca, PhD, Elizabeth (Liz) Humanitzki, MS, OTR/L, Julia Brennan, PT, DPT, PCS, Kathleen "Kate" Ann Gypson, BSOT, OTR/L

Room: 303A

Learning Objectives:

1. Identify steps necessary to implement research into clinical practice.
2. Identify key practices in gathering clinical data via practice-based evidence.
3. Discuss the translational process of a specific evidenced-based intensive therapy model into multiple clinical organizations with varied characteristics.
4. Operationalize principles necessary for disseminating therapeutic research protocols into clinical training paradigms.

MINISYMP37: Comprehensive Management of Knee Problems in Cerebral Palsy

Henry Chambers, MD, Patrick Curran, MS, MD, John Collins, MS, Andrew Skalsky, MD

Room: 206B

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.

MINISYMP38: The Co-Creation of Care: Knowledge Translation and Sharing Between Providers and Adults with Cerebral Palsy

Ashley H. Harris Whaley, M.S., CCC-SLP, Mark Peterson, PhD, MS

Room: 303B

Learning Objectives:

1. Address the knowledge translation gap existing between medical providers and adults with cerebral palsy, and identify how these deficits have a negative impact on care quality, care delivery, and outcomes.

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- 2. Understand how the Preventative Healthcare Guidelines for Adults with CP are community stakeholder driven and will be a tool for communication and improved care between adults with CP and providers.
- 3. Examine the importance of healthcare spaces where providers and patients engage in co-creation of care.
- 4. Discuss how knowledge translation/ dissemination impacts health literacy and health outcomes, considering the successful existing models of other disability populations.

MINISYMP39: Clinical Practice Guidelines (CPG) for Screening, Assessment, Diagnosis, and Classification of Childhood Cerebral Visual Impairment (CVI)

Corinna Bauer, PhD, Naomi Dale, PhD

Room: 304AB

Learning Objectives:

- 1. Understand basics of CVI and the rationale for creating evidence-based consensus practice guidelines
- 2. Review methods to develop sound clinical guidelines
- 3. Learn about potential pathways and discuss barriers and facilitators for implementing the new guidelines
- 4. Understand implementation of the practice guidelines through interactive discussion of cases

2:00 PM – 6:00 PM EDT

Board of Directors Meeting

SATURDAY

A fundraising graphic for AACPDM. On the left is a vertical thermometer-style scale with a dollar sign at the bottom, ranging from \$2,000 to \$15,000 in \$1,000 increments. In the center is the AACPDM logo, a colorful flower-like shape. To the right of the logo are two circular images: one showing a woman and a child smiling, and another showing a man and a child. Below the logo, the text reads 'SUPPORT AACPDM' and 'Help us reach our \$15,000 goal!'.

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Posters

Clinical Observation Or Single Case Study Posters

CO01: Intranasal Baclofen: An Innovative Approach for Hypertonicity Treatment

Andrew Skalsky MD, Alyssa Wieand BS, Anna Burch MA, Talia Soto BA

CO02: Promoting motor control in infants with and without neuromotor conditions using artificial intelligence (AI) based toy in tummy time: A case study

Arya Salgaonkar MPT, Stacey Dusing PhD

CO04: Clinical Spectrum of ATP1A3 Mutation

Caroline Gormley DO, Kelly Cho MD

CO05: VAMP2 Mutation Clinical Presentation: Case Report

Caroline Gormley DO, Supreet Deshpande MD

CO06: Combined Focal Selective Dorsal Rhizotomy and Orthopedic Surgery in a Child with Cerebral Palsy: Clinical Case Study

Dorothy Harris Beauvais MD, Nisha Gadgil MD, Sruthi Thomas MD

CO07: A case report of AIDP in a 9-year-old girl after bone marrow transplant

Dylan Mann MD, Matthew Severson MD, Nanette Aldahondo MD, Cristina Brea MD

CO08: Raynaud's phenomenon and serial casting

Elisabeth Bates BSN, MSN, Jennifer Bain MD, PhD, Hana Azizi MD, MPH

CO09: Exploring Parent Perceptions of the Kids Building for Kid Workshop Experience and the Modified Ride on Car: A Case Study of a Young Child with Rett Syndrome

Jennifer Tucker PhD, Julie Feuerstein PhD, CCC-SLP, Heather Feldner BS, MPT, PhD, Natalya Davis DPT, Megan Kuczajda DPT, Casey Deming DPT

CO10: Paraplegia Following Patent Ductus Arteriosus Repair

Jessica Ace MD, Elizabeth Bellissimo BSN, MSN, Hana Azizi MD, MPH

CO11: Unraveling the Diagnostic Puzzle: A Case Study of Fibrodysplasia Ossificans Progressiva in a Young Athlete

Ricardo Ayala-Jimenez MD

CO12: Improved Ankle Range of Motion using Removeable Polyester Serial Casts

Sarah Macabales D.O., Larissa Pavone MD, Trinette Carney BS

CO13: A Unique Case of Progressive Hypertonia and Chorea: VARS2-Related Disorder

Shannon Strader DO, MS, Heather Huxol MD, Marissa Vawter-Lee MD, Loren Pena MD, PhD, Corrie Harris MD

CO14: Noninvasive spinal neuromodulation and subject-specific rehabilitation of child with cerebral palsy (CP) triggers multiple system neural networks reorganization to a more normal physiological state

Susan Hastings DPT, PCS

CO15: Introducing literacy through an adapted large-key keyboard: A single case study of a 9-year-old boy with Cerebral Palsy in Sri Lanka.

Thilini Lokubalasuriya PhD, Dinusha Fonseka BS, Nimisha Muttiah PhD, Anila Amarasinghe BS, Hiruni Jayathilake BS

CO16: Builders and Bulldozers - Impact of a Motor Skill Mentorship Intervention on an Adult with a Significant Traumatic Brain Injury

Thomas Moran Ph.D., Erick Teo-Abrego BS, Victoria Guerrero BS

Posters

CO17: Shoulder Dislocation in a Quadriplegic Cerebral Palsy Patient with Dystonia: A Case Report

Xiaoyu Pan MD, PhD, MPH, Elizabeth Bellissimo BSN, MSN, Vera Tsetlina MD, Hana Azizi MD, MPH

CO18: Hemiplegic Cerebral Palsy from Post-Varicella Right Basal Ganglia Stroke: A Case Report

Yelim Chung MD, Elizabeth Bellissimo BSN, MSN, Hana Azizi MD, MPH

Demonstration Posters

DP01: Complex Care Service Simulation Program: A Novel Inter-Professional Education Initiative

Allison Shevell MDCM, FRCPC, Yazeed Bahamdan MBBS, Saudi Board in Pediatrics, Maia siedlikowski RN MSc CNCCP-C, Ilana Bank MD, Isabelle St-Sauveur RN

DP02: Collaborative Development of a Research Intern Program to Support Developmental Disabilities Research Training and Capacity

Angela Shierk PhD, Heather Roberts PhD, Lou Hintz PhD, Jyothi Gupta PhD, OTR, FAOTA, Lima Ghulmi OTR/L, Rachael De Leon MA, Emily Kirby BA

DP03: A Pediatric Student Enhanced Program (STEP): One model to help right-size children's healthcare

Angelina Woof PT, Kiersten McMaster MPT

DP05: Applying the 4-Element Movement System to the Physical Therapy Management of Cerebral Palsy

Ann Harrington PT, DPT, PhD

DP06: The Technothèque: an innovative service delivery model to promote virtual reality and active video game use in pediatric rehabilitation

Audrey Ferron BS, Martin Lemay BA, MSc, PhD, Danielle Levac pht, MSc, PhD

DP07: Disability Equity in Pediatric Pain Management

Beverley Tann BSN, RN, CRRN, Nicholette Andrews MS, APRN, PCNS-BC, Brooke O'Grady BSN, RN

DP08: An Adaptive Framework for Machine Learning Assisted Brain Tissue Segmentation

Cameron Casey PhD, Alina Grimaldo, Andrea de Abreu e Gouvea BA, Ellen Sutter DPT, Douglas Dean PhD, Ryan McAdams MD, Bernadette Gillick PhD

DP09: Development of patient specific ankle foot orthoses using 3D printing

Chenxi Peng PhD, Phuong Tran PhD, Simon Lalor MSc, Oren Tirosh PhD, Erich Rutz MD

DP10: Neuromuscular Electrical Stimulation as a Modality to Reduce Spasticity and Dystonia during Gait for Individuals with Cerebral Palsy

Christopher Joseph DPT, Kelly Greve PT, DPT, PhD, Jessica Rose PhD

DP12: The Cerebral Palsy Research Network Adult Toolkit: Co-Creation of a Community Resource

Cristina Sarmiento MD, Jocelyn Cohen BA, JD, Michele Shusterman BA, Jensine Clark MD, Mary Gannotti PhD, PT

Posters

DP13: Priority Setting for Multicenter Research Among Adults with Cerebral Palsy: Using Stakeholder Engagement to Co-Create a Research Agenda

Cristina Sarmiento MD, Mary Gannotti PhD,PT, Jocelyn Cohen BA, JD, Erika Peterson BA, Edward Hurvitz MD

DP14: Improving Access to Early Intervention in Preterm Infants: A Quality Improvement Initiative

Daphne Jackson MScPT, Kamini Raghuram MSc, MD, FRCPC

DP15: The Health Hub in Transition: Growth and development of a community of practice aimed to improve healthcare transition across Canada.

Dayle McCauley MSc, Anne Fournier MD, Jan Willem Gorter MD, Michelle Batthish MD, Karen Cook PhD, Dilshad Kassam-Lallani MSN, Amanda St. Dennis BA

DP16: The Social and Motor Benefits of Group-based Programming for Children with Cerebral Palsy

Don Scott Matthews OT, MS, Lauren Armenti MSOT, Amanda Sarafian EdD, OTR/L

DP17: Development of a Gamified Leisure Activity Mobile Application for Children and Youth with Disabilities: A Human-centered Design Approach

Ebrahim Mahmoudi, Mehrnoosh Movahed MD, Carlos Denner PhD, Annette Majnemer BSc, MSc, PhD, Keiko Shikako PhD

DP18: Cerebral Palsy Hip Surveillance: Creating a Best Practice Initiative in a Large Pediatric Hospital System

Ed Wright MD, Catherine Velasquez Ignacio MD, Dorothy Harris Beauvais MD

DP19: Trauma Informed Care Interventions for Medical Trauma in Pediatric Populations

Haley Morris BSc, Tammie Dewan MD, MSc, Seija Kromm PhD, Sarah Mooney, Katie Richardson MSW, BPhil, Andrea Whiteley PhD, Kristina Mangonon McGuire

DP20: Technology Enabling Children (TEC) Centre – A Canadian Initiative

Hana Alazem MSc PT, MD, FRCPC, Anna McCormick MD FRCPC, Michelle Larin MSc, Albert Tu FRCS(C), Akshay Seth MD, Kevin Cheung MSc MD FRCSC, Hedva Chiu MD

DP21: STructured Early Physiotherapy (Preemie STEP) intervention for Moderate to Late Preterm Infants – A Pilot Randomized Controlled Trial Protocol

Indira Boddapati MPT, Sivakumar Gopalakrishnan PhD, Sonia Khurana PT, PhD, Jayashree Purkayastha MD, Bhamini Krishna Rao PhD

DP22: A Novel Protocol to Assess Active Spinal Movement in Non-Ambulatory Children Undergoing Posterior Spinal Fusion

Jessica Lewis PT, DPT, Matthew Parrett M.Ed, FMS, Mallory Rowan BS, Kirsten Tulchin-Francis PhD

DP23: Disability Day – a historical approach and mindsets awareness among university students

Jessica Stockman MSc, Linda Sandström BS, Sarah Ibrahim MPH, Noor Hussein MSc, Ann Alriksson-Schmidt PhD

DP24: Mighty Knights: An Innovative Model of Service Delivery for Young Children with Complex Needs

Julie Feuerstein PhD, CCC-SLP, Jennifer Tucker PhD

Posters

DP25: Bridging the knowledge gap regarding early detection and intervention for children with cerebral palsy: CP ECHO

Karen Harpster PhD, OTR/L, Elsie Bush OTR/L, Gretchen Mueller DPT, Hillary Prather LISW-S, Jilda Vargus-Adams MD, MSc

DP26: Assessing Variations in Nutrition, Sleep, and Fatigue Amongst Children with Neuromotor Disabilities: A Prospective Study

Kavya Iyer, Stephanie DeLuca PhD

DP27: Optimizing Pediatric MRI: Innovations in Infant Sleep Protocols for Sedation-Free Imaging

Kellie Collins DPT, Camilla Matthews MD, Kristin Seaborg MD, Bernadette Gillick PhD

DP29: Organizing an Interdisciplinary Tone Evaluation Clinic: A How-To Guide

Kristen Blatt PT, DPT, Courtney Bishop PA, Jeffrey Leonard MD, Nathan Rosenberg MD, Toni Pearson MD, Laurie Glader MD, FAAP

DP30: Development of A Universal Therapeutic Riding Curriculum for Children with Cerebral Palsy (CP)

Lisa Letzkus PhD RN CPNP-AC, Stephanie DeLuca PhD

DP31: Parent Engagement Program in an out-patient rehabilitation setting

Lise Mayrand BA, Barbara Mazer PhD, Eva Kehayia PhD

DP32: Academic-Community Collaboration to Improve Participation and Impact of Physical Activities in Youth with Cerebral Palsy

Mara Yale PhD, Brian Wishart DO, MMS, FAAP, Jacqueline Chen BS, Hana Azizi MD, MPH, Patricia Musolino MD, PhD, Katherine Dimitropoulou PhD, OT, MSPOR

DP33: Do patients with spinal muscular atrophy who receive genetic treatments have a higher incidence of autism or other cognitive/behavioral problems?

Screening a clinic population

Mark Gormley MD, Jamie Eskuri MD, Supreet Deshpande MD, Gretchen Weatherly PhD, Mo Chen PhD, Mark Jankowski BS, Salma Noor BS, Sylvia Pulkrabek none

DP34: Psychosocial Support for Children with Medical Complexity: Learnings and Next Steps in Clinical Practice and Evaluation

Matthew Witham PhD, LMFT, Amy Grossman MSW, Kari Kubiatowicz MBA, BSN

DP35: Implementation of a Patient-Centered Genetic Cerebral Palsy Clinic in an Academic institution

Maureen Mulhern CGC, Jennifer Bain MD, PhD, Jennifer Pimentel BA, Minnelly Vasquez LCSW, Joshua Hyman MD, Hana Azizi MD, MPH, Elizabeth Bellisimo BSN, MSN, Jessica Dodge MD, Linn Katus DO, Aviva Sopher MD, Christopher Ricupero PhD

DP36: Patient Family Advisory Council

Minnelly Vasquez LCSW, Jennifer Pimentel BA, Dina Baum, Gregory Moomjy MS, Belkis Tavaréz

DP37: A New Clinical Protocol to Evaluate Standing Transfer Function in the Gait Analysis Laboratory

Nancy Lennon BS, MS, DPT, Stephanie Butler DPT, Jose Salazar-Torres Ph.D., Jason Howard MD

Posters

DP38: Creation and Implementation of a Multi-Disciplinary NICU Neonatal Hypertonia Protocol to Improve Hypertonia Evaluation and Management, and Timeliness to a Cerebral Palsy Diagnosis and Care

Paola Maria "Lala" Mendoza-Sengco MD, Melissa House MD, Laura Kohus OT, Ashley Pinger DPT, Jilda Vargus-Adams MD, MSc, Marissa Vawter-Lee MD

DP39: Remotely Supervised Transcranial Direct Current Stimulation in Children with Cerebral Palsy

Preston Christopher BS, Alex Griffin PhD, Remy Blatch-Williams BS, Michael Fahey MBBS, PhD, Megan Finch-Edmondson PhD, Manoj Kanhangad FRACP, MBBS, Maria McNamara PhD, Iona Novak PhD, Madison Paton PhD, Bernadette Gillick PhD

DP40: Closing the Fidelity Circle: Key Ingredients to Improve Intervention Through Adherence, Program Differentiation, Quality Of Intervention, Participant Responsiveness and Dosage

Regina Harbourne PhD, Elena Donoso-Brown PhD, OTR/L, Sandra Willett PhD, Lin-Ya Hsu PhD, Stacey Dusing PhD

DP41: Supporting a Safe Journey – A Pilot Car Seat Clinic for Children with Physical Disabilities

Roselle Adler B.Sc.O.T, Tara Previl M.Sc (OT), France Bidal B.Sc. OT

DP42: Made to Measure: A Needs Assessment Approach to Tailor Healthcare Transition Programs for Individuals with Cerebral Palsy

Sanaya Shenoy MSPH, Deborah Sahlin RN, Paul Salib BS, Melanie Pinkett-Davis PhD, Theodore Zabel PhD, Eric Chin MD, Deanna Johnson MS, Heather Riordan MD

DP43: A Priority Setting Partnership to Determine the Top Research Priorities in Childhood-Onset Physical Disability: Project Design, Patient Engagement, and Preliminary Findings

Sara Drisdelle MSc, Jordan Sheriko MD, FRCPC, Sarah Moore PhD, Sofia So BS, Victoria MacDonald BS, Shanon Phelan PhD

DP44: High Risk Huddle: A care delivery model to improve multidisciplinary team and parent collaboration

Sarah Heigel MSN, RN, CNL, Boswell Lynn PT, MS, Raye Ann deRegnier MD, Robin Manus OTR/L, Alison Goetgeluck PT, DPT, PCS, Jessica Trenkle DPT, Ann Marie Crean DPT, Colleen Jarema DPT

DP45: Innovation for independence: A Device to Enhance Trunk Control in Children with Cerebral Palsy

Shamantha Madapura, Sivakumar Gopalakrishnan PhD, Harikishan Balakrishna Shetty MTEch, Venkateswara Venkatesan PhD, Bhamini Krishna Rao PhD

DP46: Drivin' donuts: The use of joystick-operated ride-on-toys to improve affected arm function in children with Unilateral Cerebral Palsy (UCP)

SUDHA SRINIVASAN PhD, Vaishnavi Shahane PT, Patrick Kumavor PhD, Kristin Morgan PhD

DP47: Increasing Self-Care Independence for Pediatric Patients Diagnosed with Arthrogyposis Multiplex Congenita

Tiffany Grace Evasco OTR, Amy Sitabkhan OT, Scott Oishi MD

DP48: MY ABILITIES FIRST: Global Developmental Milestones

Verónica Schiariti MD MHS PhD

Posters

Scientific Posters

SP01: A Collaborative Posterior Spinal Fusion Surgical Planning Initiative Between a Pediatric Orthopedic Surgery Group and a Complex Care Medical Home for Children with Medical Complexity.

Adam Rosenbloom MD MPH, Lucy Gann BS, Brian Kaufman MD, Rahel Berhane MD, Kirsten Ross MD, Mari-Ann Alexander PhD, RN, Anne Mahan MD

SP02: Associations between Social-Environmental Factors and Psychosocial Outcomes in Young Children with Spina Bifida

Adrien Winning PhD, Allison Payne MA, Monique Ridosh PhD, RN, Elicia Wartman PhD, Grayson Holmbeck PhD

SP05: Correlation between GDI Improvements in Cerebral Palsy Patients after Orthopedic Surgical Interventions and COI Scores

Akshitha Adhiyaman BS, Olivia Tracey BA, Colson Zucker BA, Peter Cirrincione BA, Vishnu Deep Chandran PhD, Troy Amen MD, MBA, Dara Jones MD, Paulo Selber MD, David Scher MD

SP06: School-Based Disability Awareness Programs for Children and Youth: A Scoping Review

Alice Soper MSc, Trinity Lowthian, Melissa Shivnauth BS, Holly Marini, Kerry Britt PT, Shree Dave, Michelle Phoenix PhD, Sandra Moll PhD, Christine Imms PhD, Samantha Noyek PhD, Amanda Doherty-Kirby PhD, Peter Rosenbaum BSc, MD, FRCP(C), DSc (HC)

SP07: Functional motor cortex activity associated with lower extremity skills in children with unilateral cerebral palsy

Alicia Hilderley PhD, Darcy Fehlings MD FRCP(C), MSc, Margot Taylor PhD, Joyce Chen PhD, F Virginia Wright BScPT, MSc, PhD

SP08: Upper Extremity Function in Hemiplegic Cerebral Palsy - Functional and Patient Reported Outcomes

Alyssa Barré MD, Anita Bagley PhD, Henry Iwinski MD, Donna Oeffinger PhD

SP09: Pain in Children with Myelomeningocele

Amanda Burman Rimstedt, Ann Alriksson-Schmidt PhD

SP10: Characterizing Evidence-Based Occupational Therapy Interventions Delivered to Individuals with Cerebral Palsy at an Outpatient Pediatric Medical Center

Amber Sheehan OTR/L, Amy Bailes PT PhD, Jillian Kreimer, Emma Austing, Jenny Dorich PhD

Posters

SP11: Tools for Early Detection of Developmental Concerns and/or Disability in Young Children (aged birth-5 years 11 months): A Scoping Review

Andrea Burgess B Occ Thy I, Grad Cert Epi, PhD, Carly Luke MAPaedSPhys, BPT, Michelle Jackman B Occ Thy, PhD, Jane Wotherspoon BA, Koa Whittingham PhD, Katherine Benfer PhD, Sarah Goodman Speech Pathology, Rebecca Caesar B Phys, PhD, Tiffney Nesakumar student, Samudragupta Bora PhD, David Honeyman Graduate Diploma Applied Science Library and Information Management, Danielle Copplin BA, Sarah Reedman PhD, Bachelor of Physiotherapy, John Cairney PhD, Natasha Reid BA, PhD, Leanne Sakzewski PhD, Bachelor Occupational Therapy, Roslyn Boyd PhD, Bachelor Physiotherapy

SP12: Establishment of a cerebral palsy register of children aged 0-18 years in Tanna Island, Vanuatu

Andrea Burgess B Occ Thy I, Grad Cert Epi, PhD, Lolyne Arranhabath B. Nursing, Steven Moiteau B. Public Health, Mahmud Al Imam B Sc, MPH, PhD, Israt Jahan B.Sc (Hons), MS, MPH, PhD, Roslyn Boyd PhD, Bachelor Physiotherapy, Jeannie Barton B. Nursing, Gaela Kilgour B Phthy, PhD, Nadia Badawi MBBS, PhD, Gulam Khandaker MBBS, DCH, MPH, PhD, FAFPHM

SP13: Randomized Controlled Trial on the Effect of Ankle Foot Orthoses on Patients with Charcot-Marie-Tooth Disease

Andrew Skalsky MD, Alyssa Wieand BS, Anna Burch MA, Talia Soto BA

SP14: Early Intervention Therapists' Perceptions of Implementing a Constraint-Induced Movement Therapy Program Utilizing a Caregiver Coaching Model

Angela Shierk PhD, Heather Roberts PhD, Rebecca Dharamraj BS, Taylor Lesner BA, Joe De La Torre BS

SP15: Precision Rehabilitation: A Scoping Review

Annie Pouliot Laforce PhD, Évemie Dubé PhD, Dahlia Kairy PhD, Danielle Levac pht, MSc, PhD

SP16: Integrating virtual reality and active video games within intensive motor interventions for children with hemiplegia

Audrey Ferron BS, Marilou Malo BS, Annie Au BS, Hubert Gascon MS, Geoffroy Saussez PhD - Physiotherapist, Yannick Bleyenheuft PhD, Marie-Claude Cardinal OT, Odette Bau PT, Julie Desgagné EdD, Maxime Robert PhD, Danielle Levac pht, MSc, PhD

SP17: Long-Term Efficacy of Serial Casting for Idiopathic Toe Walkers

Avery Takata MS, Anna Burch MA, John Collins MS, Patrick Curran MS, MD, Mackenzie Brown DO

SP18: Comparison of Markerless with Marker-based Motion Analysis in Patients with Hemiplegic Cerebral Palsy

Avery Takata MS, John Collins MS, Hank Chambers MD, Patrick Curran MS, MD

SP19: Cycling as rehabilitation

Berit Gjessing

SP20: Early Detection Screening for Cerebral Palsy-Who is Missed?

Boswell Lynn PT, MS, Raye-Ann deRegnier MD, Alison Goetgeluck PT, DPT, PCS, Jessica Trenkle PT, DPT, PCS, Nicole Pouppirt MD, Deborah Gaebler-Spira MD

Posters

SP21: What Happens When You Wait? Larger Curves Require More Resources for Less Correction in Neuromuscular Scoliosis

Brandon Yoshida MD, Jacquelyn Valenzuela-Moss BS, Tyler Tetreault MD, Tishya Wren PhD, Nico Silverman-Lloyd BA, Tiffany Phan BA, Lindsay Andras MD, Michael Heffernan MD

SP22: Comparative Analysis of Bone Mineral Density in Cerebral Palsy and Spinal Muscular Atrophy

Brianna Bowden BS, Brett Klamer MS, Garey Noritz MD

SP23: Relationship between Neuromotor Symptoms, Intrinsic Muscle Parameters, and Gait Function at the Ankle and Knee Joint Level in Children with Spastic Cerebral Palsy

Britta Hanssen PhD, Nicky Peeters PhD, Tiji Dewit MSc, Eirini Papageorgiou PhD, Charlotte Lambrechts MSc, Catherine Huenaerts MSc, Kaat Desloovere PhD, Anja Van Campenhout MD, PhD

SP24: Effects of Mollie Suit in Children with Non-Ambulatory Cerebral Palsy: A Preliminary Study

Bulent Elbasan DPT, Hidayet Cuha MSc, Kubra Ugurlu MSc

SP25: Early Intervention Stakeholder Perspectives of Family-Centered Care Coordination: A Pilot Case Study

Carla R. Lage OT, MHS, Natalie Murphy MPH, Gregory Tung PhD MPH, Juliane F. Daniel MS, Lindsay Ollerenshaw PhD, Mary Khetani MA, ScD, Beth McManus PhD

SP26: Bilateral Coordination and Balance Profiles of Children with a diagnosis of Idiopathic Toe-Walking

Cathleen Buckon OTR/L, MS, Susan Sienko PhD, Paige Lemhouse BS, Jeremy Bauer MD

SP27: Smartphone App for Supporting Collaborative Rehabilitation Goal Setting in Children: Development of “KidEM” and Usability and Acceptability Study

Christelle Pons MD, PhD, Rodolphe Bailly PhD, Alexia Le Gallo PT, Denis Jacquemot MSc, Lea Guiheneuf PT, Emmanuelle Fily MSc, Sylvain brochard MD, PhD

SP28: Effectiveness of clinician supported, parent-mediated participation promoting interventions for children with physical disabilities: A Systematic Review

Daniela Testani MSc, Taryn Simon BA, Heather Shearer DC, PhD, Gillian King PhD, Sarah Munce PhD, Darcy Fehlings MD FRCP(C), MSc

SP29: Effect of Hand-Arm Bimanual Intensive Therapy Including Lower Extremities (HABIT-ILE) on the Range of Motion of Children with Cerebral Palsy. A Randomized Trial

Daniela Ebner-Karestinos PhD, Emmanuel Sogbossi PhD, Julie Paradis PhD, Geoffroy Saussez PhD - Physiotherapist, Rodrigo Araneda PhD, Yannick Bleyenheuft PhD

SP30: Safety of Botulinum toxin A dosing in children with Cerebral Palsy above approved dosing

Deanna Jewell DO, Matthew McLaughlin MD, MS, MS, MBA

SP31: Sleep disorders and sleep disturbances among adults with cerebral palsy: A review of the literature

Deepika Nagabhushan BS, Sonia Sharma PhD, Daniel Whitney PhD, Rita Ayyangar MBBS, FAAP, FAAPMR, Daniel Whibley PhD

Posters

SP32: Parents Reporting of Quality of Life during the Two Years after Selective Dorsal Rhizotomy in Ambulant Children with Cerebral Palsy

Deepti Chugh BPT, MSc (PT), MRes, Stephanie Cawker PGDip BSc (Hons) PT, Lucy Alderson PhD, Kristian Aquilina FRCS(SN) MD, Eleanor Main FCSP (BSc, BA, MSc, PhD)

SP33: National Assessment of Barriers and Facilitators to Implementation of Intensive Hand Therapies for Young Children with Cerebral Palsy

Divya Vurrabindi BSc, Darcy Fehlings MD, FRCP(C), MSc, Alicia Hilderley PhD, John Andersen MD, Adam Kirton MD, Christine Cassidy PhD, Liz Cambridge MSc OT, Kathleen O'Grady MS, Mia Herrero BSCOT, BSC

SP34: Gamification Elements for a Leisure Activity Mobile Application for Children and Youth with Disabilities: A Qualitative Analysis

Ebrahim Mahmudi, Mehrnoosh Movahed MD, Gillian Backlin, Carlos Denner PhD, Annette Majnemer BSc, MSc, PhD, Keiko Shikako PhD

SP35: Fall outcomes in adults with cerebral palsy – differences by gender

Elizabeth Boyer PhD, Kari Pederson MSW, LICSW, Nathan Wandersee AS, Sandy Tierney PhD, MSSW, Marissa Esterley MS, Linda Krach MD

SP36: Should We Remove Hardware in Children with Cerebral Palsy after Hip Osteotomy?

Ellie Montufar Wright BA, Luiz Carlos Almeida da Silva Nemours Children's Hospital, Jason Howard MD, Sarah Raab BS, Kenneth Rogers PhD, ATC, Amelia Lindgren MD, Freeman Miller MD, Arianna Trionfo MD, Wade Shrader MD

SP37: Relationship of motor and sensory processing deficits in children with unilateral cerebral palsy

Eryn Armstrong MS, Sadra Shahdadian Ph.D., Yanlong Song PhD, Stephanie Acord MD, Fernando Acosta MD, Warren Marks MD, Christos Papadelis PhD

SP38: Relationship between microstructural damage in corticospinal tracts and fine motor skill deficits in children with unilateral cerebral palsy

Eryn Armstrong MS, Sadra Shahdadian Ph.D., Yanlong Song PhD, Stephanie Acord MD, Fernando Acosta MD, Warren Marks MD, Christos Papadelis PhD

SP39: One injection of BoNT-A in biceps brachii in CP has both a degenerative and regenerative effect.

Eva Pontén MD PhD Ass Prof, Per Stål PhD, Ferdinand von Walden MD, Alexandra Palmcrantz BSc, MSc

SP40: Two years of repeated botulinum toxin injections into biceps brachii in cerebral palsy results in increasing regeneration and a reduced proportion of fast and fatigable type 2X fibers.

Eva Pontén MD PhD Ass Prof, Per Stål PhD, Ferdinand von Walden MD, Alexandra Palmcrantz BSc, MSc

SP41: The Effect of Age and Body Mass Index on Gait Deviations in Hereditary Spastic Paraplegia

Fabiola Reyes MD, Cinthya Meza BA, Elizabeth Bunkell PT, Kelly Jeans MSc, Robert Wimberly MD

SP42: I'm Here, Can I Play Too? A Systematic Review of Assessments of Sport and Physical Recreation Participation for Children and Youth with Disabilities

Georgina Clutterbuck PhD

Posters

SP43: “All it takes is a spark.” Parent perception of long-term sports participation after a practitioner-led, peer-group sports intervention for ambulant, school-aged children with cerebral palsy.

Georgina Clutterbuck PhD, Mikaila Gent BPHTY (hons), Daniel Thomson BPHTY, PHD

SP44: Identifying and Evaluating Young Children with Developmental Central Hypotonia: A Closer Look Through the Hammersmith Infant Neurological Examination

Ginny Paleg MPT, DScPT, Roslyn Livingstone MSc(RS), Alvaro Hidalgo Robles MScPT

SP45: Automated Artificial Intelligence evaluation of upper extremity function using smartphone video

Gloria Su MS, Kaitlynn Sampel BAsc (2026), Albert Tu FRCS(C), Edward Lemaire PhD, Natalie Baddour PhD, Kevin Sun BA, Kevin Cheung MSc MD FRCS

SP46: Identification of a Functional Profile for Youth with Unilateral Cerebral Palsy Utilizing the Brief Cerebral Palsy International Classification of Functioning, Disability and Health Core Set

Heather Roberts PhD, Angela Shierk PhD, Debbie Baldwin BS, Nancy Clegg PhD, Sydney Chapa BS, Ariel Alexander BS, Lindsay Miles BS, Youstina Habeeb BS, Fabiola Reyes MD

SP47: Program Evaluation of a Multi-disciplinary Cross-centre Transition Clinic for Youth with Physical Disabilities: What Do the Metrics Show?

Hedva Chiu MD, Anna McCormick MD FRCPC, Tara Previl M.Sc (OT), Micheline Savage RN, Michelle Larin MSc, Hana Alazem MSc PT, MD, FRCPC

SP48: Effect of Ballet-Based Exercise on Gait Function in Adult with Cerebral Palsy: A Pilot Study

Hee Joung Joung, Moon Seok park MD

SP49: Feasibility and Preliminary Effects of Sports Stars Brazil In Adolescents with Autism Spectrum Disorder

Hercules Leite PhD, Lidiane Ferreira MSc, Deisiane Souto PhD, Amanda Fernandes MSc, Georgina Clutterbuck PhD, Ricardo Sousa Junior MSc, Ana Amélia Cardoso PhD

SP50: Effects of the EXOPULSE Mollii® Suit in Children with Cerebral Palsy: A Preliminary Study

Hidayet Cuha MSc, Merve Ozturk MSc, Pelin Atalan Efkeri DPT, Bulent Elbasan DPT

SP51: Semantic Diversity Effect on N400 in Children with ADHD During Word Recognition

hsin-Chi Wu PM&R, Chun-Hsien Hsu PhD, Ruo-chi Yao BS

SP52: Reference Values for Mobility in Typically Developing School-aged Children

Hsiu-Ching Chiu PhD, Louise Ada PhD, Rong-Ju Cherng PhD

SP53: Factors Affecting Mobility from Childhood to Adolescence in Cerebral Palsy: A Prospective Longitudinal Study

Hsiu-Ching Chiu PhD, Louise Ada PhD, Rong-Ju Cherng PhD, Chiehfeng Chen PhD

SP54: Feasibility of a Novel Robotic Walking Program at a Children’s Hospital

Hunter Loewen MD, Christa Diot MSc, Karin Eldred MSc Rehabilitation Science, BSc Physical Therapy, Elizabeth Condliffe PhD, MD, Amanda Beaudin BS

Posters

SP55: A Portable Multidimensional Assessment Platform Can Detect Degradation in Dual Task Gait and Balance Performance in Children with Unilateral Cerebral Palsy

Jamie Hall PT, DPT, PhD, Dana Chole DPT, Jacob Thomas MBA, Trent Guess BS, MS, PhD

SP56: Investigating an e-health transition intervention in Canadian youth with brain-based disabilities: Feasibility, efficacy, acceptability, and engagement in the context of patient prioritized outcomes.

Jan Willem Gorter MD, PhD, Khush Amaria PhD, CPsych, Adrienne Kovacs PhD, CPsych, Ronen Rozenblum PhD, MPH, Lehana Thabane PhD, Michael Frost, JoAnne Mosel, Kyle Chambers, Jessica Havens, Claire Dawe-McCord, Barb Galuppi BA, Linda Nguyen PhD, Sonya Strohm MSc, Alicia Via-Dufresne Ley m-MBA, PMP, Ariane Marelli MD, MPH, FRCPC, FACC, FAHA

SP57: How well are Families prepared and what coping strategies are they utilizing after Multi-level Surgery (MLS) in Children with Cerebral Palsy? A Pilot Study

Jana Teagle CTRS, CCLS, CBIS, Paul Enlow PhD, Wade Shrader MD

SP58: Characterization of Falls in Children with Ambulatory Cerebral Palsy

Jennifer Nelson DPT, Elizabeth Boyer PhD

SP59: Impact of light weight, low-cost exoskeleton on walking outcomes in children with Cerebral Palsy

Jennifer Traines PT, DPT, Rebecca Macaluso MS, Zachary Lerner PhD, Arun Jayaraman PhD PT

SP60: Public insurance coverage is associated with longer length of stay in pediatric inpatient rehabilitation

Jennifer Wu MD, PhD, Rebecca Siegel MD, Stephanie Cohen CPNP, Tracey Gatha LICSW

SP61: Gait Abnormalities in children with Idiopathic Toe Walking (ITW)

Jeremy Bauer MD, Mark McMulkin PhD, Bruce MacWilliams PhD, Susan Sienko PhD, Jon Davids MD

SP62: Idiopathic Toe Walking (ITW): Are parents able to accurately report?

Jeremy Bauer MD, Paige Lemhouse BS, Bruce MacWilliams PhD, Susan Sienko PhD

SP63: Establishing the Minimal Clinically Important Difference and Minimal Detectable Difference for the Gross Motor Function Measure-88 in Young Children with Down Syndrome

Jessica Silveira PT, DPT, PhD, Kari Kretch PT, DPT, PhD, Julia Looper PhD

SP64: The impacts of robotic walking on parent-reported physical activity related outcomes following 8-weeks of at home training.

Jessica Youngblood MSc, Benjamin Norman MKin, Christa Diot MSc, Kelly Larkin-Kaiser PhD, Elizabeth Condliffe PhD, MD

SP65: Pulmonary Function in Individuals with Prune Belly Syndrome

Jessica Lewis PT, DPT, Matthew Parrett M.Ed, FMS, Mallory Rowan BS, Linda Baker MD, Kirsten Tulchin-Francis PhD

SP66: Physical Examination as a Predictor in Detecting Hip Migration in Children with Cerebral Palsy.

Jim Aalbers BS, Renée van Stralen, Merel Roelen MD, Denise Eygendaal PhD, Max Reijman PhD, Jaap Tolck MD, PhD

Posters

SP67: A tractometry approach for analyses of the corticospinal pathway in perinatal brain injury

Jose Guerrero-Gonzalez PhD, Ellen Sutter DPT, Cameron Casey PhD, Anna Lowe, Douglas Dean PhD, Andrew Alexander PhD, Bernadette Gillick PhD

SP68: Implementation of a Shared Decision-Making Process for High-Risk Orthopedic Surgeries

Juliana Mariani, MD, Richard D. Goldstein, MD, Erin Ward, MEd, Betsy Blume, Isabel Stringfellow, BS, Lucia Bastianelli, MSN, Daniel Hedequist, md, Benjamin J. Shore, MD, MPH, FRCSC, Jay Berry, MD, John Emans, MD

SP69: Toe-in/out gait and transverse kinematic correlations between marker-based and markerless motion capture systems

Jutharat Poomulna MS, David Kingston PhD

SP70: Relationship Of Motor And Cognitive Abilities In Infants And Toddlers With/At High Risk Of CP After CAMP

Kanishka Baduni MPT, Caitlin Kjeldsen PhD, Owais Khan PT, Larken Marra PhD, William Kjeldsen, Allison McIntyre OT, Christopher Modlesky PhD, Nathalie Maitre BA, MD, PhD

SP71: Diagnostic accuracy of early neonatal MRI in predicting adverse motor outcomes in children born preterm: systematic review and meta-analysis

Karen Mistry DPT, BExSS, Roslyn Boyd PhD, Bachelor Physiotherapy, Alex Pagnozzi PhD, Samudragupta Bora PhD, Robert Ware PhD, Joanne George PhD

SP72: Characterizing Everyday Positioning Experience in Typically Developing Infants and Infants With or at Risk for Cerebral Palsy

Kari Kretch PT, DPT, PhD

SP73: Community-based Power Training Programs for Youth with Cerebral Palsy Improve Motor and Goal Performance

Karin Eldred MSc Rehabilitation Science, BSc Physical Therapy, Candice Natrasony BS, Lesley Pritchard PT, PhD, Grace Kwong PhD, Elizabeth Condliffe PhD, MD

SP74: Skeletal Muscle Gene Expression in Spastic Cerebral Palsy: A Single Cell RNA-Seq Study

Karyn Robinson MS, Stephanie Lee MS, Jonathan Hicks BS, Wade Shrader MD, Robert Akins PhD

SP75: Effectiveness of School-Based Physiotherapy Intervention for Children

Kate Alexander BPhy (Hons), Georgina Clutterbuck PhD, Leanne Johnston PhD

SP76: Game On – CP Soccer Intensive Camp Improves Functional Mobility and Fitness in Children and Adolescents with Cerebral Palsy & Other Early Life Brain Injuries

Katherine Dimitropoulou PhD, OT, MSPOR, Brian Wishart DO, MMS, FAAP, Mara Yale PhD, Jacqueline Chen BS, Hana Azizi MD, MPH

SP77: Early Corticospinal Tract Development and Motor Outcomes in Infants with Perinatal Brain Injury

Kellie Collins DPT, Ellen Sutter DPT, Cameron Casey PhD, Douglas Dean PhD, Ryan McAdams MD, Bernadette Gillick PhD

Posters

SP78: Feasibility of Commercial vs. Research-Grade Tummy Time Sensors for Infants: Insights from Real-World Translation

Ketaki Inamdar PT, PhD, Stacey Dusing PhD, Peter Pidcoe PT, DPT, PhD, FNAI, Leroy Thacker PhD, Sheryl Finucane PhD, PT, Kimeran Evans PhD, Virginia Chu OTR/L, PhD

SP79: Tummy to Learn: Exploring the Link Between Prone Skills and Problem Solving in Infants

Ketaki Inamdar PT, PhD, Tanya Tripathi PT, PhD, Rebecca Molinini DPT, PhD, Wei Fang PhD, Arya Salgaonkar MPT, Stacey Dusing PhD

SP80: Innovation toward Promoting Adaptive Motor Response: A pilot study of motor errors for adolescents and young adults with CP

Kimberley Scott DPT, PhD, Lukas Kocher, Brad Corr DPT, Max Kurz PhD

SP81: Functioning profile and health-related quality of life in children and youths with cerebral palsy by GMFCS in Argentina

L. Johana Escobar MSc, Natalia Herrera Sterren MD, Eduardo Cuestas PhD, Silvina Berra PhD, Verónica Schiariti MD MHSc PhD, Federico Sánchez PT, María Elisabeth Cieri PhD, Ana Laura Condinanzi OTR/L, Maria de las Mercedes Ruiz Brunner PhD

SP82: Altered Afferent Development May Impact Pain in Cerebral Palsy

LONDON GENRY BS, EMILY REEDICH PhD, Grace Giddings BS, Meredith Singer BS, ELVIA MENA AVILA MD, PhD, Deborah Gaebler-Spira MD, Megan Detloff BS, PhD, Katharina Quinlan PhD

SP84: Rehabilitation Interventions to Improve Bimanual Upper Limb Function and Participation in Daily Activities in Children with Cerebral Palsy: a Scoping Review

Laura Fournier-Poisson BS, Anne Claire David BS, Maxime Robert PhD, Marika Demers PhD

SP85: Collaborative Coaching in Pediatric Rehabilitation: An Effectiveness-Implementation Study of the Applied Coaching Tool

Laura Brunton PT, PhD, Debra Teitelbaum MSc, Zoe Daviault MSc, Lewis Gitelman MA Ed Tech

SP86: The Water is Magic: Evaluation of the usage, benefits, and barriers of adaptive swimming equipment provided from an aquatic assessment program

Laura Oldford CTRS, MA, ATRIC, Marie-Claire Paulin Psy.D., Lauren Casey BSc, Natasha Hanson PhD

SP87: Does Tranexamic Acid Reduce Blood Loss for Children undergoing Reconstruction for Neuromuscular Hip Dysplasia

Lauren Hyer MD, Emily Shull PhD, David Westberry MD, Brittney Southerland BS, Daphne Lew PhD

SP88: Fall Risk and Outcomes in Adults with Cerebral Palsy

Lauren Kang, Linda Krach MD, Elizabeth Boyer PhD

SP89: Use of a Walker-Mounted Pediatric Lower-Limb Exoskeleton in a Primary School Setting for Children with Cerebral Palsy: Insights from a School-Based Physiotherapist Team

Ledycnarf Holanda PhD, Stefanie Bradley MSc, F Virginia Wright BScPT, MSc, PhD

Posters

SP90: Epidural Analgesia after Hip Reconstruction Surgery in Children With Neuromuscular Complex Chronic Conditions – How Long Should the Epidural Stay in For?

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

SP91: Are selective dorsal rhizotomies associated with fall outcomes in individuals with cerebral palsy?

Linda Krach MD, Kari Pederson MSW, LICSW, Sandy Tierney PhD, MSSW, Nathan Wandersee AS, Marissa Esterley MS, Elizabeth Boyer PhD

SP92: Transition to Adulthood: Steps to Employment for Youth with Physical Disabilities in Quebec, Canada

Linda Nguyen PhD, Hawk Andiqwar OT, Cassandra Bertaglia OT, Fatima Ezzahra Mrah OT, Kinza Hart OT, Mehrnoosh Movahed MD, Julianne Noseworthy MS, Keiko Shikako PhD

SP93: Mobilizing knowledge to co-develop the Siblings Training, Empowerment, and Advocacy Kit (Siblings TEAKit) to support siblings of individuals with a disability

Linda Nguyen PhD, Samantha Bellefeuille, Hanae Davis PhD, Jan Willem Gorter MD, PhD, Marjolijn Ketelaar PhD, Jennifer Zwicker PhD, Keiko Shikako PhD

SP94: Assessment of the Short Grit Scale in children with cerebral palsy as a parent proxy measure.

Lisa Lykken BS, Maykala Owens BS, Elizabeth Boyer PhD, Tom Novacheck MD, Frank Symons PhD, Chantel Burkitt PhD

SP95: Neurosurgical and Developmental Evaluation of Neonates with Grade III and IV Intraventricular Hemorrhage

Louisa Smitherman BS, Andrew Morse BS, Krista Bangs BS, Ahmed Massoud MD, Roshirl Francisco MD, Manish Shah MD, Sarah Wilson MD

SP96: Tendon Transfer Fixation in Patients with Neuromuscular Disease

Maia Regan BA, Sarmistha Madan, Sulagna Sarkar MS, Keith Baldwin MD, MSPT, MPH, David Spiegel MD, Christine Goodbody MD, MBE, Bernard Horn MD

SP97: Who Gets a Gait Analysis? Effects of Socioeconomic Deprivation on Gait Lab Accessibility

Maia Regan BA, Sulagna Sarkar MS, Keith Baldwin MD, MSPT, MPH, David Spiegel MD, Divya Talwar PhD, Christine Goodbody MD, MBE, Bernard Horn MD

SP99: Capacity Building for Youth with Disabilities: A Knowledge Synthesis

Mallory Ryan MSc,OT, Nahid Fathi MSc, Michelle Phoenix PhD, Mats Granlund PhD, Fiona Graham PhD, Dana Anaby PhD

SP100: Empower Parents! Development and Validation of an Educational Material to Promote Age-Appropriate Development of Preterm Infants

Manasa Kolibylu Raghupathy MPT, Sonia Khurana PT, PhD, Leslie Edward S Lewis DNB Pediatrics, Bhamini Krishna Rao PhD

SP101: Relative motor performance in a bimanual vs. unimanual task in children living with unilateral cerebral palsy compared to typically developing children

Manel Abid MSc, Isabelle Poitras MSc, Léandre Gagné-Pelletier MSc, Charles Sébiyo Batcho PhD, Catherine Mercier PhD

Posters

SP102: Why do patients “no show”? An examination of factors affecting ability to attend appointments.

Mara Karamitopoulos MD, MPH, Micaela Tomaro MS, Claire Thompson BA, Nadim Kheir MD, Claire Manix-Cramer PT, DPT

SP103: Exploring clinical gait analysis needs among healthcare professionals and caregivers of children with cerebral palsy

Marie Lévesque-Jalbert BS, Marie Rousseau-Demers MSc, Laurent Ballaz PhD, Yosra Cherni PhD, Philippe Dixon PhD, Louis-Nicolas Veilleux PhD, Katia turcot PhD, Maxime Robert PhD

SP104: The Cerebral Palsy Toe Strike: Perhaps Not Spasticity But a Discovered Gait Adaptation to Prevent Slip Falls

Mark Riggie

SP105: Effectiveness of New Multi-Component Virtual Reality Program in the Motor Skills and Functional Postural Control in Hemiplegic Cerebral Palsy

Marzieh Babaei, Meysam Roostaei, Saeed Behzadipour, Narjes Jafari, Seyed Mansoor Rayegani

SP106: Pelvic Rotation is not a Sufficient Predictor of Coronal Plane Hip Position in Children with Cerebral Palsy

Matthew Parrett M.Ed, FMS, Kirsten Tulchin-Francis PhD, Mallory Rowan BS, Jessica Lewis PT, DPT

SP107: A multidisciplinary program to wean infants and toddlers from long term tube feeding: Lessons learned from a retrospective study

Maurit Beerl, Tal Dror BA, Patrice L. (Tamar) Weiss PhD, Judith Blinder MS

SP108: The Relation Between the Increase of Knee Range of Motion and Patient’s Satisfaction After Rectus Femoris Transfer in Cerebral Palsy

Mauro Morais Filho MD, MSc, PhD, Cátia Kawamura PT, Marcelo Fujino MD, José Augusto Lopes MSc, Ageu Saraiva MD

SP109: Intensive Physical Therapy Practice Patterns in the United States: Thematic Analysis of Open-ended Survey Questions

Meaghan Rubsam PT, DPT, PCS, James Hedgecock DPT, Kelly Greve PT, DPT, PhD, Dana Chole DPT, Jamie Hall PT, DPT, PhD

SP110: Canadian Health Indicators for Children with Disabilities

Mehrnoosh Movahed MD, Keiko Shikako PhD, Ebele Mogo PhD, Rubab Arim PhD, Roberta Cardoso PhD, Lisa Wolff, Paul Yoo PhD, OT, Ananya Chandra BA, Rachel Martens, Brenda Lenahan

SP111: This is Getting Out of Hand: Hand and Arm Limitations in Late Preterm Infants

Melanie Schultz, Melanie Tommer, Katrina Bucher BHS, BA, Chloe Warham BA,BHS, Aleena Purewal, Emma Costello, Michele Goncalves Maia MS, Sarah Berger PhD, Regina Harbourne PhD

SP112: Trying to Balance the Impossible: Cognitive and Motor Reaching in Late Preterm vs Term Infants

Melanie Tommer, Melanie Schultz, Katrina Bucher BHS, BA, Chloe Warham BA,BHS, Emma Costello, Aleena Purewal, Michele Goncalves Maia MS, Sarah Berger PhD, Regina Harbourne PhD

Posters

SP113: User Feedback for Adaptive Exergaming Mobile App With Augmented Reality to Promote Physical Activity in Children With Cerebral Palsy

Melissa Bent MD, Abigail Padilla BS, Susan Rethlefsen DPT, Alison Hanson MPT, Eva Ciccodicola DPT, Tishya Wren PhD

SP114: Differences in Measures of Social Disadvantage: Area Deprivation Index vs. Child Opportunity Index

Melissa Bent MD, Sam Wimmer BS, Susan Rethlefsen DPT, Robert Kay MD, Tishya Wren PhD

SP115: Diagnosis of Neuropathy in Childhood Onset Hereditary Spastic Paraparesis

Michelle Christie MD, Linsley Smith RN

SP116: Parent Perspectives on Education to Support Hospital Discharge for Children with Invasive Mechanical Ventilation

Michelle High MSN, Emma Lynch MPH, Sarah Sobotka MD, MSCP

SP117: Bridging the Evidence-Practice Gap in Family-Centered Service: The Impact of an Online Training on Service Providers

Mihee An PT, PhD, Jeonghui Kim PT, PhD

SP119: Using a Robotic Exoskeleton as a Therapeutic Tool to Induce Salient Motor Errors for Improving the Gait of Adults with Cerebral Palsy

Morgan Busboom PT, DPT, Brad Corr DPT, Katie Bemis DPT, Kimberley Scott DPT, PhD, Max Kurz PhD

SP120: The development of a novel atropine mucoadhesive gel for the management of drooling

Nancy Murphy MD, Madison Parrot BS, Venkata Yellepeddi PhD, RPH, DABCP

SP121: A Community-Based Early Detection and Intervention Program for Children at Risk of Cerebral Palsy in Rural Bangladesh

Nasim Mahmud BScPT, Mahmudul Hassan Al Imam PhD, MPH, BScPT, Shafiqul Islam BScPT, MPH, Israt Jahan PhD, Mohammad Muhit MBBS, MSc, MSc, PhD, Nadia Badawi MBBCh, MSc, DCH, FARCP, PhD, FRCPI, Gulam Khandaker MBBS, DCH, MPH, PhD, FAFPHM

SP123: Identifying Risk Factors for Hip Surveillance Non-Adherence in Pediatric Patients with Cerebral Palsy

Nora Galoustian B.A., Michaela Juels BS, Monica Guirgus MS, Al-Hassan Dajani BS, Michelle Ryder BS, Arianna Konstantopoulos BA, Tatiana Shahinian BS, Rachel Thompson MD

SP124: Rediscovering Down Syndrome: A Narrative perspective on finding one's voice when navigating research equity and family-centred care

Oksana Hlyva PhD, Mark Grinberg MD

SP125: The Impact of Tibial Derotational Osteotomy on Plantar Pressure Measurements in Pediatric Patients with Cerebral Palsy, Tibial Torsion, and Concurrent Foot Deformity

Olivia Tracey BA, Akshitha Adhiyaman BS, Colson Zucker BA, Silvia Zanini MS, Vishnu Deep Chandran PhD, Jennifer Jezequel DPT, Bridget Assip DPT, Sherry Backus PT, Dara Jones MD, Paulo Selber MD, Howard Hillstrom PhD, David Scher MD

Posters

SP126: Coping with pain: Thought patterns and interference with daily activities in communicative adults with cerebral palsy

Paul Salib BS, Sanaya Shenoy MSPH, Heather Riordan MD, Alexander Hoon MD, Lauren Jantzie PhD, Claudia Campbell PhD, Shenandoah Robinson MD, Eric Chin MD

SP127: ADAPT Project: Perception of families and physiotherapists after the use of motorized mobility – A mixed methods study

Paula Chagas PhD, Beatriz Saraiva BS, Michele Alvim PT, Maritza Breder MSc, Rafaela Silva BS, Maisa Garcia BS, Ana Carolina Facchin BS, Ana Carolina Souza BS, Leticia Diogo MSc, Livia Alonso PhD, Flavia Bastos PhD

SP128: Perceived benefits of monthly meetings focusing on the healthcare of children and adolescents with cancer

Paula Chagas PhD, Rafaela Silva BS, Maria Clara Assis BS, Maisa Garcia BS, Ana Paula Dias BS, Carolina Silva BS, Bruna Moreira BS, Larisa Dias BS, Maria Eduarda Souza BS, Maria Eduarda Schaefer BS, Devika Chiari PT

SP129: Association of Parental Interactions and Therapies with Cerebral Oxygenation Variability in the Neonatal Intensive Care Unit

Presley Volkema MD, Lisa Letzkus PhD, AC-PNP, RN, Michael Spaeder MD, Santina Zanelli MD

SP131: Using the F-Words Life Wheel to Identify Gaps in Rural Rehabilitation

Rachel Bican PT, DPT, PhD, Evan Forsythe BS, Kimberly Ito BS, Lynsey Meeks BS, Allyson Hughes PhD

SP132: Parents' Adaptation of Play Positioning in Infants with Cerebral Palsy: A Comparative Analysis of Free Play and Novel Toy Play Sessions

Radhika Attal PT, MPT, Regina Harbourne PhD, Lin-Ya Hsu PhD, Natalie Koziol PhD, Kari Kretch PT, DPT, PhD, Barbara Sargent PhD, PT, Stacey Dusing PhD

SP133: Do adductor tenotomies prevent hip subluxation in children with cerebral palsy? – a systematic review.

Renée van Stralen, Merel Roelen MD, Pranai Buddhdev BSc MBBS MSc(OrthEng) FRCS(Tr&Orth) MSc(Exec.), Max Reijman PhD, Denise Eygendaal PhD, Jaap Tolck MD, PhD

SP134: Recognizing Care Coordination Beyond the Clinic Walls: Defining and Measuring Parental Care Coordination Activities for Children Living with Medical Complexity

Rhonda Cady PhD, RN, Maykala Owens BS, Tori Bahr MD

SP135: Optimizing Diagnosis and Precision Medicine Within the Cerebral Palsy Population Utilizing Multigene Cerebral Palsy and Neurodevelopmental Delay Genetic Panels

Ria Shahapeti, Jane Emerson MD

SP136: Take That Back! Hip Surgery is NOT More Painful Than Spine Surgery in Children with Cerebral Palsy

Robert Kay MD, Abigail Padilla BS, Lindsay Andras MD, Michael Heffernan MD, Tishya Wren PhD, Noah Tyau BA

SP137: Community Ambulatory Performance in Children with Hereditary Spastic Paraplegia

Robert Wimberly MD, Fabiola Reyes MD, Kelly Jeans MSc, Linsley Smith RN, Elizabeth Bunkell PT

Posters

SP138: Implementation of My Abilities First Tool in Brazil: lessons learned in a Qualitative Study

Roselene Alencar MS, Ana Raquel Lindquist PhD, Caline Jesus MS, Veronica Schiariti Schiariti PhD

SP140: Cognitive and motor improvement by tummy time practice in preemies: a randomized clinical trial

sabrinne Sampaio MS, Klayton Galante PhD, Carolina Lima-Alvarez Dr, Silvana Pereira Dr

SP141: Scoliosis Correction in Spinal Muscular Atrophy: The Influence of Genetic Severity, Functional Level, and Disease-Modifying Agents on Post-operative Outcomes

Sadettin Ciftci MD, Wade Shrader MD, William Mackenzie MD, Robert Heinle MD, Mena Scavina DO, Jason Howard MD

SP142: Social Disadvantage Does Not Always Delay Access to Hip Surgery in Children with Cerebral Palsy

Sam Wimmer BS, Melissa Bent MD, Tishya Wren PhD, Robert Kay MD

SP143: From the Outside, Looking In: What Are the External Indicators of Participation in Leisure-Time Physical Activity for Children with Disabilities?

Samantha Lee BPhy (hons), Michael Curtin PhD, Georgina Clutterbuck PhD

SP144: Defining Core Components and Understanding Participant Experiences: A Qualitative Study of the BRIGHT Coaching Program

Samantha Noyek PhD, Allison Mounsey MSW, Carrie Costello BFA, Ana Hanlon-Dearman MD, MSc, Gina Rempel FRCPC, Maureen O'Donnell FRCPC, Annette Majnemer BSc, MSc, PhD, Tatiana Ogourtsova PhD OT, Hema Patel MD, William McKellin PhD, Jillian Filliter PhD, Kristy Wittmeier PhD

SP145: Selective Dorsal Rhizotomy's Effect on the Hips in Children with Cerebral Palsy

Scott Miller MS, Kellen Krajewski PhD, Sayan De MD

SP146: Trends in Timing of Hip Surgery in Children with Cerebral Palsy: Is Surgery Being Performed Earlier? A National Observational Study

Sean Tabaie MS MD MBA, Anthony Chiu BS, Sarah Dance BS, Samantha Ferraro BS, Savvasachi Thakkar MD

SP147: Adopting the Hammersmith Infant Neurologic Examination (HINE) Tool for Early Detection of Young Children with High Probability of Cerebral Palsy (CP) in Ethiopia: A Knowledge Implementation Project

Selamenesh Tsige Legas MD, pediatrician, Darcy Fehlings MD FRCPC(C), MSc, amber Makino MD, FRCPC, atsede Teklehaimanot MD, Behaylu Yibe MD, Amha Mekasha MD, Rudaina Banihani MD, FRCPC, Asrat Demtse MD, Ayalew moges MD

SP149: Comparing the effect of conservative or surgical treatment of patients with myopathic scoliosis on function and quality of life

Sharon Eylon MD, Amihai Rigbi PhD, Patrice L. (Tamar) Weiss PhD, Josh Schroeder MD, Alexandra Satanovsky MD

SP150: Patients with myopathy and scoliosis treated conservatively: Retrospective long-term follow-up and prospective outcomes

Sharon Eylon MD, Amihai Rigbi PhD, Patrice L. (Tamar) Weiss PhD, Josh Schroeder MD, Alexandra Satanovsky MD

Posters

SP151: Awareness about Developmental Milestones among Postnatal Mothers

Shubha Nayak PT, manasa Kolibylu
Raghupathy MPT, Esha Shetty MPT, Shreya
Gadkari MSc, Aditi Goyal MPT, Joseph George
Kalathil DPT, Bhamini Krishna Rao PhD

SP152: Perspectives of People with Cerebral Palsy and their Communication Partners of Eye-Gaze Control Technology Opportunities and Service Provision: A Qualitative Study

Sonia Elliott BOccThy (Hons), Petra Karlsson
PhD, Avril Parry BSW, Michelle McInerney PhD,
Margaret Wallen PhD

SP153: Orthopaedic Complications in Rett Syndrome: a case series

Stacey Miller BSc(PT), MRSc, Maria Juricic
MRSc, BScPT, BScKin, Anita Datta MD, Gabriella
Horvath MD, Kishore Mulpuri MHSc, MSc,
MBBS, FRCSC

SP154: Feasibility and Goal-Based Outcomes of First-Time Implementation of an Assistive Lower-Limb Exoskeleton in a School-Based Physiotherapy Program for Young Children with Cerebral Palsy

Stefanie Bradley MSc, Anne Kawamura MD,
Tom Chau PhD, PEng, F Virginia Wright
BScPT, MSc, PhD

SP155: Services for Youth with Co-occurrence of Physical Disability and Mental Health Problems: A Qualitative Study

Stephanie Tremblay PhD(c), MScAOT, Shalini
Lal PhD, Mark Ferro PhD, Dana Anaby PhD

SP156: School readiness outcomes of children identified as high risk of cerebral palsy in infancy.

Stina Oftedal PhD, B Hlth Sc (Diet), Roslyn Boyd
PhD, Bachelor Physiotherapy, Iona Novak PhD,
Nadia Badawi MBBCh, MSc, DCH, FARCPC, PhD,
FRCPI, Samudragupta Bora PhD, Robert Ware
PhD, Catherine Morgan PhD; BAppSc (Physio),
Koa Whittingham PhD, Ashleigh Hines PhD,
Catherine Elliott PhD, Jane Valentine MBBS,,
Michael Fahey MBBS, PhD, Leanne Sakzewski
PhD, Bachelor Occupational Therapy

SP157: Feedback on the speed track: Stakeholder perspectives on the feasibility of a clinician-delivered ride-on-toy navigation program for children with Unilateral Cerebral Palsy

SUDHA SRINIVASAN PhD, Vaishnavi Shahane
PT, Meghan Barrett BS (Ongoing), Madeline
Jakubowski BS (Ongoing), Kyle Dubois BS
(Ongoing), Patrick Kumavor PhD, Kristin
Morgan PhD

SP158: Sidesticks as sidekicks: Can joystick-operated ride-on-toys serve as adjuncts in upper extremity rehabilitation for children with unilateral cerebral palsy?

SUDHA SRINIVASAN PhD, Vaishnavi Shahane
PT, Uthara Sundaresh BS (Ongoing), Kara
Bowkowski BS (Ongoing), Ruth Cortright BS
(Ongoing), Kyle Dubois BS (Ongoing), Patrick
Kumavor PhD, Kristin Morgan PhD

SP159: Rewarding Infant Movement to Prevent Disuse

Susan Duff EdD, MPT, OT/L, CHT, Karina
Barragan BS, Eric Wade PhD, Audrey Howell BS,
Rahul Soangra PhD

Posters

SP160: Social capital of families of children with neurodevelopmental disabilities in South India

Tatiana Ogourtsova PhD OT, Diana Banaru MSc Applied OT, Dana Boyd MSc Applied OT, Melanie Halevy MSc Applied OT, Kayla Orsat-Parker Msc Applied OT, Dinesh Krishna PhD, Marie Brien PT, MSc, Franzina Coutinho PhD OT

SP161: Resilience and adolescence–transition in youth with developmental disabilities and their families: A scoping review

Tatiana Ogourtsova PhD OT, Naomi Zukerman MSc Applied OT, Emily Bottone MD student, Maya Low MSc

SP162: The Gait Outcomes Assessment List (GOAL) Questionnaire: Test–Retest Reliability and Validity in Children with Cerebral Palsy in Turkey

Umut Apaydin PhD, Rabia Eraslan MSc, Hatice Adiguzel PhD, Ayşe Yıldız PhD, Ramazan Yıldız PhD, Erkan Erol PhD, Bulent Elbasan PhD

SP163: Mental Health Screening in Children with Disabilities

Unoma Akamagwuna MD, Allan Lara MD, Lindsey Schuler

SP164: Improvements in the Center of Mass Accelerations after Physical Therapy are Linked with the Mobility of Persons with Cerebral Palsy

Uyen Nguyen BS, Morgan Busboom PT, DPT, Brad Corr DPT, Katie Bemis DPT, Kimberley Scott DPT, PhD, Max Kurz PhD

SP165: Percutaneous tendon lengthening and Selective Percutaneous Myofascial Lengthening (SPML) in Children with Cerebral Palsy:

Establishing surgical indications and techniques using the Delphi method

Wade Shrader MD, Robert Kay MD, Benjamin Shore MD, MPH, FRCSC, Erich Rutz MD, Kristan Pierz MD, Tim Theologis MSc, PhD, FRCS, James McCarthy MD, Kerr Graham MD, Hank Chambers MD

SP166: PEDiDBS: Early data on deep brain stimulation in cerebral palsy compared to other forms of dystonia

Warren Marks MD, Michael Kruer MD, Avery Caraway MS, Stephanie Acord MD, James Kelbert BS, Umesh Sankpal PhD

SP167: Assessing Neuromuscular Efficiency by Oxygen Consumption Testing in Ambulatory Boys with Duchenne: Effects of Exon Skipping Therapies

Warren Marks MD, stephanie Acord MD, Lindsay Jacobs PT,DPT, Avery Caraway MS, Britney Rhem MD, Marcie Baldwin MSN

SP168: Single–event Multi–level Chemoneurolysis with botulinum toxin A Reduced Spasticity Not Energy Expenditure in Children with Lower Limb Spasticity Due to Cerebral Palsy

Xiaoyu Pan MD, PhD, MPH, Heakyung Kim MD, Michael Spinner MS, Nancy Lee MS, Hiroko Matsumoto PhD, Amber Newell OTRL, PNP, Adam Blanchard MS

SP169: Exploring the Dynamics of Spontaneous Infant Movement: A Longitudinal Study of Movement Patterns and Cortical Activity

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

Posters

SP170: Effect of Proximal Femoral Guided Growth on Hip Subluxation in Cerebral Palsy

*Zachary Weingrad B.S., Kyrillos Akhnoukh MD,
Vedant Kulkarni MD, Jon Davids MD, Sean
Waldron MD*

Exhibitor Listing

Booth 101 - Zeen by Exokinetics

The Zeen by Exokinetics, is a groundbreaking mobility device for individuals who are at risk of falling or need support due to chronic illness, injury, or age. The Zeen offers an adjustable powered lift system allowing the user to safely go from sit-to-stand and does not require the use of a motor or battery. The specialized seat provides continual support, facilitates a natural gait, and easily adjusts to a variety of heights. The seat enables the user to weight-bear and rest as-needed. The seatbelt significantly reduces the risk of falling. The Zeen allows everyone to discover the joy of movement.

www.gozeen.com

Booth 102 - Cook Children's Health Care System

Cook Children's Health Care System embraces an inspiring promise- to improve the health of every child in our region through the prevention and treatment of illness, disease and injury. Based in Fort Worth, Texas, we're proud of our long and rich tradition of not only serving our community but patients around the world.

<http://www.cookchildrens.org>

Booth 103 - BTS Bioengineering

BTS Bioengineering connects the world of healthcare and sport with cutting-edge motion capture technologies.

The ultimate goal of BTS Bioengineering technologies is to help people overcome their restricted mobility and enhance their performance so that they can face life and competition to the best of their ability. We develop technologies as we are very familiar with the needs of the people for whom they are intended.

For patients and sports people, of course, but primarily for doctors, rehabilitators, physiotherapists, and athletic trainers, who need to find the same simplicity and fluidity in their use as someone who moves confidently.

www.btsengineering.com

Booth 105 - Medical Rehabilitation Research Resource (MR3) Network

The Medical Rehabilitation Research Resource (MR3) Network comprises six Rehabilitation Research Resource Centers that provide infrastructure and access to expertise, technologies, and resources to foster clinical and translational research in medical rehabilitation. MR3 Network centers offer expertise from the cell to whole body across the lifespan to implementation into practice with expertise in regenerative rehabilitation, neuromodulation, pediatric rehabilitation, technology for real-world assessment, and translation/ dissemination research.

ncmrr.org/

Booth 106 - Medexus Pharmaceuticals

Medexus Pharmaceuticals Inc. is a leading innovative and rare disease pharmaceutical company with a focus on the therapeutic areas of rheumatology, auto-immune disease, specialty oncology, allergy, and pediatric diseases.

medexus.com

Booth 107 - Invent Medical

Exhibitor Listing

Booth 108 - United Cerebral Palsy

United Cerebral Palsy is the indispensable resource for individuals with cerebral palsy and other disabilities, their families, and communities. Founded in 1949, UCP's 55 affiliates — 53 in the U.S. and 2 in Canada — provide disability programs, resources, services, educational instruction and workforce training annually for more than 150,000 children and adults at all levels of ability and stages of life. UCP believes people with disabilities deserve to be treated as full members of an inclusive society to achieve their greatest potential and "live life without limits."

www.ucp.org

Booth 109 - Trexo Robotics

Trexo Robotic Gait Trainer Helps Children Gain Strength, Endurance and Proper Gait Patterns. Trexo's adjustability makes it a versatile tool to help most children with a disability experience over-the-ground walking. "The benefits of this device is endless. Being able to use this device on a regular basis just to fine tune their gait pattern, stretch out their muscles, and improve their gait styles would be very beneficial!"

- JO-ANNE WELTMAN, OWNER OF S.M.I.L.E. THERAPY FOR KIDS

<http://www.trexorobotics.com>

Booth 110 - Gillette Children's

Gillette Children's is a global beacon of care for patients who have brain, bone, and movement conditions that start in childhood. Gillette Children's hospital and clinics have earned national and world renown for excellence in the treatment of cerebral palsy, gait and motion analysis, pediatric orthopedics, pediatric neurology and neurosurgery, and pediatric rehabilitation medicine.

Through innovative research, treatments, and supportive technologies, Gillette Children's focuses on what is possible. If a solution does not exist, we build it. If a question is unanswered, we research it. If a child has a dream, it becomes our dream, too.

<http://www.gillettechildrens.org/>

Booth 114 - Nemours Children's Health

Families from around the world come to the Cerebral Palsy Center at Nemours Children's Hospital, Delaware. That's because we help kids with cerebral palsy (CP) live their best life.

Led by renowned specialists in orthopedics, neurology, neurosurgery, rehabilitation and more, we have everything your child needs, all in one place. We work as a team and plan care focused around your child.

<https://www.nemours.org/services/cerebral-palsy-center.html>

Booth 115 - Orthopediatrics

Founded in 2006, OrthoPediatics is an orthopedic company focused exclusively on advancing the field of pediatric orthopedics. As such it has developed the most comprehensive product offering to the pediatric orthopedic market to improve the lives of children with orthopedic conditions. OrthoPediatics currently markets 46 surgical systems that serve three of the largest categories within the pediatric orthopedic market. This product offering spans trauma and deformity, scoliosis, and sports medicine/other procedures. OrthoPediatics' global sales organization is focused exclusively on pediatric orthopedics and distributes its products in the United States and over 70 countries outside the United States.

Exhibitor Listing

Booth 200 – Galileo USA

Are you ready to accelerate patients functional outcomes? Galileo for all ages & abilities will optimize exercises through neuromuscular mechano-stimulation in short training times to knock out spasticity and train the whole-body in a small footprint. With 48 kids studies and 450+ studies over 26 years in all populations Galileo's evidence-based devices are the gold standard in medical/fitness with full-line of precision, side-alternating devices used in positions standing, tilt tables, chairs and dumbbells.

We love collaborating with passionate experts dedicated to advancing rehab to improve lives. With purchase comes education, training materials, posters and more. For information check out www.GalileoUSA.com.

<http://www.GalileoUSA.com>

Booth 201 – Frame Running USA

Frame Running USA is an organization focused on the development of the Frame Running community throughout North America. Frame Running is an international adaptive sport and recreational activity for people with limited or challenged mobility.

www.framerunningusa.org/

Booth 205 – LSVT Global, Inc.

LSVT Global offers world-class continuing education courses for speech, physical and occupational therapists globally in our evidence-based and effective treatments for Parkinson's, Pediatrics, and other Populations! LSVT LOUD and LSVT BIG are foundational speech, physical and occupational therapies grounded in over 30 years of scientifically validated research. Our newest product, LSVT LOUD for KIDS, is the result of 20 years of research exploring the impact of LSVT LOUD treatment to improve communication in childhood populations with motor speech

disorders. Join our global network and partner with us on our mission. Inspire hope. Be empowered. Transform lives.

www.lsvtglobal.com

Booth 206 – Allard USA

www.allardusa.com/

Booth 207 – Turtlebrace

<http://www.turtlebrace.com>

Booth 208 – Aretech

Aretech is the world leader in robotic body-weight support systems. Aretech offers ZeroG 3D with 3-dimensional tracking, so children have the freedom of movement to explore their space within a workspace up to 500 square feet. Alternately, ZeroG consists of a robot which rides on an overhead track for gait, balance, and perturbation training. Both systems have dynamic body-weight support and fall protection so children can actively participate in therapy with confidence.

aretechllc.com/

Booth 209 – Pathways.org

Pathways.org creates and distributes free tools to maximize all children's motor, sensory, and communication development. They empower parents to work with their healthcare provider to understand and encourage their baby's development to keep them on track or catch potential delays early. They promote screening of motor, sensory, and communication development by 4 months of age, to take advantage of baby's neuroplasticity.

<http://www.pathways.org>

Exhibitor Listing

Booth 210 - Ipsen Biopharmaceuticals, Inc.

Ipsen is a global biopharmaceutical company focused on innovation and specialty care. At Ipsen, we focus our resources, investments and energy on discovering, developing and commercializing medicines in three key therapeutic areas – Oncology, Rare Disease and Neuroscience. Our North American operations are located in Cambridge, Massachusetts, one of the company's three global hubs. Based in the heart of Kendall Square, our fully integrated biopharmaceutical business includes Commercial, Research & Development, Manufacturing, and Business Development. Combined with our Canadian headquarters in Mississauga, Ontario, and other locations, we employ approximately 600 people in North America. For more information please visit www.ipsenus.com.

www.ipsen.com/us/

Booth 211 - Egetis Therapeutics, US

At Egetis Therapeutics, we “care for the rare”, focusing our efforts on developing treatments for serious rare diseases where there are no current therapeutic options. Our aim is to ensure patients with the rarest of diseases can access the treatments they need to improve and extend their lives.

www.egetis.com

Booth 215 - Piramal Critical Care

With nearly 20 years in the healthcare industry, Piramal Critical Care, (PCC) is committed to delivering critical care solutions to patients and healthcare providers. PCC is leading the way in intrathecal medicine with offerings for pain (MITIGO) and spasticity management (Gablofen) while representing a culture built on innovation and service.

<http://www.piramalcriticalcare.com>

Booth 310 - The CVI Center at Perkins School for the Blind

Cerebral Visual Impairment (CVI) is the leading cause of childhood blindness and low vision. Despite being the leading cause of childhood blindness and low vision, less than 20% of kids with CVI are diagnosed.

www.perkins.org/our-work/cvi/

Exhibit Hall

EXHIBIT HALL HOURS

Wednesday, October 23:

6:00 pm - 8:00 pm:

Welcome Reception

Thursday, October 24:

7:00 am - 8:00 am:

Continental Breakfast

10:45 am - 11:45 am:

Coffee Break & Poster and Exhibit Review

Friday, October 25:

7:00 am - 8:00 am:

Continental Breakfast

10:15 am - 10:45 am:

Coffee Break

1:30 pm - 2:30 pm:

Coffee Break & Poster and Exhibit Review

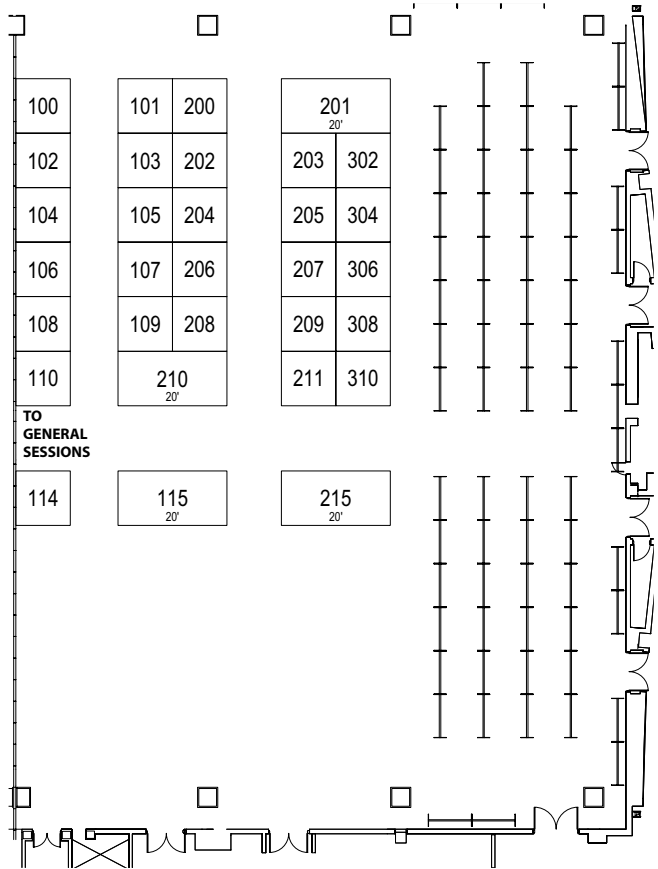
Saturday, October 26:

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Continental Breakfast

9:00 am - 9:30 am:

Coffee Break



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PLATINUM LEVEL



GOLD LEVEL



SILVER LEVEL



BRONZE LEVEL



ESSENTIAL LEVEL



Sponsor Listing

Platinum

Orthopediatrics

Founded in 2006, OrthoPediatics is an orthopedic company focused exclusively on advancing the field of pediatric orthopedics. As such it has developed the most comprehensive product offering to the pediatric orthopedic market to improve the lives of children with orthopedic conditions. OrthoPediatics currently markets 46 surgical systems that serve three of the largest categories within the pediatric orthopedic market. This product offering spans trauma and deformity, scoliosis, and sports medicine/other procedures. OrthoPediatics' global sales organization is focused exclusively on pediatric orthopedics and distributes its products in the United States and over 70 countries outside the United States.

<https://www.orthopediatrics.com/>

Gold

AbbVie

At AbbVie, our commitment to preserve the personhood of those living with neurological and psychiatric disorders is unwavering. Every challenge in this uncharted territory makes us more determined and drives us harder to discover and deliver solutions for patients, care partners and clinicians. AbbVie's Neuroscience portfolio consists of approved therapies in neurological and psychiatric disorders, along with a robust pipeline.

Abbvie.com

Silver

Gillette Children's

Gillette Children's is a global beacon of care for patients who have brain, bone, and movement conditions that start in childhood. Gillette Children's hospital and clinics have earned national and world renown for excellence in the treatment of cerebral palsy, gait and motion analysis, pediatric orthopedics, pediatric neurology and neurosurgery, and pediatric rehabilitation medicine. Through innovative research, treatments, and supportive technologies, Gillette Children's focuses on what is possible. If a solution does not exist, we build it. If a question is unanswered, we research it. If a child has a dream, it becomes our dream, too.

<http://www.gillettechildrens.org/>

Bronze

Nationwide Children's Cerebral Palsy and Developmental Medicine

When your child needs a hospital, everything matters.

www.nationwidechildrens.org/

Nemours Children's Health

Families from around the world come to the Cerebral Palsy Center at Nemours Children's Hospital, Delaware. That's because we help kids with cerebral palsy (CP) live their best life.

Led by renowned specialists in orthopedics, neurology, neurosurgery, rehabilitation and more, we have everything your child needs, all in one place. We work as a team and plan care focused around your child.

<https://www.nemours.org/services/cerebral-palsy-center.html>

Sponsor Listing

Neurocrine Biosciences, Inc.

Neurocrine Biosciences Inc. is a neuroscience-focused biopharmaceutical company located in San Diego, California. For three decades, Neurocrine has been dedicated to discovering and developing life-changing treatments for patients with under-addressed neurological, neuroendocrine, and neuropsychiatric disorders. The company's diverse portfolio includes U.S. Food and Drug Administration (FDA)-approved treatments for tardive dyskinesia, chorea associated with Huntington's disease, endometriosis*, and uterine fibroids*, as well as clinical programs in multiple therapeutic areas.

*in collaboration with AbbVie

<https://www.neurocrine.com/>

Rady Children's Hospital

The Southern Family Center for Cerebral Palsy at Rady Children's Hospital in San Diego provides comprehensive care for children and adults with cerebral palsy. Orthopedic surgeons, physical medicine and rehabilitation physicians, specialized physician assistants, nurse practitioners, nurses, and physical, occupational, and speech therapists contribute to the program. The Motion Analysis and Human Performance Laboratory evaluates the gait problems in children and adults with disabilities, and the team develops a treatment plan. Our Lifespan Clinic enables continuity of care for adults with disabilities.

www.rchsd.org/programs-services/cerebral-palsy-center/

Shriners Children's

Shriners Children's is a leader in providing care for orthopedic conditions, burn injuries, spinal cord injuries, and other spine disorders, and rehabilitation, sports injuries, and craniofacial conditions. We also offer specialized services, including orthotics and prosthetics and motion analysis. We strive to provide the care and support our patients need to reach their goals and discover their full potential. All care and services are provided regardless of the families' ability to pay or insurance status.

www.Shrinerschildrens.org

United Cerebral Palsy

United Cerebral Palsy is the indispensable resource for individuals with cerebral palsy and other disabilities, their families, and communities. Founded in 1949, UCP's 55 affiliates — 53 in the U.S. and 2 in Canada — provide disability programs, resources, services, educational instruction and workforce training annually for more than 150,000 children and adults at all levels of ability and stages of life. UCP believes people with disabilities deserve to be treated as full members of an inclusive society to achieve their greatest potential and "live life without limits."

www.ucp.org

Weinberg Family Cerebral Palsy Center at Columbia University

The Weinberg Family Cerebral Palsy Center at Columbia is the first program of its kind dedicated to lifetime, multidisciplinary care for patients with cerebral palsy on the East Coast. We help cerebral palsy patients and their families with comprehensive, continuous, and, most of all, compassionate care for patients of all ages. Our coordinated and multidisciplinary care network approach ensures all our patients receive superior lifelong health care with the most advanced and integrated treatments available.

www.weinbergcpcenter.org

Sponsor Listing

Essential

Children's Hospital of Philadelphia

The Cerebral Palsy Program at Children's Hospital of Philadelphia (CHOP) is a weekly clinic providing comprehensive care for children with cerebral palsy. Our multidisciplinary team provides therapies that enhance motor development, promote well-being, and improve quality of life. We collaborate with CHOP services to provide spasticity management, orthopedic care, developmental assessments, physical, occupational, and speech therapy, as well as medical equipment and assistive technology.

We proudly partner with healthcare providers and community organizations in surrounding areas, welcoming referrals to ensure children receive the specialized care they need.

www.chop.edu

Cook Children's Health Care System

Cook Children's Health Care System embraces an inspiring promise- to improve the health of every child in our region through the prevention and treatment of illness, disease and injury. Based in Fort Worth, Texas, we're proud of our long and rich tradition of not only serving our community but patients around the world.

<http://www.cookchildrens.org>

Egetis Therapeutics, US

At Egetis Therapeutics, we "care for the rare", focusing our efforts on developing treatments for serious rare diseases where there are no current therapeutic options. Our aim is to ensure patients with the rarest of diseases can access the treatments they need to improve and extend their lives.

www.egetis.com

Galileo USA

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We love collaborating with passionate experts dedicated to advancing rehab to improve lives. With purchase comes education, training materials, posters and more. For information check out www.GalileoUSA.com.

<http://www.GalileoUSA.com>

Gluckstein Lawyers

Personal injury lawyers committed to advocating for you.

Gluckstein Lawyers provides expert counsel and full-circle care for Ontarians who have suffered catastrophic injuries. With trusted expertise since 1962, our lawyers serve clients in Toronto, Ottawa, Niagara, Barrie and across Ontario, advocating for the best resolution to help them return to their highest functioning potential. We specialize in birth trauma, class actions and mass torts litigation, long term disability, motor vehicle accidents and medical negligence.

www.gluckstein.com

Sponsor Listing

Holland Bloorview Kids Rehabilitation Hospital

Holland Bloorview Kids Rehabilitation Hospital believes in creating a world where all youth and children belong. They are the only children's rehabilitation hospital in Canada focused on combining world-class care, transformational research, and academic leadership in the field of child and youth rehabilitation and disability. Providing both inpatient and outpatient services, Holland Bloorview is renowned for its expertise in co-creating with clients and families to provide exceptional care and is the only organization to ever achieve 100 per cent in three successive quality surveys by Accreditation Canada.

hollandbloorview.ca/

Invent Medical

Ipsen Biopharmaceuticals, Inc.

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www.ipsen.com/us/

Pathways.org

Pathways.org creates and distributes free tools to maximize all children's motor, sensory, and communication development. They empower parents to work with their healthcare provider to understand and encourage their baby's development to keep them on track or catch potential delays early. They promote screening of motor, sensory, and communication development by 4 months of age, to take advantage of baby's neuroplasticity.

www.pathways.org

Pediatric Neuromodulation Lab

The Pediatric Neuromodulation Laboratory is dedicated to working together with families and children to investigate early injury to the brain and the ability of the injured brain to recover and continue developing. 'Neuromodulation' refers to altering activity of the cells in the brain. The tools we use include assessments of movement and function, non-invasive brain stimulation, and neuroimaging. Our current studies focus on infants and children with early brain injury and resultant diagnosis of cerebral palsy. Specifically, we investigate how the brain recovers and develops after early injury, and the development of new interventions with rehabilitation to optimize lifelong outcomes.

pnl.waisman.wisc.edu/

Sponsor Listing

Trexo Robotics

Trexo Robotic Gait Trainer Helps Children Gain Strength, Endurance and Proper Gait Patterns. Trexo's adjustability makes it a versatile tool to help most children with a disability experience over-the-ground walking. "The benefits of this device is endless. Being able to use this device on a regular basis just to fine tune their gait pattern, stretch out their muscles, and improve their gait styles would be very beneficial!" - JO-ANNE WELTMAN, OWNER OF S.M.I.L.E. THERAPY FOR KIDS

<http://www.trexorobotics.com>

Zeen by Exokinetics

The Zeen by Exokinetics, is a groundbreaking mobility device for individuals who are at risk of falling or need support due to chronic illness, injury, or age. The Zeen offers an adjustable powered lift system allowing the user to safely go from sit-to-stand and does not require the use of a motor or battery. The specialized seat provides continual support, facilitates a natural gait, and easily adjusts to a variety of heights. The seat enables the user to weight-bear and rest as-needed. The seatbelt significantly reduces the risk of falling. The Zeen allows everyone to discover the joy of movement.

www.gozeen.com

Disclosure Index

Disclosure Index Key

- A = Consultant/Advisory Board
- B = Employment
- C = Other Research Support includes receipt of drugs, supplies, equipment or other in-kind support
- D = Ownership Interest includes stock, stock options, patent or other intellectual property
- E = Research Grant includes principal investigator, collaborator or consultant and pending grants as well as grants already received

- F = Speaker/Honoraria includes speakers bureau, symposia, and expert witness
- G = Other Financial or Material Support
- H = Other Research Support
- I = Royalties
- J = Stock Shareholder (excluding mutual funds)
- K = Stockholder/Ownership Interest (excluding diversified mutual funds)

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Andrea Fawcett MLIS	No Financial Relationships

Disclosure Index

Full Name and Credentials	Disclosure Decision
Darcy Fehlings MD FRCP(C), MSc	No Financial Relationships
Barbara Felt MD	No Financial Relationships
Claudio Ferre PhD	No Financial Relationships
Lauren Fetsko DO	No Financial Relationships
Tim Feyma MD	Acadia Pharmaceuticals: F PTC Therapeutics: F
Jillian Filliter PhD	No Financial Relationships
lisa Findlay OT	No Financial Relationships
Christine Finn BPT	No Financial Relationships
Simona Fiori MD, PhD	No Financial Relationships
Simona Fiori PhD	No Financial Relationships
Pegah Firouzeh PhD	No Financial Relationships
Michael Firtha DO	No Financial Relationships
Nicole Fischer MD FRCP(C)	No Financial Relationships
Matthew Fogarty DVM, PhD	No Financial Relationships
Evan Forsythe BS	No Financial Relationships
Eileen Fowler PhD, PT	No Financial Relationships
Hannah Friedman MD	No Financial Relationships
Kathleen Friel PhD	No Financial Relationships
Jurgen Fripp PhD	No Financial Relationships
David Frumberg MD	Orthofix: A Orthopediatrics: A Ultragenyx: A
Sandra Fucile PhD	No Financial Relationships
Peter Gabos MD	DePuySynthes Spine: A
Isabelle Gaboury PhD	No Financial Relationships
Mélanie Gagnon MSc	No Financial Relationships
Marie-Michèle Gagnon Master	No Financial Relationships
Mary Gannotti PhD,PT	No Financial Relationships
Mary Gannotti PT, PhD	No Financial Relationships
Sofia Garcia BA	No Financial Relationships
Hubert Gascon MS	No Financial Relationships
Estelle Gathy PT	No Financial Relationships
Francesco Gavazzi MD, PhD	No Financial Relationships
Rose Gelineau-Morel MD	No Financial Relationships
Joanne George PhD	No Financial Relationships
Andrew Georgiadis MD	No Financial Relationships
Melissa Gerstle PhD	No Financial Relationships
Christine Gettys MA	No Financial Relationships
Sarah Gibson BPT	No Financial Relationships
Laura Gilbert DO, MBA	No Financial Relationships
Bernadette Gillick PhD	No Financial Relationships
Mika Gissler PhD	No Financial Relationships
Laurie Glader MD, FAAP	No Financial Relationships
Chloe Glaros MPH, MSW	No Financial Relationships

Full Name and Credentials	Disclosure Decision
Amanda Goldstein MS	No Financial Relationships
Martin Gonzales MD	No Financial Relationships
Christine Goodbody MD, MBE	No Financial Relationships
Karin Goodfriend MD, MPT	No Financial Relationships
Sivakumar Gopalakrishnan PhD	No Selection
Andrew Gordon PhD	No Financial Relationships
Anya Gordon MAPaedSPhys, BPT	No Financial Relationships
Mark Gormley MD	Abbvie: F Ipsen: F Neurocrine: E
Jan Willem Gorter MD, PhD	No Financial Relationships
Michael Gouzoulis BS	No Financial Relationships
Kerr Graham MD	CP Achieve: E Orthopediatrics: A
Danijela Grahovac MSc	No Financial Relationships
Jonathan Grauer MD	No Financial Relationships
Patrick Graupman MD	No Financial Relationships
Susan Greaves PhD	No Financial Relationships
Deborah Grenard n/a	No Financial Relationships
Kelly Greve PT, DPT, PhD	No Financial Relationships
Robert Grundmeier MD	No Financial Relationships
Jose Guerrero-Gonzalez PhD	No Financial Relationships
João Antônio Matheus Guimarães PhD	No Financial Relationships
Bhavana Gunda BS	No Financial Relationships
Tess Guzman BS	No Financial Relationships
Andrea Guzzetta MBBS	No Financial Relationships
Andrea Guzzetta MD, PhD	No Financial Relationships
Kathleen "Kate" Gypson BSOT, OTR/L	No Financial Relationships
Heidi Haapala MD	No Financial Relationships
Matthew Haddon n/a	No Financial Relationships
Amelia Hagelstam Renshaw BA	No Financial Relationships
Matthew Halanski MD	Alcyone Therapeutics: A Medtronic: C Orthopediatrics: C
Reggie C. Hamdy n/a	No Financial Relationships
Ana Hanlon-Dearman MD, MSc	No Financial Relationships
Kirk Hansen PhD	No Financial Relationships
Jessica Hanson BSc (Honors), MSc	No Financial Relationships
Laura Hanson BA	No Financial Relationships
Britta Hanssen PhD	No Financial Relationships
Regina Harbourne PhD	No Financial Relationships

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Full Name and Credentials	Disclosure Decision
Denny Hardianto MBBD, MPH	No Financial Relationships
Karen Harpster PhD, OTR/L	No Financial Relationships
Ashley Harris Whaley M.S., CCC-SLP	No Financial Relationships
Rusty Hartman MS	No Financial Relationships
Rachel Hawe DPT, PhD	No Financial Relationships
Michael Healy MD	No Financial Relationships
Jill Heathcock MPT, PhD	No Financial Relationships
Jenny Hedberg-Graff PhD	No Financial Relationships
Elizabeth Heinrichs-Graham PhD	No Financial Relationships
ilkka Helenius MD	Medtronic: A, E Nuvasive: A, E Stryker: A, E
John Henley PhD	No Financial Relationships
Grace-Anne Herard PT, DPT, EdD	No Financial Relationships
Grace-Anne Herard PT, EdD	No Financial Relationships
Enimie Herman PT	No Financial Relationships
Christina Herrero MD	No Financial Relationships
Mia Herrero BSCOT, BSC	No Financial Relationships
Kim Hesketh MS	No Financial Relationships
Jonathan Hicks BS	No Financial Relationships
Michelle High MSN	No Financial Relationships
Alicia Hilderley PhD	No Financial Relationships
Alicia Hilderley PhD	No Financial Relationships
Elizabeth Hill DO	No Financial Relationships
Tracy Hills DO	No Financial Relationships
Sheilah Hogg-Johnson MMath, PhD	No Financial Relationships
Parsa Hoque MS	No Financial Relationships
Yusuke Hori MD	No Financial Relationships
Bernard Horn MD	No Financial Relationships
Pooya Hosseinzadeh MD	No Financial Relationships
Jason Howard MD	No Financial Relationships
Nicole Hroma PT	No Financial Relationships
Lin-Ya Hsu PhD	No Financial Relationships
Lin-Ya Hu BS	No Financial Relationships
Allyson Hughes PhD	No Financial Relationships
Elizabeth (Liz) Humanitzki MS, OTR/L	No Financial Relationships
Rodney Hunt PhD, MMed (ClinEpi), FRACP, FRCP(UK)	No Financial Relationships
Karen Hurtubise PhD	No Financial Relationships
Karen Hurtubise PhD	No Financial Relationships
Lauren Hyer MD	No Financial Relationships
Sung Eun Hyun MD	No Financial Relationships

Full Name and Credentials	Disclosure Decision
María del Consuelo Ibarra-Rodriguez MD	No Financial Relationships
George Ibrahim MD, PhD, FRCSC, FAANS	No Financial Relationships
Didem Inanoglu MD	No Financial Relationships
Christian Ishag BA	No Financial Relationships
Shafuul Islam BScPT, MPH	No Financial Relationships
Michelle Jackman n/a	No Financial Relationships
Michelle Jackman B Occ Thy, PhD	No Financial Relationships
Lindsay Jacobs PT,DPT	No Financial Relationships
Israt Jahan PhD	No Financial Relationships
Israt Jahan B.Sc (Hons), MS, MPH, PhD	No Financial Relationships
Israt Jahan B.Sc., MS, MPH, PhD	No Financial Relationships
Selim Jahangir PhD	No Financial Relationships
Michelle James n/a	No Financial Relationships
Arun Jayaraman PhD PT	No Financial Relationships
Cameron Jeffers BS	No Financial Relationships
Ira Jeglinsky-Kankainen PhD	No Financial Relationships
Anna Jesus MD	No Financial Relationships
Jennifer Jezequel DPT	No Financial Relationships
Candice Johnson OTD	No Financial Relationships
Curtis Johnson PhD	No Financial Relationships
Lee Johnston MPH, PhD	No Financial Relationships
Dara Jones MD	No Financial Relationships
Isabel Jordan n/a	No Financial Relationships
Tanmayee Joshi BS	No Financial Relationships
Maria Juric MRSc, BScPT, BScKin	No Financial Relationships
Niko Kaciroti PhD	No Financial Relationships
Faithe Kalisperis DPT	No Financial Relationships
Jennifer Kallini MD	No Financial Relationships
Alexander Kammien BS	No Financial Relationships
Kyra Kane BScPT, MSc, PhD	No Financial Relationships
Tasos Karakostas MPT, PhD	No Financial Relationships
Mara Karamitopoulos MD, MPH	No Financial Relationships
Petra Karlsson PhD	No Financial Relationships
Thembi J. Katangwe MBBS, MMED Paeds, MPhil Neuro Paeds	No Financial Relationships
Anna Kay BS	No Financial Relationships
Robert Kay MD	No Financial Relationships
Burak Kaymaz M.D	No Financial Relationships
mary keen MD, MRM	No Financial Relationships
Enda Kelly MD	No Financial Relationships

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Full Name and Credentials	Disclosure Decision
Cassandra Kemmel-Bartletti MS	No Financial Relationships
Tanya Kenkre PhD, MPH	No Financial Relationships
Megan Kentish BPT	No Financial Relationships
Donald Kephart MD	No Financial Relationships
Syed Afroz Keramat PhD	No Financial Relationships
Reem Alsayed M Khalil MD pediatrics and child health MRCPCCH	No Financial Relationships
Amina Khan MS	No Financial Relationships
Faizan Khan BA	No Financial Relationships
Owais Khan PT	No Financial Relationships
Owais Khan PT	No Financial Relationships
Gulam Khandaker MBBS, DCH, MPH, PhD, FAFPHM	No Financial Relationships
Sonia Khurana PT, PhD	No Financial Relationships
Seyma Kilcioglu PT	No Financial Relationships
Han Tae Kim MD	No Financial Relationships
Jeong Min Kim MD	No Financial Relationships
Jungwook Kim MD	No Financial Relationships
Susie Kim BS	No Financial Relationships
Brooke Kimbrell MD, MSE	No Financial Relationships
Adrienne Kirby BSc (hon I), MSc	No Financial Relationships
Adam Kirton MD	No Financial Relationships
Will Kjeldsen MA	No Financial Relationships
Kassidy Knutson MS	No Financial Relationships
Brittney Kokinos MS	No Financial Relationships
Manasa Kolibylu Raghupathy MPT	No Financial Relationships
Tracy Kornafel PT, DPT, PCS	No Financial Relationships
Emma Kotes BA,BS	No Financial Relationships
Toussaint Kpadonou MD	No Financial Relationships
Linda Krach MD	No Financial Relationships
Jillian Kreimer n/a	No Financial Relationships
Jodi Kreschmer MSW	No Financial Relationships
Bhamini Krishna Rao PhD	No Financial Relationships
Justin Krogue MD	Google: B
Michael Kruer MD	Acadia: A Aeglea: A Bridge Bio: E Medtronic: E Merz: A Neurocrine: A PTC Therapeutics: A, E, F
Karen Kruger PhD	No Financial Relationships
Joseph Krzak PT, PhD	No Financial Relationships
Joseph Krzak PT, PhD	No Financial Relationships

Full Name and Credentials	Disclosure Decision
Kari Kubiatowicz MBA, BSN	No Financial Relationships
Vedant Kulkarni MD	OrthoPediatrics: A
Brad Kurowski MD, MS	CDC: E NIH: E
Max Kurz PhD	No Financial Relationships
Amanda Kwong BaPhys(Hons), PhD	No Financial Relationships
Amanda Kwong PhD	No Financial Relationships
Lucyna Lach PhD	No Financial Relationships
Jennifer Laine MD	Pediatric Orthopedic Society of North America (POSNA) - Micro-Grant Funding: E
Jill Larson MD	No Financial Relationships
Francis Laryea BSc.	No Financial Relationships
Steven Lazar MD, MEd	No Financial Relationships
Jeanine Lebsack n/a	No Financial Relationships
Laurie Lee NP, MN	No Financial Relationships
Stephanie Lee MS	No Financial Relationships
Sydney Lee BA	No Financial Relationships
Woo Hyung Lee MD	No Financial Relationships
Yae Lim Lee MD	No Financial Relationships
Shaneen Leishman PhD	No Financial Relationships
Hercules Leite PhD	No Financial Relationships
Rachel Lenhart MD PhD	No Financial Relationships
Nancy Lennon BS, MS, DPT	No Financial Relationships
Amy Lenz PhD	No Financial Relationships
Danielle Levac pht, MSc, PhD	No Financial Relationships
Eleanor Leverington OT	No Financial Relationships
Jessica Lewis PT, DPT	No Financial Relationships
Adriana Liang MS	No Financial Relationships
Joel Licea PhD	No Financial Relationships
Li Lin MS	No Financial Relationships
Warren Lo MD	Abbott Labs: J Amgen: J Becton Dickson: J Cardinal Health: J GE Healthcare: J Illumina: J McKesson: J Merck: J Moderna: J Pfizer: J Walgreen's Boots: J
Hunter Loewen MD	No Financial Relationships
Helen Long PhD, CCC-SLP	No Financial Relationships
Egmar Longo PhD	No Financial Relationships
Taryn Loomis BS	No Financial Relationships
Naomi Lorch PhD, PT	No Financial Relationships

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Full Name and Credentials	Disclosure Decision
Emma Lott AS	No Financial Relationships
Anna Lowe n/a	No Financial Relationships
Triet Lu BS	No Financial Relationships
Elizabeth Lucas MD	No Financial Relationships
Carly Luke MAPaedSPhys, BPT	No Financial Relationships
Thuy Mai Luu MD	No Financial Relationships
Jennifer Lyman MA	No Financial Relationships
Emma Lynch MPH	No Financial Relationships
Kalesh M Karun PhD	No Financial Relationships
Michelle Ma BS	No Financial Relationships
Sarah Macabales DO	No Financial Relationships
Lizbeth Macias De La Torre N/A	No Financial Relationships
Stuart Mackenzie MD	No Financial Relationships
Benoit Macq PhD	No Financial Relationships
Bruce MacWilliams PhD	No Financial Relationships
Rafael Magalhães PhD	No Financial Relationships
Arlene Maheu n/a	No Financial Relationships
Nathalie Maitre BA, MD, PhD	No Financial Relationships
Nathalie Maitre MD, PhD	No Financial Relationships
Annette Majnemer BSc, MSc, PhD	No Financial Relationships
Juan Maldonado MD, MSc	No Financial Relationships
Kristie Malik MD	No Financial Relationships
Kilby Mann MD	No Financial Relationships
Evgenia Manousaki MD, PhD	No Financial Relationships
Emma Marino DPT	No Financial Relationships
Warren Marks MD	No Financial Relationships
Larken Marra PhD	No Financial Relationships
Alison Martens none	No Financial Relationships
Rachel Martens n/a	No Financial Relationships
Elizabeth Martin MD	No Financial Relationships
Mark Maslanka BS	No Financial Relationships
Jill Massey BSc/MSc	No Financial Relationships
Travis Mathenev MD	No Financial Relationships
Hiroko Matsumoto PhD	No Financial Relationships
Yoko Matsumoto PhD	JSPS KAKENHI: E
Elizabeth Maus PT	No Financial Relationships
Ryan McAdams MD	No Financial Relationships
Dayle McCauley MSc	No Financial Relationships
Anna McCormick MD FRCPC	No Financial Relationships
Robin McDonald MPT	No Financial Relationships
Sarah McIntyre PhD MPS BAppSc (OT) Hons	No Financial Relationships
Mark McMulkin PhD	No Financial Relationships
Lynda McNamara PhD	No Financial Relationships

Full Name and Credentials	Disclosure Decision
Lynda McNamara PhD, BPhy (Hons)	No Financial Relationships
Amy McQueen PhD	No Financial Relationships
Jiraros Meejang BS	No Financial Relationships
Shaun Mendenhall MD	PolyNovo: A
Donald Mercante PhD	No Financial Relationships
Sophie Mesler BS	No Financial Relationships
Katie Michalski MA, CCC-SLP	No Financial Relationships
Leeann Mick-Ramsamy n/a	No Financial Relationships
Samantha Micsinszki PhD	No Financial Relationships
Cary Mielke n/a	No Financial Relationships
Freeman Miller MD	No Financial Relationships
Freeman Miller MD	No Financial Relationships
megan miller MSW	No Financial Relationships
Patricia Miller MS	No Financial Relationships
Stacey Miller BSc(PT), MRSc	No Financial Relationships
Ryan Millman n/a	No Financial Relationships
Golda Milo-Manson MD FRCP(C)	No Financial Relationships
Dararat Mingbunjerdasuk MD	No Financial Relationships
Ram Mishaal MD	No Financial Relationships
Karen Mistry DPT, BExSS	No Financial Relationships
Alexis Mitelpunkt n/a	No Financial Relationships
Christopher Modlesky PhD	No Financial Relationships
Maxwell Modrak MD	No Financial Relationships
Rebecca Molinini DPT, PhD	No Financial Relationships
Elegast Monbaliu PhD	CoMoveIT: A, E
Stephen Mooney PhD, MS	No Financial Relationships
Noelle Moreau PT, PhD	No Financial Relationships
Catherine Morgan PhD; BAppSc (Physio)	No Financial Relationships
Kym Morris BPT	No Financial Relationships
Rachael Morton PhD	No Financial Relationships
Golam Moula B Social Work	No Financial Relationships
Mehrnoosh Movahed MD	No Financial Relationships
Michael Msall MD	No Financial Relationships
Mohammad Muhit MBBS, MSc, MSc, PhD	No Financial Relationships
Kishore Mulpuri MHSc, MSc, MBBS, FRCSC	Allergen: H Depuy Synthes: H IPSEN: A, H Johnson & Johnson: H OrthoPediatrics: A, E Pega Medical: H, I
Meghan Munger PHD, MPH	No Financial Relationships
Christine Murphy MD	No Financial Relationships
Melissa Murphy PhD	No Financial Relationships

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Full Name and Credentials	Disclosure Decision
Nancy Murphy MD	No Financial Relationships
Negin Nadvar Ph.D.	No Financial Relationships
Unni Narayanan MBBS, MSc, FRCS(C)	No Financial Relationships
Ana Narcizo BA	No Financial Relationships
Candice Natrasony BS	No Financial Relationships
Martine Nault BA	No Financial Relationships
Shubha Nayak PT	No Financial Relationships
Samuel Nemanich PhD, MSCI	No Financial Relationships
Shahzrad Nematollahi PhD	No Financial Relationships
Maegan Newell MD	No Financial Relationships
Linda Nguyen PhD	No Financial Relationships
Reid Nichols MD	No Financial Relationships
Stephen Nichols MD	No Financial Relationships
Jens Nielsen PhD	No Financial Relationships
Melanie Noel PhD	No Financial Relationships
Marcello Henrique Nogueira-Barbosa PhD	No Financial Relationships
Garey Noritz MD	Abbott Nutrition: A
Sarah B. Nossow n/a	No Financial Relationships
Tom Novacheck MD	No Financial Relationships
Iona Novak PhD	No Financial Relationships
Iona Novak PhD	No Financial Relationships
Susan Novotny PhD	No Financial Relationships
Ellena Oakes BOccThy	No Financial Relationships
Megan O'Brien PhD	No Financial Relationships
Keith O'Connor MS	No Financial Relationships
Maureen O'Donnell FRCPC	No Financial Relationships
Stina Oftedal PhD, B Hlth Sc (Diet)	No Financial Relationships
Tatiana Ogourtsova PhD OT	No Financial Relationships
Kathleen O'Grady MS	No Financial Relationships
Shannon Olivey BA	No Financial Relationships
Jennifer O'Malley MD/PhD	No Financial Relationships
Els Ortibus MD, Ph.D.	No Financial Relationships
Maryam Oskoui MD	Roche: E
Kathryn Ostermaier MD	No Financial Relationships
Michael O'Sullivan MD	No Financial Relationships
Laura Owens MD	No Financial Relationships
Natalina Pace n/a	No Financial Relationships
Alex Pagnozzi PhD	No Financial Relationships
Kerstin Pannek PhD	No Financial Relationships
Christos Papadelis PhD	No Financial Relationships
Julie Paradis PhD	No Financial Relationships
Vijay Parashar PhD	No Financial Relationships
Athylia Paremiski BA	No Financial Relationships

Full Name and Credentials	Disclosure Decision
Nehal Parikh DO	No Financial Relationships
Eugene Park MD	No Financial Relationships
Matthew Parrett M.Ed, FMS	No Financial Relationships
Matthew Parrett MS, FMS	No Financial Relationships
Tony Pastor MD	No Financial Relationships
Hema Patel MD	No Financial Relationships
Maharshi Patel n/a	No Financial Relationships
Sana Patil BS	No Financial Relationships
Aleksys Patterson BA	No Financial Relationships
Monica Payares-Lizano MD	Doximity: K
Kari Pederson MSW, LICSW	No Financial Relationships
Jonathan Pellett n/a	No Financial Relationships
Silvana Pereira Dr	No Financial Relationships
Georgina Perez Liz MD	No Financial Relationships
Andrew Peterson MS	No Financial Relationships
Mark Peterson PhD, MS	No Financial Relationships
Molly Peterson DPT	No Financial Relationships
Christine Petranovich PhD	No Financial Relationships
Katina Pettersson PhD	No Financial Relationships
Colleen Peyton DPT	General Movements Trust: F
Andrew Pfander BS	No Financial Relationships
John Phillips MD	No Financial Relationships
Michelle Phoenix PhD	No Financial Relationships
Valerie Pieraccini MS	No Financial Relationships
Kristan Pierz MD	Results Group, LLC: A Up to Date: I
Lisa Pinson PT	No Financial Relationships
Lennert Plasschaert MD	No Financial Relationships
Delaja Plein MSc	No Financial Relationships
Christelle Pons MD, PhD	No Financial Relationships
Eva Pontén MD PhD Ass Prof	No Financial Relationships
Mattie Pontiff DPT, PhD	No Financial Relationships
Dayna Pool n/a	No Financial Relationships
Michelle Pouliot DPT	No Financial Relationships
Kinga Pozniak PhD	No Financial Relationships
Karen Pratt BScKin, MSc	No Financial Relationships
Kristina Prelog MBBS FRANCZR	No Financial Relationships
Jamie Price BA	No Financial Relationships
Lesley Pritchard PT, PhD	No Financial Relationships
Jessica Prokup MD	No Financial Relationships
Laura Prosser PT, PhD	No Financial Relationships
Connnie Putterman MHSc	No Financial Relationships
Roxanne Pynn n/a	No Financial Relationships
Francine Rabbito Buchanan MLIS, PhD	No Selection

Disclosure Index

Full Name and Credentials	Disclosure Decision
Simin Rahman MS	No Financial Relationships
Simin Rahman MS	No Financial Relationships
Emmanouil Rampakakis n/a	No Financial Relationships
Justin Ramsey M.D.	No Financial Relationships
Ellen Raney n/a	No Financial Relationships
Frank Rauch n/a	No Financial Relationships
Kimberly Rauch DO	No Financial Relationships
Cristen Reat MA	No Financial Relationships
Sarah Reedman PhD, Bachelor of Physiotherapy	Dejay Medical Pty Ltd: C
Maia Regan BA	No Financial Relationships
Sandra Reist-Asencio n/a	Heighten: A, H
Meaghan Reitzel OT	No Financial Relationships
Gina Rempel FRCPC	Cardinal Health: F
Janet Rennick PhD	No Financial Relationships
Ana Cristina Resende Camargos PhD	No Financial Relationships
Britney Rhem MD	No Financial Relationships
Leslie Rhodes DNP, PPCNP-BC	No Financial Relationships
Anthony Riccio MD	Elsevier: I OrthoPediatrics: A, F
Melissa Rice OD	No Financial Relationships
Angela Rittler OTD	No Financial Relationships
Juliana Rizzo BA	No Financial Relationships
Maxime Robert PhD	No Financial Relationships
Diana Robins PhD	MCHAT, LLC: D
Karyn Robinson MS	No Financial Relationships
Alyssa Robison DO	No Financial Relationships
Elisabet Rodby-Bousquet PhD	No Financial Relationships
Desiree Roge MD	No Financial Relationships
Kenneth Rogers PhD, ATC	No Financial Relationships
Kenneth Rogers PhD	No Financial Relationships
Corissa Rohloff n/a	No Financial Relationships
Ana-Marie Rojas MD	No Financial Relationships
Karen Romer RN	No Financial Relationships
Brigitte Romero Carpio MS	No Financial Relationships
Zélie Rosselli MA	No Financial Relationships
Mallory Rowan BS	No Financial Relationships
María de las Mercedes Ruiz Brunner PhD	No Financial Relationships
Erich Rutz MD	No Financial Relationships
Paige Ryals MS	No Financial Relationships
Daisy Rymen MD, PhD	No Financial Relationships
Shradha S Parsekar MPH	No Financial Relationships
Natalie Sadler n/a	No Financial Relationships
Alejandra Sagastegui-Roel MD	No Financial Relationships

Full Name and Credentials	Disclosure Decision
Leanne Sakzewski PhD, Bachelor Occupational Therapy	No Financial Relationships
Jose Salazar-Torres Ph.D.	No Financial Relationships
Rachel Sanderlin BA	No Financial Relationships
Barbara Sargent PhD, PT	No Financial Relationships
Cristina Sarmiento MD	No Financial Relationships
Cristina Sarmiento MD	No Financial Relationships
Cristina Sarmiento MD	No Financial Relationships
Geoffroy Saussez PhD - Physiotherapist	No Financial Relationships
Theresa Sax BS	No Financial Relationships
Peter Schavee BA	No Financial Relationships
David Scher MD	Bionic Power, Inc: A
Verónica Schiariti MD MHSc PhD	No Financial Relationships
Sheila Schindler-Ivens PhD, PT	No Financial Relationships
Charlotte Schluger BA	No Financial Relationships
Mary Schmidt DO	No Financial Relationships
Verena Schreiber MD	Bioretex: A WishBone Medical: A
Ryan Schuetter BS	No Financial Relationships
Aloysia Schwabe MD	No Financial Relationships
Michael Schwartz PhD	No Financial Relationships
Terry Schwartz MD	No Financial Relationships
Olivia Scoten n/a	No Financial Relationships
Kimberley Scott DPT, PhD	No Financial Relationships
Anthony Seddio BS	No Financial Relationships
Paulo Selber MD	No Financial Relationships
Buddhika Senevirathne BPT, MPhil.	No Financial Relationships
Emily Sergio BS	No Financial Relationships
Suken Shah MD	DePuy Synthes: A, I Setting Scoliosis Straight Foundation: E
Sadra Shahdadian Ph.D.	No Financial Relationships
Bernadette Shannon BOccThy	No Financial Relationships
Heather Shearer DC, PhD	No Financial Relationships
Amber Sheehan OTR/L	No Financial Relationships
Peter Shen BS	No Financial Relationships
Sanaya Shenoy MSPH	No Financial Relationships
Thomas Shields BS	No Financial Relationships
Thomas Shields BS	No Financial Relationships
Angela Shierk PhD	No Financial Relationships
Keiko Shikako PhD	No Financial Relationships
Jeffrey Shilt MD	No Financial Relationships
Hyung-Ik Shin MD	No Financial Relationships

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Full Name and Credentials	Disclosure Decision
Kara Shin MS	No Financial Relationships
Benjamin Shore MD, MPH, FRCSC	Orthopediatrics: A
Carol Shrader BA	No Financial Relationships
Claire Shrader MS OTR/L	No Financial Relationships
Claire Shrader MS, OTR/L	No Financial Relationships
M. Wade Shrader MD	No Financial Relationships
Mason Shrader MA	No Financial Relationships
Wade Shrader MD	No Financial Relationships
Emily Shull PhD	No Financial Relationships
Gary Sieck PhD	No Financial Relationships
Susan Sienko PhD	Shriners Children's: B, E
Luana Silva Physiotherapist	No Financial Relationships
Marie-Noelle Simard PhD	No Financial Relationships
Liz Simon Peter PhD	No Financial Relationships
Tarkeshwar Singh PhD	No Financial Relationships
Andrew Skalsky MD	No Financial Relationships
Alena Skinner n/a	No Financial Relationships
Julie Skorup DPT	No Financial Relationships
Anne Smith MD	No Financial Relationships
John Smith MD	Globus: I
Lucas Smith PhD	No Financial Relationships
Maria Smith n/a	No Financial Relationships
Peter Smith MD	No Financial Relationships
Sean Smith MD	No Financial Relationships
Hayley Smithers-Sheedy BAppSc (SpPath), MPH, PhD	No Financial Relationships
Laurie Snider PhD	No Financial Relationships
Brian Snyder MD, PhD	No Financial Relationships
Sarah Sobotka MD, MSCP	No Financial Relationships
Kurtis Sobush MD	No Financial Relationships
Emmanuel Sogbossi PhD	No Financial Relationships
Merlin Somville PT	No Financial Relationships
Alice Soper MSc	No Financial Relationships
Solange Sotindjo Adon PT	No Financial Relationships
Ricardo Sousa Junior MSc	No Financial Relationships
Deisiane Souto PhD	No Financial Relationships
Christine Spence PhD	No Financial Relationships
David Spence MD	No Financial Relationships
David Spiegel MD	No Financial Relationships
Pediatric Spine Study Group n/a	No Financial Relationships
Alicia Spittle PhD	No Financial Relationships
Mathangi Sridharan MD	No Financial Relationships
Sania Srivastava n/a	No Financial Relationships
Elizabeth Stanford PhD	No Financial Relationships

Full Name and Credentials	Disclosure Decision
Loretta Staudt MS, PT	No Financial Relationships
Lauraine Staut MSc	No Financial Relationships
Kristen Stearns-Reider PhD, PT	No Financial Relationships
Katherine Steele PhD	No Financial Relationships
Richard Stevenson MD	No Financial Relationships
Madison Stewart BS	No Financial Relationships
Jean Stout PT, MS, PhD(c)	No Financial Relationships
Daryn Strub BA	No Financial Relationships
Julie Sturza MPH	No Financial Relationships
Julie Stutzbach DPT, PhD	No Financial Relationships
Corri Stuyvenberg DPT	No Financial Relationships
Isabella Sudati PT	No Financial Relationships
Theresa Sukal Moulton PT, DPT, PhD	No Financial Relationships
Bhavini Surana PT, EdD	No Financial Relationships
Swati Surkar PT, PhD	No Financial Relationships
Ellen Sutter DPT	No Financial Relationships
Vineeta Swaroop MD	No Financial Relationships
Meghann Sytsma BS	No Financial Relationships
Chloe Taifalos BPT	No Financial Relationships
Nakul Talathi MD	No Financial Relationships
Sena Tavukcu n/a	No Financial Relationships
Debra Teitelbaum MSc	No Financial Relationships
Sampath Tennakoon MBBS	No Financial Relationships
Rachel TEPLICKY MS	No Financial Relationships
Leroy Thacker PhD	No Financial Relationships
Jodi Thomas PT, DPT, DHSc	No Financial Relationships
Karen Thomas MD, FRCPC	No Financial Relationships
Patti Thomas PT	No Financial Relationships
Rachel Thomas BPT	No Financial Relationships
Pam Thomason M Physio	No Financial Relationships
Rachel Thompson MD	No Financial Relationships
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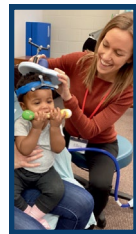
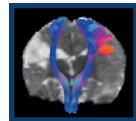
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