2019 Knowledge Without Borders

FINAL PROGRAM

Combined AACPDM 73rd Annual and IAACD 2nd Triannual Meeting

SEPTEMBER 18–21, 2019
ANAHEIM, CALIFORNIA USA

AACPDM
Nemours/Alfred I. duPont Hospital for Children in Wilmington, Delaware, is home to one of the largest and most comprehensive cerebral palsy programs in the United States. Our multidisciplinary team of experts in orthopedics, neurology, neurosurgery, rehabilitation and therapy services work together to help each child reach their full potential.

One of only 12 hospitals in the U.S. with a fully accredited gait lab.

To refer a patient, call (800) 416-4441 for an appointment. To speak with a member of the CP Team, call (302) 651-5913.
We are excited to welcome you to Anaheim for the combined 73rd American Academy for Cerebral Palsy and Developmental Medicine (AACPDM) Annual and 2nd Triannual International Alliance of Academies of Childhood Disability (IAACD) Meeting. The theme for the meeting is “Knowledge without Borders” which is an invitation to think outside of the box so we can come up with new problem-solving approaches through collective creativity and innovation. Each year the annual meeting provides the Academy the opportunity to showcase its mission and to fulfill its vision; namely, to be a global leader in the multidisciplinary scientific education of health professionals and researchers dedicated to the well-being of people with and at risk for cerebral palsy and other childhood-onset disabilities.

The Scientific Program Committee, chaired by Dr. Veronica Schiariti and Dr. Francisco Valencia with IAACD Co-Chair Dr. Diane Damiano, put together an outstanding scientific program that represents the state-of-the-science in cerebral palsy and other childhood-onset disabilities. The committee was challenged to select the 120 scientific papers and 283 scientific posters from near record-breaking number of quality submissions received for this year’s meeting.

This year’s program offers you engaging keynote speakers, learning experiences, and networking opportunities. Our keynote speakers are dynamic leaders in their fields. They will be speaking about important topics from the genetic basis of Cerebral Palsy to brain-computer interfaces. A wide range of topics will be presented during the 41 Instructional Courses, 28 Breakfast Seminars 42 Focused Symposia and 283 scientific posters from near record-breaking number of quality submissions received for this year’s meeting.

This year’s program offers you engaging keynote speakers, learning experiences, and networking opportunities. Our keynote speakers are dynamic leaders in their fields. They will be speaking about important topics from the genetic basis of Cerebral Palsy to brain-computer interfaces. A wide range of topics will be presented during the 41 Instructional Courses, 28 Breakfast Seminars 42 Focused Symposia and 283 scientific posters from near record-breaking number of quality submissions received for this year’s meeting.

Beyond educational sessions, we invite you to network during the Welcome Reception held in the Grand Plaza, Wine & Cheese Poster and Exhibit Review, and take part in the “Get Up and Go” activities hosted by the Adapted Sports and Recreation Committee between sessions.

The interdisciplinary nature of our society makes this meeting an excellent opportunity to brainstorm, discuss clinical challenges, and form future collaborations.

Beyond educational sessions, we invite you to network during the Welcome Reception held in the Grand Plaza, Wine & Cheese Poster and Exhibit Review, and take part in the “Get Up and Go” activities hosted by the Adapted Sports and Recreation Committee between sessions.

We are grateful to the generosity of our sponsors and exhibitors who contribute to the success of our annual meetings. As always, the annual meeting provides a wonderful forum to learn, engage, network, and create new collaborations.

With best wishes,

Mauricio R. Delgado, MD
AACPDM First Vice-President
Francisco Valencia, MD
Scientific Programming Committee
Veronica Schiariti, MD, MHSsc, PhD
Scientific Programming Committee
Diane Damiano, Ph.D., PT
IAACD Co-Chair

555 East Wells Street, Suite 1100, Milwaukee, WI 53202
info@aacpdm.org | +1 (414) 918-3014 | www.aacpdm.org
Meeting at a Glance/ About AACPDM...........................................3
AACPDM Board of Directors.........................................................4
AACPDM Past and Future Presidents.............................................5
Anaheim Marriott Floor Plans.......................................................6
Mobile App Information ..............................................................7
General Meeting Information.......................................................8
AACPDM Member Benefits........................................................9
General Information.....................................................................10
Keynote Speakers.........................................................................12
AACPDM Awards.........................................................................15
Program and Events
  Tuesday....................................................................................19
  Wednesday...............................................................................21
  Thursday..................................................................................23
  Friday.......................................................................................35
  Saturday...................................................................................45
Posters
  Thursday Scientific Posters......................................................55
  Friday Clinical Observations or Single Case Study Posters........65
  Friday Demonstration Posters..................................................67
  Friday Scientific Posters..........................................................70
Sponsors.....................................................................................75
Exhibit Hall Map.........................................................................77
Exhibitors...................................................................................77
Disclosure Index.........................................................................82
Speaker Index.............................................................................89

American Academy for Cerebral Palsy and Developmental Medicine

Combined AACPDM 73rd Annual and IAACD 2nd Triannual Meeting
September 17–21, 2019
Anaheim, California

Future Annual Meetings
September 22–26, 2020
New Orleans, Louisiana
October 6–9, 2021
Quebec, QC, Canada

AACPDM Office
555 E Wells Street, Suite 1100
Milwaukee, WI 53202
Tel: 1.414.918.3014
Fax: 1.414.276.2146
Email: info@aacpdm.org
Website: www.aacpdm.org
### Meeting at a Glance/ About AACPDM

| Tuesday, September 17, 2019 | 8:00 am - 9:00 pm | Orthopedic Day 1-14 |
| | 8:00 am - 5:00 pm | International Cerebral Palsy Genomics Consortium (ICPGC) Annual Meeting 1-14 |
| | 1:00 pm - 5:00 pm | Neuromuscular Ultrasound: Hands On Ultrasound Training Course for Chemodenervation Procedures Part I 1-14 |

| Wednesday, September 18, 2019 | 7:30 am - 11:30 am | AACPDM Board & Committee Breakfast / Meetings |
| | 8:00 am - 12:00 pm | Pre-Conference Sessions 1-14 |
| | 8:00 am - 12:00 pm | PC1: Rehabilitation and Use of Motion Analysis for Single Event Multi-Level Surgery 1-14 |
| | 10:00 am - 12:00 pm | Lower Extremity Osteotomies in Pediatric Orthopaedics: Hands-On Sawbones Session |
| | 12:00 pm - 1:00 pm | AACPDM Board & Committee Luncheon |
| | 1:00 pm - 5:00 pm | AACPDM Board & Committee Lunch Meetings 1-14 |

| Thursday, September 19, 2019 | 7:00 am - 8:00 am | Continental Breakfast 1-14 |
| | 7:00 am - 8:00 am | Breakfast Seminars 1-10 1-14 |
| | 7:00 am - 8:00 am | Focused Symposia 1-10 1-14 |
| | 7:00 am - 8:00 am | Current Controversies 1-14 |
| | 10:15 am - 10:45 am | Get Up and Move - Yoga 1-14 |

| Friday, September 20, 2019 | 7:00 am - 9:00 am | Continental Breakfast 1-14 |
| | 7:00 am - 8:00 am | Breakfast Seminars 11-20 1-14 |
| | 8:15 am - 9:45 am | General Session 1-14 |
| | 8:15 am - 10:15 am | Presidential Guest Lecture 1-14 |
| | 10:00 am - 10:30 am | Lifespan Committee Adult Care and Aging SIG Meeting 1-14 |

| Saturday, September 21, 2019 | 7:00 am - 8:00 am | Continental Breakfast 1-14 |
| | 7:00 am - 8:00 am | Breakfast Seminars 21-28 1-14 |
| | 8:15 am - 9:45 am | Current Controversies 6-14 |
| | 10:00 am - 10:30 am | Get Up and Move - Adapted Basketball Competition 1-14 |

**Meeting at a Glance**

- **Pre-Conference Sessions**
  - PC1: Rehabilitation and Use of Motion Analysis for Single Event Multi-Level Surgery
  - PC2: Practical Approaches to Complex Care: Building your Clinical and Teaching Toolkit
  - PC3: Fourth World CP Register and Surveillance Congress
  - PC4: The ICF in a Global Context: Towards a systematic adoption across settings throughout the lifespan
  - PC5: Hammersmith Infant Neurological Examination Clinical Workshop

- **General Session**
  - Opening Address: Jilda Varjus-Adams, MD, MSc to Mauricio R. Delgado, MD
  - IAACD Update: Hans Fossberg, MD
  - The AACPDM in Historical Perspective - From Physician Discussion Group to Multi-Discipline International Organization: Alfred J. Scherzer, MD, EdD, FAAP
  - Presidential Guest Lecture: Rune Simeonsen, PhD, MSPH
  - Presidential Guest Lecture: Jozef Gécz, PhD

- **Free Paper Sessions A-D**
  - A: Genetics/Epidemiology
  - B: Motion Analysis/Gait
  - C: Global/ICF/Surveillance
  - D: Participation

- **General Session**
  - Corbett Ryan Pathways Pioneer Award: Jason Benetti
  - Presidential Guest Lecture: Jon D. Davids, MD
  - Mentorship Award: Carey Noritz, MD
  - Presidential Guest Lecture: Audrey Thurm, PhD
  - Mac Keith Press Basic Science Lecture: Elaine Y. Hsiao, PhD

- **Instructional Courses**
  - 15-28

- **Free Paper Sessions E-H**
  - E: Intervention and Assessment
  - F: Tone Management
  - G: Orthopaedics
  - H: Rehab, Training and Dose

- **Non CME Luncheon Options**
  - International Networking Luncheon
  - Ipsen Presentation Theater

**About AACPDM**

- **Lifespan Committee Adult Care and Aging SIG Meeting**
  - Get Up and Move - Yoga
  - Complex Care SIG Meeting
  - Poster Walk in the Exhibit Hall
  - Get Up and Move - Latin Cardio Dance
  - Instructional Courses 15-28
  - Networking Dinner and Celebration

**2020 Annual Meeting Introduction**

- **Chambers Family Lifespan Lecture**
  - Gayle G. Arnold Lecture: Erik Carter, PhD

**2020 Annual Meeting Foundation**

- **C: Global/ICF/Surveillance**
  - E: Intervention and Assessment
  - F: Tone Management
  - G: Orthopaedics
  - H: Rehab, Training and Dose

- **Erik Carter, PhD**
  - Gayle G. Arnold Lecture

- **International Networking Luncheon**
  - Ipsen Presentation Theater
2018-2019 AACPDM Board of Directors
Jilda Vargus-Adams, MD, MSc – President
Mauricio Delgado, MD – First Vice President
Susan E. Sienko, PhD – Second Vice President
Sylvia Õunpuu, MSc – Treasurer
Francisco G. Valencia, MD – Treasurer-elect
Uri M. Givon, MD – Secretary
Joshua E. Hyman, MD – Secretary-elect
Sarah L. Winter, MD – Past President
Unni G. Narayanan, MBBS, MSc, FRCS(C)
Joline E. Brandenburg, MD – Director
Stephanie C. DeLuca, MD – Director
Laurie J. Glader, MD – Director
Jan Willem Gorter, MD, PhD, FRCP(c) – Director
Christopher D. Lunsford, MD – Director
Golda Milo-Manson, MD, MHSc – Director
Theresa S. Moulton, DPT, PhD – Director
M. Wade Shrader, MD – Director

Ex-Officio Board Members
Alfred L. Scherzer, MD, EdD - Historian
Bernard Dan, MD, PhD – Editor, DMCN
Wendy Sullivan - Chair, Community Council
Anniekay Erby, MBA, CAE – Executive Director

Office Staff
Anniekay Erby, MBA, CAE – Executive Director
Erin Trimmer – Senior Meetings Manager
Heather Schrader – Membership and Administrative Manager
Elizabeth Mueller – Meetings Coordinator

2019 Scientific Program Committee
Francisco G. Valencia, MD - Co-Chair
Veronica Schiariti, MD, MHSc, PhD - Co-Chair
Diane Damiano, PhD, PT - IAACD Co-Chair
Rachel M. Thompson, MD
Sean Tabaei, MD
Claire F. Beimesch, MD
Michelle Tourné, PT, DPT, PCS
Bernadette T. Gillick, PT, MSPT, PhD
Elisabet Rodby Bousquet, PT, PhD
Debbie Field, PhD
Lisa Chiarello, PhD
Jessica Kramer, PhD, OTR/L

2019 International Scientific Advisory Board
Hans Forssberg, MD, PhD; Sweden
Roselyn Boyd, PhD, PT; Australia
Marta Badia, PhD; Spain
Nigar Dursun, MD; Turkey
Ana Carolina de Campos, PT, PhD; Brazil
Jorge Carranza, MD; Mexico
Xiaojie Li, MD; People’s Republic of China
Ensa Johnson, PhD; South Africa
Annemieke I. Buizer, MD, PhD; Netherlands
Lena Krumlinde-Sundholm, Reg OT, PhD; Sweden
Danny M. Weigl, MD; Israel
Tamer A. El-Sobky, MD; Saudi Arabia
Alberto Moreno, MD; Mexico

2019 Local Hosts
Rachel M. Thompson, MD
Eileen G. Fowler, PhD, PT
### AACPDM Past and Future Presidents

<table>
<thead>
<tr>
<th>Year</th>
<th>President</th>
</tr>
</thead>
<tbody>
<tr>
<td>1948</td>
<td>Winthrop Phelps, MD</td>
</tr>
<tr>
<td>1949</td>
<td>George G. Deaver, MD</td>
</tr>
<tr>
<td>1950</td>
<td>Earl R. Carlson, MD</td>
</tr>
<tr>
<td>1951</td>
<td>Bronson Crothers, MD</td>
</tr>
<tr>
<td>1952</td>
<td>Leslie B. Hohman, MD</td>
</tr>
<tr>
<td>1953</td>
<td>Arnold Gesell, MD</td>
</tr>
<tr>
<td>1954</td>
<td>Meyer A. Peristein, MD</td>
</tr>
<tr>
<td>1955</td>
<td>Lenox D. Baker, MD</td>
</tr>
<tr>
<td>1956</td>
<td>Margaret H. Jones Kanaar, MD</td>
</tr>
<tr>
<td>1957</td>
<td>Nicholson J. Eastman, MD</td>
</tr>
<tr>
<td>1958</td>
<td>William T. Green, MD</td>
</tr>
<tr>
<td>1959</td>
<td>Alvin J. Ingram, MD</td>
</tr>
<tr>
<td>1960</td>
<td>Raymond R. Rembolt, MD</td>
</tr>
<tr>
<td>1961</td>
<td>G.W.R. Eggers, MD</td>
</tr>
<tr>
<td>1962</td>
<td>Jessie Wright, MD</td>
</tr>
<tr>
<td>1963</td>
<td>Russell Meyers, MD</td>
</tr>
<tr>
<td>1964</td>
<td>Eric Denhoff, MD</td>
</tr>
<tr>
<td>1965</td>
<td>Chester A. Swinyard, MD</td>
</tr>
<tr>
<td>1966</td>
<td>Samuel B. Thompson, MD</td>
</tr>
<tr>
<td>1967</td>
<td>Sedgwick Mead, MD</td>
</tr>
<tr>
<td>1968</td>
<td>William Berenberg, MD</td>
</tr>
<tr>
<td>1969</td>
<td>William J. Hillman, MD</td>
</tr>
<tr>
<td>1970</td>
<td>Harriet E. Gillette, MD</td>
</tr>
<tr>
<td>1971</td>
<td>Henry L. Banks, MD</td>
</tr>
<tr>
<td>1972</td>
<td>Lawrence T. Taft, MD</td>
</tr>
<tr>
<td>1973</td>
<td>Robert L. Samilson, MD</td>
</tr>
<tr>
<td>1974</td>
<td>Elliott D. O'Reilly, MD</td>
</tr>
<tr>
<td>1975</td>
<td>Hans U. Zellweger, MD</td>
</tr>
<tr>
<td>1976</td>
<td>Eugene E. Bleck, MD</td>
</tr>
<tr>
<td>1977</td>
<td>Leon Greenspan, MD</td>
</tr>
<tr>
<td>1978</td>
<td>Gerald Solomons, MD</td>
</tr>
<tr>
<td>1979</td>
<td>Hyman H. Soboloff, MD</td>
</tr>
<tr>
<td>1980</td>
<td>Leonard F. Bender, MD</td>
</tr>
<tr>
<td>1981</td>
<td>Fred P. Sage, MD</td>
</tr>
<tr>
<td>1982</td>
<td>Paul H. Pearson, MD</td>
</tr>
<tr>
<td>1983</td>
<td>Harold B. Levy, MD</td>
</tr>
<tr>
<td>1984</td>
<td>David H. Sutherland, MD</td>
</tr>
<tr>
<td>1985</td>
<td>Robert V. Groover, MD</td>
</tr>
<tr>
<td>1986</td>
<td>Alfred L. Scherzer, MD</td>
</tr>
<tr>
<td>1987</td>
<td>Robert P. Christopher, MD</td>
</tr>
<tr>
<td>1988</td>
<td>Leon Root, MD</td>
</tr>
<tr>
<td>1989</td>
<td>Alfred Healy, MD</td>
</tr>
<tr>
<td>1990</td>
<td>Gayle G. Arnold, MD</td>
</tr>
<tr>
<td>1991</td>
<td>James R. Gage, MD</td>
</tr>
<tr>
<td>1992</td>
<td>John F. McLaughlin, MD</td>
</tr>
<tr>
<td>1993</td>
<td>Michael A. Alexander, MD</td>
</tr>
<tr>
<td>1994</td>
<td>Helen M. Horstmann, MD</td>
</tr>
<tr>
<td>1995</td>
<td>Charlene Butler, EdD</td>
</tr>
<tr>
<td>1996</td>
<td>Robert K. Rosenthal, MD</td>
</tr>
<tr>
<td>1997/1998</td>
<td>Peter L. Rosenbaum, MD</td>
</tr>
<tr>
<td>1999</td>
<td>Dennis C. Harper, PhD</td>
</tr>
<tr>
<td>2000</td>
<td>John F. Mantovani, MD</td>
</tr>
<tr>
<td>2001/2002</td>
<td>Michael D. Sussman, MD</td>
</tr>
<tr>
<td>2003</td>
<td>James A. Blackman, MD</td>
</tr>
<tr>
<td>2004</td>
<td>Robert W. Armstrong, MD</td>
</tr>
<tr>
<td>2005</td>
<td>Luciano S. Dias, MD</td>
</tr>
<tr>
<td>2006</td>
<td>Barry S. Russman, MD</td>
</tr>
<tr>
<td>2007</td>
<td>William L. Oppenheim, MD</td>
</tr>
<tr>
<td>2008</td>
<td>Diane L. Damiano, PhD PT</td>
</tr>
<tr>
<td>2009</td>
<td>Hank G. Chambers, MD</td>
</tr>
<tr>
<td>2010</td>
<td>Deborah J. Gaebler-Spira, MD</td>
</tr>
<tr>
<td>2011</td>
<td>Scott A. Hoffinger, MD</td>
</tr>
<tr>
<td>2012</td>
<td>Joseph P. Dutkowsky, MD</td>
</tr>
<tr>
<td>2013</td>
<td>Maureen E. O’Donnell, MD MSc FRCP (C)</td>
</tr>
<tr>
<td>2014</td>
<td>Richard D. Stevenson, MD</td>
</tr>
<tr>
<td>2015</td>
<td>Darcy Fehlings, MD MSc FRCP (C)</td>
</tr>
<tr>
<td>2016</td>
<td>Eileen Fowler, PhD PT</td>
</tr>
<tr>
<td>2017</td>
<td>Unni Narayanan, MBBS MSc FRCP (C)</td>
</tr>
<tr>
<td>2018</td>
<td>Sarah Winter, MD</td>
</tr>
<tr>
<td>2019</td>
<td>Jilda Vargus-Adams, MD, MPH</td>
</tr>
<tr>
<td>2020</td>
<td>Mauricio Delgado, MD</td>
</tr>
<tr>
<td>2021</td>
<td>Susan E. Sienko, PhD</td>
</tr>
</tbody>
</table>
This mobile app allows you to:

• View schedules, explore sessions, and find networking events.
• Curate your own personal schedule for easy conference attendance.
• Access location and speaker information at your fingertips.
• Post updates to sessions, keynotes, and exhibitor booths.
• Interact with a real-time feed of all event activity, that showcases which sessions are trending, most popular photos, and popular discussion topics.
• Earn points and badges for being active on the app and at the event.
• Expand your professional network and have fun!

Features of the App:

• Agenda - view the full agenda and related information (session time, room number, speaker info, etc)
• Update - a quick way to share photos, comments, and which session you’re attending
• Activity Feed - the real-time pulse of the event. See what people are saying, view photos from the event, and find trending sessions and topics.
• Users - see who’s at the event, and connect with them on the app
• Exhibitors - find exhibitors and supporters, and leave comments or ratings

Find members of the AACPDM Communications Committee identified with an “App Helper” ribbon onsite or visit the Registration Desk with questions!

Download the AACPDM 2019 Mobile App!

As long as you have an internet connection, you can access the app through your laptop via this link:

https://tinyurl.com/AACPDM19

*Download before you go!

On-Site WiFi service can affect the functionality of the app.

Get the app!

Download the “AACPDM Events” app from the Apple App Store or Google Play Store.

Find your event app by searching for “AACPDM” or find the event icon and click to open the app. Follow the login instructions provided by your event registration to begin using the app.

*Download before you go! On-Site WiFi service can affect the functionality of the app.
Purpose
The educational program of the American Academy for Cerebral Palsy and Developmental Medicine (AACPDM) 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, psychiatrists, orthopedic and neuro-surgeons, physical and occupational therapists, speech and language pathologists, orthotists, dieticians, rehabilitation engineers, kinesthesiologists, nurses, psychologists, special education teachers and educators. Note: All levels of skill will be addressed.

AACPDM Vision
A global leader in the multidisciplinary scientific education for health professionals and researchers dedicated to the well-being of people with childhood-onset disabilities.

AACPDM Mission
Provide multidisciplinary scientific education for health professionals and promote excellence in research and services for the benefit of people with cerebral palsy and childhood-onset disabilities.

Online Self-Reporting System for CME / CEU / CE Credits
After the Combined AACPDM 73rd Annual and IAACD 2nd Triannual 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 2019. 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. Access this form at the Registration Desk.

ACCME Accreditation Statement
The American Academy for Cerebral Palsy and Developmental Medicine (AACPDM) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

AMA Credit Designation Statement
The American Academy for Cerebral Palsy and Developmental Medicine (AACPDM) designates this live activity for a maximum of 38.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physical Therapists / Physical Therapy Assistants
ProCert certification is pending. CCUs are a unit of relative value of an activity based on its evaluation against a rigorous and comprehensive set of standards representing the quality of an activity. The CCU determination is a valuation applying many factors including, but not limited to, duration of the activity. No conclusion should be drawn that CCUs correlate to time (e.g. hours).

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. Occupational Therapists and Occupational Therapy Assistants will be able to claim a maximum of 3.875 AOTA CEU’s. All sessions during the AACPDM 73rd Annual and IAACD 2nd Triannual Meeting are available for credit. Note: The assignment of AOTA CEUs does not imply endorsement of specific course content, products, or clinical procedures by AOTA.

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, for 38.75 Contact Hours.

Orthotist Credits
This program has been approved for up to 38.75 credits through the American Board for Certification (ABC). Full participation in this program is required for the full amount of credits. Must sign-in daily at the registration desk.
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. Financial support for the creation of new international meetings that are related to cerebral palsy and developmental medicine is also available through the Development Grant.

**Advisor Support Program**
The AACPDM Membership Committee launched an Advisor Support Program to match veteran AACPDM members with new members to ensure they get everything they can out of their membership. Advisor areas include networking, committee involvement, research and grants, international experience and more!

**eCourses**
The AACPDM Education Committee launched AACPDM eCourses which are 3-4 week online, self-paced educational opportunities to earn continuing education credits (CEUs).

**Networking**
Membership in AACPDM facilitates making 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 developmental 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 subscription to DMCN, or they may choose to select from a list of Clinics in Developmental Medicine series books in place of the DMCN Journal.

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

**Research**
AACPDM offers the opportunity for members to apply for a Research Planning Grant. The purpose of this grant is to provide financial support to bring together investigators from geographically disparate locations, obtain statistical consultation and develop a multi-center research study plan. The goal is to provide the forum and initial planning to develop a successful grant submission for full funding through some larger agency (e.g., NIH, UCP, NIDRR, CDC, CIHR etc). The grant should focus on an important clinical question relevant to the membership of AACPDM and the involvement of a multidisciplinary team is expected.

**Website**
Members can visit the Members Only section of the AACPDM website for a wide variety of information not available to non-members including Sage Award Videos, membership contact information and other educational opportunities.

**Committees**
The heart of the Academy is our committees. These 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
- Care Pathways
- Communications
- Community Council
- Complex Care
- Education
- International Affairs
- Life Span Care
- Membership
- Nominating
- Publications
- Research
- Scientific Program
Ticketed Sessions
Please note, **a ticket does not guarantee access to a session.** We advise individuals to arrive at least 10 minutes prior to increase the ability to attend the session. This does not apply to additionally purchased pre-conference sessions, the International Luncheon, or the Networking Dinner Celebration.

**E-Poster**
An E-Poster is an electronic version of the traditional paper poster in PowerPoint format, and is displayed on a monitor. In addition to traditional paper posters on bulletin boards, Scientific and Demonstration Poster Presenters were also required to submit their poster as an E-Poster. There will be computer kiosks throughout the Anaheim Marriott dedicated to E-Posters. They will also be posted on the AACPDM website during and 2 months after the meeting. E-Posters increase exposure to the work and allow people to view the poster in the comfort of their hotel room or even at home after the meeting. 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.

**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.
General Information

SESSION EVALUATIONS
We need your feedback! As a dedicated learner during the Combined AACPDM 73rd Annual and IAACD 2nd Triannual 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 Combined AACPDM 73rd Annual and IAACD 2nd Triannual Meeting in the following ways:

- The Annual Meeting mobile app will include access to the online survey tool to complete various session evaluations.
- Participants will be asked to provide input on the educational program of the Combined AACPDM 73rd Annual and IAACD 2nd Triannual Meeting through the online CME / CEU Claim System when claiming credit for participation.

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 nonresearch 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.

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.
**Presidential Guest Lectureship - Jon R. Davids, MD**

**Rationale and Evolution of the Application of Quantitative Gait Analysis to the Management of Gait Disorders in Children with Cerebral Palsy**

Dr. Davids is a board certified Pediatric Orthopaedic Surgeon, who is the Assistant Chief of Orthopaedics and Medical Director of the Motion Analysis Laboratory at the Shriners Hospitals for Children Northern California; and Professor and Ben Ali Chair in Pediatric Orthopaedics in the Department of Orthopaedics at the University of California Davis Medical School in Sacramento, California, USA.

Dr. Davids has published and lectured extensively at regional, national and international levels, teaching gait analysis interpretation and clinical applications for children with cerebral palsy, myelodysplasia, and limb deficiency. He is also an active member of the American Academy of Cerebral Palsy and Developmental Medicine (AACPDM), American Academy of Orthopaedic Surgeons (AAOS), American Board of Orthopaedic Surgeons (ABOS), Pediatric Orthopaedic Society of North America (POSNA) and the American Orthopaedic Association (AOA). Jon serves on the editorial board of the Journal of Pediatric Orthopaedics and Gait & Posture.

**Presidential Guest Lectureship - Jozef Gécz, PhD**

**Redefining Cerebral Palsy as a Genetic, Neurodevelopmental Spectrum Disorder**

Prof. Jozef Gécz is National Health and Medical Research Council Senior Principal Research Fellow and Channel 7 Inaugural Chair for the Prevention of Childhood Disability at the University of Adelaide and South Australian Health and Medical Research Institute, Adelaide, Australia. Professor Gécz career spans 33 years of competitive research in genomics and molecular biology of childhood onset neurological disorders across Europe and Australia.

Professor Gécz’ research is patient centric and focuses on the application of genomics for precision diagnosis of childhood onset neurodevelopmental disabilities to empower early and personalised intervention, management and treatment.

**Presidential Guest Lectureship - Audrey Thurm, PhD**

**Motor Milestones, Intellectual Disability and Autism**

Audrey Thurm, Ph.D., is Director of the Neurodevelopmental and Behavioral Phenotyping Service in the Office of the Clinical Director, part of the National Institute of Mental Health (NIMH)’s Intramural Research Program (IRP). She has been at NIMH since 2002, serving in the extramural program until 2006, at which time she moved to the IRP to engage in research on autism spectrum disorder (ASD) and other related neurodevelopmental disorders.

Dr. Thurm’s research interests focus on evaluating and improving upon diagnostic and cognitive assessment instrumentation through longitudinal studies of risk and characterization of neurodevelopmental disorders. In addition to studying the prodromal and post-diagnostic characterization of idiopathic ASD, studies also focus on phenotypic explorations of genetic disorders associated with Intellectual Disability and ASD. A goal of this research is to improve instrumentation to allow for more finely-tuned developmental assessments that distinguish various phenotype-genotype relationships and serve as useful treatment outcome measures.

**Mac Keith Press Basic Science Lectureship - Elaine Y. Hsiao, PhD**

**Microbiome-Nervous System Interactions in Health and Disease**

Dr. Elaine Y. Hsiao is a professor in the Department of Integrative Biology & Physiology, where she leads a laboratory studying fundamental interactions between the microbiome, brain and behavior, and their applications to neurological disorders.

Dr. Hsiao’s work on neuroimmune contributions to neurodevelopment and behavior led to the finding that postnatal modification of the microbiota improves gastrointestinal and behavioral symptoms in mouse models of genetic and environmental risk factors for autism. In addition, her laboratory identified select bacteria from the healthy human microbiome that promote host serotonin biosynthesis in the gut. Inspired by this interplay between the microbiota and nervous system, the Hsiao laboratory is mining the human microbiota for microbial modulators of host neuroactive molecules, investigating the impact of microbiota-immune system interactions on neurodevelopment and examining the microbiome as an interface between gene-environment interactions in neurological diseases.

Their work in these areas have led to several honors, including the Chan Zuckerberg Initiative Ben Barres Career Acceleration Award, Packard Fellowship in Science and Engineering, Alfred P. Sloan Fellowship in Neuroscience, Kavli Simons Fellowship in Neuroscience, Kavli Fellow of the National Academy of Sciences, National Institutes of Health Director’s Early Independence Award, Forbes’ 30 Under 30 in Science and Healthcare and National Geographic’s Emerging Explorer Award.
President Guest Lectureship - Leigh Hochberg, MD, PhD
Intracortical Brain-Computer Interfaces: Toward Restoring Communication and Mobility
Dr. Leigh Hochberg is a vascular and critical care neurologist and neuroscientist. His research focuses on the development and testing of novel neurotechnologies to help people with paralysis and other neurologic disorders, and on understanding cortical neuronal ensemble activities in neurologic disease.

Dr. Hochberg has appointments as Neurologist, Massachusetts General Hospital, where he attends in the NeuroICU and on the Acute Stroke service; Professor of Engineering, School of Engineering and Carney Institute for Brain Science, Brown University; Director, VA RR&D Center for Neurorestoration and Neurotechnology, Providence VAMC; and Senior Lecturer on Neurology at Harvard Medical School. He also directs the Center for Neurotechnology and Neurorecovery for MGH Neurology, where he is the IDE Sponsor-Investigator and Principal Investigator of the BrainGate pilot clinical trials (www.braingate.org) that are conducted by a close collaboration of scientists and clinicians at Brown, Case Western Reserve University, MGH, Providence VAMC, and Stanford University.

Dr. Hochberg is a Fellow of the American Academy of Neurology and the American Neurological Association. Dr. Hochberg’s BrainGate research, which has been published Nature, Science Translational Medicine, Nature Medicine, Nature Neuroscience, the Journal of Neuroscience, and others, has received support from the Rehabilitation R&D Service of the U.S. Department of Veterans Affairs, NIDCD, the NIH BRAIN Initiative/NINDS, and others.

President Guest Lectureship - Daniel Kraft, MD
The Future of Health & Medicine: Where Can Technology Take Us?
Dr. Daniel Kraft is a Stanford and Harvard trained physician-scientist, inventor, entrepreneur, and innovator. With over 25 years of experience in clinical practice, biomedical research and healthcare innovation, Kraft has served as Faculty Chair for Medicine at Singularity University since its inception in 2008, and is the Founder and Chair of Exponential Medicine, a program that explores convergent, rapidly developing technologies and their potential in biomedicine and healthcare.

Following undergraduate degrees from Brown University and medical school at Stanford, Daniel was Board Certified in both Internal Medicine & Pediatrics after completing a Harvard residency at the Massachusetts General Hospital & Boston Children’s Hospital, and fellowships in hematology, oncology and bone marrow transplantation at Stanford. He has multiple scientific publications and medical device, immunology and stem cell related patents through faculty positions with Stanford University School of Medicine and as clinical faculty for the pediatric bone marrow transplantation service at University of California San Francisco.

Dr. Kraft is a member of the Kaufman Fellows Society (Class 13) and member of the Inaugural (2015) class of the Aspen Institute Health Innovators Fellowship. His academic research has focused on: stem cell biology and regenerative medicine, stem cell derived immunotherapies for cancer, bioengineering human T-cell differentiation, and humanized animal models. Clinical work focuses on: bone marrow / hematopoietic stem cell transplantation for malignant and non-malignant diseases in adults and children, medical devices to enable stem cell based regenerative medicine, including marrow derived stem cell harvesting, processing and delivery. He also implemented the first text-paging system at Stanford Hospital.

He is also the inventor of the MarrowMiner, an FDA approved device for the minimally invasive harvest of bone marrow, and founded RegenMed Systems, a company developing technologies to enable stem cell-based regenerative therapies. He is also the founder of IntelliMedicine, focused on data driven, precision medicine.

Dr. Kraft is an avid pilot and has served in the Massachusetts and California Air National Guard as an officer and flight surgeon with F-15 & F-16 Fighter Squadrons. He has conducted research on aerospace medicine that was published with NASA, with whom he was a finalist for astronaut selection.

President Guest Lectureship - Steven C. Cramer, MD
Brain Repair After Stroke
Dr. Steven C. Cramer graduated with Highest Honors from University of California, Berkeley; received his medical degree from University of Southern California; did a residency in internal medicine at UCLA; and did a residency in neurology plus a fellowship in cerebrovascular disease at Massachusetts General Hospital. Dr. Cramer also earned a Masters Degree in Clinical Investigation from Harvard Medical School.

His research focuses on neural repair after central nervous system injury in humans, with an emphasis on stroke and on recovery of movement. Treatments examined include robotic, stem cell, monoclonal antibody, brain stimulation, drug, and telehealth methods. A major emphasis is on translating new drugs and devices to reduce disability after stroke, and on individualizing therapy for each person’s needs.

Dr. Cramer has been awarded the Stroke Rehabilitation Award from the American Heart Association and the Barbro B. Johansson Award in Stroke Recovery from the World Stroke Organization, co-edited the book "Brain Repair after Stroke," and is the author of over 250 manuscripts.

President Guest Lectureship - Tom DiBello, CO, LO, FAAOP Director, Dept. of Clinical and Scientific Affairs
Current State of the Art of the Lower Limb Pediatric Orthotic Care: Translation to the Developing World
Mr. DiBello holds a Bachelors of Pharmacy Degree from Duquesne University and certificates in Orthotics and Prosthetics from Northwestern University. He has lectured extensively on Lower Extremity Orthotics throughout the United States, Central and South America, Southeast Asia, Africa and China, has authored chapters on this subject in two textbooks.

Mr. DiBello is a Fellow of the American Academy of Orthotists and Prosthetists and received the Academy’s Distinguished Practitioner Award in 2007. In 2015 Tom was awarded the American Orthotic and Prosthetic Associations Lifetime Achievement Award. Tom is a Past President of the Academy and Past President for two successive years of the American Orthotics and Prosthetic Association.

Tom is Clinical Assistant Professor at the Baylor College of Medicine, Honorary Adjunct Faculty at Texas Women’s University and Chairman of the Advisory Committee of the Baylor College of Medicine’s Masters of Science Program in Orthotics and Prosthetics, and is a Director in the Department of Clinical and Scientific Affairs, Hanger Clinic.

**Gayle G. Arnold Lectureship - Erik W. Carter, PhD**

*A Future of Flourishing: Supporting Successful Transitions for Young People with Disabilities*

Dr. Erik Carter is Cornelius Vanderbilt Professor of Special Education at Vanderbilt University in Nashville, Tennessee. His research and teaching focuses on evidence-based strategies for supporting inclusion and valued roles in school, work, community, and congregational settings for children and adults with developmental disabilities. He has published widely in the areas of educational and transition services, including more than 200 articles, chapters, and books. He was received research awards from the Council for Exceptional Children, the American Association for Intellectual and Developmental Disabilities, the Association of University Centers on Disabilities, and the Division on Autism and Developmental Disabilities.

**Presidential Guest Lectureship - Rune J. Simeonsson, PhD, MSPH**

*ICF-CY: Added Value for Developmental Practice?*

Rune J. Simeonsson, PhD, MSPH Professor of Education & Senior Fellow, FPG Child Development Institute, at the University of North Carolina at Chapel Hill, USA. His academic preparation includes the disciplines of Psychology, Special Education and Public Health, converging on the study of developmental characteristics of children and youth with chronic conditions and disabilities. His teaching and research interests focus on assessment and classification of development, functioning and disability of children and the role of environments related to children’s health, education and well-being. He has engaged in consultation on child development and disability with UN agencies as well as with countries in Asia, the Middle East, Latin America and Eastern and Western Europe. He served as chair of the WHO work group to develop the International Classification of Functioning, Disability and Health version for Children and Youth (ICF-CY) and served on the WHO committee to revise the diagnosis of Intellectual Developmental Disorder in ICD-11.

**Chambers Family Lifespan Lectureship**

Moderator: Olivia Raynor, PhD
Panelists: Herlinda Rodriguez and Cathy Liu
**Cathleen Lyle Murray Award**  
**2019 Recipient: Judith E. Heumann**

The Cathleen Lyle Murray Foundation Award recipient is selected on the basis of their impact on society through their humanitarian efforts to enhance the lives of persons with severe multiple disabilities. The recipient demonstrates an effective and unique humanitarian approach through advocacy, legislation, clinical services, life experiences, etc., that can be shared with the AACPDM to help promote better understanding of and advancement in society of persons with disabilities.

Judith (Judy) Heumann is a lifelong advocate for the rights of disabled people. She contracted polio in 1949 in Brooklyn, NY and began to experience discrimination at 5 years old when she was denied the right to attend school because she was a “fire hazard.” Her parents played a strong role in fighting for her rights as a child. Judy determined that she, working in collaboration with other disabled people, had to play an increasing advocacy role as she and others experienced continuous discrimination because of their disabilities.

She is now an internationally recognized leader in the disability rights community and a lifelong civil rights advocate. She has been featured in numerous documentaries on the history of the Disability Rights Movement and recently her story was told on Comedy Central’s Drunk History, in which she was portrayed by Ali Stroker, the first disabled woman to play on Broadway and a “fire hazard.” Her parents played a strong role in fighting for her rights as a child. Judy determined that she, working in collaboration with other disabled people, had to play an increasing advocacy role as she and others experienced continuous discrimination because of their disabilities.

She is now an internationally recognized leader in the disability rights community and a lifelong civil rights advocate. She has been featured in numerous documentaries on the history of the Disability Rights Movement and recently her story was told on Comedy Central’s Drunk History, in which she was portrayed by Ali Stroker, the first disabled woman to play on Broadway and Judy has also delivered a TED Talk. As a Senior Fellow at the Ford Foundation, she is currently working to help advance the inclusion of disability in the Foundation’s work and is leading a project to advance the inclusion of disabled people in the media. She also currently serves on a number of non-profit boards of directors and is an Ambassador for Leonard Cheshire based in London.

President Obama appointed Judy as the first Special Advisor for International Disability Rights at the U.S. Department of State, where she served from 2010-2017. Mayor Fenty, District of Columbia, appointed her as the first Director for the Department on Disability Services, where she was responsible for the Developmental Disability Administration and the Rehabilitation Services Administration. From June 2002-2006, Judy served as the World Bank’s first Adviser on Disability and Development. In this position, she led the World Bank’s disability work to expand the Bank’s knowledge and capability to work with governments and civil society on including disability in the global conversation. From 1993 to 2001, Judy served in the Clinton Administration as the Assistant Secretary for the Office of Special Education and Rehabilitative Services in the Department of Education.

She was also responsible for the implementation of legislation at the national level for programs in special education, disability research, vocational rehabilitation and independent living, serving more than 8 million youth and adults with disabilities. 1982-1993 she cofounded the World Institute on Disability with Ed Roberts and Joan Leon. WID was the think tank run by disabled people focused on research to advance the Independent Living Movement. 1973-1993 Served as a founding member of the Berkeley Center for Independent Living and then on its Board of Directors. CIL Berkeley was the first center in the United States and helped to launch the Independent Living Movement in the US and around the World.

Over the course of her life, Judy has been involved on the national and international front working with disabled people’s organizations and governments in the US and around the world to advance the human rights of disabled people. She has traveled using her motorized wheelchair to countries on every continent, in urban and rural communities. She has played a role in the development and implementation of major legislation including the IDEA, Section 504, the Americans with Disability Act and the Convention on the Rights of Persons with Disabilities and the Convention on the Rights of Persons with Disabilities.

Judy graduated from Long Island University in Brooklyn, NY in 1969 and received her Master’s in Public Health from the University of California at Berkeley in 1975. She has received numerous awards including being the first recipient of the Henry B. Betts Award in recognition of efforts to significantly improve the quality of life for people with disabilities and the Max Starkloff Lifetime Achievement Award from the National Council on Independent Living. She has also been awarded an Honorary Doctorate of Education from Middlebury College (May 2019), Honorary Doctorate of Humane Letters from Long Island University in Brooklyn, an Honorary Doctorate of Public Administration from the University of Illinois, Champaign, and an Honorary Doctorate of Public Service from the University of Toledo, Ohio and an Honorary Degree of Doctor of Humane Letters from Brooklyn College.

Judy’s goal in life is to continue to advance the rights and empowerment of ALL disabled people around the world.

**Lifetime Achievement Award**  
**2019 Recipient: Barry S. Russman, MD**

The AACPDM Lifetime Achievement Award is specifically selected by the First Vice President. The recipient of this award has, during their lifetime, 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.

Dr. Russman’s career has been involved with general pediatric neurology, first in CT at Newington Children’s Hospital, an affiliate of UConn Medical School. He then moved to Portland OR, working at Shriners Hospital for Children and OHSU, in the department of Pediatrics and Neurology. His specialty interests have in neuromuscular disease and cerebral palsy, responsible for the MDA and cerebral palsy programs in CT and now OHSU. He has been active in the Academy of Cerebral Palsy and Developmental Medicine, being on the executive committee for 3 years and then president of the Academy in 2005.
Awards

Committee of the Cerebral Palsy Research Network (CPRN),
Dr. Noritz is a founding member and on the Executive
primary care of patients with neuromuscular diseases. The recipient may
be an athlete, coach, or sponsor.

A four-time IRONMAN triathlete, Kyle Pease has a career total of
more than 75 races. Since 2011, he and his brother, Brent, have competed in races across the country, most recently
becoming the first brother duo in history to complete the
grueling IRONMAN World Championship in Kona, Hawaii.
Born with Cerebral Palsy, Kyle has strived for life beyond his
wheelchair. Through his work with the Kyle Pease Foundation,
he’s focused on creating opportunities for inclusion in sports for
athletes with disabilities. A motivational speaker and greeter at
Piedmont Hospital in Atlanta, Kyle graduated from Kennesaw
State University with a B.S. in Sports Management.

Mentorship Award 2019 Recipient:
Garey Noritz, MD
This award recognizes an individual who has
demonstrated outstanding leadership for trainees and colleagues in the field of cerebral palsy and other developmental disabilities. The Research Committee considers the breadth and depth of the nominee’s contribution and impact on improving services and care, promoting professional education and research for individuals with disabilities, and the sustainability of the nominee’s mentorship over time. The award recipient must be a current member of the AACPDM.

Garey Noritz, MD is an Internist and Pediatrician at Nationwide Children’s Hospital. He is section and division chief of the Complex Health Care Program, which provides a medical home to children and adults with neurodevelopmental disabilities. He is Professor of Pediatrics at The Ohio State University, and the Director of the Comprehensive Cerebral Palsy Program at Nationwide Children’s Hospital.

Dr. Noritz is a graduate of the Brown University School of Medicine and of the Internal Medicine and Pediatrics residency at MetroHealth Medical Center and Case Western Reserve University. He is Board Certified in Internal Medicine, Pediatrics, Neurodevelopmental Disabilities, and Hospice and Palliative Medicine. He is active at the national level in advocating for the care of children and adults with disabilities. He is on the Executive Committee of the Council on Children with Disabilities of the American Academy of Pediatrics, and is past Chair of the Lifespan Committee of the American Academy for Cerebral Palsy and Developmental Medicine. In 2013, he was awarded “Physician of the Year” by Nationwide Children’s Hospital.

Dr. Noritz’s research interests include efforts to improve the early detection of young children with motor disorders, bone health in patients with disabilities, transition of children with disabilities to adult models of care, palliative medicine, and the primary care of patients with neuromuscular diseases.

Dr. Noritz is a founding member and on the Executive Committee of the Cerebral Palsy Research Network (CPRN), which is a group of doctors, therapists and patient advocates collaborating to improve treatments and outcomes for people with CP. The network currently has 25 member sites. Dr. Noritz serves as the Principal Investigator of the CPRN’s clinical registry.

Dr. Noritz was the lead author of the American Academy of Pediatrics’ 2013 clinical report, “Motor Delays: Early Identification and Evaluation”, which advises Pediatricians to institute screening for motor problems in early childhood.

He authored the primary care section of the latest update to “Diagnosis and management of Duchenne muscular dystrophy” in Lancet Neurology.

Corbett Ryan Pathways Pioneer Award 2019 Recipient: Jason Benetti
The recipient of the award will represent excellence in the pursuit of and quality of life who also happens to live with a personal physical challenge. The recipient will have the following:

• Motivation and achievement in pursuing and accomplishing personal and vocational/professional goals
• A creative approach to their pursuit of education and participation in their vocation/profession
• A positive approach to life. The recipient serves as a role model to persons in their sphere of influence and demonstrates sensitivity to others and respect for self.

Jason Benetti is a TV play-by-play announcer for ESPN and the Chicago White Sox. He joined ESPN in 2011 and has called college football and basketball for the network along with Major League Baseball, including the 2018 National League Wild Card game. His assignments for ESPN Radio include NFL and MLB games along with college football.

Benetti joined the White Sox in 2016 and just finished his third season with the team.

In addition, Benetti has called the NCAA Men’s Basketball Tournament for Westwood One radio in each of the past two seasons.

He has had broadcasting jobs with Fox Sports 1, the Syracuse Chiefs (Washington Nationals Triple-A affiliate), Time Warner Cable Sports, and High Point University, among others.

Benetti graduated from Syracuse University in 2005 with bachelor’s degrees in broadcast journalism, economics and psychology. He then earned his Juris Doctor at Wake Forest School of Law in 2011.

The Illinois native is a spokesperson for the Cerebral Palsy Foundation, including a new animated campaign he and CPF launched in 2018, entitled Awkward Moments.

He has taught sports broadcasting and sports interviewing as an adjunct professor at the S.I. Newhouse School of Public Communications at Syracuse University.
Fred P. Sage Award
2019 Recipient: Jan Willem Gorter, MD, PhD, FRCP(C) on behalf of CanChild

The Sage Award is given to the best audio/visual submission presenting clinical, research, or educational material on CDROM, DVD or in a digital format. The award is named after Fred Sage, MD, Past President (1981) and Chairman of the A/V Committee of the AACPDM. Dr. Sage envisioned the great potential of audiovisual use in the Academy. He advocated for ways to popularize this method of teaching, and this interest eventually lead to the Fred P. Sage Award for the best program submitted each year.

Mac Keith Press Promising Career Award Recipient
2019 Recipient: To Be Announced

Mac Keith Press sponsors this award for the best Free Paper or Scientific Poster by an author who is within four years of completion of training and commencement of current career. The award recipient must be a member of the AACPDM or have an application pending. The recipient is selected by the Awards Committee on site and awarded after the Annual Meeting.

Gayle G. Arnold Award for Best Free Paper
2019 Recipient: Regina Harbourne, PhD, PT

Efficacy of the Start-play Program for Infants with Neuromotor Disorders: Cognitive Outcomes

Best Scientific Poster Award Recipient
2019 Recipient: To Be Announced

Each year, AACPDM awards the Best Scientific Poster Award. The award recipient is selected as the highest rated poster from all committee member ratings.

Best Demonstration Poster Award Recipients
2019 Recipient: To Be Announced

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

Scholarships

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

International Scholarship Winners
Nino Nana Tatishvili, MD; Georgia
Chasanal Rathod, MD/MS; India
Alaric J. Aroojis, MD, MS(Orth); India
María Mercedes Perez-Roca, Sr., Physician; Uruguay
Bhamini Krishna Rao, Sr., PhD; India
Paula Silva De Carvalho Chagas, PhD; Brazil
Oluwasola Julius Oke, MBBS, FMCPaed; Nigeria
Nelleke G. Langerak, MSc, PhD; South Africa
Lin-Ju Kang, PhD; Taiwan
Maaike M. Eken, PhD; South Africa
Asis Kumar Ghosh, MPT; India
Oksana Nazar, PhD; Ukraine
Kirsty Stewart, DHSc; Australia
Jennifer Lewis, BAppSc (PT); Australia
Vahe Yavryan, MD; Armenia
Nava Gelkop, MSc; Israel
Snehal G. Deshpande, BSc PT; India
Moses K. Ojo, M. Sc; Nigeria
Tugba Gokbel; Turkey
Aline M. Feitosa, Master; Brazil
Ahmad Saeed Aly, Sr., MD; Egypt
Sayak Chowdhury, MPT( Neuro), BPT; India
Muhannnad Daana, III, MD; Israel
Mariana M. Santos, PhD.; Brazil
Nilly Waiserberg, MSCT; Israel
Victor O. Iki, BMR (OT), MBA; Nigeria
Chonnanid Limsakul, MD; Thailand/Netherlands
Ana Paula B. Gontijo, PhD; Brazil
Priyanwada Nayani Wijayasinghe, BSc in Physiotherapy; Sri Lanka
Song Zhang, MD; China
Catherine Mak; Australia
**AACPDM Awards**

**Student Scholarship Winners**
Rachel Toovey, PT, MPH
Andrea N. Burgess, B Occ Thy (Hons I)
Andy Vuong, PhD
Arielle Springer
Caitlin Hurd, MSc, MScPT
Ellen L. Armstrong, MPthy
Francyne Finlayson, BPhysio
James E. Gehringer
Kamaldeep K. Gill, MScOT
Katarina Ostojic
Laura AB Lins, MPH, ATC
Marloes Van Gorp, MSc
Michael P. Trevarrow, BS
Miranda Kneebone, PhD Candidate
Ricardo R. Sousa, Jr., PT
Suzie Noten, MSc
Tara L. FitzGerald, BPhys (Hons)
Buddhika J. Senevirathne, PT
Nikolas J. Koscielniak, MS, MPH, OTR/L
Benjamin I. Goodlich, BEExSc, MPhty
Brandon J. Marshall
Julia (Shi-Peng) Xiong, BHSc
Marie-Eve Bolduc
Rebecca Molinini, DPT
Sonia Khurana, PhD

**OrthoPediatrics Scholarship Winners**
Nabila Khan, MBBS, D. Ortho, DNB
Egmar Longo, PhD
Sarah E. Reedman, PhD, BPhy (Hons)
Julia Mazzarella, DPT
Margaret Salzbrenner Hoopes, MSN, CPNP-AC
Angela Shierk, PhD, OTR

**Research Grants**

**2018 Research Grant Recipients**
Kristie F. Bjornson, PT, PhD, MS - Supported Mobility Across the Lifespan in Cerebral Palsy: Joint Decision Making
Sudarshan Dayanidhi, PT, PhD - Muscle Stem Cell Dysfunction in Muscular Contractions in Children with Cerebral Palsy
M. Wade Shrader, MD - Participation, Mobility, and Gait in Adults with Cerebral Palsy: Relationships with Childhood Factors
Ariel Schwartz, MSOT, OTR/L - Development and Feasibility Evaluation of a Socially Valid Peer Mentoring Intervention for Young Adults with Intellectual/Developmental Disabilities and Mental Health Conditions
Sarah H. Evans, MD - Home-based Lower Limb Robotic Rehabilitation for Children with Cerebral Palsy

**2019 Research Grant Recipients**
Jessie E. Mann, M.Sc
Intensive Neurorehabilitation Therapy for Children with Global Developmental Delay and Hyperkinetic Movements
Theresa S. Moulton, PT, DPT, PhD
RaceRunning for Fitness in an Elementary School Setting: Pilot Testing and Program Development
Maria L.V. Dizon, MD, MSCI
MicroRNAs in Magnesium-Mediated Neuroprotection
Jason J. Howard, B. Eng., MD, FRCSC
Use of Collagenase Clostridium Histolyticum to Decrease Muscle Fibre Bundle Stiffness in Cerebral Palsy: A Proof-of-Concept Pilot Study
Andrea A. Domenighetti, PhD
Reversal of Aged Muscle Stem Cell Dysfunction in Contractured Muscle from Cerebral Palsy
Tuesday, September 17, 2019: 8:00am – 5:00pm

**ORTHOPEDIC DAY**

M. Wade Shrader, MD; Robert M. Kay, MD; Anthony Scaduto, MD; Rachel Goldstein, MD, MPH; Oussama Abousamra, MD; Carley Vuillermin, MBBS, MPH, FRACS; Eva Pontén, MD, PhD; Reid Nichols, MD; Leigh Ramos-Platt, MD; Freeman Miller, MD; Matthew Halansky, MD; Luis Moraleda Novo; Uri Givon, MD; Kenneth Illingsworth, MD; Michael B. Johnson, MD; Kristan Pierz, MD; H. Kerr Graham, MD; Elizabet Rodby Bousquet, PT, PhD; Dr. Kishore Mulpuri; Jon Davids, MD; Benjamin Shore, MD, MPH, FRCSC

**Location:** Marquis Northeast

**Learning Objectives:**

1. Be able to describe typical pathology of dysplastic hips in children with Down Syndrome, and appropriate orthopedic management.
2. Understand the new advancements in medical care of children with SMA and the orthopedic ramifications, due to the changing natural history of SMA.
3. Be familiar with the approach to lower and upper extremity challenges in children with arthrogryposis.
4. Describe the rationale behind growth friendly instrumentation for children with significant neuromuscular spine curves.
5. Be familiar with the importance of hip surveillance in children with CP, and learn some practical guidelines for such surveillance.

**Agenda:**

**8:00am**

**Welcome and Introduction**  
Wade Shrader, MD and Robert M. Kay, MD

**Orthopedic Aspects of Down Syndrome**  
Cervical-Spine – Anthony Scaduto, MD

**Hip Dysplasia and Periacetabular Osteotomies**  
Rachel Goldstein, MD, MPH

**Lower Extremity Challenges**  
Oussama Abousamra, MD

**Panel Discussion**

**10:00-10:15am**

**Break**

**Orthopedic Care of Children with Arthrogryposis**

**Upper Extremity Treatment**  
Carley Vuillermin, MBBS, MPH, FRACS

**Upper and Lower Extremity Care, UE/LE**  
Eva Pontén, MD, PhD

**Lower Extremities**  
Reid Nichols, MD

**Panel Discussion**

**11:30am-12:30pm**

**Lunch Break**

**Treatment of Children with Spinal Muscular Atrophy**

**Breakthroughs in Neurological Care of Children with SMA**  
Leigh Ramos-Platt, MD

**Use of a Catheter to Deliver Nusinersen**  
Freeman Miller, MD

**Treatment of Lower Extremity and Spine Problems in Children with SMA**  
Matthew Halansky, MD

**Treatment of Hip Problems in Children with SMA**  
Luis Moraleda Novo

**Panel Discussion**

**2:00-2:15**

**Break**

**Orthopedic Issues in Children with Rett Syndrome**

**Orthopedic Challenges in the Lower Extremities and Feet in Children with Rett Syndrome**  
Uri Givon, MD

**Treatment of Spine Deformity in Children with Rett Syndrome**  
Kenneth Illingsworth, MD

**Minimally-Invasive Growth-Friendly Management of Severe Neuromuscular Scoliosis**  
Michael B. Johnson, MD

**Treatment of Lower Extremity and Foot Problems in Children with Rett Syndrome**  
Kristan Pierz, MD

**Panel Discussion**

**International Perspectives on Hip Surveillance in Children with Cerebral Palsy**

Australia – H. Kerr Graham, MD  
Scandinavia – Elizabet Rodby Bousquet, PT, PhD  
Canada – Dr. Kishore Mulpuri

USA – Jon Davids, MD

**AACPD and POSNA Guidelines**

Benjamin Shore, MD, MPH, FRCSC

**Panel Discussion**

**5:00pm**

Adjourn
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00am</td>
<td>Welcome Address to New and Existing Members: Structure and Composition, Accomplishments, Opportunities and Challenges</td>
<td></td>
</tr>
<tr>
<td>8:10am</td>
<td>Dopaminergic Genetic Variation Influences Intervention Outcome in Children with Cerebral Palsy</td>
<td></td>
</tr>
<tr>
<td>8:30am</td>
<td>Report from the ICPGC Phenomics Working Group: Delphi Results Lead to Essential Data Elements</td>
<td></td>
</tr>
<tr>
<td>9:00am</td>
<td>Molecular Basis of Orthopedic Conditions in CP</td>
<td></td>
</tr>
<tr>
<td>9:30am</td>
<td>Coffee and Networking Break</td>
<td></td>
</tr>
<tr>
<td>10:00am</td>
<td>Assessing CP Etiology in Uganda</td>
<td></td>
</tr>
<tr>
<td>10:20am</td>
<td>Whole Genome Sequencing Findings from Toronto, Canada</td>
<td></td>
</tr>
<tr>
<td>10:40am</td>
<td>Updates from British Columbia, Canada</td>
<td></td>
</tr>
<tr>
<td>11:00am</td>
<td>Whole Exome Sequencing Findings from New York, USA</td>
<td></td>
</tr>
<tr>
<td>11:20am</td>
<td>Whole Exome-based Insights from Pennsylvania, USA</td>
<td></td>
</tr>
<tr>
<td>11:40am</td>
<td>Findings from Guangzhou, China using Whole Genome Sequencing</td>
<td></td>
</tr>
<tr>
<td>12:00pm</td>
<td>Lunch Break</td>
<td></td>
</tr>
<tr>
<td>1:00pm</td>
<td>Wnt Pathway Mutations in CP</td>
<td></td>
</tr>
<tr>
<td>1:20pm</td>
<td>Stress Response Pathways: Implications for Neurodevelopment and Motor Function in CP</td>
<td></td>
</tr>
<tr>
<td>1:40pm</td>
<td>Converging Pathways in CP Implicated by Complementary Genomics and Transcriptomics</td>
<td></td>
</tr>
<tr>
<td>2:00pm</td>
<td>Biomarkers and Exosomes in CP</td>
<td></td>
</tr>
<tr>
<td>2:30</td>
<td>Coffee and Networking Break</td>
<td></td>
</tr>
<tr>
<td>3:00pm</td>
<td>Mini-Symposium: Neuroimaging and CP Genetics</td>
<td></td>
</tr>
<tr>
<td>4:30pm</td>
<td>Panel Discussion: Gene by Environment Interactions</td>
<td></td>
</tr>
<tr>
<td>1:00pm</td>
<td>Ultrasound Symposium: Neuromuscular Ultrasound - Hands-on Ultrasound Training Course Part I</td>
<td></td>
</tr>
</tbody>
</table>

**Tuesday, September 17, 2019: 1:00pm - 5:00pm**

**Learning Objectives:**
1. Be proficient in the basic physics and scanning techniques of ultrasound
2. Be proficient with the basics of US imaging
3. Identify clinical applications of US for procedural guidance and in Neuromuscular medicine
4. Identify key muscles in the neck, upper/lower limbs, parotid/submandibular glands. Identify sonoacoustic properties of relevant tissues and the benefits and limitations of incorporating US into clinical practice
Program and Events

Wednesday, September 18, 2019: 8:00am – 12:00pm

International Cerebral Palsy Genomics Consortium (ICPGC) Annual Meeting/Neurogenetics Symposium Part II

Michael C. Kruer, MD; Sarah McIntyre, BAAppSc(OT)Hons, MPS, PhD; Richard F. Wintle, PhD; Jan Friedman, MD, PhD; Qinghe Xin, PhD; Andres Moreno De Luca, MD; Hao Hu, PhD; Francisca Millan Zamora, MD; Peter Jin, PhD; Mark Corbett, PhD; Sara Lewis, PhD; Clare van Eyk, PhD

Location: Marquis Northwest

8:00am

What Constitutes CP in the Genomic Age (i.e. what isn’t CP?!)

Bhooma Aravamuthan, MD

8:30am

A Major Role for Genes that Control Developmental Neuritogenesis in CP

Peter Jin, PhD

9:00am

Cerebral Palsy Clinical Genomic Testing: Initial Results from Whole Exome Sequencing >1200 Cases

Francisca Millan, MD

9:30am

Are We There Yet? Implications of Genomics for Clinical Practice: Considerations within the International Classification of Function (ICF) Framework

Darcy Fehlings, MD

10:00am

When Should a Single Gene Form of CP be Considered?

Ali Fatemi, MD, and Julie Cohen, MS

11:00am

Developmental vs Degenerative Motor Disorders (cerebral palsy vs. hereditary spastic paraplegia)

Michael Kruer, MD

11:30am

Roll up Your Sleeves! Ways to Get Involved with Ongoing CP Genomics Research

Yana Wilson, MIPH, and Paul Gross, BA

12:00pm

Closing Remarks and Adjourn

Michael Kruer, MD

---

PC1 - REHABILITATION AND USE OF MOTION ANALYSIS FOR SINGLE EVENT MULTI-LEVEL SURGERY

Christina Bickley, PT, PhD, BOCO, C/NDT; Melissa Howard, PT, DPT, NCS; Douglas A. Barnes, MD; H Kerr Graham, MD, FRCS(Ed), FRACS; Melanie Lux, MD; Pam Thomason, B Phyto, M Physio

Location: Marquis Northeast

Learning Objectives:
1. Describe SEMLS and the assessment process using Motion Analysis to determine surgical candidacy
2. Become familiar with patient interventions included in the stages of rehabilitation after SEMLS intervention
3. Understand the benefits of early postoperative mobilization for children following SEMLS and the research supporting early mobilization
4. Understand orthotic management and rational for orthotic prescription in the post-operative period.
5. Understand which SEMLS procedures and hardware selections are candidates for an early mobilization rehabilitation program and which procedures still require a period non-weightbearing
6. Gain understanding of the pharmacological management (pain and spasm management) associated with an early mobilization rehabilitation SEMLS program
7. Become familiar with the use of Motion Analysis and the various measures used for outcome assessment

---

Wednesday, September 18, 2019: 10:00am - 12:00pm

Lower Extremity Osteotomies in Pediatric Orthopaedics: Hands-On Sawbones Session

Oussama Abousamra, MD; Haleh Badkoobehi, MD; Rachel Goldstein, MD; Professor H. Kerr Graham; Freeman Miller, MD; Robert Kay, MD; Selina Poon, MD; Benjamin Shore, MD; Vineeta Swaroop, MD; Rachel Thompson, MD

Location: Platinum 3

Learning Objectives:
1. Attendees will learn the approach to, and techniques for, VDROs in children.
2. Participants will understand the rationale and approach to performing distal femoral extension osteotomies in children with crouch gait.
3. Learners will be able to explain the importance of lever arm dysfunction in children, and how tibial osteotomies can be used to fix such dysfunction.

---

Wednesday, September 18, 2019: 1:00pm – 5:00pm

Neuromuscular Ultrasound - Hands-on Ultrasound Training Course Part II

Katharine E. Alter, MD; Heakyung Kim, MD; David Cancel, MD

Location: Platinum 2

Learning Objectives:
1. Be proficient in the basic physics and scanning techniques of ultrasound
2. Be proficient with the basics of US imaging
3. Identify clinical applications of US for procedural guidance and in Neuromuscular medicine
4. Identify key muscles in the neck, upper/lower limbs, patotid/submandibular glands. Identify sonoacoustic properties of relevant tissues and the benefits and limitations of incorporating US into clinical practice
**PC2 - PRACTICAL APPROACHES TO COMPLEX CARE: BUILDING YOUR CLINICAL AND TEACHING TOOLKIT**
Holly Roach, OTR, ATP; Irene Chon. Dietz, MD; Emily Goodwin, MD; Kathleen Huth, MD MMSc; Lisa Letzkus, PhD RN CNP-AC; James Plews-Ogan, MD; Roopa Srinivasan, DNB (Pediatrics)

Learning Objectives:
1. Participants will apply the ICF framework to guide and lead difficult discussions such as consideration for a tracheostomy or gastrostomy in a child with medical complexity
2. Participants will review the AAPCSD Sialorrhea Care Pathway and utilize it as a teaching tool to serve as a model for educating learners at the participant’s home institution
3. Participants will learn and practice strategies to evaluate feeding safety from a patient and family centered approach.
4. Participants will develop proactive action plans which include anticipatory guidance for sick day management
5. Participants will identify key team members and identify their unique and complementary roles in the care and evaluation of CMC in their home institutions.

**PC3 - FOURTH WORLD CP REGISTER AND SURVEILLANCE CONGRESS**
Sarah McIntyre, BAppSc(OT)Hons, MPS, PhD; Kate Himmelmann, MD, PhD; Maryam Oskoui, MDCM, FRCPC, MSc, FAAN; Gulam Khandaker, MBBS, MPH, PhD, FAFPHM

Learning Objectives:
1. Current rates and trends, and an opportunity to discuss differences/similarities seen across the world and contributing factors for these differences
2. Opportunity to meet those involved in well-established registers and new and emerging registers primarily from low and middle income countries
3. Discuss barriers to maintaining registers; new data points for registers to consider; impact of CP Registers and measuring their impact

**PC4 - THE ICF IN A GLOBAL CONTEXT: TOWARDS A SYSTEMATIC ADOPTION ACROSS SETTINGS THROUGHOUT THE LIFESPAN**
Verónica Schiariti, PhD; Jerome Bickenbach; Rune Simeonsson, PhD, MSPH; Jen Lyman, MS

Location: Marquis Northwest

Learning Objectives:
1. Participants will apply the ICF framework to guide and lead case scenarios involving children and young adults with chronic health conditions and/or disabilities.
2. Participants will review the pediatric ICF educational e-tool and utilize it as a teaching tool to serve as a model for educating learners at the participant’s practices and institutions
3. Participants will discuss and develop strategies to incorporate the ICF to build capacity and set functional goals in different settings, promoting a functional-based approach.
4. Participants will identify key leaders and team members and identify their unique and complementary roles in the adoption, teaching, and implementation of the ICF in their communities, practices and institutions.

**PC5 - HAMMERSMITH INFANT NEUROLOGICAL EXAMINATION CLINICAL WORKSHOP**
Nathalie Maitre, MD; Rachel Byrne, BA; Joanne M. George, PhD; Mary Ann Nelin, MD; Sai Ayers

Location: Platinum 1

Learning Objectives:
1. Discuss the uses and limitations of the HINE
2. Utilize optimality scores and cut-off to aid in clinical practice
3. Perform the elements of the HINE at a basic level of proficiency
4. Score HINE elements with 90% reliability

**Scholarship Meet and Greet**
Wednesday, September 18, 2019: 6:30pm – 8:00pm
Welcome Reception at the Grand Plaza

Photo Courtesy of Visit Anaheim and the Anaheim Marriott
Thursday, September 19, 2019: 7:00am – 8:00am

Breakfast Seminars 1-10

**BRK01 - ADDRESSING INEQUITIES IN HEALTH OUTCOMES FOR CHILDREN WITH CEREBRAL PALSY ACROSS THE WORLD.**

Sue Woolfenden, MBBS MPH FRACP PhD; Maryam Oskoui, MDCM, FRCP, MSc, FAAN; Kate Milner, MBBS MPH FRACP; Gulam Khandaker, MBBS, DCH, MPH, PhD, FAFPHM

Location: Platinum I

Learning Objectives:
1. Define what a health inequity is
2. Describe current health inequities for children with cerebral palsy in high, low and middle income countries including Australia, Canada and Bangladesh
3. Demonstrate an understanding of research to policy and practice gaps and opportunities to address the health inequities experienced by children with cerebral palsy worldwide
4. Join a collaborative global alliance formed with the specific purpose to advocate, conduct research and change practice in order to reduce inequities in health for children with cerebral palsy

**BRK02 - COGNITION IN CHILDREN WITH CEREBRAL PALSY**

Ann I. Alriksson-Schmidt, PhD; Kristine Stadsklev, PhD; Marit Helene Gullien

Location: Marquis Northeast

Learning Objectives
1. Describe the importance of cognition in CP.
2. Describe why it is important that cognition is assessed in individuals with CP.
3. Describe how hospitals and user organizations can collaborate to further knowledge about cognitive functioning in children with CP to parents and kindergartens/schools.
4. Describe how a systematic program to assess cognition in this population has been implemented, and what the results are thus far.

**BRK03 - POSTURE AND MOBILITY INTERVENTION FOR INFANTS AND TODDLERS**

Ginny Paleg, DScPT; Elisabet Rodby-Bousquet, PT, PhD

Location: Platinum 2

Learning Objectives:
1. Identify posture and mobility trajectories of infants and toddlers with CP.
2. Design an evidence based intervention to address posture and mobility impairments and limitations.
3. Implement three evidence based interventions to address posture and mobility impairments and limitations.
4. Use three valid and reliable outcome measures for posture and mobility.

**BRK04 - ENGAGEMENT OF FATHERS: REFLECTIONS ON LESSONS LEARNED FROM PARENT GROUP INTERVENTIONS FOR CHILDREN WITH COMPLEX MULTIPLE IMPAIRMENTS**

Tracey Smythe, MPH, PhD; David A. Achuroa, MA Anthropology in Development Studies; Rachel D. Linoedwood, BMedSci, BMBS, MSc Paediatric Neurodisability

Location: Elite 1

Learning Objectives:
1. Understand a framework to assess effective engagement of fathers in health care
2. Identify challenges and opportunities to engage fathers in parent group interventions
3. Interpret and apply principles from international practice to their own context in order to improve the engagement of fathers
4. Recognise new avenues of engaging fathers in their interactions with children, families, and other health professionals

**BRK05 - ENVISIONING THE F-WORDS FOR CHILDREN WITH CEREBRAL PALSY OF GROSS MOTOR FUNCTION CLASSIFICATION SYSTEM LEVELS IV AND V.**

Cindy B. Dodds, PT, PhD; Gina R. Rempel, MD, FRCP; Holly Roach, OTR, ATP

Location: Grand Ballroom AB

Learning Objectives:
1. List and describe the F-words in childhood disability and environmental factors for promoting participation in children with cerebral palsy (levels IV and V).
2. Understand evidence, global perspectives, and operational definitions of the F-words in the context of children with CP of GMFCS levels IV and V.
3. Translate F-words knowledge into practical applications across global home and community settings for children with CP of GMFCS levels IV and V.
4. Discuss environmental strategies for supporting F-word participation of children with CP of GMFCS levels IV and V across a variety of settings.

**BRK06 - POSTOPERATIVE URINARY RETENTION IN CHILDREN WITH CEREBRAL PALSY UNDERGOING MUSCULOSKELETAL SURGERY: PREVALENCE, RISK FACTORS AND MANAGEMENT.**

Mohan Belthur, MD; Jon R. Davids, MD; Loren Davidson, MD

Location: Elite 2

Learning Objectives:
1. Describe the pathophysiology of urinary dysfunction in children with cerebral palsy.
2. Describe the prevalence rate of POUR in children with CP undergoing elective orthopedic surgery.
3. List the patient and surgery specific risk factors associated with POUR.
4. Describe the management of POUR and discuss development and implementation of one management protocol for POUR.
BRK07 - MULTI-DISCIPLINARY SCHOOL-BASED CLINICS FOR CHILDREN WITH CEREBRAL PALSY: AN INTERNATIONAL DISCUSSION
Wade Shrader, MD; Daniel M. Weigl, MD; Laura Owens, MD; Laura M. Boyd, MSW, LSW
Location: Elite 3

Learning Objectives:
1. Identify the components of a successful multi-disciplinary orthopedic clinic in the setting of a school designed for children with special health care needs.
2. Discuss international differences in school-based models for the education of children with CP.
3. To recognize how differences in models and home-countries impact health-care delivery in the context of the school system.
4. Understand the current level of evidence supporting improved clinical outcomes and care coordination when using an integrated school-clinic model in the care of children with CP.

BRK08 - PERIOPERATIVE ANESTHESIA/SURGICAL COLLABORATION: WORKING TOGETHER TO MAXIMIZE OUTCOMES AND ENHANCE THE PATIENT/FAMILY SURGICAL EXPERIENCE
Francisco Valencia, MD; Peter Lichtenthal, MD; Paul Samuels, MD
Location: Orange County 2

Learning Objectives:
1. Develop a better understanding of co-morbidities and their impact on perioperative anesthetetic/surgical management.
2. Identify factors that can used to decrease perioperative complications, including blood conservation.
3. Promote the use of regional pain management strategies which can diminish the postoperative need for for narcotics and enhance the patient and family surgical experience.
4. Promote the perioperative team approach for children with special needs.

BRK09 - PROMOTING PHYSICAL ACTIVITY AND REDUCING SEDENTARY BEHAVIOUR IN INDIVIDUALS WITH CEREBRAL PALSY OVER THE LIFECOURSE THROUGH THE DEVELOPMENT OF AN AACPDM CARE PATHWAY
Jan Willem Gorter, MD PhD; Julia (Shi-Peng) Xiong, BHS; Patrick McPhee, PhD; Sarah E. Reedman, PhD, BPhy (Hons)
Location: Orange County 1

Learning Objectives:
1. Learn current PA promotion strategies and understand the importance of targeting PA participation and reducing sedentary behavior.
2. Understand the AACPDM Care Pathway development process.
3. Learn and discuss assessment criteria of baseline PA levels and decision-points for making PA management plans, based on empirical evidence, end-user experiences, and opinions from an international, multidisciplinary expert team.
4. Relate the Care Pathway development process to the attendees’ own expertise.

BRK10 - TELEREHABILITATION: NEW MODELS FOR INFANTS, CHILDREN AND ADOLESCENTS WITH CEREBRAL PALSY
Francesca Tinelli, PhD; Giuseppina Sgandurra, MD, PhD; Giovanni Cioni, MD
Location: Platinum 3

Learning Objectives:
1. Describe the known literature about telerehabilitation during developmental age. Upon completion, participant will be able to know recent literature on this topic.
2. Demonstrate the efficacy of telerehabilitation also in developmental age. Upon completion, participant will be able to know new technologies useful for rehabilitation.
3. Describe CARETOY and demonstrate its efficacy. Upon completion, participant will be able to know the mechanisms of this new system.
4. Describe AVDESK and demonstrate its efficacy. Upon completion, participant will be able to know to which subjects this rehabilitation program is addressed.

Thursday, September 19, 2019: 7:00 AM - 8:00 AM
Debate/Current Controversies

CC01 - ABILITIES-ORIENTED APPROACH TOWARDS DISABILITY: RESEARCH AND CLINICAL PROJECTS MODELLING A POSITIVE LANGUAGE
Verónica Schiariti, PhD; Anne Berndl, MD, MSc, FRCSC; Hayley Lipworth, BScH, BEd
Location: Orange County 3

Learning Objectives:
1. To introduce research initiatives highlighting an abilities-oriented approach to disability service provision.
2. To demonstrate the impact of creating positive clinical programs for pregnant women living with a chronic health conditions or disabilities.
3. To describe vocational rehabilitation programs empowering individuals with disabilities to live independently.
4. To promote collaboration between professionals working with pediatric and young adult populations facilitating successful transition to adult care.
**Thursday, September 19, 2019: 7:00 AM - 8:00 AM**

**Focused Symposia**

**SYMP01 - BUILDING ACADEMIES IN LOW RESOURCE SETTINGS: CHALLENGES AND OPPORTUNITIES**
Robert W. Armstrong, MD PhD; Hans Forssberg, MD; Pauline W. Samia, MPhil Paediatric Neurology; Peter L. Rosenbaum, MD CM FRCP; Bernard Dan, MD PhD

Location: Orange County 4

Learning Objectives:
1. Demonstrate a good understanding of the value and contribution that IAACD can make to development of national or regional academies, particularly in low resource settings.
2. Identify and be able to address challenges that professionals face in setting up new academies in low resource settings.
3. Describe the importance of context-specific research in impacting practice and policy and the strategies for developing this capacity in low resource settings.
4. Identify ways in which low resource countries can contribute to the global literature on child disability.

**SYMP02 - EVIDENCE-INFORMED CARE PATHWAYS AND CLINICAL PRACTICE GUIDELINES FOR CHILDHOOD-ONSET DISABILITIES: PERSPECTIVES ON THEIR USEFULNESS FROM STAKEHOLDERS, CLINICIANS, HEALTH CARE ADMINISTRATORS, AND RESEARCH METHODOLOGISTS**
Darcy L. Fehlings, MD; Laurie Glader, MD; Maureen O'Donnell, MD MSC FRCP; Michele Shusterman; Iona Novak, PhD

Location: Grand Ballroom CD

Learning Objectives:
1. Upon completion, participants will have an understanding of the definitions of Care Pathways and Clinical Practice Guideline (CPG) and find websites where they can be accessed.
2. Upon completion, participants will be able to highlight how Care Pathways/CPGs for Childhood Onset Disabilities(COD) can shape care and services for Childhood Onset Disabilities within the ICF Framework.
3. Upon completion, participant will be able to explore and discuss the potential and relevance of Care Pathways/CPG to inform care at an international level inclusive of lower-middle income countries.
4. Upon completion, participants will be able to discuss differing views on the usefulness of Care Pathways/CPG to enhance evidence informed care for Childhood Onset Disabilities.

**SYMP03 - SMALL COHORT INTERVENTIONS SUPPORT THE USE OF NATIONAL, MULTICENTRE, COLLABORATIVE CLINICAL ADVISORY GROUPS: THE AUSTRALIAN EXPERIENCE OF SDR, ITB AND DBS**
Adam Scheinberg, MBBS, FRACP, FAFRM, MMED; Kirsty Stewart, PhD; Simon P. Paget, MA (Cantab), MBBS MRCPCH(UK), FAFRM, FRACP; Jordan Sherika, BSc (Hons), MD; Lisa Copeland, MBBS, FAFRM, FRACP

Location: Brand Ballroom GH

Learning Objectives:
1. Upon completion, participants will have an understanding of the current state of the evidence around paediatric ITB, SDR and DBS.
2. Upon completion, participants will have an understanding of approaches in developing ITB, SDR and DBS collaborative clinical research groups.
3. Upon completion, participants will have a comprehensive overview of outcome measures, representing all domains of the ICF, that can be utilised for ITB, SDR and DBS intervention.
4. Upon completion, participants will be able to determine the benefits of collaborative research groups for specialist interventions: knowledge translation; pooling of outcome data: adverse event reporting and outcomes.

**SYMP04 - SPASTIC MUSCLE IN CEREBRAL PALSY: CONTRACTURE, BOTULINUM TOXIN A, AND FUTURE DIRECTIONS**
Jason J. Howard, BEng, MD, FRCSC; Kerr Graham, MD, MD, FRCS (Ed), FRACS; Tandy Hastings-Ison, PhD, BAppSci(Physio); Walter Herzog, PhD

Location: Marquis Northwest

Learning Objectives:
1. To understand the pathophysiology of spastic muscle contractures in CP.
2. To synthesize and interpret the best evidence regarding the functional outcomes of spastic muscle contractures treated with BoNT-A in children with CP.
3. To synthesize and interpret the pertinent animal and human studies investigating the impact of BoNT-A on skeletal muscle.
4. Based on the best available basic science/clinical evidence, to consider revised recommendations and changes to protocols regarding the use of BoNT-A in CP.
THURSDAY, September 19, 2019 - 10:45am – 12:30pm
FREE PAPER SESSION
A. Genetics/Epidemiology
Location: Marquis Northeast

10:45 am – 10:52 am –
A1. CURRENT PHYSICIAN REFERRAL PRACTICES FOR DIAGNOSIS AND REHABILITATION FOR CHILDREN SUSPECTED OF HAVING CEREBRAL PALSY: A NATIONAL ENVIRONMENTAL SCAN
Zachary Boychuck, OT, PhD(c); John Andersen, MD; Darcy L. Fehlings, MD; Adam Kirkton, MD MSc FRCP; Maryam Oskoui, MDCM, FRCP, MSc, FAAN; Michael Shevell, MDCM, FRCP, FCAHS; Annette Majnemer, PhD, OT

10:53 am – 11:00 am –
A2. CAN SHIFTS IN GMFCS-SPECIFIC CP-INCIDENCE MIRROR CHANGES IN PERINATAL CARE?
Ann I. Alriksson-Schmidt, PhD; Lena Westbom, PhD; Gunnar Hägglund, PhD; Philippe Wagner, PhD

11:01 am – 11:08 am –
A3. A COMPREHENSIVE INVESTIGATION OF MAJOR CONGENITAL ANOMALIES IN CHILDREN WITH POST-NEONATALLY ACQUIRED CEREBRAL PALSY: AN INTERNATIONAL DATA LINKAGE STUDY
Magnus Pålhm, MD; Kate Himmelmann, MD, PhD

11:09 am – 11:16 am –
A4. ASSOCIATED IMPAIRMENTS INCREASED FROM PRESCHOOL AGE TO SCHOOL AGE IN A POPULATION-BASED STUDY OF CHILDREN WITH CEREBRAL PALSY

11:30 am – 11:37 am –
A5. PREDICTION OF COGNITIVE AND MOTOR OUTCOME OF PRETERM INFANTS FROM DIFFUSION MR BRAIN IMAGES USING A DEEP LEARNING CONVOLUTIONAL NEURAL NETWORK (CNN) MODEL
Roselyn N. Boyd, PhD, BAppSc (PT), BSc (Anatomy), PGrad (Biomech); Iona Novak, PhD; Michael Fahey, Phd, MD; Catherine Elliott, PhD

11:38 am – 11:45 am –
A6. EXPANDING THE GENETIC SPECTRUM OF CEREBRAL PALSY: TRIO WHOLE GENOME SEQUENCING OF 38 FAMILIES IDENTIFIES GENETIC CAUSES IN 18 DIFFERENT GENES
Kishore Mulipuri, MBBS, MS, MHS; Madeline Couse, MS; Colleen Guimond, MSc; Patricia Birch, MSc RN; Elisa Lau, BS; Nicole S. Liang, Bachelor of Science; Gabriella A. Horvath, MD, PhD; Suivna To, MS; Clara van Karnebeek, MD, PhD; Anna Lehman, FRCP; Jan Friedman, MD, PhD

Program and Events
THURSDAY

Program and Events
THURSDAY

SYMP05 - THE AUSTRALASIAN CEREBRAL PALSY CLINICAL TRIALS NETWORK A MODEL FOR INTERNATIONAL COLLABORATION
Roslyn N. Boyd, PhD, BAppSc (PT), BSc (Anatomy), PGrad (Biomech); Iona Novak, PhD; Michael Fahey, Phd, MD; Catherine Elliott, PhD

Location: Grand Ballroom JK

Learning Objectives:
1: Understand the key components of developing a collaborative national Cerebral Palsy Clinical Trials Network and it is informed by consumer engagement.
2: Be informed on a translational pipeline of preclinical to clinical research.
3: Understand how to set up collaborative multisite national clinical trials to test current and develop new interventions to improve outcomes for children with Cerebral Palsy.
4: Be informed on methods to generate knowledge translation from research into clinical practice through implementation trials and development of international clinical practice guidelines.

7:00 am - 8:00 am
Advisor Meet & Greet
Location: Grand Ballroom EF

Thursday, September 19, 2019 8:15am - 10:15am
OPENING GENERAL SESSION
General Session Moderator: Mauricio R. Delgado, MD
Location: Platinum 5-10

Opening Address and Exchange of Gavel
Jilda Vargus-Adams, MD, MSc to Mauricio R. Delgado, MD

IAACD Update
Hans Forssberg, MD

The AACPDM in Historical Perspective - From Physician Discussion Group to Multi-Discipline International Organization
Alfred L. Scherzer, MD, EdD, FAAP

Presidential Guest Lecture
ICF-CY: Added Value for Developmental Practice?
Rune Simeonsson, PhD, MSPH

Presidential Guest Lecture
Redefining Cerebral Palsy as a Genetic, Neurodevelopmental Spectrum Disorder
Jozef Gécz, PhD

10:15am - 10:45am
Get Up and Move - Yoga
#Getupandmove
Instructor: Jennifer Lyman
Location: Platinum Foyer

Activity Description: Yoga postures will work on balance, strength, and flexibility. A great way to focus and refresh your mind and body and start the morning off right!
### Program and Events

**THURSDAY**

#### 11:46 am – 11:53 am –
**A7. GENETIC VARIATION ASSOCIATED WITH DIMINISHED DOPAMINE NEUROTRANSMISSION PREDICTS DELAY IN MOTOR DEVELOPMENT IN EXTREMELY LOW BIRTH WEIGHT INFANTS.**
Gordon Worley, MD; Stephen Erickson, PhD; Kathryn Gustafson, PhD; Yuliya Nikolaeva, PhD; Daniel Belsky, PhD; Ricki Goldstein, MD; Joshua Levy, PhD; Scott McDonald, PhD; Greer Page, PhD; Allison Ashley-Koch, PhD; Michael Cotten, MD

#### 11:54 am – 12:01 pm –
**A8. INTRAUTERINE DRUG EXPOSURE (IUDE) AS A RISK FACTOR FOR CP**
Jessica Purnell, BS; Nancy Batterson, OT/L, SCFES; Dennis Lewandowski, PhD; Katelyn D. Levengood, DPT; Megan Lightfoot, Bachelor’s; Kristen Benninger, MD; Mary Lauren M. Neel, MD; Julia Less, MPH; Stephanie Burkhardt, MPH; Brianna Sowers; Nathalie Maitre, MD

#### 12:02 pm – 12:09 pm –
**A9. ETIOLOGY OF DYSKINETIC CEREBRAL PALSY IN JAPAN AND ITS RELATIONSHIP TO FUNCTIONAL OUTCOMES**
Yukihiro Kitai, MD; Satoro Hirai, MD; Kaeko Ogura, MD; Naomi Okuyama, MD; Mika Hirotsune, MD; Satoshi Mizutani, MD; Hiroshi Arai, MD

#### 12:10 pm – 12:17 pm –
**A10. EPILEPSY PREVALENCE, TREATMENT AND INTRACTABILITY IN THE CEREBRAL PALSY RESEARCH NETWORK COHORT**
Adam Ostendorf, MD; Lindsey Morgan, MD; Erin Fedak Romanowski, DO; Erika A xen, MD; Krista Eschbach, MD; Howard P. Goodkin, MD PhD; Paul Gross, BA

**B. Motion Analysis/Gait**
Location: Marquis Northwest

#### 10:45 am – 10:52 am –
**B1. CLASSIFICATIONS OF MOTOR LEVEL IN MYELOMENINGOCELE: ARE THEY INDICATIVE OF AMBULATORY FUNCTION?**
Susan Rethlefsen, DPT; Nicole Mueske, MS; Tishya Wren, PhD

#### 10:53 am – 11:00 am –
**B2. LOWER EXTREMITY STRENGTH AND CONTRACTURES AS DETERMINANTS OF WALKING ACTIVITY IN CHILDREN AND ADOLESCENTS WITH MYELOMENINGOCELE**
Brett Lullo, MD; Nicole Mueske, MS; Carmel Diamant, BS; Alexander Van Speybroeck, MD; Deirdre Ryan, MD; Tishya Wren, PhD

#### 11:01 am – 11:08 am –
**B3. INDICATIONS, BENEFITS AND POTENTIAL SHORTCOMINGS OF LOWER LIMB ORTHOSES IN THE MANAGEMENT OF CHILDREN WITH HYTONIA: CLINICAL PRACTICE GUIDELINES**
Phillip M. Stevens, MEd, CPO; Thomas DiBello, CO, FAAP

#### 11:09 am – 11:16 am –
**B4. STRENGTH, MOTOR COMPETENCE AND PHYSICAL ACTIVITY IN VERY PRETERM AND TERM-BORN PRESCHOOL AGE CHILDREN**
Tara L. FitzGerald, BPhysio(Hons); Jennifer McGinley, PhD; Jeanie Cheong, MD; Lex Doyle, MD; Alicia Spittle, PhD

#### 11:30 am – 11:37 am –
**B5. WALKING SPEED IN CHARCOT-MARIE-TOOTH DISEASE: IMPLICATIONS OF DISEASE PROGRESSION DURING CHILDHOOD AND ADOLESCENCE**
Sylvia Ounpuu, MSc; Tishya Wren, PhD; Kristian Pierz, MD; Gyula Acsadi, MD, PhD

#### 11:38 am – 11:45 am –
**B6. CHANGES AT KINEMATICS PARAMETERS AFTER SINGLE-EVENT MULTILEVEL SURGERY IN CEREBRAL PALSY: WHAT DO EXPECT AT SPECIFIC LOWER LIMBS JOINTS AND SEGMENTS?**
Mauro C. de Morais Filho, MD, MSc, PhD; Francesco Blumetti, MD, MSc, PhD; Cátia Kawamura, PT; Kamila Freitas, MD; Marcelo H Fujino, MD; José Augusto Lopes, MSc; Daniella Neves, MD

#### 11:46 am – 11:53 am –
**B7. ALTERED SYNERGIES CAN PREVENT AN UNIMPAIRED WALKING PATTERN**
Katherine M. Steele, PhD; Naser Mehrabi, PhD; Michael H. Schwartz, BS, MS, PhD

#### 11:54 am – 12:01 pm –
**B8. EVALUATING THE VALIDITY OF A PROMIS DEPRESSION DOMAIN IN PATIENTS WITH CEREBRAL PALSY AND IDENTIFICATION OF AT-RISK PATIENTS**
Hiroko Matsumoto, PhD; Gerard F. Marciano, BS; Heakyung Kim, MD; David Ro ye, MD; Joshua Hyman, MD

#### 12:02 pm – 12:09 pm –
**B9. ABERRANT BETA SENSORIMOTOR CORTICAL OSCILLATIONS ARE RELATED WITH THE ALTERED GAIT KINEMATICS SEEN IN ADOLESCENTS WITH CEREBRAL PALSY**
James E. Gehringer, B.S.; Rashelle Hoffman, DPT; Sarah E. Baker, MS; Tony Wilson, PhD; Max Kurz, PhD

#### 12:10 pm – 12:17 pm –
**B10. RISK FACTORS FOR ACCURATE CEREBRAL PALSY GAIT EVALUATION WITH EDINBURGH VISUAL GAIT SCORE**
Sabina Brazevic, MS; Marek Jóźwiak, MD; Anna Krzyżania, PT; Joanna Kraśny, MD; Magdalena Ratajczyk, MD; Aleksandra Sadecka, MD
Program and Events

THURSDAY

C. Global/ICF/Surveillance
Location: Platinum 2
10:45 am – 10:52 am –
C1. HOW CAN DATA FROM THE SURVEILLANCE OF CEREBRAL PALSY IN EUROPE BE USEFUL FOR SUPPORTING HEALTH POLICIES?
Sandra J. Hollung, MSc; Monica Lanzoni, PhD; Malika Delobel, MD; Virginie Ehlinger, MSc; Agnieszka Kinsner-Ovaskainen, MD, PhD; Kate Himmelmann, MD, PhD; Mary Jane Platt, MBBS, MPH, MD; Catherine Arnaud, MD, PhD

10:53 am – 11:00 am –
C2. CEREBRAL PALSY IN TERM BORN INFANTS HAS DECLINED: FINDINGS FROM THE AUSTRALIAN CEREBRAL PALSY REGISTER 1995-2012
Sarah McIntyre, BAppSc(OT)Hons, MPS, PhD; Hayley J. Smithers-Sheedy, BA, BAppSc(SpPath), MPH, PhD; Emma Waight, BA; Claire Galea, MEpi; B.Ed; Linda Watson; Sue Reid, PhD; Nadia Badawi, PhD, FRACP, FRCP; MSc; Michael De Lacy; Catherine S. Gibson, PhD; Heather Scott, BMgmt; Kirsty Bartlett-Clark; Eliza Maloney; Sue Reid, PhD; MD BSc FRACP FAFRM; Shona Goldsmith, BPhy(Hons); Claire Galea, MEpi; B.Ed; Eve Blair, PhD; Linda Watson

11:01 am – 11:08 am –
C3. CEREBRAL PALSY AND COMORBIDITIES, A NATIONAL REGISTRY STUDY IN NORWAY
Sandra J. Hollung, MSc; Inger Johanne Bakken, PhD; Torstein Vik, PhD; Robert Wiik, MA; Stian Lydersen, PhD; Guro L. Andersen, PhD

11:30 am – 11:37 am –
C5. EARLY FUNCTIONAL MOTOR PROFILE OF INFANTS AT HIGH RISK OF CEREBRAL PALSY IN A LOW-MIDDLE INCOME COUNTRY
Sayak Chowdhury, MPT; Roslyn N. Boyd, PhD; BA, BAppSc (PT); BSc, PGrad; Asis Kumar Ghosh, MPT, BPT; Katherine Benfer, PhD, MPH, BSpPath

11:38 am – 11:45 am –
C6. ACUTE AND CHRONIC PAIN IN CHILDREN AND ADOLESCENTS WITH CEREBRAL PALSY: PREVALENCE, INTERFERENCE AND MANAGEMENT
Katarina Ostojić, BSc, MPh; Simon P. Paget, MA (Cantab), MBBS MRCPECH(UK), FAARM, FRACP; Maria Kyriagis, MBBS, FRACP, FAARM; Angela M. Morrow, MRCPI, FRACP, FAFRM; PhD

11:46 am – 11:53 am –
C7. FREQUENCY AND NATURE OF COMORBID DIAGNOSES IN CHILDREN WITH CEREBRAL PALSY: A REGISTER-BASED STUDY
Karen McConnell, BSc (Hons), PhD; Josephine Egbon, BSc (Hons); Oliver Perra, BSc (Hons), PhD; Claire Kerr, BSc (Hons), PhD

11:53 am – 12:00 pm –
C8. EPILEPSY IN CHILDREN WITH CEREBRAL PALSY ASSOCIATED WITH CONGENITAL ZIKA VIRUS INFECTION
Alessandra L. Carvalho, MD; Paloma Ventura, BS; Adriana Fernandes, BS; Carlos Brites, PhD; Rita Lucena, PhD

12:01 pm – 12:08 pm –
Emma Waight, BA; Hayley J. Smithers-Sheedy, BAppSc(SpPath), MPH, PhD; Sarah McIntyre, BAppSc(OT)Hons, MPS, PhD; Nadia Badawi, PhD, FRACP, FRCP; MSc; Michael De Lacy; Catherine S. Gibson, PhD; Heather Scott, BMgmt; Kirsty Bartlett-Clark; Eliza Maloney; Sue Reid, PhD; MD BSc FRACP FAFRM; Shona Goldsmith, BPhy(Hons); Claire Galea, MEpi; B.Ed; Eve Blair, PhD; Linda Watson

12:09 pm – 12:16 pm –
Hayley J. Smithers-Sheedy, BA, BAppSc(SpPath), MPH, PhD; Sarah McIntyre, BAppSc(OT)Hons, MPS, PhD; Emma Waight, BA; Linda Watson; Nadia Badawi, PhD, FRACP, FRCP; MSc; Sue Reid, PhD; MSc; Catherine S. Gibson, PhD; Claire Galea, MEpi; B.Ed; Michael De Lacy; Heather Scott, BMgmt; Kirsty Bartlett-Clark; Eliza Maloney; Dinah S. Reddihough, MD BSc FRACP FAFRM; Shona Goldsmith, BPhy(Hons); Eve Blair, PhD

D. Participation
Location: Platinum 3
10:45 am – 10:52 am –
D1. AN EXAMINATION OF THE FACTORS THAT INFLUENCE PARTICIPATION IN SOCIAL ACTIVITIES AND ACTIVITIES OF DAILY LIVING (ADLS), FOR YOUNG PEOPLE WITH CEREBRAL PALSY (CP)
Grace Lavelle, PhD; Marika Noorkoiv, PhD; Nicola Theis, PhD; Jennifer Ryan, PhD

10:53 am – 11:00 am –
D2. LONG-TERM FOLLOW-UP STUDY ON LEVEL OF ACTIVITY, PARTICIPATION AND SATISFACTION IN ADULTS WITH CEREBRAL PALSY AND SPASTIC DIPLEGIA
Maaike M. Eken, PhD; Robert Lamberts, Prof.; Jacques du Toit, MBChB(Stell), FC Orth(SA), MScClinEpi; Nelleke Langerak, PhD

11:01 am – 11:08 am –
D3. DEVELOPMENT CURVES OF COMMUNICATION AND SOCIAL INTERACTIONS OF INDIVIDUALS WITH CEREBRAL PALSY
Marloes van Gorp, MSc; Siok Swan Tan, PhD; Jeanine M. Voorman, MD; Johanna J. Geytenbeek, PhD; Heleen A. Reinders-Messelin, PhD; Marjolijn Ketelaar, PhD; Annet J. Dalmeijer, PhD; Marij E. Roebroeck, PhD

11:09 am – 11:16 am –
D4. DEVELOPING AN INTERVENTION TO SUPPORT PARTICIPATION IN LEISURE OF CHILDREN AND YOUNG PEOPLE WITH NEURODISABILITY
Jennifer McAnuff, MSc; Tim Rapley, PhD; Allan Colver, PhD; Niina Kolehmainen, PhD
Program and Events

Thursday, September 19, 2019: 10:45 AM - 12:15 PM

Focused Symposia

**SYMP06 - COLLABORATIVE STRATEGIES FOR IMPROVING EVIDENCE BASED PRACTICE IN DEVELOPING COUNTRIES**
Marcia Greenberg, MS, PT; Perth Rosen, MA; Abhay Khot, MBBS, FRACS; Alaric Aroojis, MS, D’Ortho, DNB; Oleksandra Kalandyak, BS

Location: Orange County 2

Learning Objectives:
1: Describe strategies implemented in developing countries to provide wheeled mobility and build local capacities to insure continued clinical service and maintenance of equipment.
2: Describe strategies implemented in Ukraine to teach evidence-based physical therapy practice and train local clinicians to insure sustainability.
3: Describe a collaborative program between Australia and India to provide training in the assessment and treatment of gait deformities in children with cerebral palsy.
4: Describe problems and solutions used by clinicians from various developing countries to address the needs of children with developmental disabilities and their families.

**SYMP07 - USING IMPLEMENTATION SCIENCE TO ACCELERATE THE ADOPTION OF EVIDENCE-BASED PRACTICES RELATED TO RESISTANCE TRAINING IN CEREBRAL PALSY (CP)**
Nicole Harris, MPT, PCS, BOCO; Noelle G. Moreau, PhD, PT; Michelle Roy, BScPT; James B. Hedgecock, PT, DPT, PCS; Matthew Prowse, MD, FRCPc

Location: Orange County 1

Learning Objectives:
1: Evaluate recent evidence regarding the effects of resistance training for children with CP across the ICF.
2: Integrate the knowledge of dosing parameters from evidence-based research with clinical expertise for practical application for patients with CP and other neuromotor diagnoses.
3: Evaluate the success of current resistance training programs after presentation of case studies and combined data of participants.
4: Identify how Implementation Science can be used to accelerate the adoption of evidence-based resistance training at a rehabilitation center or hospital.

11:30 am – 11:37 am –

**D5. POTENTIAL PREDICTORS FOR PARTICIPATION IN VARIOUS AREAS IN PRESCHOOL CHILDREN WITH CEREBRAL PALSY: A FOLLOW-UP STUDY**
Chia-Ling Chen, MD, PhD; Chia-Hui Chen, MS; Chia-Ying Chung, MD; Katie P. Wu, MD; Yi-ting Hsiao, PhD; Hsieh-Ching Chen, PhD

11:38 am – 11:45 am –

**D6. INCREASING PHYSICAL ACTIVITY IN YOUTH WITH PHYSICAL DISABILITIES VIA A SUMMER CAMP PROVIDING EXPOSURE TO ADAPTED SPORTS AND RECREATION PROGRAMS**
Elizabeth G. Condliffe, PhD, MD; Shane Esau, M.Kin.; Leticia Janzen, MSc; Elysia F. Sandron, BS; Gregor Kuntze, PhD; Carolyn A. Emery

11:46 am – 11:53 am –

**D7. A RANDOMIZED CONTROLLED TRIAL OF A NOVEL TASK-SPECIFIC APPROACH FOR ATTAINING TWO-WHEEL BIKE RIDING GOALS IN CHILDREN WITH CEREBRAL PALSY**
Rachel A. Toovey, PT; Adrienne Harvey, PhD; Jennifer McGinley, PhD; Katherine Lee, PhD; Sophy T. Shih, PhD; Alicia Spittle, PhD

11:54 am – 12:01 pm –

**D8. LET’S RIDE A BIKE! PILOT RANDOMIZED CONTROLLED TRIAL OF FUNCTIONAL ELECTRICAL STIMULATION CYCLING AND ADAPTED CYCLING IN CHILDREN WITH CEREBRAL PALSY.**
Ellen L. Armstrong, MPT, MSc (APA), BESc; Megan J. Kentish, B.Phty; Roslyn N. Boyd, PhD, BAppSc (PT), BSc, PGrad; Sean A. Horan, BESc, MPhy, PhD; Christopher Carty, PhD

12:02 pm – 12:09 pm –

**D9. PARTICIPATION AND LIFE SATISFACTION IN YOUNG ADULTS WITH CEREBRAL PALSY**
Nancy Lennon, MS, PT; Chris Church, MPT; Wade Shrader, MD; Faithe R. Kalisperis, DPT; Allison Wickham, BS; John Henley, PhD; Tim Niiler, PhD; Freeman Miller, MD

12:10 pm – 12:17 pm –

**D10. INTRINSIC MOTIVATION FOR PHYSICAL ACTIVITY PARTICIPATION PREDICTS RESPONSE TO A PARTICIPATION-FOCUSED THERAPY INTERVENTION IN CHILDREN WITH CEREBRAL PALSY**
Sarah E. Reedman, PhD, RPhty (Hons); Jenny Ziviani, OT; Roslyn N. Boyd, PhD, BAppSc (PT), BSc (Anatomy), PGrad (Biomech); Leanne Sakzewski, PhD, B0ccThy
**SYMP08 - ETIOLOGY, DIAGNOSIS AND TREATMENT OF CEREBRAL PALSY IN HIGH INCOME VS LOW/MIDDLE INCOME COUNTRIES - KNOWLEDGE ACROSS BORDERS**
Annemieke I. Buizer, MD PhD; Shaheen Akhter, MD; Laura A. van de Pol, MD, PhD; R. Jeroen Vermeulen, MD, PhD; Nelleke G. Langerak, PhD

Location: Grand Ballroom AB

Learning Objectives:
1. Discern how environmental factors, like attitudes and available equipment influence goal setting and treatment options for CP in high vs low/middle income countries.
2. Describe differences in etiology of CP in high and low resource settings around the world.
3. Describe the environmental factors in their setting, that determine possibilities and limitations for their own practice in diagnosing and treating children with CP.
4. Participants will have learnt from evidence and experience in other settings (differences as well as similarities), some pointers to improve their own practice for children with CP.

**SYMP09 - GLOBAL INITIATIVES IMPROVING LIFE CONDITIONS FOR CHILDREN WITH DEVELOPMENTAL DISABILITIES**
Hans Forssberg, MD; Diane Damiano, MD; Raoul Berjemo, MD; Chiara Servili, MD; Alarcos Cieza

Location: Orange County 3

Learning Objectives:
1. Understand the global situation for children with developmental disability.
2. Understand the UNICEF- Early detection and intervention systems approach.
3. Understand the WHO initiative for parent skill training.
4. Understand the WHO Package for Rehabilitation Intervention project.

**SYMP10 - ISSUES AND CHALLENGES IN GLOBALLY ADAPTING MEASURES OF CHILDREN’S PARTICIPATION AND ENVIRONMENT**
Roopa Srinivasan, DNB (Pediatrics); Dana Anaby, PhD; Mary A. Khetani, ScD; Rachel Teplicky, MSc

Location: Elite 1

Learning Objectives:
1. Participants will learn about the key components of Participation and Environment Measures and their various uses in both research and clinical practice
2. Participants will learn how results of PEM measures can be interpreted. inform practice across cultures at the micro (child/youth), meso (family, school, program evaluation) and macro (re-shaping policies) levels
3. Participants will learn the process for adapting and validating the tool in different settings
4. Participants will learn possible challenges of using the measures in different contexts and cultures (especially low and middle income countries) and ways to mitigate them.

**SYMP11 - ROBOTICS FOR TRAINING OF BALANCE, POSTURE, AND GAIT: EMERGING TECHNOLOGIES, POSSIBILITIES AND CHALLENGES**
Sunil K. Agrawal, PhD; Diane Damiano, MD; Andrew Gordon, PhD; Joseph Dutkowsky, MD; Heakyung Kim, MD

Location: Grand Ballroom CD

Learning Objectives:
1. Upon completion, participants will be able to get an overview of how technology can enhance rehabilitation of mobility and posture.
2. Upon completion, participants will be able to appreciate how motor learning needs to be integrated within robotic rehabilitation.
3. Upon completion, participants will be able to see examples of robotic rehabilitation and clinical evidences to improve mobility and posture.
4. Upon completion, participants will be able to appreciate the challenges in transitioning robotic technologies to clinic.

**SYMP12 - ADAPTIVE SPORTS PANEL: HOW CAN WE MAKE SPORTS ACCESSIBLE TO KIDS?**
Phoebe Scott-Wyard, DO; Carolina Schaber, RN, BSN, MBA

Location: Grand Ballroom JK

Learning Objectives:
1. Describe ways to support participation in adaptive sports for children with disabilities.
2. List organizations and resources for adaptive sports participation that are available for children worldwide.
3. Describe obstacles to participation in adaptive sports and methods of overcoming them.
4. List the benefits of participation in adaptive sports for children with disabilities and their families.

**SYMP13 - INTERNATIONAL PERSPECTIVES ON THE IMPLEMENTATION OF HIP SURVEILLANCE FOR CHILDREN WITH CEREBRAL PALSY: PEARLS, PITFALLS AND PROCESSES.**
Stacey D. Miller, PT; Kate L. Willoughby, BPhysio, DPhysio; Laura Yeo, M Arts, Grad Dip PT; Pam Thomason, B Physy, M Physio; Kerr Graham, MD, MD, FRCS (Ed), FRACS

Location: Elite 2

Learning Objectives:
1. Upon completion, participants will be able to describe the evidence for hip surveillance in children with cerebral palsy.
2. Upon completion, participants will be able to describe models for the implementation of hip surveillance that have been developed in multiple countries.
3. Upon completion, participants will be able to list barriers and potential solutions to implementing hip surveillance within varying health systems.
4. Upon completion, participants will be able to identify strategies to initiate the implementation of hip surveillance in the absence of state or country wide surveillance.
Program and Events

SYMP14 - EARLY INTERVENTION FOR INFANTS AND YOUNG CHILDREN AT HIGH RISK OF CEREBRAL PALSY IN LOW-MIDDLE INCOME COUNTRIES
Katherine Benfer, PhD, MPH, BSpPath; Cathy Morgan, PhD; Gulam M. Khandaker, PhD, FAFPHM; Asis Kumar Ghosh, MPT, BPT; Kate Milner, MBBS MPH FRACP; Roslyn N. Boyd, PhD, BA(PT), BS, PGrad
Location: Elite 3
Learning Objectives:
1: Describe early intervention studies currently underway in Low-Middle Income Countries (LMICs); including LEAP-CP (India), Getting to Know CP Early (Uganda), Centre and community-based intervention (Sri Lanka), Early Intervention Network (Afghanistan).
2: Identify underlying principles for early intervention based on the literature, and how these need to be adapted for low-middle income countries.
3: List common barriers for accessing traditional developmental care in LMIC (prevalence of medical model, stigma, physical access); from the literature, qualitative interviews, and lived experiences.
4: Identify a range of facilitators, barriers and opportunities for various models of intervention in LMIC (home-based individual, community-based group, and therapist lead models) including scaling-up.

SYMP15 - UNPACKING THE BLACK BOX OF PARTICIPATION-FOCUSED INTERVENTIONS
Sarah E. Reedman, PhD, BPhty (Hons); Leanne Sakzewski, PhD, BOccThy; Roslyn N. Boyd, PhD, BA(PT), BS, PGrad; Catherine Elliott, PhD; Keiko Shikako-Thomas, PhD; Annette Majnemer, PhD, OT
Location: Orange County 4
Learning Objectives:
1: List and describe theoretical frameworks for participation for youth with disabilities.
2: Demonstrate knowledge of the different ways to measure participation in youth with disabilities and apply this knowledge to their own context.
3: Describe current evidence-based practice for strategies and intervention frameworks aimed to promote participation in youth with disabilities.
4: Identify programs or changes at the environmental level that may have a role in creating an inclusive society that promotes children’s participation.

SYMP16 - ASSISTIVE TECHNOLOGY INNOVATIONS FOR COMMUNICATION AND MOBILITY IN CEREBRAL PALSY
Alistair McEwan, BE, BComm, MEng (Res); Zachery Lerner, PhD; Leigh Hochberg, MD, PhD; James Bowen; William Richards
Location: Grand Ballroom GH
Learning Objectives:
1. Determine the needs of mobility in cerebral palsy over the next 5 years
2. Determine the needs of communication in CP of the next 5 years
3. Further understand direct thought to speech implanted technology
4. Understand the perspectives from families and people with CP

Thursday, September 19, 2019: 10:45 AM - 12:15 PM
Debate/Current Controversies
CC02 - DIFFERENCES IN PRACTICE PATTERNS AROUND THE WORLD FOR CEREBRAL VISUAL IMPAIRMENT: FINDING A COMMON GROUND
Corinna M. Bauer, Ph.D.; Linda Lawrence, MD; Karen Harpster, PhD, OTR/L; Belinda J. Deramore Denver, OT; Els Ortibus, MD, PhD
Location: Platinum 1
Learning Objectives:
1: Describe some of the current controversies surrounding the evaluation, diagnosis, and care of children with Cerebral Visual Impairment around the world.
2: Demonstrate knowledge of care practices implemented across different parts of the world, including commonalities and differences.
3: Understand the current roadblocks preventing advancements in the care of children with Cerebral Visual Impairment.
4: Identify potential action points towards creating a common framework and language with the goal of developing a global research initiative to improve the care of children with Cerebral Visual Impairment.

12:30 PM-1:45 PM
Membership Business Meeting and Boxed Lunch
Location: Grand Ballroom EF

2019 Membership Business Meeting Agenda
Thursday, September 19, 2019 12:30 pm – 1:45 pm
12:30 pm -12:40 pm   Welcome/Farewell departing Board Members
Mauricio R. Delgado, MD – President
12:40 pm -12:50 pm   Treasurer’s Report
Francisco G. Valencia, MD - Treasurer
12:50 pm -1:00 pm   AACPDM Updates
Mauricio R. Delgado, MD – Treasurer
Jilda Vargus-Adams, MD MSc- Past President
1:00 pm -1:10 pm   Community Council Update
Jennifer Lyman- Chair
1:10 pm -1:45 pm   Committee Reports
Mauricio R. Delgado, MD – President
Thursday, September 19, 2019: 2:00pm-4:00pm

GENERAL SESSION
General Session Moderators: Robert W. Armstrong, MD; Christine Imms, PhD; Francisco Valencia, MD
Location: Platinum 5-10

Corbett Ryan Pathways Pioneer Award Presentation
Jason Benetti

Presidential Guest Lecture
Rationale and Evolution of the Application of Quantitative Gait Analysis to the Management of Gait Disorders in Children with Cerebral Palsy
Jon R. Davids, MD

Mentorship Award Presentation
Garey Noritz, MD

Presidential Guest Lecture
Motor Milestones, Intellectual Disability and Autism
Audrey Thurm, PhD

Mac Keith Press Basic Science Lecture
Microbiome-Nervous System Interactions in Health and Disease
Elaine Y. Hsiao, PhD

Thursday, September 19, 2019: 4:15pm-6:15pm

Instructional Courses

IC01 - FACILITATORS AND BARRIERS TO ENGAGING CHILDREN AND PARENTS IN PEDIATRIC REHABILITATION
Lisa A. Chiarello, PT, PhD, FAPTA; Roger Ideishi, JD, OT/L, FAOTA
Location: Grand Ballroom AB
Learning Objectives:
1: Communicate with children and families about their engagement in therapy sessions.
2: Identify intervention strategies that can be used to support engagement.
3: Create solutions to address barriers to engagement.
4: Collaborate with children and families to co-create meaningful intervention plans.

IC02 - INCLUSION: AT EVERY AGE AND ACROSS THE COMMUNITY!
Rachel Byrne, BA; Peter L. Rosenbaum, MD CM FRCPC; Tracy Pickar, BA; Laurie Glader, MD
Location: Elite 2
Learning Objectives:
1: Define different models of inclusion in educational settings and across the lifespan.
2: Identify and describe barriers to inclusion including attitudes/bias towards individuals with impairments.
3: Have a working knowledge of an inclusion curriculum for school age children.
4: Identify strategies on how to support inclusion in your setting.

IC03 - INVITING THE LIVED EXPERIENCES AND PERSPECTIVES OF CHILDREN LIVING WITH PHYSICAL DISABILITY AND THEIR FAMILIES AS A BASIS FOR ICF APPLICATIONS IN REHABILITATION PROCESSES
Sheryl L. Holt, PhD; Liz Gault, SPT; McKayla Linz, SPT
Location: Orange County 2
Learning Objectives:
1: Identify clear parental perspectives and lived experiences associated with rearing a child with a disability, including participation in rehabilitation.
2: Identify child perspectives and lived experiences of the processes of therapies, home, school, and community participation and mobility.
3: Identify applications within rehabilitation processes that can empower families and children to face the challenges of living with a disability first and second hand.
4: Problem-solve what is missing in common rehabilitation processes that limit the ICF related assessments, interventions, and outcomes.

IC04 - MANAGEMENT OF PAIN AND FUNCTION IN ADULTS WITH CEREBRAL PALSY
Joshua E. Hyman, MD; David Roye, MD; Wade Shrader, MD; Henry G. Chambers, MD; Philip Nowicki, MD
Location: Marquis Northeast
Learning Objectives:
1: Participants will understand the musculoskeletal impact of aging on individuals with cerebral palsy.
2: Participants will learn to recognize the causes of pain and loss of function and participation in people with cerebral palsy.
3: Participants will understand the orthopaedic surgical procedures utilized to improve function and decrease pain in adults with cerebral palsy.
4: Participants will develop an appreciation for the complex issues around consent, medical management, and postoperative complications.

IC05 - NEUROINFLAMMATION AND PERINATAL BRAIN INJURY: BASIC SCIENCE TO EMERGING THERAPIES
Eric M. Chin, MD; Lauren Jantzie, PhD; Shenandoah Robinson, MD; Alexander Hoon, MD, MPH
Location: Platinum 3
Learning Objectives:
1: Identify roles (both beneficial and disruptive) of inflammation in early brain injury.
2: Describe the pro- or anti-inflammatory effects of opioids and other perinatal exposures.
3: Describe links between inflammatory risk factors and neurodevelopmental outcomes.
4: Describe the role of immunomodulatory therapies in developmental brain injury.
**Program and Events**

**IC06 - NINDS CEREBRAL PALSY COMMON DATA ELEMENTS: UPDATES, RELATIONSHIP TO THE INTERNATIONAL CLASSIFICATION OF FUNCTIONING, DISABILITY, AND HEALTH (ICF); APPLICATIONS FOR INTERNATIONAL RESEARCH, AND CLINICAL UTILITY.**

Joline Brandenburg, MD; Verónica Schiariti, PhD; Carolina Mendoza-Puccini, MD; Robin Feldman, BS MBA; Sarah McIntyre, BAppSci(OT)Hons, MPS, PhD

Location: Orange County 3

Learning Objectives:
1. Understand the purpose and impact of the NINDS CDEs, including the CP CDEs.
2. Define the relationship of the ICF framework to the current content of the CP Common Data Elements.
3. Describe updates in the CP CDEs.
4. Develop an understanding and skills in using the CP CDE in national and international research and clinical practice.

**IC07 - OPTIMIZING HEALTH AND FUNCTION IN CHILDREN WITH CEREBRAL PALSY WITH THE NEW AACPDM CARE PATHWAY FOR MAJOR MUSCULOSKELETAL SURGERY**

Jay Berry, MD; Mohan Belthur, MD; Gina R. Rempel, MD, FRCPC

Location: Platinum 2

Learning Objectives:
1. Understand how to access and navigate the new AACPDM care pathway on preparing children with CP for major musculoskeletal surgery.
2. Use the pathway to identify opportunities for improvement of participants’ local perioperative care.
3. Design an implementation plan for participants to revise and improve their preoperative care processes.
4. Share, discuss, and collaborate with other attendees to optimize plans.

**IC08 - ORAL SENSORIMOTOR DISORDERS IN CHILDREN: FROM EVALUATION TO MANAGEMENT**

Amber Newell, CPNP, OTR/L; Ellen Quinn, MS, CCC-SLP; Heakyung Kim, MD

Location: Platinum 1

Learning Objectives:
1. To develop strategies to identify children with neuromuscular disorders at risk of swallowing dysfunction.
2. To understand physiological swallowing process and common swallowing difficulties leading to dysphagia.
3. To delineate between sensory-based oral motor difficulties versus pathological swallowing dysfunction.
4. To formulate appropriate treatment plan for children with oral sensorimotor dysfunction.

**IC09 - PREP: AN INNOVATIVE THERAPY INTERVENTION FOR IMPROVING PARTICIPATION OF CHILDREN AND YOUTH WITH DISABILITIES AROUND THE WORLD**

Dana Anaby, PhD; Hazel Kileen Hughes, PhD; Melanie Burrough, MSc; Rachel Teplicky, MSc; Anat Golos, PhD; Laura Turner, MSc

Location: Grand Ballroom CD

Learning Objectives:
1. Describe the rationale for environment-focused approaches to improving participation.
2. Understand the research evidence to support PREP, including perspectives and experiences from international research projects in Canada, Ireland, and the United Kingdom.
3. Demonstrate knowledge of the PREP approach by participating in an interactive activity using the PREP Intervention forms, guided by the presentation of video clips and client stories.
4. Identify the most common barriers for successful implementation of environmental-focused interventions in various clinical contexts and discuss ways to mitigate them.

**IC10 - ROLES OF DISTAL FEMORAL EXTENSION OSTEOTOMY AND PATELLAR TENDON ADVANCEMENT IN THE TREATMENT OF SEVERE PERSISTENT CROUCH GAIT IN ADOLESCENTS AND YOUNG ADULTS WITH CEREBRAL PALSY**

Tom Novacheck, MD; Elizabeth Boyer, PhD; Jean L. Stout, PT, MS; Katie Walt, DPT; Libby Weber, MD

Location: Orange County 1

Learning Objectives:
1. Discuss the indications for DFEO+PTA surgery for severe crouch gait in adolescents & young adults with cerebral palsy.
2. Describe the role of the hamstrings, rectus femoris, patella position and moment arm and insights from musculoskeletal modeling in severe crouch gait.
3. Explain the components of post-surgical rehabilitation.
4. Compare long-term case vs. control functional outcomes of DFEO+PTA surgery across the entire spectrum of the ICF domains.

**IC11 - SOONER THAN LATER: INNOVATIONS TO THE EARLY DIAGNOSIS OF CEREBRAL PALSY**

Iona Novak, PhD; Andrea Guzzetta, MD, PhD; Michael Fahey, MBBS PhD FRACP; Anna te Velde, BAppSc (Hons); Lynda McNamara, PhD Candidate; Bernadette Gillick, PhD, MSPT, PT

Location: Marquis Northwest

Learning Objectives:
1. Identify infants at high-risk for developing cerebral palsy.
2. Describe the neurophysiological mechanisms of adaptive neuroplasticity and use genetic algorithmic differential diagnostic decision-making.
3. Outline novel interventions that optimize neuroplasticity and participation.
4. Discuss stakeholder perspectives on research participation impact.
IC12 - THE INTERNATIONAL CEREBRAL PALSY HEALTH PROMOTIONS GROUP: PURPOSE AND COLLABORATIVE WORK
Edward A. Hurvitz, MD; James J. Carollo, PhD, PE; Mark Peterson, PhD; Patrick McPhee, PhD; Deborah E. Thorpe, PT, PhD; Nelleke G. Langerak, PhD

Location: Orange County 4

Learning Objectives:
1. Describe the purpose and benefits of a group like the ICPHPG for collaborative research in the field.
2. Explain the issues relating to health outcomes and risk of chronic disease in CP across the lifespan.
3. Review several of the areas of research of the ICPHPG.
4. Evaluate the collaborative model of the ICPHPG and how it might apply to the research of others.

IC13 - THERAPEUTIC ACTIVATION AND INHIBITION OF MOTOR SKILLS VIA MOTOR LEARNING AND OPERANT CONDITIONING
Dory Wallace, MS, OTR/L; Jessie E. Mann, MS; Mary Rebekah Trucks, MS, OTR/L; Stephanie C. Deluca, PhD

Location: Grand Ballroom GH

Learning Objectives:
1. Participants will describe the history of intensive therapies.
2. Participants will be able to describe presentation of developmental delays and needs of children with microcephaly.
3. Participants will be able to demonstrate the successful use of operant conditioning techniques to simultaneously limit interfering movements and behaviors while successfully activating skills in children with hyperkinetic movement disorders.
4. Participants will be able to facilitate discussion of strategies to integrate these highly specific and complex techniques into clinical settings.

IC14 - UTILIZING SOCIAL DETERMINANTS OF HEALTH FRAMEWORK-CEREBRAL PALSY
Margaret Salzbrenner Hoopes, MSN; Kirk Dabney, MD; Tirzah Spencer, PhD; Valerie Aptt, MSW

Location: Grand Ballroom JK

Learning Objectives:
1. Participants will articulate the definitions of social determinates of health according to the newest national healthcare research and quality agencies.
2. Participants will verbalize understanding of delivering equity in healthcare.
3. Participants will understand the rationale for social determinates of health in reference to quality and equity of care, family experience, healthcare costs, and patient outcomes.
4. Participants will take home specific strategies that can help to implement social determinants of health data into their own clinical setting.

6:30 pm - 8:00 pm
Wine and Cheese Poster and Exhibit Review
Sponsored by Medtronic
Location: Marquis Ballroom Center and South
FRIDAY

Breakfast Seminars

**BRK11 - BOTULINUM NEUROTOXIN UPDATES**
Mark Gormley, MD; John Fox, DO; Kathleen M. Vonderhaar, MD
Location: Platinum 3

Learning Objectives:
1. Understand the biological differences in the current botulinum neurotoxin serotypes.
2. Describe the potency and duration of effect of botulinum neurotoxin subtypes.
3. Develop knowledge of botulinum toxin serotype E and other new toxins being developed and how they differ from other botulinum neurotoxin serotypes.
4. Describe the evolving clinical indications for botulinum neurotoxins.

**BRK12 - CREATING CAPACITY FOR ROBOTIC TECHNOLOGY USE IN PEDIATRIC REHABILITATION: A MULTI-CENTER INTERNATIONAL PERSPECTIVE**
Anna M. McCormick, MD, FRCP(C) (Pediatrics/Rehabilitation); Hubertus J. van Hedel, PhD PT; Deborah Gaebler-Spira, MD, FRCP; Virginia Wright, BSc (PT), MSc, PhD
Location: Orange County 2

Learning Objectives:
1. Define a robotic device and give 3 examples of robotic devices used in gait neurorehabilitation.
2. Describe the international collaboration that facilitates the application of rehabilitation technologies and emerging datasets.
3. Appreciate the growing experience of robotic technology in neurorehabilitation from a variety of international pediatric rehabilitation centers.
4. Participate in conversations regarding the potential use of robotics to enhance function, activity and participation.

**BRK13 - EXERCISE TESTING IN PEDIATRIC REHABILITATION: APPLICATION IN CHILDREN WITH WALKING PROBLEMS**
Annet J. Dallmeijer, PhD; Annemieke I. Buizer, MD PhD
Location: Grand Ballroom AB

Learning Objectives:
1. Describe the physiological background of clinical exercise tests in youth with developmental disability.
2. Interpret results of energy cost and maximal exercise tests in youth with developmental disability.
3. Use clinical exercise test outcomes in treatment of walking problems.
4. Understand the value of energy cost and fitness testing for the treatment of walking problems in youth with developmental disability.

**BRK14 - INTERPRETING HIP SURVEILLANCE X-RAYS WITH THE HIPSCREEN APP: A PRIMER FOR THE RADIOLOGY NOVICE**
Vedant A. Kulkarni, MD; Jon R. Davids, MD; Pam Thomason, B Phyt, M Physio; Lisa Wiedeman, MPT
Location: Elite 2

Learning Objectives:
1. Be able to use the HipScreen App to measure a hip’s migration percentage.
2. Identify important landmarks on a hip surveillance radiograph used for quantifying hip displacement.
3. Recognize features of poor patient positioning on radiographs that could cause inaccuracy of the migration percentage measurement.
4. Understand protocols for proper positioning of children to obtain accurate hip surveillance radiographs.

**BRK15 - MUSCLE SYNERGIES: FROM NEUROSCIENCE TO THE CLINIC**
Katherine M. Steele, PhD; Meghan Munger, MPH; Andrew Georgiadis, MD; Rocio Riveros-Charry, PT
Location: Marquis Northwest

Learning Objectives:
1. Describe the theory of synergy-based control of movement.
2. Detail the process used to calculate synergies from electromyography data.
3. Demonstrate how synergies and other measures of motor control may be useful for diagnosis and treatment planning.
4. Identify limitations of using synergies to evaluate motor control and opportunities for future research.

**BRK16 - HEALTH ISSUES IN CEREBRAL PALSY WITH AGEING EPIDEMIOLOGY AND INTERVENTIONS.**
Wilma M. van der Slot, MD PhD; Jennifer Ryan, PhD
Location: Orange County 4

Learning Objectives:
1. Upon completion, participant will be able to describe current evidence on co-morbidities in adults with CP.
2. Upon completion, participant will be able to identify risk factors for co-morbidity in adults with CP.
3. Upon completion, participant will be able to understand chronic disease surveillance.
4. Upon completion, participant will have knowledge on interventions to treat clustered symptoms and to reduces chronic disease risk in adults with CP.

**BRK17 - COMMUNICATION IN CHILDREN WITH COMPLEX COMMUNICATION NEEDS: IMPLEMENTATION OF THE C-BIILLT: HOW TO CROSS (LANGUAGE) BORDERS AND FACILITATE AAC.**
Johanna J. Geytenbeek, PhD; Kim J. Oostrom, PhD; Kristine Stadskleiv, PhD; Jael N. Bootsma, MSc SLP
Location: Platinum 1

Learning Objectives:
1. Understand why and how the C-BiLLT was developed.
2. Describe how spoken language comprehension in these children relates to various developmental domains.
3. Define facilitators for a succesfull implementation and innovation of the C-BiLLT into (clinical) practice.
4. List linguistic and/or cultural issues encountered in the translation, adaptation and validation process of the C-BiLLT.
Program and Events

FRIDAY

BRK18 - RELATIONSHIPS AND SEXUALITY: IMPORTANT ISSUES TO ADDRESS FOR QUALITY OF LIFE, IN PROVIDING TRANSITION SERVICES TO YOUNG ADULTS AND FAMILIES AFFECTED WITH CHILD-ONSET CONDITIONS
Susan C. Labhard, MSN
Learning Objectives:
1: To elevate understanding of the importance of friends, relationships and sexuality for emerging adults with child-onset conditions and explore a variety of resources for future reference.
2: Learn how to apply evidence-based practice guidelines for teaching youth with disabilities, and the people that care about them, the importance of social success in developing healthy relationships and sexuality.
3: Explore options to traditional sexual expression and learn that dealing with the sexual consequences of disabilities can offer unique challenges, but need not be an obstacle to sexual fulfillment.
4: To encourage the inclusion and attention to sexuality as a topic in health care.

BRK19 - USING IMPLEMENTATION SCIENCE TO EMBED THE F-WORDS IN CHILDHOOD DISABILITY AT AN ORGANIZATIONAL LEVEL
Kim Hesketh, BKH, MScPT; Andrea Cross, PhD; Rachel Teplicky, MSc; Peter L. Rosenbaum, MD CM FRCPC
Learning Objectives:
1: Describe the F-words in Childhood Disability and their importance in children’s rehabilitation.
2: Understand how Implementation Science can contribute to changing culture at an organizational and systems level.
3: Outline a multi-level, multi-year plan to embed the F-Words into CTN’ organizational culture.
4: Identify barriers and facilitators to implementation and possible strategies to address the challenges.

BRK20 - HEALTH OUTCOMES IN CEREBRAL PALSY ACROSS THE LIFESPAN: INSIGHTS FROM THE BENCH, THE CLINIC, AND LARGE POPULATION-REPRESENTATIVE COHORTS.
Mark Peterson, PhD; Edward A. Hurvitz, MD; Daniel G. Whitney, PhD
Learning Objectives:
1: Develop a set of common data elements useful for clinical screening of the adult with CP that includes greater attention to aging-related chronic disease risk.
2: Describe the longitudinal trends of chronic cardiometabolic, psychological, and musculoskeletal morbidity in adults with CP, and risk factors that contribute to increased risk.
3: Discuss the need for surveillance of health risks in adults with cerebral palsy, with a priority focus on psychological, metabolic and musculoskeletal systems.
4: Discuss relevant pathophysiologic mechanisms linking early frailty and long-term health outcomes among persons with CP.

SYMP18 - HIP HEALTH IN CHILDREN WITH CP - IS AN OUNCE OF PREVENTION WORTH A POUND OF CURE?
Ginny Paleg, DScPT; Elisabet Rodby-Bousquet, PT, PhD; Wade Shrader, MD; Unni G. Narayanan, MBBS, MSc, FRCS(C); Jan Willem Gorter, MD PhD
Learning Objectives:
1: Upon completion, participant will be able to evaluate the long term effects of SDR when performed in early childhood in children with CP.
2: Upon completion, participant will be able to describe some ethical aspects of parental decision making.
3: Upon completion, participant will be able to describe current knowledge of the evolution of spasticity in children with CP.
4: Upon completion, participant will be able to describe the current evidence base evaluating long term effects of selective dorsal rhizotomy.

SYMP17 - CROSSING THE BORDER FROM THE NICU TO HOME: WHEN SHOULD REHABILITATION BEGIN?
Stacey C. Dusing, PhD; Alicia Jane. Spittle, PhD, MPhysio, BPhysio; Cathy Morgan, PhD, BAppSc, Gunn Kristin Oeberg, PhD
Location: Platinum 2
Learning Objectives:
1: List reasons to consider starting early rehabilitation in the first months of life.
2: List challenges or barriers to starting early rehabilitation or transitioning services from the NICU to home.
3: Discuss the view of parents in understanding the need for services and navigating access.
4: Discuss the role of medical providers, policy makers, and health care workers in engaging families in planning early rehabilitation services.

SYMP16 - THE ROLE OF THE FAMILY IN EARLY REHABILITATION OF CHILDREN WITH CP
Stacey C. Dusing, PhD; Alicia Jane. Spittle, PhD, MPhysio, BPhysio; Cathy Morgan, PhD, BAppSc, Gunn Kristin Oeberg, PhD
Location: Orange County 1
Learning Objectives:
1: To elevate understanding of the importance of friends, relationships and sexuality for emerging adults with child-onset conditions and explore a variety of resources for future reference.
2: Learn how to apply evidence-based practice guidelines for teaching youth with disabilities, and the people that care about them, the importance of social success in developing healthy relationships and sexuality.
3: Explore options to traditional sexual expression and learn that dealing with the sexual consequences of disabilities can offer unique challenges, but need not be an obstacle to sexual fulfillment.
4: To encourage the inclusion and attention to sexuality as a topic in health care.

Friday, September 20, 2019: 7:00 AM - 8:00 AM
Debate/Current Controversies
CC03 - A CURRENT CONTROVERSY: DOES SELECTIVE DORSAL RHIZOTOMY IMPROVE LONG-TERM FUNCTION
Freeman Miller, MD; Tom Novacheck, MD; Kristina Tedroff, MD, PhD
Location: Marquis Northeast
Learning Objectives:
1: Upon completion, participant will be able to evaluate the long term effects of SDR when performed in early childhood in children with CP.
2: Upon completion, participant will be able to describe some ethical aspects of parental decision making.
3: Upon completion, participant will be able to describe current knowledge of the evolution of spasticity in children with CP.
4: Upon completion, participant will be able to describe the current evidence base evaluating long term effects of selective dorsal rhizotomy.
Program and Events

FRIDAY

SYMP19 - PEARLS AND PITFALLS OF EARLY INTERVENTION FOR INFANTS WITH UNILATERAL CP
Ann-Christin Eliasson, PhD; Anna P. Basu, BMBCh MA FRCPCH PhD; Giovanni Cioni, MD; Susan Greaves, OT, PhD; Roslyn N. Boyd, PhD, BAppSc (PT); BSc, PGrad
Location: Grand Ballroom CD

Learning Objectives:
1. To learn more about the theories and interpretation of different treatment approaches.
2. To learn more about the possible effect of early intervention in unilateral CP.
3. To understand how the research can be implemented in clinical practice.
4. To understand the consequences for families in daily life.

SYMP20 - THE GLOBAL EDUCATION AND TRAINING INITIATIVE OF IAACD: AN UPDATE ON THE WORK BEING DONE BY THE GLOBAL PROFESSIONAL EDUCATION COMMITTEE OF THE INTERNATIONAL ALLIANCE OF ACADEMIES OF CHILDHOOD DISABILITY
Arnab Seal, MD, DCH, FRCPCH; Peter L. Rosenbaum, MD CM FRCP; Jenny J. Carroll, MA, MCSP, PGC(HE); Katherine Benfer, PhD, MPH, BSpPath; Marcia Greenberg, MS, PT; Bernadette Gillick, PhD, MSPT, PT
Location: Grand Ballroom JK

Learning Objectives:
1. Know about the creation of and the goals of the IAACD as a collaborative international, interconnected group of Academies of childhood disability.
2. Know why the Global Professional Education Committee (GPEC) of the IAACD was formed and what has been achieved so far, including the story of a pilot training programme in Georgia
3. Illustrate how the current development of a ‘Knowledge Hub’ resource website will aggregate the resources the GPEC are obtaining and curating in order to offer people a one-stop resource
4. Explore how the GPEC can link and help with existing or planned collaborations - To help recognize the opportunities to be involved and influence further development of this initiative.

Friday, September 20, 2019: 8:15am-10:00am

GENERAL SESSION
General Session Moderator: Mauricio R. Delgado, MD
Location: Platinum 5-10

Lifetime Achievement Award Presentation
Barry S. Russman, MD

Presidential Guest Lecture
Intracortical Brain-Computer Interfaces: Toward Restoring Communication and Mobility
Leigh Hochberg, MD, PhD

Presidential Guest Lecture
The Future of Health & Medicine: Where Can Technology Take Us?
Daniel Kraft, MD

8:15am-10:15am

Lifespan Committee Adult Care and Aging SIG
Location: Grand Ballroom AB

Purpose: To bring together a multidisciplinary group of health professionals and researchers with a focus on optimizing lifespan care for adults with CP and other childhood onset disabilities (CODs). This Adult Care and Aging SIG will attract researchers, clinicians and other allied healthcare providers to facilitate and foster connections for ongoing collaboration.

10:00am - 10:30am

Get Up and Move
#Getupandmove
Instructor: Jennifer Lyman
Location: Platinum Foyer

Activity Description: Yoga postures will work on balance, strength, and flexibility. A great way to focus and refresh your mind and body and start the morning off right!

Friday, September 20, 2019 – 10:30 am – 12:15 pm

FREE PAPER SESSIONS
E. Intervention and Assessment
Location: Marquis Northwest

10:30 am – 10:37 am –
E1. INTENSIVE MOTOR SKILL LEARNING INTERVENTIONS HAVE A STRONG IMPACT ON THE COGNITIVE CONTROL OF CHILDREN WITH CEREBRAL PALSY
Rodrigo Araneda, PhD; Daniela Ebner-Karestinos, PT; Geoffroy Saussez, PT; Julie Paradis, PhD; Yannick Bleyenheuft, PhD

10:38 am – 10:45 am –
E2. EFFECTIVENESS OF CO-OP IN IMPROVING MOTOR SKILLS OF CHILDREN WITH DCD +/- ADHD
Jill G. Zwicker, PhD, OT; Cassandra Gunton; Zara Dureno, OT; Sara Izadi-Najafabadi, MS
Program and Events

10:46 am – 10:53 am –
E3. PLAY LIFESTYLE AND ACTIVITY ASSESSMENT IN CHILDREN WITH CEREBRAL PALSY
Amy Rabatin, MD; dai Sugimoto, PhD; Rebecca Zwicker, MPH; Jodie Shea, BS; Eric Nohelty, BS; Benjamin J. Shore, MD, MPH, FRCSC; Andrea Stracciolini, MD

10:54 am – 11:01 am –
E4. THE IMPACT OF CONTEXT-BASED INTERVENTIONS ON PARTICIPATION OF CHILDREN WITH DISABILITIES: A SYSTEMATIC REVIEW
Paul Y. Yoo, MScA.OT; Ebele Mogo, PhD; Melanie Bergthorson, OT; Janet McCabe, PhD; Annette Majnemer, PhD; Keiko Shikako-Thomas, PhD

11:02 am – 11:09 am –
E5. ‘PRIORITY ACCESS’ - VALIDITY OF THE AGES AND STAGES QUESTIONNAIRE (3RD ED.) TO PRIORITIZE CHILDREN AGED 0-5 YEARS FOR PHYSIOTHERAPY ASSESSMENT OF GROSS MOTOR DIFFICULTIES
Leanne M. Johnston, PhD; John Fauts, PT; Bronwyn Thompson, PT

11:25 am – 11:32 am –
E6. HOW MUCH CHANGE IS IMPORTANT? CALCULATING THE MINIMAL CLINICALLY IMPORTANT DIFFERENCE OF THE GMFM, PODCI, AND CPCHILD AFTER ORTHOPEDIC SURGERY IN CHILDREN WITH CEREBRAL PALSY
Benjamin J. Shore, MD, MPH, FRCSC; Jodie Shea, BS; Rachel Tombeno, DPT; Patricia Miller, MS; Maria Fragala-Pinkham, MS, PT, DPT; Brian Snyder, MD, PhD; Travis Matheney, MD

11:33 am – 11:40 am –
E7. MACHINE LEARNING ALGORITHMS FOR ACTIVITY RECOGNITION IN CHILDREN WITH CEREBRAL PALSY WHO RELY ON MOBILITY AIDS FOR AMBULATION
Benjamin J. Goodlich, MPT; Ellen L. Armstrong, MPT; MSc (APA), BExSc; Sean A. Horan, BExSc, MPhy, PhD; Chris Carty, PhD; Stewart G. Trost, PhD; Matthew Ahmad, MS; Emmah Baque, PhD

11:41 am – 11:48 am –
E8. LOW-INTENSITY VERSUS HIGH-INTENSITY HOME-BASED TREADMILL TRAINING AND WALKING ATTAINMENT IN YOUNG CHILDREN WITH CEREBRAL PALSY
Katrin Mattern-Baxter, DPT; Julia Looper, PhD; Kristie F. Bjornson, PhD, PT, PCS

11:49 am – 11:56 am –
E9. FEASIBILITY AND ACCEPTABILITY OF A PROGRESSIVE RESISTANCE TRAINING PROGRAM FOR ADOLESCENTS WITH CEREBRAL PALSY.
Jennifer M. Ryan, PhD; Grace Lavelle, PhD; Marika Noorkoiv, PhD; Nicola Theis, PhD; Adam Shortland, PhD; Tom Korff, PhD; Wendy Levin, PT; Cherry Kibbriade, PhD

11:57 am – 12:04 pm –
E10. THE EFFECT OF SELECTIVE DORSAL RHIZOTOMY ON SPINAL DEFORMITIES IN CHILDREN WITH CEREBRAL PALSY: A LONG TERM FOLLOW UP STUDY
Stacey D. Miller, PT; Jonathan Lau, MD; Maria Juricic, PT; Bejaan Jivraj, MBBS; Paul Steinbok, BSc, MBBS, FRCS(C); Firoz Miyani, MD, FRCS(C); Kishore Mulipuri, MBBS, MD, MHSc

F. Tone Management
Location: Platinum 1

10:30 am – 10:37 am –
F1. THE EFFECT OF INTRATHECAL BACLOFEN IN DYSKINETIC CEREBRAL PALSY: FINDINGS OF THE IDYS TRIAL
Laura A. Bonouvrié, MD; Jules G. Becher, MD PhD; Johan S. Vles, MD PhD; R. Jeroen Vermeulen, MD PhD; Annemieke I. Buizer, MD PhD

10:38 am – 10:45 am –
F2. DO SHORT-TERM FUNCTIONAL OUTCOMES OF SDR DIFFER BASED ON SURGICAL TECHNIQUE: COMPARING CONUS TO CAUDA EQUINA
Elizabeth A. Duffy, MPH; Alexander L. Hornung, BS; Meghan Munger, MPH; Brian Po-Jung Chen, PT, MD; Nanette Aldahondo, MD; Linda E. Krach, MD; Michael H. Schwartz, BS, MS, PhD; Tom Novacheck, MD

10:46 am – 10:53 am –
F3. NON-PHARMACOLOGICAL, NON-SURGICAL (NPNS) INTERVENTIONS IN CHILDREN WITH DYSKINETIC CEREBRAL PALSY: A SYSTEMATIC REVIEW
Miranda Kneebone, B Occ Thy; Kirsty Stewart, PhD; Leanne M. Johnston, PhD

10:54 am – 11:01 am –
F4. SARCOPENIA, BOTULINUM TOXIN A AND CEREBRAL PALSY: A SYSTEMATIC REVIEW.
Kerr Graham, MD, MD, FRCS (Ed), FRACS; Iqbal Multani, MD; Tandy Hastings-Isom, PhD, BAppSci(Physio); Jason J. Howard, BEng, MD, FRCSC; Walter Herzog, PhD

11:02 am – 11:09 am –
F5. BOTULINUM TOXIN-A FOR CHRONIC PAIN IN SPASTIC CEREBRAL PALSY: A RANDOMIZED PLACEBO-CONTROLLED DOUBLE-BLIND TRIAL
Dan N. Jacobson, MD; Kristina Löwing, PhD; Kjell Kullander, MD; Britt-Marie Rydh-Berner, PT; Malin Ljung, RN; Kristina Tedroff, MD, PhD

11:33 am – 11:40 am –
F7. BOTULINUM TOXIN-A FOR CHRONIC PAIN IN SPASTIC CEREBRAL PALSY: DIFFERENTIAL EFFECTS ON GAIT KINEMATICS BASED ON AGE AND LEVEL OF SEVERITY
Annet J. Dallmeijer, PhD; Kim van Hutten, MSc; Marjolein van der Krogt, PhD; Annemieke I. Buizer, MD PhD
11:41 am – 11:48 am –
F8. RETROSPECTIVE SURVEY OF PREDICTING FACTORS FOR SPASTICITY REDUCING INJECTIONS WITH BOTULINUMNEUROTOXIN IN THE UPPER LIMBS IN CHILDREN WITH CP.
Jenny Hedberg-Graff, MSc; Lena K. Krumlinde-Sundholm, PhD; Nicklas Philstrom, BS

11:49 am – 11:56 am –
Laurent Pons, PhD; Claire Vitain, MD; Philippe Picaut, PharmD

11:57 am – 12:04 pm –
F10. LONG-TERM SAFETY AND EFFICACY OF OPEN-LABEL ONABOTULINUMTOXINA FOR THE TREATMENT OF LOWER LIMB SPASTICITY IN CHILDREN WITH CEREBRAL PALSY
Jill Meilahn, DO; Heakyung Kim, MD; Brad Racette, MD; Fatma Gul, MD; Henry G. Chambers, MD; Emily McCusker, PhD; Kayla Chen, PhD; Rozalina Dimitrova, MD, MPH

G. Orthopaedics
Location: Platinum 2

10:30 am – 10:37 am –
G1. A SYSTEMATIC REVIEW OF REHABILITATION PRACTICES FOLLOWING LOWER LIMB ORTHOPAEDIC SURGERY IN CHILDREN WITH CEREBRAL PALSY
Claire Kerr, BSc (Hons) Physio, PhD; Clare McKeaveney, BSc, PhD

10:38 am – 10:45 am –
G2. ISOLATED CALF LENGTHENING SURGERY REDUCES KNEE RECURVATUM IN CHILDREN WITH SPASTIC DIPLEGIC CEREBRAL PALSY
Jeremy Bauer, MD; Patrick Do; Jing Feng, PhD; Michael Aiona, MD

10:46 am – 10:53 am –
G3. RECTUS FEMORIS TRANSFER VS. RESECTION IN CHILDREN WITH CEREBRAL PALSY WITH STIFF KNEE GAIT
Julianne Sees, MD; Chris Church, MPT; Kathleen Maguire, MD; Gevanny Olas-Santillan, MD; John Henley, PhD; Nancy Lennon, MS, PT; Freeman Miller, MD; Jose J. Salazar Torres, PhD

10:54 am – 11:01 am –
G4. IMPACT OF HIP DISPLACEMENT ON HEALTH RELATED QUALITY OF LIFE IN CHILDREN WITH CEREBRAL PALSY
Unni G. Narayanan, MBBS, MSc, FRCS(Orth); Menal Huruy, BS, (MD); Clarissa Encisa, MSc; Ashley Ferkul, BA; Kerr Graham, MD, MD; FRCs (Ed); FRACS; Kishore Mulpuri, MBBS, MS, MHS; Darcy L. Fehlings, MD

11:02 am – 11:09 am –
G5. IS OPEN REDUCTION DURING HIP RECONSTRUCTIVE SURGERY NEEDED FOR TREATMENT OF NEUROMUSCULAR HIP DYSPLASIA?
Brandon Marshall, BS; Jason B. Malone, DO; Gary Kiebzak, PhD

11:25 am – 11:32 am –
G6. PRE-OPERATIVE STAPHYLOCOCCUS AUREUS SCREENING LOWERS EARLY INFECTION RATES IN PEDIATRIC SPINAL DEFORMITY SURGERY
Christina Hardesty, MD; Connie Poe-Kochert, CNP; Jochen Son-Hing, MD; George Thompson, MD

11:33 am – 11:40 am –
G7. SCOLIOSIS AND BACK PAIN IN CHILDREN AND ADOLESCENTS WITH CEREBRAL PALSY
Ann I. Alriksson-Schmidt, PhD; Thomasz Czuba, MS; Gunnar Hagglund, PhD

11:41 am – 11:48 am –
G8. THE USE OF TRANEXAMIC ACID (TXA) IN NEUROMUSCULAR HIP RECONSTRUCTION, SIGNIFICANT TRANSFUSION REDUCTION OR FAKE NEWS?
Laura A. Lins, MPH, ATC; Aneesh V. Samineni; Patricia Miller, MS; Colyn Watkins, MD; Travis Matheny, MD; Brian Snyder, MD, PhD; Benjamin J. Shore, MD, MPH, FRCSC

11:49 am – 11:56 am –
G9. THE IMPACT OF SCOLIOSIS SURGERY ON PULMONARY FUNCTION IN SPINAL MUSCULAR ATROPHY: A SYSTEMATIC REVIEW
Jason J. Howard, BEng, MD, FRCSC; Abduljabber Alhammoud, MD; Yahya Othman; Ron El-Hawary, MD

11:57 am – 12:04 pm –
G10. CLINICAL IMPROVEMENT FOLLOWING VITAMIN D3 SUPPLEMENTATION IN CHILDREN WITH CHRONIC TIC DISORDERS
Honghua Li, MD; Zhi-Da Xu, PhD; Bing Wang, MD; Jun-Yan Feng, MD; Han-Yu Dong, MD; Jia Feiyong, MD, PhD

H. Rehab Training and Dose
Location: Platinum 3

10:30 am – 10:37 am –
H1. EFFECTS OF A PROGRESSIVE RESISTANCE TRAINING PROGRAMME FOR ADOLESCENTS WITH CEREBRAL PALSY: A RANDOMISED CONTROLLED TRIAL.
Jennifer M. Ryan, PhD; Marika Noorkoiv, PhD; Nicola Theis, PhD; Cherry Kilbride, PhD; Tom Karff, PhD; Adam Shortland, PhD; Wendy Levin, PT; Grace Lavelle, PhD

10:38 am – 10:45 am –
H2. EFFECTS OF MODIFIED CONSTRAINT-INDUCED MOVEMENT THERAPY IN REAL-WORLD ARM USE IN YOUNG CHILDREN WITH UNILATERAL CEREBRAL PALSY: A SINGLE-BLIND RANDOMIZED TRIAL
Young Sub Hwang, MA

FRIDAY
**Program and Events**

**Friday, September 20, 2019: 10:30 AM - 12:00 PM**

**Debate/Current Controversies**

**CC04 - ADVANCEMENTS IN NEUROREHABILITATION TECHNOLOGY FOR FUNCTION, ACTIVITY AND PARTICIPATION: HYPE OR HOPE?**

Anna M. McCormick, MD, FRCP (Pediatrics/Rehabilitation); Elaine Biddiss, Ph.D, PEng; Adam Scheinberg, MBBS, FRACP, FAAP, MMED; Eduardo Rocon, Ph.D, PEng; Hana Alazem, BSc PT, MD, FRCP (C); Alistair McEwan, BE, BComm, MEng (Res)

Location: Grand Ballroom CD

**Learning Objectives:**
1: Describe why technology advancement is important in rehabilitation.
2: Describe what makes technology development meaningful and impactful in pediatric rehabilitation.
3: List 5 examples of newly developed high tech devices utilized in pediatric rehabilitation.
4: List possible impacts of technology development on function, activity and participation.

**CC05 - WE NEED TO TALK ABOUT BOTULINUM TOXIN**

Kerr Graham, MD, MD, FRCS (Ed), FRACS; Tandy Hastings-Ison, PhD; Anja Van Campenhout, MD, PhD

Location: Orange County 1

**Learning Objectives:**
1: Understand the current evidence for the efficacy of BoNT-A therapy in ambulant children with CP, in the ICF domains: body structure and function.
2: Understand the current evidence for the efficacy of BoNT-A therapy in ambulant children with CP, in the ICF domains: activities and participation.
3: Understand current evidence for the safety and adverse events profile of BoNT-A therapy for an ambulant child, GMFCS I-III, with CP.
4: Understand the risks of BoNT-A therapy to the injected muscle, including the risks of weakness, long-term muscle atrophy and fibrosis.
Program and Events

**Friday, September 20, 2019: 10:30 AM - 12:00 PM**

**Focused Symposia**

**SYMP21 - CEREBRAL PALSY IN LATINO AMERICA: WHAT WE KNOW AND WHAT WE DON'T KNOW**
Verónica Schiariti, PhD; Roselyn Valerin, MD; JORGE Carranza-del Río, MD; Fabiola Barran, MS; Maria Jose Martinez Caceres, MD; Hugo Galvez Quiñonez, MD
Location: Orange County 3
Learning Objectives:
1. To learn an epidemiological scope of CP in pediatric populations in Latino America.
2. To review common tools used to collect information on functioning and disability of children.
3. To identify gaps in health data collection related with CP across Latin-American countries.
4. To propose feasible strategies to harmonize data collection regarding prevalence and incidence of CP in Latin America.

**SYMP22 - TRANSFORMING OUTCOMES IN CEREBRAL PALSY THROUGH GLOBAL CLINICAL PARTNERSHIPS**
Sammanali P. Sumanasena, MD; Brian Hoare, OT; PhD; James Rice, MBBS; Nimisha Muttiah, PhD
Location: Elite 2
Learning Objectives:
1. Plan and carry out collaborative projects with global partners.
2. Identify and overcome challenges to carrying out transformation in practices.
3. Culturally adopt interventions for children with communication difficulties.
4. Undertake training programs across the borders.

**SYMP23 - DEVELOPING A CLINICAL PRACTICE GUIDELINE REGARDING FUNCTIONAL THERAPY IN CEREBRAL PALSY: UTILISING THE GRADE AND AGREE II FRAMEWORK**
Iona Novak, PhD; Leanne Sakzewski, PhD, BOccThy; Michelle Jackman, PhD; Cathy Morgan, PhD, BAAppSc; Roslyn N. Boyd, PhD, BAAppSc (PT), BSc, PGrad
Location: Grand Ballroom AB
Learning Objectives:
1. Understand the key components of developing high-quality, reliable Clinical Practice Guidelines, based on recommendations from the World Health Organisation.
2. Understand the key components of developing high-quality, reliable Clinical Practice Guidelines, based on Grading of Recommendations Assessment, Development and Evaluation (GRADE) framework.
3. Upon completion, participants will be able to experience applying GRADE to assess the quality of evidence relating to functional therapy.
4. Upon completion, participants will be able to experience applying GRADE to formulate recommendations relating to functional therapy.

**SYMP24 - HOME-BASED ASSESSMENT AND REHABILITATION OF THE UPPER LIMB IN CHILDREN WITH UNILATERAL CEREBRAL PALSY**
Giuseppina Sgandurra, MD, PhD; Giovanni Cioni, MD; Roslyn N. Boyd, PhD, BAAppSc (PT), BSc, PGrad
Location: Orange County 2
Learning Objectives:
1. Describe the different technological approaches to deliver at home assessment and rehabilitation of upper limb in children with Unilateral Cerebral Palsy.
2. Define the main platforms available for delivering at home rehabilitation of upper limb in children with Unilateral Cerebral Plays.
3. Demonstrate the use of wearable sensors for assessing and evaluating asymmetries in children with typical and atypical development.
4. Plan new evidence-based studies on upper limb rehabilitation.

**SYMP25 - THE SWINGS AND ROUNDABOUTS OF REGISTERS AND SURVEILLANCE PROGRAMS FOR CHILDHOOD DISABILITY RESEARCH**
Hayley J. Smithers-Sheedy, BAppSc(SpPath), MPH, PhD; Paul Gross, BA; Sue Reid, PhD MClinEpi BAAppSc; Lena Westbom, PhD; Shona Goldsmith, BPhthy(Hons)
Location: Orange County 4
Learning Objectives:
1. List examples of some of the many and varied ways that register/surveillance data can be used in childhood disability research.
2. Describe some of the ways that registers can be used to improve quality of care.
3. List examples of different register/surveillance programs from Europe, the United States of America and Australia.
4. Describe some of the challenges in developing and maintaining a register/surveillance program.

**SYMP26 - INNOVATIONS IN IMPLEMENTATION OF THE GENERAL MOVEMENTS ASSESSMENT**
Colleen Peyton, DPT; Alicia Spittle, PhD; Andrea Guzzetta, MD, PhD
Location: Grand Ballroom JK
Learning Objectives:
1. Understand the neurophysiological bases of spontaneous motility and why it is a powerful biomarker of CNS function.
2. Discuss the state of the art on the use of GMs to predict long-term outcomes in young infants.
3. Discuss current research and future perspectives surrounding automatization of GMs.
4. Describe translational strategies for implementation of GMs research into clinical practice.
Program and Events

SYMP27 - GAIT ANALYSIS WITHOUT A GAIT LAB: USING TECHNOLOGY TO ENHANCE OBSERVATIONAL GAIT ASSESSMENT IN RESOURCE-CHALLENGED ENVIRONMENTS
Vedant A. Kulkarni, MD; Jon R. Davids, MD; Abhay Khot, MBBS, FRACS; Alaric Aroojis, MS, D’Ortho, DNB
Location: Grand Ballroom GH

Learning Objectives:
1: Understand the phases and sub-phases of the normal gait cycle in the sagittal and coronal planes.
2: Identify the most common gait deviations seen in children with unilateral and bilateral cerebral palsy.
3: Understand the principles of accurate mobile device video acquisition and analysis of those videos using the Edinburgh Visual Gait Score.

12:15pm - 1:15pm
Non CME Luncheon Options
International Networking Luncheon
Location: Marquis Northeast

IPSEN Presentation Theatre:
Dysport® (abobotulinumtoxinA) in the Treatment of Lower Limb Spasticity in Pediatric Patients 2 Years of Age and Older
Presenter: Mark E. Gormley, MD
Location: Grand Ballroom EF

12:30pm-1:30pm
NMES Network Luncheon

Friday, September 20, 2019: 1:30pm-3:30pm
GENERAL SESSION
General Session Moderators: Giovanni Cioni, MD, PhD; Maria del Consuelo Ibarra-Rodriguez, MD; Veronica Schiariti, MD, MHSc, PhD
Location: Platinum 5-10

Duncan Wyeth Award Presentation
Kyle Pease

Presidential Guest Lecture
Brain Repair After Stroke
Steven Cramer, MD

Cathleen Lyle Murray Award Presentation and Lecture
Judith E. Heumann

Presidential Guest Lecture
Current State of the Art of Lower Limb Pediatric Orthotic Care: Translation to the Developing World
Thomas DiBello, CO, FAAOP

Gayle G. Arnold Lecture
A Future of Flourishing: Supporting Successful Transitions for Young People with Disabilities
Erik Carter, PhD

1:30pm-3:30pm
AACPDM Complex Care Committee – Complex Care SIG
Location: Grand Ballroom AB
Purpose: To promote advancement of clinical care, education, research, and advocacy for children with medical complexity. Available to all clinical and research professionals who focus on the care of children with medical complexity.

3:30pm-4:30pm
Poster Walk in the Exhibit Hall
Location: Marquis Ballroom Center and South

3:40pm-3:55pm
Get Up and Move - Latin Cardio Dance
#Getupandmove
Location: Platinum Registration Foyer
Take a quick energizing break by moving to upbeat dance music. All are welcome. No experience (or even ability) necessary!

Friday, September 20, 2019: 4:30pm-6:30pm
Instructional Courses
IC15 - COMPREHENSIVE MULTIDISCIPLINARY MANAGEMENT OF SPINA BIFIDA
Vineeta T. Swaroop, MD; Luciano Dias, MD; Elizabeth Yerkes, MD; Robin Bowman, MD
Location: Platinum 2

Learning Objectives:
1: Describe a successful model for multidisciplinary care of spina bifida patients, including who should be involved, team evaluation, collaborative decision making.
2: Define neurosurgical manifestations of spina bifida and understand treatment approaches.
3: Define urological manifestations of spina bifida and understand treatment approaches.
4: Define orthopaedic manifestations of spina bifida and understand treatment approaches.

IC16 - EARLY DIAGNOSIS OF CEREBRAL PALSY (CP): TRANSLATING THE 2017 INTERNATIONAL GUIDELINES INTO CLINICAL PRACTICE
Rachel Byrne, BA; Nathalie Maitre, MD; Andrea Duncan, MD
Location: Grand Ballroom AB

Learning Objectives:
1: Identify discrete components of the guidelines.
2: Describe current processes for diagnosis and intervention of CP in your setting.
3: Identify strengths, weaknesses, opportunities, and threats (SWOT) to implementing the guidelines in your program.
4: Develop a process flow to adapt guidelines to your own setting.
IC17 - EVALUATION AND MANAGEMENT OF PAIN IN PEOPLE WITH CEREBRAL PALSY
Hiroko Matsumoto, PhD; Heakyung Kim, MD; Daniel F. Linhares, MD; Joshua Hyman, MD
Location: Grand Ballroom GH

Learning Objectives:
1: Discuss the current state of pain assessment in verbal and non-verbal patients, and describe ongoing research in improving pain evaluation.
2: Understand causes of pain and associated symptoms.
3: Discuss current modalities of operative, non-operative & pharmacologic management of pain for pediatric and adult patients with CP.
4: Discuss successful and unsuccessful management of pain.

IC18 - WORKSHOP ON TRANSITION PLANNING FOR YOUTH WITH NEURODEVELOPMENTAL DISABILITIES
Veronica M. Meneses, MD, MSHS; Cory E. Nourie, MSS, MLSP; Yanin Rivera, MD; Carrie Sewell-Roberts, MSW
Location: Orange County 2

Learning Objectives:
1: Understand the core elements and foundational principles of the transition, as expounded by expert health professionals and associated organizations in the USA and Mexico, and within the ICF-CY framework.
2: Recognize the biopsychosocial dimensions of transition and the role of multiple disciplines, including clinicians, social workers, administrators, therapists, educators, recreational specialists, lawyers/advocates, in facilitating the transitional plan of care.
3: Identify barriers to successful transition and how these vary based on clinical context, youth and family characteristics and regional/country differences.
4: Develop a standardized template for the transitional process that incorporates the core elements, foundational principles, and the ICF-CY that can be applied to diverse cases.

IC19 - HIP HEALTH IN CEREBRAL PALSY: EVIDENCE-INFORMED MANAGEMENT OF HIP DISPLACEMENT FROM SURVEILLANCE TO SURGERY AND BEYOND
Kate L. Willoughby, BPhysio, DPhysio; Pam Thomason, B Physio, M Physio; Giuliana C. Antolovich, BSc, PhD, MBBS, FRACP; Abhay Khot, MBBS, FRACS; Erich Rutz, MD; Kerr Graham, MD, MD, FRCS (Ed), FRACS
Location: Orange County 3

Learning Objectives:
1: Describe the epidemiology of hip displacement and its relation to gross motor function.
2: Be familiar with the evidence for hip surveillance and clinical guidelines to support its implementation.
3: Evaluate the evidence for interventions for hip displacement and understand their rationale and timing in the context of the child and family and in relation to severity of motor disorder.
4: Understand and evaluate hip morphology at skeletal maturity in youth with CP using the MCPHCS.

IC20 - MANAGEMENT OF DIFFICULT CLINICAL PRESENTATIONS OF HYPERTONIA AND COMPLEX MOVEMENT DISORDERS IN CHILDREN WITH DISABILITIES
Mark Gormley, MD; Tim Feyma, MD; Peter D. Kim, MD
Location: Marquis Northwest

Learning Objectives:
1: Be able to better understand difficult hypertonic and complex movement disorders and possible treatment options, including the importance of a team approach in patient management.
2: Understand when a deep brain stimulator can be useful in managing severe dystonic and dyskinetic conditions.
3: Be able understand which patients may be successfully treated with a ventral-dorsal rhizotomy or a selective dorsal rhizotomy.
4: Understand when intrathecal baclofen, phenol neurolysis, and botulinum toxin injections may be useful in treating hypertonic conditions.

IC21 - MUSCULOSKELETAL ADAPTATIONS TO SPASTICITY - IMPLICATIONS FOR CLINICIANS
N. Susan Stott, MBChB PhD FRACS; Jane Valentine, FRACP; Sian Williams, PhD; Richard L. Lieber, PhD
Location: Grand Ballroom CD

Learning Objectives:
1: Define the features of early declining musculoskeletal health in adults with CP and the effect on chronic disease risk.
2: Understand the growth of muscle in typically developing children and children with cerebral palsy at a biologic and biomechanical level.
3: Critique evidence around long-term use of onabotulinum toxin A injections and effect on muscle structure / function in both animal and human studies.
4: Develop an integrated approach to maintaining muscle health through spasticity reduction and therapy interventions.

IC22 - NEURO-ORTHOPAEDIC JOURNAL CLUB: TOP 10 ARTICLES IN THE LAST YEAR RELATING TO THE ORTHOPAEDIC MANAGEMENT OF CHILDREN WITH NEUROMUSCULAR DISORDERS
Amanda T. Whitaker, MD; Jon R. Davids, MD; Benjamin J. Shore, MD, MPH, FRCS
Location: Platinum 1

Learning Objectives:
1: Introduction to a standardized format for the critical analysis of scientific articles from the medical literature.
2: Be familiar with the most significant recent advances in the orthopaedic management of children with neuromuscular disorders.
3: Incorporate new techniques and technologies into clinical practice.
4: Appreciate current research trends in this area and be inspired to make a contribution to the body of knowledge!
IC23 - ORTHOPAEDIC SURGERY FOR THE UPPER AND LOWER LIMB IN CHILDREN WITH CEREBRAL PALSY
Robert M. Kay, MD; Nina Lightdale-Miric, MD

Location: Orange County 4

Learning Objectives:
1: Accurately identify the most common upper and lower extremity problems in children with CP.
2: Identify common pitfalls in surgery to the upper and lower extremity.
3: Define one or more ways to avoid common treatment errors.
4: Gain perspective on the complexity of surgical planning for children with CP.

IC24 - SURGEON AND PT PARTNERSHIPS IN THE CARE OF YOUTH WITH CEREBRAL PALSY
Nancy Lennon, MS, PT; Wade Shrader, MD; Faithe R. Kalisperis, DPT; Freeman Miller, MD

Location: Elite 3

Learning Objectives:
1: Describe the natural progression of musculoskeletal deformities in youth with spastic CP.
2: Identify indications and surgical methods to address hip subluxation in youth with CP.
3: Engage in treatment planning for gait dysfunction alongside pediatric orthopedic surgeons.
4: Adopt clinical practices to support positive musculoskeletal outcomes for youth with CP.

IC25 - LONG-TERM EFFECTS OF SELECTIVE DORSAL RHIZOTOMY (SDR) FOR INDIVIDUALS WITH CEREBRAL PALSY IN DEVELOPED (USA) AND DEVELOPING (SOUTH AFRICA) COUNTRIES
Tom Novacheck, MD; Nelleke G. Langerak, PhD; Robert P. Lamberts, PhD, FECSS; Marcie Ward, MD

Location: Platinum 3

Learning Objectives:
1: To understand what SDR entails: aim, selection criteria, surgical technique, and additional care and treatment needed pre- and post-surgery.
2: To get insight in the long-term outcomes of SDR in a developed country (Gillette, USA).
3: To get insight in the long-term outcomes of SDR in a developing country (Cape Town, South Africa).
4: To understand how management and long-term function might be affected if a child was a candidate for SDR lived in a developed as opposed to a developing country.

IC26 - TRANSLATING YOUR PRESCRIPTION INTO AN ORTHOTIC INTERVENTION: INSIGHTS INTO THE INTERPRETATION, DESIGN, FABRICATION, FITTING, AND FITTING OF LOWER LIMB ORTHOSES
Tom V. DiBello, CO, FAAOP; Phillip M. Stevens, MEd, CPO; Sally A. DiBello, MPO, CPO

Location: Grand Ballroom JK

Learning Objectives:
1: Upon Completion, attendees will have a more complete understanding of the process associated with the design, fabrication and fitting of a lower limb orthosis (AFO).
2: Upon Completion, attendees will make more informed decisions related to the bio-mechanical capabilities of an AFO.
3: Upon completion, attendees will write more complete prescriptions for orthotic devices including and appreciation of the limitations of the devices.
4: Upon Completion, attendees will more effectively communicate their goals and expectations to the orthotists on their team.

IC27 - TREATMENT WITH INTRATHECAL BACLOFEN IN DYSKINETIC CEREBRAL PALSY: EVIDENCE, INDICATIONS AND EVALUATION
Laura A. Bonouvrié, MD; Annemieke I. Buizer, MD PhD; R. Jeroen Vermeulen, MD PhD; Jules G. Becher, MD PhD

Location: Elite 2

Learning Objectives:
1: Use the knowledge about the current evidence on the effect ITB in cerebral palsy in clinical practice.
2: Describe the indications for ITB in dyskinetic cerebral palsy.
3: Evaluate the effect of ITB in an individual patient in clinical practice.
4: Put the different possibilities of dosing into practice to provide the optimal effect of treatment for the individual patient.

IC28 - FEEDING, EATING AND SWALLOWING TEAM (FEAST) BOOT CAMP: A SKILLS LAB ADDRESSING KNOWLEDGE GAPS IN ORAL AND ENTERAL FEEDING FOR CHILDREN WITH CEREBRAL PALSY
Gina R. Rempel, MD, FRCPC; Marianne E. Gellert-Jones, MA, CCC/SLP; Heidi H. Kecskemethy, MS Ed, RDN, CSP, CBDT; James Plews-Ogan, MD; Jodi Wolff, MS, RDN, LD

Location: Orange County 1

Learning Objectives:
1: Integrate nutritional assessments and oral feeding strategies into clinical assessment and practice for children with CP.
2: Decide on appropriate assessment and family readiness in approaching the topic of enteral nutrition with families.
3: Appreciate the challenges involved in the care of gastrostomy and jejunostomy tubes.
4: Describe the advantages of different food choices in enteral nutrition.

Friday, September 20, 2019: 7:00 pm-12:00am

Networking Dinner and Celebration
Location: City Grove of Anaheim
**Program and Events**

**Saturday, September 21, 2019: 7:00 AM - 8:00 AM**

**Breakfast Seminars**

**BRK21 - A CROSS-CULTURAL EXAMINATION OF STRESS AND PROMOTING COUPLE RELATIONSHIP HEALTH FOR CAREGIVERS OF CHILDREN WITH DEVELOPMENTAL DISABILITIES**
*Carrie Sewell-Roberts, MSW; Tetsuo Sato, PhD; Carol Shrader, BA; Wade Shrader, MD*

Location: Grand Ballroom AB

Learning Objectives:
1. To understand the body of evidence surrounding caregiver stress and its effect on couple relationships from a cross-cultural perspective.
2. To understand from a first-person perspective how stress can affect a caregiver’s ability to cope and maintain healthy relationships.
3. To appreciate why mitigating caregiver stress and promoting parent relationship health is important for achieving best outcomes for children with developmental disabilities.
4. To identify evidence-based tools for assessing caregiver stress and intervention strategies to reduce psychosocial risk and promote relationship health.

**BRK22 - CHARACTERIZING DEVELOPMENTAL STAGES IN INDIVIDUALS WITH CEREBRAL PALSY: FROM MOBILITY TO SOCIAL INTERACTIONS**
*Marloes van Gorp, MSc; Marij E. Roebroeck, PhD; Jan Willem Gorter, MD PhD; Annet J. Dallmeijer, PhD*

Location: Platinum 3

Learning Objectives:
1. Be able to understand the stages and timing of development of capacity of mobility and capability of mobility and self-care in individuals with CP.
2. Understand the stages and timing of development of performance of communication, mobility, daily activities and social interactions of individuals with CP.
3. Understand differences in development of activity and participation for individuals with CP with or without intellectual disability and different levels of gross motor functioning.
4. Be able to differentiate development of several domains and qualifiers of activity and participation.

**BRK23 - USING WEARABLE SENSORS TO MEASURE INFANT LIMB MOVEMENTS AND PREDICT NEURODEVELOPMENTAL OUTCOMES: CURRENT EVIDENCE, OPPORTUNITIES, AND CHALLENGES.**
*Beth A. Smith, PT, PhD; Rujuta B. Wilson, MD*

Location: Orange County 1

Learning Objectives:
1. List 2 validated wearable sensor metrics of infant limb movement.
2. Describe 1 wearable sensor metric that could be created and how it could be validated.
3. Identify 1 potential opportunity for clinical use of wearable sensor measurement of infant limb movement.
4. Identify 1 challenge and potential solution for use of wearable sensor measurement of infant limb movement.

**BRK24 - HOW TO ENGAGE PATIENTS IN RESEARCH AND GARNER PATIENT-REPORTED OUTCOMES USING THE CPRN COMMUNITY REGISTRY.**
*Paul Gross, BA; Mary E. Gannotti, PhD*

Location: Grand Ballroom D

Learning Objectives:
1. ‘Upon completion, participant will be able to articulate the patient populations accessible through the CPRN Community Registry.’
2. ‘Upon completion, participant will be able to describe how to propose a concept and develop a study for use with the CPRN Community Registry.’
3. ‘Upon completion, participant will be able to understand how individuals with CP and their caregivers can be engaged in research discussions to help shape hypotheses and recruit community investigators.’
4. ‘Upon completion, participant will be able to describe how the CPRN Community Registry will be used to gather longitudinal information on outcomes for adults with CP.

**BRK25 - RECENT PRACTICE CHANGING PUBLICATIONS FOR THE PEDIATRIC COMPLEX CARE PROVIDER**
*Kristie Malik, MD*

Location: Grand Ballroom C

Learning Objectives:
1. Discuss current topics and advances in the care of children with medical complexity.
2. Understand the multidisciplinary implication for each recent development.
3. Integrate new findings into daily practice.
4. Discuss commonalities and variations in care internationally.

**BRK26 - RESULTS AND IMPACT OF A SCREENING TO IDENTIFY INFANTS AT RISK FOR CORTICAL VISUAL IMPAIRMENT**
*Christine Roman, PhD; Hillary S. Thomas, M. Ed.*

Location: Orange County 4

Learning Objectives:
1. To consider the early signs of CVI in infants.
2. To consider the use of a 5-point protocol used to identify the presence of early signs of potential signs of CVI.
3. To recognize the rationale for early identification of infants with CVI.
4. To increase awareness of the services and supports used to facilitate improvements in functional vision in infants and children with CVI.
Program and Events

BRK27 - SUPPORTING MENTAL HEALTH IN CHILDREN AND YOUTH WITH DISABILITIES.
Mats Granlund, PhD; Christine Imms, PhD; Rob Brooks, PhD; Ai-Wen Hwang, PhD
Location: Orange County 2
Learning Objectives:
1: Demonstrate state of the art knowledge in how mental problems can be assessed in children and adolescents with disability.
2: Discuss definitions of the constructs mental health, mental health problems and participation.
3: Analyze methodology for assessing longitudinal trajectories of mental health.
4: Demonstrate knowledge about possible interventions for strengthening mental health in children and adolescents with disabilities.

BRK28 - LOWER LIMB ORTHOTIC MANAGEMENT IN CEREBRAL PALSY - AN INTERACTIVE DISCUSSION.
Tom V. DiBello, CO, FAAOP
Location: Marquis Northwest
Learning Objectives:
1: Be exposed to the evidence surrounding the use of lower limb orthoses in Cerebral Palsy.
2: Be exposed to varying opinions and positions of other attendees regarding the use of this modality in this population.
3: Leave with a heightened awareness of other perspectives and views on this topic.
4: Be better informed as to the most effective designs for use in this population.

Saturday, September 21, 2019: 7:00 AM - 8:00 AM
Focused Symposia

SYMP28 - DANCE, DANCE, DANCE - UNIVERSAL LANGUAGE OF EXPRESSION AND MOVEMENT
Bernard Dan, MD PhD; Tara Egan, DPT; Deborah J. Gaebler-Spira, MD; Dido Green, PhD, MSc; Min Shen, MD; Citlali López-Ortiz, PhD, MA
Location: Platinum 1
Learning Objectives:
1: Discuss influences of the local cultural and sociodemographic environments on the implementation of dance programs for rehabilitation.
2: Identify the attributes of western classical ballet training that may be harnessed for enhanced functional outcomes in movement rehabilitation.
3: Discuss the evidence based benefits of dance programs from the ICF perspective with emphasis on activities and participation outcomes using the ICF paradigm.
4: Identify various logistical elements for implementing sustainable dance programs in international sites for children with CP, autism, and intellectual disability.

SYMP29 - IMPACT OF CONGENITAL INFECTIONS INCLUDING ZIKA VIRUS ON NEURODEVELOPMENTAL OUTCOMES AND FAMILIES: WHAT ARE WE MEASURING?
Verónica Schiariti, PhD; Melissa Gladstone, PhD; Egmar Longo, PhD; Antonio Rizzoli Córdoba, MD MSc PhD
Location: Grand Ballroom H
Learning Objectives:
1: To review the epidemiology of Zika/TORCH infections and reported neurodevelopmental outcomes – literature review of recent evidence
2: To apply the ICF as a guiding framework to address needs of pediatric populations affected by congenital infections in studies in LMIC settings
3: To describe what areas of functioning and disability are relevant to parents and caregivers of children affected by congenital infections – ongoing studies in Brazil and Mexico
4: To share lessons learned on ICF-based initiatives for children with CP - due to ZIKV and other aetiologies –modelling interdisciplinary collaboration across different fields (developmental pediatrics, epidemiology, global health)
SYMP30 - KNOWINGLY OR UNKNOWINGLY COMPLICIT?
STIGMATISING HEALTH-CARE PRACTICES RELATED TO
FAMILIES AND CHILDREN WITH DISABILITIES.
Bridget E. O’Connor, BAppSci (Physio); Peter L. Rosenbaum, MD
CM FRCP; Tracey Smythe, MPH, PhD; Virginia Wright, BSc (PT),
MSc, PhD
Location: Orange County 3
Learning Objectives:
1: Define terms and frameworks used that relate to
stigmatising practice.
2: Critique the parent-child-professional relationship,
relationships among professionals, and discipline-specific
practices to which stigmatising attitudes and behaviours
contribute.
3: Identify individualised approaches to support each person
in their situation with ways of addressing ‘status reducing’
health practices
4: Be able to bring a new awareness of stigmatising practice
into their day-to-day interactions with children, families, and
other health professionals.

SYMP31 - PRENATAL CLOSURE FOR SPINA BIFIDA: A
MULTIDISCIPLINARY EXAMINATION OF THE PROS AND CONS
Vineeta T. Swaroop, MD; Robin Bowman, MD; Elizabeth Yerkes, MD
Location: Grand Ballroom G
Learning Objectives:
1: Understand the factors essential to evaluating a patient’s
candidacy for prenatal closure of spina bifida.
2: Define the expected outcomes of prenatal closure from a
neurosurgical perspective.
3: Define the expected outcomes of prenatal closure from a
urological perspective.
4: Define the expected outcomes of prenatal closure from an
orthopaedic surgical perspective.

SYMP32 - SEVERE NEUROLOGICAL IMPAIRMENT - THE
CHALLENGES OF DEFINITION, HEALTHCARE PLANNING AND
END OF LIFE CARE
Denise McDonald, MD; John Allen, MD; Julie Hauer, MD
Location: Grand Ballroom JK
Learning Objectives:
1: Recognise children with severe neurological impairment as
a distinct group.
2: Understand the need for a consensus definition to identify
the population, to inform need and improve medical
decision making.
3: Understand the current challenges to optimal care for
this group, particularly in relation to QoL and end of life
experience.
4: Appreciate the common themes central to the definition of
SNI, which will inform participants in identifying this cohort
within their own clinical practice.

Saturday, September 21, 2019: 8:15am-9:45am
Focused Symposia
SYMP34 - FROM MOTION TO COGNITION: WHAT ARE THE
BEST INGREDIENTS FOR EARLY INTERVENTION TO OPTIMIZE
THE TRANSITION TO SCHOOL ENTRY FOR INFANTS WITH
NEUROMOTOR DYSFUNCTION?
Regina T. Harbourne, PhD, PT; Stacey C. Dusing, PhD; Cathy Morgan,
PhD, BAppSci; Andrea Guzzetta, MD; Michele A. Lobo, PT, PhD
Location: Grand Ballroom AB
Learning Objectives:
1: Describe existing evidence supporting (or not supporting)
early intervention for infants with neuromotor dysfunction.
2: Define three constructs of learning that encompass both
motor learning and cognition.
3: List 5 key ingredients of approaches to early intervention in
infancy with neuromotor dysfunction which are supported
by evidence.
4: Create a scenario using 2 key ingredients that would
advance learning to use within an intervention session for an
infant with neuromotor dysfunction.

SYMP35 - STAYING OUT OF TROUBLE IN HIP AND SPINE
SURGERY IN NON-AMBULATORY CHILDREN WITH
CEREBRAL PALSY: A COMPARISON OF INTERNATIONAL
PERIOPERATIVE MEDICAL MANAGEMENT STRATEGIES AND
SURGICAL INTERVENTIONS.
Benjamin J. Shore, MD, MPH, FRCSC; Wade Shrader, MD; Jay
Berry, MD; Kerr Graham, MD, MD, FRCS (Ed), FRACS; Giuliana C.
Antolovich, BSc, PhD, MBBS, FRACP; Laurie Glader, MD
Location: Orange County 2
Learning Objectives:
1: Demonstrate an evidenced based understanding of the
epidemiology and natural history of hip displacement and
spinal deformity in non-ambulant children with CP.
2: Understand the prevalence of medical co-morbidities in
non-ambulant children with CP, and apply strategies to
optimize health, outcomes and the patient/family experience
through surgery.
3: Demonstrate strategies to address pain, movement disorder
and tone management before, during and after surgery, for
non-ambulant children with CP.
4: Describe an evidenced based understanding of the risks,
benefits and outcomes of orthopaedic surgery for hip
displacement and correction of spinal deformity.
SYMP36 - INTEGRATED MANAGEMENT USING BOTULINUM TOXIN-A FOR HYPERTONIA IN CHILDREN WITH CEREBRAL PALSY
Nigar Dursun, MD; JORGE Carranza-del Rio, MD; Martin Bonikowski, MD; Ana Carolina de Campos, PhD, PT
Location: Orange County 3

Learning Objectives:
1: To understand the level of evidence for the use of BoNT-A in children with CP.
2: To delineate the complexity of the process with highly variable treatment response among patients, and the importance of optimal BoNT-A treatment strategy.
3: To develop skills and knowledge in making clinical decisions on who and how to treat and follow-up.
4: To discuss safety issues.

SYMP37 - LIFELONG MANAGEMENT FOR CHILDREN WITH CEREBRAL PALSY
Min Shen, MD; Xiaojie Li, MD; Bing Liang, MD; Yong Liu, NA; Guorong Wei, DPT
Location: Grand Ballroom G

Learning Objectives
1: Know how to combine the education and medical rehabilitation together in China.
2: Learn the growth process of Chinese CP sufferer.
3: Know the obtain of the CP children(4-10Y) from the program of Shanghai CP Ballet Camp.
4: Learn how to motivate the children activity with CP.

SYMP38 - OPTIMIZATION OF OUTCOMES FOLLOWING SINGLE EVENT MULTI-LEVEL SURGERY (SEMLS): INTERNATIONAL PERSPECTIVES ON A TEAM APPROACH TO IMPROVE GAIT IN CHILDREN WITH CEREBRAL PALSY
Vedant A. Kulkarni, MD; Jon R. Davids, MD; Pam Thomason, B Phyt, M Physio; Alaric Aroojis, MS, D’Ortho, DNB; Kerr Graham, MD, MD, FRCS (Ed), FRACS
Location: Grand Ballroom D

Learning Objectives
1: Define the unique challenges and priorities of the four phases of recovery after Single Event Multi-level Surgery (SEMLS) – inpatient, early post-operative, early rehabilitation, and late rehabilitation.
2: Understand the principles of effective multi-modal post-operative pain management and physical therapy following SEMLS.
3: Tailor a child’s post-operative casting and orthotics based on gait optimization goals.
4: Identify strategies to create a “SEMLS Team” for effective post-operative rehabilitation in a diverse set of practice environments.

SYMP39 - SUPPORTING PARENTS OF INFANTS IDENTIFIED AS AT RISK OF CEREBRAL PALSY THROUGH PARENTING AND MINDFULNESS-BASED APPROACHES
Roslyn N. Boyd, PhD, BAppSc (PT), BSc, PGrad; Koa Whittingham, PhD; Catherine K. Mak, PhD
Location: Orange County 4

Learning Objectives:
1: Understand the current need to support parents of children with disability and to understand how parenting impacts on child development.
2: Understand how Mindfulness-based practices and Acceptance and Commitment Therapy (ACT) may be beneficial to parents and how simple ACT strategies can be adopted by all clinicians.
3: Recognise possible challenges clinicians may experience in supporting parents.
4: Recognise and take opportunities to support parents and the connection between parents and children in a manner that promotes parental resilience.

SYMP40 - SURGICAL DECISION MAKING IN LIFE LIMITING ILLNESSES: MEDICAL, SURGICAL, ETHICAL, AND PALLIATIVE PERSPECTIVES
Garey Noritz, MD; Lisa Humphrey, MD; Prashant S. Malhotra, MD; Amanda T. Whitaker, MD
Location: Grand Ballroom C

Learning Objectives:
1: Recognize areas of uncertainty in regards to surgical decision making for children with severe neurologic impairment.
2: Construct an ethical analysis of a surgical decision using the “Four Topics” model.
3: Partner with a family in shared decision making when proposing surgical procedures for children with severe neurological impairment.
4: Distinguish the concept of surgical “futility” from “poor prognosis” or “poor quality of life”.

SYMP41 - VISION IMPAIRMENT AND VISUAL ABILITY IN CHILDREN WITH CEREBRAL PALSY: A MULTIDISCIPLINARY PERSPECTIVE
Karen Harpster, PhD, OTR/L; Belinda J. Deramore Denver, OT; Corinna M. Bauer, Ph.D.; Andrea Guzzetta, MD, PhD; Michele Shusterman; Lindsay Hillier, M.Ed.
Location: Grand Ballroom JK

Learning Objectives:
1: Reflect on how vision is broader than impairment at the eye level of the body function and structure domain of the ICF
2: Understand the importance and impact of impairments (vision, cognitive and motor) on the functioning of a child with cerebral palsy
3: Consider currently available interventions, and intervention gaps, including early intervention, environmental modification and the importance of the parent and family
4: Consider priorities and approaches for future optimization of visual functioning in children with cerebral palsy.
Program and Events

SYMP42 - CULTURAL VARIATIONS IN THE IMPLEMENTATION OF PEDIATRIC CONSTRAINT-INDUCED THERAPY IN DEVELOPING COUNTRIES
Stephanie C. Deluca, PhD; Patty Coker-Bolt, PhD, OTR/L, FAOTA; Sharon L. Ramey, PhD; Angela Shierk, OTR, PhD; Heather Roberts, PhD, OT
Location: Grand Ballroom H

Learning Objectives:
1. To learn challenges to implementing P-CIMT in developing countries.
2. To learn adaptations used in Ethiopia & Vietnam to implement P-CIMT.
3. To learn adaptations used in Mexico to implement P-CIMT.
4. To learn common adaptations to P-CIMT in multiple developing countries.

Saturday, September 21, 2019 – 8:15 am – 10:00 am
Free Paper Sessions

I. Imaging
Location: Marquis Northwest
8:15 am – 8:22 am –
I1. STRUCTURAL BRAIN MRI AT TERM-EQUIVALENT AGE (TEA) IS ASSOCIATED WITH HAMMERSMITH INFANT NEUROLOGICAL EXAM (HINE) AND GENERAL MOVEMENT ASSESSMENT IN VERY PRETERM INFANTS
Karen Harpster, PhD, OTR/L; Stephanie Merhar, MD, MS; VenkaSitaPriyanka Illapani, MS; Beth Kline-Fath, PhD; Nehal Parikh, DO

8:23 am – 8:30 am –
I2. CLINICAL CORRELATES OF IMPAIRED WHITE MATTER TRACTS IN CHILDREN WITH SPASTIC BILATERAL CEREBRAL PALSY
Andy Vuong, MS; Eileen G. Fowler, PT, PhD; Joyce H. Matsumoto, MD; Loretta A. Staudt, MS; PT; Marcia Greenberg, MS, PT; Hajime Yokota, MD, PhD; Shantanu Joshi, PhD

8:31 am – 8:38 am –
I3. BRAIN CONNECTIONS ASSOCIATED WITH CO-OP FOR CHILDREN WITH DEVELOPMENTAL COORDINATION DISORDER
Jill G. Zwicker, PhD, OT; Sara Izadi-Najafabadi, MS

8:39 am – 8:46 am –
I4. FIXEL-BASED MORPHOMETRY REVEALS ASSOCIATIONS BETWEEN BRAIN MICRO- AND MACROSTRUCTURE OF PRETERM INFANTS AT TERM AND NEURODEVELOPMENTAL OUTCOMES AT 2 YEARS
Roslyn N. Boyd, PhD, BAppSc (PT); BSc (Anatomy), PGrad (Biomech); Joanne M. George, PhD; Paul Colditz, PhD, MD; Stephen Rose, PhD; Jurgen Fripp, PhD

8:47 am – 8:54 am –
I5. SPONTANEOUS SOMATOSENSORY CORTICAL ACTIVITY IS DIMINISHED IN ADOLESCENTS WITH CEREBRAL PALSY
Michael P. Trevorrow, BS; James E. Gehringer, B.S.; Tony Wilson, PhD; Max Kurz, PhD

9:10 am – 9:17 am –
I6. MAGNETIC RESONANCE ELASTOGRAPHY OF THE BRAIN IN CHILDREN WITH CEREBRAL PALSY: BRAIN STIFFNESS RELATIONSHIPS WITH FUNCTIONAL BALANCE REACTIONS
Curtis L. Johnson, PhD; Grace McIlvain, BS; James B. Tracy, MS; Charlotte A. Chaze, MS; Gabrielle M. Villermaux; Henry G. Wright, DPT; Freeman Miller, MD; Jeremy R. Crenshaw, PhD

9:18 am – 9:25 am –
I7. PROFILE OF CHILDREN WITH CEREBRAL PALSY AND A NORMAL MAGNETIC RESONANCE IMAGING STUDY
Arielle Springer: Sasha Dyck Holzinger, RN; John Andersen, MD, FRCP; David Buckley, M.B., Ch.B. Sheffield, F.R.A.C.P., FRCP; Darcy L. Fehlings, MD; Adam Kirton, MD MSc FRCP; Louise Koclas, MD; Nicole Pigeon, MD; Esias Van Rensburg, MD; Ellen Wood, MD; Maryam Oskoui, MDCM, FRCP; MSc, FAAN; Michael Shevell, MDCM

9:26 am – 9:34 am –
I8. UNDERSTANDING THE IMPACT OF BILATERAL BRAIN INJURY IN CHILDREN WITH CEREBRAL PALSY
Roslyn N. Boyd, PhD, BAppSc (PT); BSc (Anatomy), PGrad (Biomech); Alex M. Pagnozzi, PhD; Jurgen Fripp, PhD; Stephen Rose, PhD

9:35 am – 9:42 am –
I9. PREDICTING MOTOR AND COGNITIVE OUTCOMES FROM MRIS OF CHILDREN WITH ACQUIRED BRAIN INJURY
Roslyn N. Boyd, PhD, BAppSc (PT); BSc, PGrad; Alex M. Pagnozzi, PhD; Jurgen Fripp, PhD; Stephen Rose, PhD

9:43 am – 9:50 am –
I10. CORTICAL OSCILLATIONS THAT UNDERLIE VISUAL SELECTIVE ATTENTION ARE UNCHARACTERISTIC IN ADOLESCENTS WITH CEREBRAL PALSY
Rashelle Hoffman, DPT; Tony Wilson, PhD; Max Kurz, PhD

J. Transitions/Adult Care
Location: Platinum 1
8:15 am – 8:22 am –
J1. ARE MOTOR DIFFICULTIES IN CHILDREN WITH CHD TRANSIENT?
Marie-Eve Bolduc, MSc, OT; Eliane Dionne, OT; Annette Majnemer, PhD, OT; Marie Brossard-Racine, OT, PhD

8:23 am – 8:30 am –
J2. CEREBELLAR DIFFERENCES WITH REHABILITATION IN CHILDREN WITH DEVELOPMENTAL COORDINATION DISORDER
Kamaldeep K. Gill, OT; Donna Lang, PhD; Dan Goldowitz, PhD; Jill G. Zwicker, PhD, OT

8:31 am – 8:38 am –
J3. INCREASING SYNCHRONY OF MATERNAL/INFANT CORTICAL RESPONSES AS MOTHERS INCREASE SENSORY SCAFFOLDING DURING INTERACTIONS
Mary Lauren M. Neel, MD; Krystal Hay, DPT; Melissa Moore-Clingenpeel, MA, MS; Ashley Miller, MM, MT-BC; Leila Emery, MMT, MT-BC; Kaleigh Hague, MT-BC; Nathalie Maitre, MD
Program and Events

SATURDAY

8:39 am – 8:46 am –

J4. A STATE-OF-SCIENCE ON ADULTS WITH CEREBRAL PALSY AS A BASE FOR DEVELOPING AN ICCF CORE SET
Suzie Noten, MSc; Joyce Benner, MSc; Chonnani Limsakul, MD; Wilma M. van der Slot, MD PhD; Henk J. Stam, MD PhD; Melissa Selb, MSc; Rita van den Berg-Emons, PhD; Marij E. Roebroeck, PhD

8:47 am – 8:54 am –

J5. DEVELOPMENTAL TRAJECTORIES OF CAPABILITY IN MOBILITY AND IN SELF-CARE OF CHILDREN AND ADOLESCENTS WITH CEREBRAL PALSY: A COLLABORATIVE INTERNATIONAL STUDY
Jan Willem Gorter, MD PhD; Dirk-Wouter Smits, PhD; Corinne Riddell, PhD; Jeanine M. Voorman, MD PhD; Peter L. Rosenbaum, MD CM FRCP; Robert Palisano, ScD; Stephen Walter, PhD; Steven Hanna, PhD; Leontien van Wely, PhD; Marjolijn Ketelaar, PhD

9:10 am – 9:17 am –

J6. OUTCOMES OF AMBULATORY FUNCTION IN ADULTS WITH CEREBRAL PALSY: EVALUATING CHANGE FROM ADOLESCENCE
Nancy Lennon, MS, PT; Chris Church, MPT; Wade Shrader, MD; William Robinson, BS; Jose J. Salazar Torres, PhD; Daveda Taylor, DPT; Tim Niller, PhD; Freeman Miller, MD

9:18 am – 9:25 am –

J7. BONE MINERAL DENSITY IN AMBULANT ADULTS WITH CEREBRAL PALSY: IMPLICATIONS FOR HEALTHY AGING
Nelleke G. Langerak, PhD; Thulfieq Behardien, BSc; Maaike M. Eken, PhD; Berendina E. Veerbeek, MSc; Anthony G. Fieggen, MD, FCS; Jacques du Toit, MBCb(Stell),FC Orth(SA), MScClinEpi; Robert P. Lamberts, PhD, FECCSS

9:26 am – 9:33 am –

J8. CHANGES IN WALKING ABILITY BETWEEN CHILDHOOD AND ADULTHOOD IN CEREBRAL PALSY: A SYSTEMATIC REVIEW WITH META-ANALYSIS
Hsiu-Ching Chiu, PhD; Louise Ada, PhD; Chieh-Feng Chen, PhD

9:34 am – 9:41 am –

J9. MUSCULOSKELETAL DISORDERS AMONG OLDER ADULTS WITH AND WITHOUT CEREBRAL PALSY: A COMPARISON OF REHABILITATION SERVICE USE AND COMORBIDITIES USING NATIONAL MEDICARE CLAIMS DATA
Deborah E. Thorpe, PT, PhD; Mary E. Gannotti, PhD; Chin-Hua Wang, PhD; Janet Freburger, PT, PhD

8:39 am – 8:46 am –

K1. Efficacy of the Start-Play Program for Infants with Neuromotor Disorders: Motor Outcomes
Michele A. Lobo, PT, PhD; Regina T. Harbourne, PhD, PT; Stacey C. Dusing, PhD; Sarah W. McCoy, PhD; Andrea B. Cunha, PhD; Iryna Babik, PhD; Lin-Ya Hsu, PhD; Natalie A. Koziol, PhD; James A. Bovaird, PhD; Emily C. Marcinowski, PhD; Hui-Ju Chang, Ph.D.; Mihee An, PhD; Susan Sheridan, PhD; Sandra Willett, PT, PCS, MS

8:23 am – 8:30 am –

K2. DEVELOPMENT OF NORMAL AND ABERRANT FIDGETY MOVEMENTS IN PRETERM AND TERM BORN INFANTS: OPTIMISING TIMING OF PRECHTL’S GENERAL MOVEMENTS ASSESSMENT
Alicia Spittle, PhD; Amanda K. Kwong, BPhysio (Hons); Lex Doyle, MD; Katherine Lee, PhD; Christa Einspieler, PhD; Joy Olsen, PhD; BOT; Abbey Eeles, PhD, BOT; Jeanie Cheong, MD

8:31 am – 8:38 am –

K3. COMMUNITY-BASED EARLY DETECTION PROGRAM FOR INFANTS AT HIGH RISK OF CEREBRAL PALSY IN A LOW-MIDDLE INCOME COUNTRY
Asis Kumar Ghosh, MPT, BPT; Roslyn N. Boyd, PhD, BAppSc (PT); BSc, PGrad; Iona Novak, PhD; Kathy Zebracki, PhD; Kathy Zebracki, PhD; Katherine Benfer, PhD, MPH, BSpPath

8:39 am – 8:46 am –

K4. MEASURING EARLY PROBLEM-SOLVING IN CHILDREN WITH MOTOR IMPAIRMENTS: EVALUATING RESPONSIVENESS OVER TIME USING A MODIFICATION OF THE EARLY PROBLEM SOLVING INDICATOR
Rebecca M. Molinini, DPT; Ketaki Inamdar, MPT; Emily C. Marcinowski, PhD; Stacey C. Dusing, PhD; Natalie A. Koziol, PhD; Michele A. Lobo, PT, PhD; Regina T. Harbourne, PhD, PT; Sarah W. McCoy, PhD; James A. Bovaird, PhD

8:47 am – 8:54 am –

K5. SUPPORTING PLAY, EXPLORATION AND EARLY DEVELOPMENT INTERVENTION (SPEEDI) FOR PRETERM INFANTS: A FEASIBILITY STUDY IN AN AUSTRALIAN CONTEXT
Françoyse Finlayson, BA; Stacey C. Dusing, PhD; Joy Olsen, PhD, BOT; Andrea Guzzetta, MD, PhD; Amanda K. Kwong, BPhysio (Hons); Alicia Spittle, PhD

9:10 am – 9:17 am –

K6. EARLY INTERVENTION SERVICE INTENSITY AND CHANGE IN CHILDREN’S SOCIAL-EMOTIONAL AND COGNITIVE FUNCTIONAL CAPABILITIES
Beth M. McManus, PhD; Mary A. Khetani, ScD; Zachary Richardson, MA, PhD; Beth Scully, BS; Jodi Littfin, PhD; Natalie Murphy, MPH; Brianna Rigau, OTR/L
9:18 am – 9:25 am –
K7. EARLY MOTOR BEHAVIOR, NEURODEVELOPMENTAL OUTCOME, AND FUNCTIONAL BRAIN CONNECTIVITY IN PRETERM INFANTS
Colleen Peyton, DPT; Christa Einspieler, PhD; Lars Adde, PT, Ph.D.; Toril Fjortoft, PT, PhD; Michael Schreiber, MD; Alexander Drobyshhevsky, PhD; Jeremy Marks, MD, PhD

9:26 am – 9:33 am –
K8. EFFECT OF NEONATAL THERAPY INTERVENTION ON NEUROBEHAVIOR, NEUROMOTOR OR COGNITIVE DEVELOPMENT OF PRETERM INFANTS
Sania Khurana, PhD; Stacey C. Dusing, PhD; Audrey E. Kane, PhD, OTR/L; Shaaron Brown, DPT; Talicia Tarver, MLIS

9:34 am – 9:41 am –
K9. A COMBINATION OF INFANT MOTOR ASSESSMENTS PREDICTS NEURODEVELOPMENTAL OUTCOMES IN PRETERM INFANTS
Colleen Peyton, DPT; Christa Einspieler, PhD; Toril Fjortoft, PT, Ph.D.; Lars Adde, PT, Ph.D.; Michael Schreiber, MD; Michael E. Msall, MD

9:42 am – 9:49 am –
K10. PREDICTION OF PRESCHOOL COGNITIVE ABILITIES USING THE BAYLEY SCALES OF INFANT TODDLER DEVELOPMENT (3RD EDITION) IN MEDICALLY COMPLEX CHILDREN
Raye-Ann deRegnier, MD; Lynn Boswell, MS, PT; Annamarie Russow, MsEd; Mary Kay Santella, PT; Marie Weissbourd, PhD

L. Sensory and Pain
Location: Platinum 3

8:15 am – 8:22 am –
L1. EFFICACY OF THE START-PLAY PROGRAM FOR INFANTS WITH NEUROMOTOR DISORDERS: COGNITIVE OUTCOMES
Regina T. Harbourne, PhD, PT; Stacey C. Dusing, PhD; Michele Lobo, PhD, PT; Sarah W. McCoy, PhD; Natalie A. Koziol, PhD; Lin-Ya Hsu, PhD; Sandra Willett, PT, PCS, MS; Emily M. Marcinowski, PhD; Iryna Babik, PhD; Andrea B. Cunha, PhD; Mihee An, PhD; Hui-Ju Chang, Ph.D.; James A. Bovaird, PhD; Susan Sheridan, PhD

8:23 am – 8:30 am –
L2. COMPARING PAIN, FATIGUE, DEPRESSIVE SYMPTOMS AND SLEEP DISTURBANCE BETWEEN YOUNG ADULTS WITH CEREBRAL PALSY AND A REFERENCE POPULATION
Martines van Corr, MSc; Leontien van Wely, PhD; Annet J. Dalmeijer, PhD; Vincent de Groot, MD PhD; Caroline B. Terwee, PhD; Gerard Flens, MSc; Henk J. Stam, MD PhD; Wilma M. van der Slot, MD PhD; Marij E. Roebroeck, PhD

8:31 am – 8:38 am –
L3. PAIN IN ADULTS WITH CEREBRAL PALSY: A WORLD WIDE STUDY WITH INDIVIDUAL PARTICIPANT DATA.
Wilma M. van der Slot, MD PhD; Joyce Benner, MSc; Laura K. Brunton, PT, PhD; Joyce Engel, Prof; Philippe Gallien, MD; Sander Hilberink, PhD; Grethe Månun, PhD MD; Prue E. Morgan, BAppSc (PT); MAppSc (PT); Arve Opheim, PhD; Inmaculada Riquelme, PhD; Elisabet Rosby-Bousquet, PT, PhD; Tülay Tarsuslu Simsek, PT MD; Deborah E. Thorpe, PT, PhD; Rita van den Berg-Emons, PhD; Laura Vogt, PhD; Marij E. Roebroeck, PhD

8:39 am – 8:46 am –
L4. RELATIONSHIP BETWEEN SELF-CARE AND MANUAL ABILITY IN CHILDREN WITH CEREBRAL PALSY (CP) AGED 1.5 TO 12 YEARS WITH CEREBRAL PALSY: A LONGITUDINAL STUDY.
Andrea N. Burgess, OT; Roslyn N. Boyd, PhD, BAppSc (PT), BSc, PGrad; Mark Chatfield, BA, MS Statistics; Jenny Ziviani, OT; Robert Ware, PhD; Leanne Sakzewski, PhD, B0ccThy

8:47 am – 8:54 am –
L5. DETERMINANTS OF SEVERE VISUAL IMPAIRMENT IN CHILDREN WITH CEREBRAL PALSY. A SCPE NETWORK POPULATION-BASED REGISTER STUDY
Javier de la Cruz, MD; Elodie Sellier, MD, PhD; Veronka Horber, MD; Inge Franki, PT, PhD; Carmen R. Pallás, MD, PhD; Kate Himmelmann, MD, PhD; Els Ortibus, MD PhD; Marij E. Roebroeck, PhD

9:10 am – 9:17 am –
L6. ASSOCIATIONS OF PAIN, SLEEP DISORDERS, FATIGUE, AND COMORBID NEURODEVELOPMENTAL CONDITIONS WITH DEPRESSIVE DISORDERS AMONG PRIVATELY-INSURED ADULTS WITH CEREBRAL PALSY
Daniel Whitney, PhD; Seth Warschausky, PhD; Daniel Whibley, PhD; Anna Kratz, PhD; Susan Murphy, PhD; Edward A. Hurvitz, MD; Mark Peterson, PhD

9:18 am – 9:25 am –
L7. ENABLING VISIONS AND GROWING EXPECTATIONS (ENVISAGE): COMPREHENSIBILITY AND USABILITY OF A SERIES OF WORKSHOPS FOR PARENTS OF CHILDREN WITH A NEURODISABILITY
Laura Miller, PhD; Grace Nickson, Bachelor Occ Therapy (Hons); Christine Imms, PhD; Peter L. Rosenbaum, MD CM FRCPC; Jenny Ziviani, OT; Rachel E. Martens; Vicki Cavalieros; Andrea Cross, PhD

9:26 am – 9:33 am –
L8. NEURODEVELOPMENT OF INFANTS BORN WITH COMPLEX CONGENITAL HEART DEFECT: MOTOR AND COGNITIVE DELAYS ARE COMMON UNDER 6 MONTHS OF AGE
Tanaya Tripathi, PhD; Thais Cabral, PhD; Gardenia Barbosa, PhD; Tondi M. Harrison, PhD, RN, FAAN; Janet Simsic, MD; Jill C. Heathcock, MPT, PhD
9:34 am – 9:41 am –

L9. QUANTITATIVE MEASURES OF NUTRITIVE SUCKING CORRELATE WITH MICROSTRUCTURAL ABNORMALITIES IN THE SENSORIMOTOR TRACTS OF NEONATES
Christos Papadakis, PhD; Eleonora Tamilia, PhD; Marianna S. Parker; MBBS; Maria Rocchi, MSc; Fabrizio Taftoni, PhD; Anne Hansen, MD; P Ellen Grant, MD

9:42 am – 9:49 am –

L10. PAIN INTERFERENCE IN AMBULATORY YOUNG ADULTS WITH CEREBRAL PALSY
Wade Shrader, MD; Nancy Lennon, MS, PT; Chris Church, MPT; Allison Wickham, BS; Tim Niiler, PhD; Freeman Miller, MD

9:30 am – 3:30 pm

AACPDM Community Forum
Location: Grand Ballroom EF

10:00am - 10:30am
Get Up and Move - Adaptive Basketball Competition
#Getupandmove
Location: Grand Ballroom F
Come try your basketball skills against the clock or just try a really great sport opportunity! No experience (or even ability) necessary!

Saturday, September 21, 2019: 10:30am-12:00pm

GENERAL SESSION
General Session Moderator: Mauricio R. Delgado, MD
Location: Platinum 5-10
Gayle G. Arnold Promising Career Award Presentation
CPF Update
Rachel Byrne
EACD Update
Giovanni Cioni, MD, PhD
AusACPDM Update
Christine Imms, PhD
AMexPCTND Update
Alberto Moreno, MD
Lifeshots Award Winner
Chambers Family Lifespan Lecture - Parents Panel
A Conversation with Parents about Cultural Sensitivity in Healthcare
Moderator: Olivia Raynor, PhD
Panelists: Herlinda Rodriguez and Cathy Liu
2020 Annual Meeting Introduction
Susan Sienko, PhD

Saturday, September 21 1:30pm-3:30pm

Instructional Courses

IC29 - A MULTIDISCIPLINARY APPROACH TO BEST OUTCOMES IN EPILEPSY SURGERY
Nathan S. Rosenberg, MD; Adam Ostendorf, MD; Jonathan Pindrik, MD
Location: Grand Ballroom H
Learning Objectives:
1: List clinical characteristics of patients who may benefit from epilepsy surgery.
2: Describe common neuropsychological outcomes after epilepsy surgery.
3: List the most common neurosurgical procedures used in epilepsy surgery.
4: Describe the options that are available for rehabilitation after epilepsy surgery.

IC30 - ASSESSMENT AND TREATMENT OF ADULT PATIENTS WITH CEREBRAL PALSY AND COMORBID DEPRESSION
David Roye, MD; Hiroko Matsumoto, PhD; Daniel F. Linhares, MD; Jan L. Moskowitz, MSW
Location: Orange County 2
Learning Objectives:
1: How to properly assess patients for depression and utilize validated screening tools. Review the prevalence of depression in the adult population with CP and potential risk factors.
2: Understand different types of therapeutic approaches for mental health and the role of health care providers, other than psychiatrists, in the treatment for depression.
3: Review the prevalence of different psychotropic medications being used for adult patients with CP.
4: Understand the difference between multiple antidepressant medications and how to use their individual properties to more precisely target the depressive symptoms of each individual patient.

IC31 - GLOBAL IMPLEMENTATION OF THE INTERNATIONAL DYSPHAGIA DIET STANDARDISATION INITIATIVE FRAMEWORK: THE “HOW TO” FOR IMPROVING SAFETY AT MEALTIMES FOR CHILDREN AND ADULTS WITH DEVELOPMENTAL CONDITIONS
Janice Duivestein, BSR OT/PT, MRSc; Danielle Rae, BEd., MOT
Location: Grand Ballroom D
Learning Objectives:
1: To articulate how IDDSI offers a common language to improve safety and can also facilitate research to benefit those with dysphagia.
2: To describe the rationale and process behind the development of the IDDSI framework.
3: To demonstrate skill in using the IDDSI testing methods.
4: To discuss how implementation might be initiated and supported in different practice settings using the many freely available IDDSI resources.
IC32 - VISION PROBLEMS IN CHILDREN WITH CEREBRAL PALSY: PRACTICAL STRATEGIES FOR SCREENING/IDENTIFICATION, REFERRAL, DIAGNOSIS AND TREATMENT
Sharon S. Lehman, MD; Linda Lawrence, MD
Location: Grand Ballroom C
Learning Objectives:
1: Describe current recommendations for vision screening and special considerations for children with cerebral palsy.
2: Identify characteristics and risk factors for cortical/cerebral visual impairment in children with cerebral palsy in order to refer those who warrant an evaluation by the ophthalmologist.
4: Describe the steps necessary for a child to obtain vision services.

IC33 - FIXING THE FEMURS, FIBRES AND FEET: IMPACT ON FITNESS, FUNCTION, FRIENDSHIPS AND THE FUTURE
Pam Thomason, B Phty, M Physio; Kate L. Willoughby, BPhysio, DPhysio; Erich Rutz, MD; Abhay Khot, MBBS, FRACS; Kerr Graham, MD, MD, FRCS (Ed), FRACS
Location: Platinum 3
Learning Objectives:
1: Understand musculoskeletal outcomes in children and adolescents within the ICF framework and how this may impact future management.
2: Understand the importance of the “f words” to inform our practice and influence our management decisions.
3: Understand the orthopaedic management of lower limb deformities in order to achieve stability of gait correction post surgery.
4: Recognise positive and negative predictors of musculoskeletal health at skeletal maturity and its impact on the “f-words”.

IC34 - LEARNING HEALTH SYSTEMS FOR CEREBRAL PALSY: GENERATING USABLE DATA AND MEANINGFUL KNOWLEDGE
Nikolas J. Koscielniak, MS, MPH, OTR/L; Carole A. Tucker, PT, PhD
Location: Grand Ballroom JK
Learning Objectives:
1: To understand concepts and components of LHS and be able to effectively communicate LHS importance to clinical staff and administration.
2: To become familiar with the application of LHS in support of clinical decision-making in individuals with CP.
3: To understand the role of clinical documentation for LHS and key strategies to collect meaningful data in large-scale health systems.
4: To develop skills and knowledge of implementation science for LHS through applied activities.

IC35 - THE YEAR’S TOP 10 ARTICLES ON DEVELOPMENTAL DISABILITIES
Nancy A. Murphy, MD; Richard Adams, MD
Location: Platinum 2
Learning Objectives:
1: Summarize the major conclusions of each of the ten articles presented.
2: Identify areas in which additional research is needed.
3: Evaluate the utility of each of the articles for their own clinical practice.
4: Be inspired by the presentations to seek articles on their own.

IC36 - MULTI-FACETTED MEALTIME MANAGEMENT FOR CHILDREN WITH CEREBRAL PALSY: THE ART AND SCIENCE OF SUPPORTING ORAL FEEDING
Gina R. Rempel, MD, FRCPC; Cindy B. Dodds, PT, PhD; Diane Sellers, PhD; Maria C. Ibarra, MD
Location: Orange County 3
Learning Objectives:
1: Identify points of controversy in the literature regarding approaches for managing eating and drinking for children with cerebral palsy.
2: Appreciate a broad and global perspective of eating and drinking in children with cerebral palsy.
3: Recognize and value international strategies used to support eating and drinking in children with cerebral palsy.
4: Consider quality of life and supportive care models to mitigate risk and optimize mealtime participation for children with cerebral palsy.

IC37 - NEONATAL BRACHIAL PLEXUS PALSY: UPDATES ON TREATMENT, PROGNOSIS AND OUTCOMES.
Sue Mukherjee, MD; Robert Rinaldi, MD; Virginia S. Nelson, MD, MPH; Lynda Yang, MD; Mary Catherine Spires, MD
Location: Marquis Northwest
Learning Objective
1: Describe risk factors for NBPP and prognostic indicators
2: Describe tests used to support prognostic and surgical decision making in NBPP, and surgical options
3: Understand the role of rehab methods, splints and taping to support function and recovery in NBPP
4: List outcomes of interest and discuss outcomes measurement in NBPP
IC38 - NEUROCOGNITION IN SPINA BIFIDA
Marie Peny-Dahlstrand, PhD; Timothy J. Brei, MD; Andrew Zabel, Ph.D.; Barbro Lindquist, PhD
Location: Orange County 4
This instructional course aims to give the participants a possibility to increase their knowledge about the cognitive profile in persons with SB and to discuss methods to enable people with SB to reach more independence and participation in their daily lives.
Learning Objectives:
1. Describe the cognitive profile in persons with SB.
2. Understand how executive dysfunction can influence activity performance, self-management and participation in people with SB.
3. Understand self-management theory and describe self-management measures in SB.
4. Describe methods to enable people with SB to reach more independence and participation in their daily lives.

IC39 - PREPARING CHILDREN FOR SUCCESSFUL COMMUNITY PARTICIPATION
Lisa A. Chiarello, PT, PhD, FAPTA; Robert J. Palisano, PT, ScD, FAPTA
Location: Platinum 1
Learning Objectives:
1. Collaborate with families, children, and community leaders to identify participation goals and evaluate child and family outcomes.
2. Assess child, family, and community strengths and what needs to occur to achieve participation goals.
3. Identify intervention strategies that can be used in outpatient pediatric rehabilitation to support children’s community participation goals.
4. Identify solutions to barriers to supporting community participation in outpatient pediatric rehabilitation.

IC40 - VISUAL FUNCTION CLASSIFICATION SYSTEM FOR CHILDREN WITH CEREBRAL PALSY
Andrea Guzzetta, PhD; Daniela Ricci, PhD; Francesca Tinelli, PhD
Location: Grand Ballroom AB
Learning Objectives:
1. Describe different visual behaviours of children with cerebral palsy.
2. Be able to use a new validate instrument for the classification of visual function in children with cerebral palsy.
3. Be able to spread and to teach to colleagues and parents this new visual classification system.
4. Be able to speak a “common Language” about visual disorders in children with cerebral palsy.

IC41 - COLLEGE IS POSSIBLE: PLANNING AND LIVED EXPERIENCE
Cory Ellen Nourie, MSS, MLSP; Jennifer LeComte, DO; Benjamin W. Shrader, BA; Mason Shrader, BA; Carol Shrader, BA
Location: Grand Ballroom G
Learning Objectives:
1. To identify the variety of post-secondary educational opportunities available.
2. To describe strategies for college preparation including seeking academic and non-academic accommodations.
3. To list strategies for self-management and utilization of health care while in college.
4. To discuss real-life perspectives on navigating the college process, from a parent and students’ perspectives.
Scientific Posters

Thursday, September 19, 2019: 6:30 PM - 8:00 PM

T-A-SP01 - PREVALENCE OF ABNORMAL MOVEMENT AND POSTURAL PATTERNS IN HEALTHY LOW RISK INFANTS FROM BELGIUM, INDIA, NORWAY, AND THE UNITED STATES
Raye-Ann deRegnier, MD; Lynn Boswell, MS, PT; Toril Fjortoft, PT, PhD; Lars Adde, PT, PhD; Aurelie Pascal, PT; Niranjan Thomas, MD; Annamarie Russow, MS Ed.; Christine Van den Broeck, PT, PhD; Mary Weck, PT; Ragnhild Stoen, MD, PhD

T-A-SP02 - DIFFERENCES BETWEEN ADULTS AND CHILDREN IN CEREBRAL PALSY PREVALENCE, SUBTYPES AND ASSOCIATED IMPAIRMENTS. A POPULATION-BASED STUDY
Ulrica Jonsson, MD; Kate Himmelmann, MD, PhD; Meta Nyström-Eek, PhD

T-A-SP03 - ADOLESCENTS WITH CEREBRAL PALSY THAT HAVE BDNF VAL66MET POLYMORPHISM DISPLAY SUPPRESSED SOMATOSENSORY CORTICAL OSCILLATIONS
Hannah R. Bergwell, BS, BA; Mike Trevarrow, BS; Shelley D Smith, PhD; Jennifer N. Sanmann, PhD; Tony W. Wilson, PhD; Max Kurz, PhD

T-A-SP04 - ALTERED GENE EXPRESSION AND DNA METHYLATION PROFILES IN SKELETAL MUSCLE FROM INDIVIDUALS WITH SPASTIC CP
Karyn Robinson, MS; Erin Crowgey, PhD; Adam Marsh, PhD; Stephanie Lee, MS; Robert Akins, PhD

T-A-SP05 - TESTING NEW UK STANDARDS FOR PUBLIC INVOLVEMENT IN RESEARCH: THE EXPERIENCE OF THE NORTHERN IRELAND CEREBRAL PALSY REGISTER
Claire Kerr, BSc (Hons) Physio, PhD; Karen McConnell, BSc (Hons) Physiotherapy, PhD; Helen Savage; Oliver Perra, BSc (Hons) Psychology, PhD

T-A-SP06 - EPIDEMIOLOGY OF EYE DISEASES AMONG CHILDREN WITH DISABILITY IN RURAL BANGLADESH: FINDINGS FROM THE SHAHJADPUR CHILDREN’S COHORT
Mohammad Muhit, PhD; Tasneem Karim, MBBS, MPH; Israt Jahan, MPP; Mahmudul Hassan Al Imam, MPH; Manik Chandra Das, MBBS; Gulam Khandaker, MBBS, DCH, MPH, PhD, FAPPHM

T-A-SP07 - QUANTITATIVE STRUCTURAL AND DIFFUSION MRI MEASURES FOR AUTOMATED CLINICAL REPORTING IN EARLY PRETERM AND TERM-EQUIVALENT MRI.
Miles L. Seidel, BS; Kerstin Pannek, PhD; Joanne M. George, PhD; Stephen Rose, PhD; Paul Colditz, PhD, MD; Roslyn N. Boyd, PhD, BAAppSc (PT), BSc (Anatomy), PGrad (Biomech); Jurgen Frripp, PhD

T-A-SP08 - A NEW RADIOGRAPHIC MEASUREMENT FOR QUANTITATIVE ASSESSMENT OF FOREFOOT SPLAY IN CHILDREN WITH PERSISTENT IDIOPATHIC TOE WALKING
Jon R. Davids, MD; Donald Kephart, MD; Janet Phan, MS; Arash Calafi, MD; Sean Brown, MA; S. Reed Laing, BA; Anita Bagley, PhD, MPH; Vedant A. Kulkarni, MD

T-A-SP09 - RELATIONSHIP BETWEEN NEONATAL MRI, CLINICAL ASSESSMENT SCORES AND NEURODEVELOPMENTAL OUTCOMES AT 2 YEARS CORRECTED AGE IN VERY PRETERM BORN INFANTS
Joanne M. George, PhD; Robert Ware, PhD; Mark Chatfield, BA, Master of Science Statistics; Simona Fiori, PhD; Jurgen Frripp, PhD; Kerstin Pannek, PhD; Stephen Rose, PhD; Paul Colditz, PhD, MD; Roslyn N. Boyd, PhD, BAAppSc (PT), BSc (Anatomy), PGrad (Biomech)

T-A-SP10 - BILATERAL CONNECTIVITY IN CHILDREN WITH UNILATERAL BRAIN INJURY: IMPLICATIONS FOR UPPER-EXTREMITY FUNCTION
Claudio L. Ferre, PhD; Chin Karen, MA; Andrew Gordon, PhD; Kathleen Friel, PhD

T-A-SP11 - SKELETAL AGE ASSESSMENT USING THE CALCANEAL APOPHYSIS IN CHILDREN WITH CEREBRAL PALSY
Donald Kephart, MD; Vedant A. Kulkarni, MD; S. Reed Laing, BA; Vincent Tang, BS; Anita Bagley, PhD, MPH; Jon R. Davids, MD

T-A-SP12 - VALIDATING AUTOMATIC SEGMENTATION OF SELECTED DEEP GRAY MATTER AND WHITE MATTER STRUCTURES IN MRI OF PRETERM INFANTS AT EARLY AND TERM-EQUIVALENT AGE.
Miles L. Seidel, BS; Kerstin Pannek, PhD; Joanne M. George, PhD; Stephen Rose, PhD; Paul Colditz, PhD, MD; Jurgen Frripp, PhD; Roslyn N. Boyd, PhD, BAAppSc (PT), BSc (Anatomy), PGrad (Biomech)

T-A-SP13 - THE EFFECT OF LOW BACK PAIN ON QUALITY OF LIFE IN DISABLED CHILDREN MOTHERS’
İrem KURT, MSc; Müberra Tanriverdi, PhD; Ömer Ötegen, MsC

T-A-SP14 - DEFINING END STAGE GASTROINTESTINAL FAILURE IN PATIENTS WITH NEUROLOGIC IMPAIRMENT
Garey Noritz, MD; Taylor Jersak, MD; Dmitry Tumin, PhD; David Fosselman, MD; Marissa Testa, MS, RDN, CSR, LD; Lisa Humphrey, MD

T-A-SP15 - ELEVATED CENTRAL ADIPOSITY IN CHILDREN WITH CEREBRAL PALSY IS NOT RELATED TO GROSS MOTOR FUNCTION
Joel Licea, MS; Chuan Zhang, MA; Freeman Miller, MD; Christopher M. Madlesky, PhD

T-A-SP16 - NUTRITIONAL STATUS OF CHILDREN WITH CEREBRAL PALSY IN REMOTE SUMBA ISLAND OF INDONESIA: A COMMUNITY-BASED KEY INFORMANTS STUDY
Israt Jahan, MPH; Mohammad Muhit, PhD; Denny Hardiananto, MS; Tasneem Karim, MBBS, MPH; Mahmudul Hassan Al Imam, MPH; Manik Chandra Das, MBBS; Hayley J. Smithers-Sheddy, BAAppSc(SpPath), MPH, PhD; Nadia Badawi, PhD, FRACP, FRCPI, MSc; Gulam Khandaker, MBBS, DCH, MPH, PhD, FAPPHM

T-B-SP01 - THE OBSERVATIONAL GAIT SCALE IS HIGHLY ASSOCIATED WITH THE GROSS MOTOR FUNCTION CLASSIFICATION SYSTEM IN CHILDREN WITH CEREBRAL PALSY
Karina A. Zapata, PT, DPT, PhD; Mauricio Delgado, MD; Chan-Hee Jo, PhD; Charter Rushing, DScPT
| T-B-SP02 | KINEMATIC ANALYSIS OF TRUNK MOVEMENTS DURING REACHING IN PRETERM, VERY-LOW- BIRTH WEIGHT AND FULL-TERM INFANTS | Yuko Nomura, PT; Haruhiko Sato, PhD; Mari Ooka, PhD; Manabu Kemmochi, PhD |
| T-B-SP03 | VARIATION IN GAIT PHENOTYPES AT THE ANKLE IN YOUTH WITH CHARCOT-MARIE-TOOTH TYPE 1 | Sylvia Gunpuu, MSc; Tishya Wren, PhD; Gyula Acsadi, MD, PhD; Kristan Pierz, MD |
| T-B-SP04 | INTER AND INTRA OBSERVER RELIABILITY OF EDINBURGH VISUAL GAIT SCORE IN AMBULANT CHILDREN WITH CEREBRAL PALSY | Nabila Khan, MD; Soubhik Kumar Saha, MBBS; Abhay Gahukamble, MD; Thomas Palocaren, MD |
| T-B-SP05 | A PORTABLE INSTRUMENTED SHOE USING A RECURRENT NEURAL NETWORK CLASSIFIER TO MEASURE GAIT SEGMENTATION IN CHILDREN WITH UNILATERAL SPASTIC CEREBRAL PALSY, A VALIDATION STUDY | Maxime Robert, PhD; Antonio Prado, MSc; Xiya Cao, MSc; Joseph Dutkowsky, MD; Andrew Gordon, PhD; Sunil Agrawal, PhD |
| T-B-SP06 | COMPARISON OF CLINICAL PARAMETERS AND 3D GAIT KINETICS OF PELVIS, HIP AND KNEE IN CROUCH GAIT IN CEREBRAL PALSY | Chasanal Rathod, MD; Manasi Raut, MPT; Prasanna Naik, PT; Taral Nagda, MD |
| T-B-SP07 | CAN KINEMATIC AND KINETIC GAIT INDICATORS PREDICT OUTCOMES FOLLOWING SURGICAL HAMSTRING LENGTHENING? | Micah Garcia, MS; James McCarthy, MD; Jason Long, PhD |
| T-B-SP08 | EXTRACELLULAR MATRIX IN MUSCLE FROM CHILDREN WITH CEREBRAL PALSY SHOWS DYSREGULATION OF MATRIX COMPONENTS | Richard L. Lichter, PhD; Raji Pichika, PhD; Lucas Smith, PhD; Hank Chambers, MD |
| T-B-SP09 | EVALUATION OF DIAPHRAGM NEUROMUSCULAR TRANSMISSION AND FATIGUE IN A MOUSE MODEL OF CEREBRAL PALSY | Joline Brandenburg, MD; Matthew Fogarty, DVM, PhD; Gary C. Sieck, PhD, PhD |
| T-B-SP10 | TREMMILL EXERCISE AMELIORATES FOCAL CEREBRAL ISCHEMIA/REPERFUSION-INDUCED NEUROLOGICAL DEFICIT BY PROMOTING DENDRITIC MODIFICATION AND SYNAPTIC PLASTICITY VIA UPREGULATING CAVEOLIN-1/VEGF SIGNALING PATHWAYS | Qingfeng Xie, MS |
| T-B-SP11 | ATYPICAL POPULATIONS OF MUSCLE SATELLITE CELLS ARE ASSOCIATED WITH SPASTIC CEREBRAL PALSY | Stephanie K. Lee, MS; Kirk Dabney, MD; Julie Sees, DO; Freeman Miller, MD; Wade Shradar, MD; Robert Akins, PhD |
| T-B-SP12 | BIOFEEDBACK ASSISTED RELAXATION TRAINING FOR THE MANAGEMENT OF CHRONIC PAIN IN CHILDREN AND ADOLESCENTS WITH CEREBRAL PALSY | Katariina Ostojic, Bsci MPH; Angela M. Morrow, MRCP, FRACP, FAFRM, PhD; Simon P. Paget, MA (Cantab), MBBS, MRCPCH(UK), FAFRM, FRACP |
| T-B-SP13 | PAIN IN YOUNG CHILDREN WITH SPINA BIFIDA | Ann L. Aliksson-Schmidt, PhD; Katherine Ong, MA, PhD; Matthew R. Reeder, MPH; Judy Thibadeau, RN, MN; Kimberly Newcombe, RN; Marcia Feldkamp, PA, MSPH, PhD |
| T-B-SP14 | EVALUATING PAIN IN PEDIATRIC AND ADULT PATIENTS WITH CEREBRAL PALSY USING PATIENT REPORTED OUTCOMES MEASUREMENT INFORMATION SYSTEM (PROMIS) | Hiroko Matsumoto, PhD; Matthew Simhon, BS; David Royle, MD; Heakyung Kim, MD; Joshua Hyman, MD |
| T-B-SP15 | PREVALENCE OF PAIN, AND PAIN INTERFERENCE IN 5-10 YEAR OLD CHILDREN WITH CEREBRAL PALSY | Kristina Tedroff, MD, PhD; Mirja Gyllensvärd, MD; Kristina Löwing, PhD |
| T-C-SP01 | IMPACT OF HIP SURVEILLANCE ON SURGICAL PRACTICE: WHAT MAKES A DIFFERENCE? | Stacey D. Miller, PT; Maureen O’Donnell, MD MSC FRCPC; Kishore Mulipuri, MBBS, MS, MHSc |
| T-C-SP02 | SEDENTARY BEHAVIOUR PEAKS AT 4-5 YEARS OF AGE IN A LONGITUDINAL, POPULATION-BASED STUDY OF CHILDREN WITH CEREBRAL PALSY FOLLOWED BETWEEN 1.5 AND 12 YEARS | Sarah E. Reedman, PhD, BPhty (Hons); Emily Johnson, BPhty (Hons); Leanne Zakzewski, PhD, BOccThy; Sjaan Gomersall, PhD, BPhysio (Hons); Roslyn N. Boyd, PhD, BAppSc (PT), BSc (Anatomy), PGrad (Biomech); Stewart G. Trost, PhD |
| T-C-SP03 | STRATEGIES FOR ENGAGING PARENTS AS PARTNERS IN CEREBRAL PALSY RESEARCH: A QUALITATIVE STUDY | Margaret Wallen, PhD; Katie Headrick, BA; Belinda J. Deramore Denver, OT; Marelle Thornton, AO; Amy P. Hogan, BApsych; Gabrielle Drake, PhD M Soc Pol BSW |
| T-C-SP04 | TRAINING OF FIRST RESPONDER HEALTH CARE PROFESSIONALS IN TRANS-DISCIPLINARY CARE FOR CEREBRAL PALSY- IMPACT ON KNOWLEDGE AND ATTITUDE | Meenakshi Girish, MD; Senthil Amudhan, MD; Asha Nayak, Master of Physiotherapy(MPT); Shashikala Gopalswamy, MD; Maria Lewin, DCH, DNB( Pediatrics); Gayathri Devi Chinnappa, MD Pediatrics |
| T-C-SP05 | CAREGIVER’S AWARENESS OF FUNCTIONAL DIFFICULTIES FACED BY CHILDREN WITH CEREBRAL PALSY IN SRI LANKA | Shanika N. Namayakkara, BS; Sumudu P. Walpola, BS; Nishamini Elapatha, BS; Dinesh Gunathilake, BS; Rasanga Dewara Handige, BS |
| T-C-SP06 | CHARACTERISTICS AND TREATMENT OF CHILDREN WITH CEREBRAL PALSY IN A STATE IN NORTHERN OF MEXICO: A 8 YEARS EXPERIENCE | Dayna Gama, MS; Elsa M. Perez, MD; Juan C. Peña, MD |
T-C-SP07 - REPORT FROM THE CEREBRAL PALSY RESEARCH NETWORK - 2019
Garey Noritz, MD; Paul Gross, BA; Jacob Kean, PhD

T-C-SP08 - INVESTIGATING PEDIATRICIANS: KNOWLEDGE AND LEARNING NEEDS RELATED TO CEREBRAL PALSY
Stacey D. Miller, PT; Ip Angie, FRCPC; Kishore Mulpuri, MBBS, MS, MHS; Maureen O'Donnell, MD MSC FRCPC

T-C-SP09 - THE IMPLEMENTATION OF A HEALTH SURVEILLANCE CLINIC FOR CHILDREN WITH DOWN SYNDROME
Niamh C. Lagan, MD; Fiona Mc Grane, MSC; Dean Huggard, MD; Joanne Balfe, MD; Eleanor Molloy, PhD

T-C-SP10 - EFFECTIVENESS OF VIDEO-BASED TRAINING ON MOBILE APP MEASUREMENT OF MIGRATION PERCENTAGE: IS COMMUNITY-BASED HIP SURVEILLANCE FEASIBLE?
Nina Cung, BA, BS; Vedant A. Kulkarni, MD; Anita Bagley, PhD, MPH; Jon R. Davids, MD

T-C-SP11 - TRANSITIONING CHILDREN FROM NICU VENTILATORS TO HOME VENTILATORS VIA A PEDIATRIC LONG TERM ACUTE CARE UNIT: A NEW PATHWAY FROM NICU TO HOME
Kilby Mann, MD; Christine Hartling, MS; Ric Dean, BA; Jennifer Brinton, MD; Nancy A. Murphy, MD

T-C-SP12 - DESIGNING AND IMPLEMENTING SHARED PLANS OF CARE FOR CHILDREN WITH MEDICAL COMPLEXITY IN ONE COMPLEX CARE PROGRAM
Natalie J. Tedford, MD; Mary L. Ehlenbach, MD

T-C-SP13 - INVESTIGATING THE FEASIBILITY OF QUANTITATIVE SENSORY TESTING TO PROFILE SENSORY GAIN/LOSS IN RELATION TO PAIN OUTCOMES FOLLOWING INTRATHecal BACLOFEN IMPLANT SURGERY IN CEREBRAL PALSY
Chantel Barney, PhD; Alyssa M. Merbler, MA; Donald Simone, PhD; David Walk, MD; Frank Symons, PhD

T-C-SP14 - EVALUATING AN OBSERVATIONAL CODING SYSTEM DERIVED FROM THE PAIN AND DISCOMFORT SCALE TO ASSESS SPASTICITY-RELATED PAIN IN CEREBRAL PALSY
Alyssa M. Merbler, MA; Chantel Barney, PhD; Kristin Frenn, MPH; Frank Symons, PhD

T-C-SP15 - A PRELIMINARY COMPARISON OF SUBJECTIVE HEAT PAIN PERCEPTION IN FEMALES WITH CEREBRAL PALSY WITH AND WITHOUT HISTORY OF SELECTIVE DORSAL RHIZOTOMY AND TYPICALLY DEVELOPING CONTROLS
Lisa Lykken, BS; Kristin Frenn, MPH; Frank Symons, PhD; Chantel Barney, PhD

T-C-SP16 - DESCRIBING CHANGES IN SUBJECTIVE BODILY PAIN INTENSITY IN PEOPLE WITH CEREBRAL PALSY: A SYSTEMATIC REVIEW
Heather M. Shearer, MSc; Pierre Côté, PhD; Sheilah Hogg-Johnson, PhD; Patricia McKeever, PhD; Darcy L. Felthlings, MD

T-D-SP01 - EVALUATION OF A MAGIC CAMP FOR CHILDREN WITH SPASTIC HEMIPLEGIC CEREBRAL PALSY
Hon Yuen, PhD; Gavin Jenkins, PhD

T-D-SP02 - CONTENT VALIDITY AND FEASIBILITY OF ACTIVEYOU 1 A NEW WEB-BASED INSTRUMENT FOR MAPPING ACTIVITY PREFERENCES IN CHILDREN AND ADOLESCENTS WITH DISABILITIES
Lars Kristian Dalen, MS; Tor Erik H. Nyquist, MSc; Astrid Nyquist, PhD

T-D-SP03 - INVESTIGATING THE IMPACT OF ADAPTED BIKES OR TRIKES ON THE QUALITY OF LIFE OF CHILDREN AND YOUTH WITH NEUROMOTOR DISABILITIES
Tracy Ferguson, BS; Natasha Hanson, PhD

T-D-SP04 - THE IMPACT OF PARTICIPATION-BASED INTERVENTIONS ON BODY FUNCTIONS AMONG YOUTH WITH PHYSICAL DISABILITIES
Dana Aanby, PhD; Jan Willem Gorter, MD PhD; Mindy F. Levin, PhD; Lisa Avery, MSc; Rachel Teplicky, MSc; Isabelle Cormier, BA; Laura Turner, MSc; Janice Coulter; Julia E. Hanes, BS

T-D-SP05 - DAILY LIVING TRANSACTIONS. HOW CHILDREN WITH CEREBRAL PALSY WHO ARE NON-AMBULANT AND THEIR CARERS WORK TOGETHER TO COMPLETE DAILY ROUTINES
Robyn Heesh; Susan Greaves, PhD; Loretta Sheppard, DClinSci; Christine Imms, PhD

T-D-SP06 - PHYSICAL AND ENVIRONMENTAL BARRIERS TO MOBILITY AND PARTICIPATION IN CHILDREN WITH MEDICAL COMPLEXITY
Laura E. Black, MD; Carolyn C. Foster, MD; Sara Shaunfield, PhD; Patricia H. Zavos, MPH; Deborah Gaebler-Spira, MD, FRCP

T-D-SP07 - ADAPTED SPORT AND RECREATION SUMMER CAMP: PERSPECTIVES OF PARENTS REGARDING IMPACT ON PSYCHOSOCIAL OUTCOMES AND PHYSICAL ACTIVITY PARTICIPATION
Elysa F. Sandron, BS; Carolyn A. Emery; Meghan H. McDonough, PhD; Elizabeth G. Condliffe, PhD, MD; Laura K. Brunton, PT, PhD; David Legg, PhD

T-D-SP08 - EVALUATING PARTICIPATION IN CHILDREN WITH CEREBRAL PALSY: USING A WINDOW OF THE INTERNATIONAL CLASSIFICATION OF FUNCTIONING, DISABILITY AND HEALTH
Mintaze Kerem Günel, PhD; Ayşe Numanoğlu Akbaş, PhD; Özge Çankaya, MSc; Kübra Seyhan, MSc; Cemil Özal, PhD; Sefa Ünes, MSc; Merve Tunçdemir, MSc; Halil Özcebe, PhD; Umut Ece Arslan, PhD

T-D-SP09 - PARENTS’ PERCEPTIONS OF ENVIRONMENTAL SUPPORTS AND RESOURCES FOR PARTICIPATION OF CHILDREN WITH CEREBRAL PALSY
Cheryl I. Kerfeld, PhD; Erin Wentz, PT, PhD, PCS; Nancy Cicirello, PhD; Alyssa Fiss, PT, PhD; Kristie F. Bjornson, PhD, PT, PCS

T-D-SP10 - A PARENTAL PERSPECTIVE ON TRANSITION FROM NICU TO EARLY INTERVENTION
Thubi H. Kolobe, PhD; Elizabeth A. Koldoff, PhD; Barbara J. Holtzclaw, PhD
**Posters**

**T-D-SP11** - APPLICATION OF PRINCIPLES OF IMPLEMENTATION SCIENCE DECREASES AGE AT CEREBRAL PALSY DIAGNOSIS BELOW 12 MONTHS IN A MULTICENTER CLINICAL NETWORK  
Nathalie Maitre, MD; Rachel Byrne, BA; Andrea Duncan, MD; Joanna Burton, MD; Sai Iyer, MD; Betsy Ostrander, MD

**T-D-SP12** - IDIOPATHIC TOE WALKING, WHAT IS THE STATE OF THE KNOWLEDGE - A SCOPING REVIEW  
Sian A. Williams, PhD; Nichola Wilson, PhD; Amanda Bunn, MBChB, BHScPT; N. Susan Stott, MBChB PhD FRACS

**T-D-SP13** - THE FUNCTIONAL COMMUNICATION CLASSIFICATION SYSTEM: EXTENDED RELIABILITY AND VALIDITY FOR CHILDREN WITH CEREBRAL PALSY AGED 2 TO 4 YEARS.  
Katy D. Caynes, BA; Tanya A. Rose, PhD; Debbie A. Burmester, BA; Robert Ware, PhD; Leanne M. Johnston, PhD

**T-D-SP14** - VISUOMOTOR INTEGRATION NETWORK CONNECTIVITY IN INDIVIDUALS WITH PERIVENTRICULAR LEUKOMALACIA  
Corinna M. Bauer, PhD; Christos Papadelis, PhD

**T-D-SP15** - “I WOULD LIKE FOR MY CHILD TO BE HAPPY WITH HIS LIFE”: PARENTAL EXPERIENCES FOR THEIR CHILDREN WITH CONGENITAL ZIKA SYNDROME  
Klayton Galante Sousa, PhD; Pedro Farias, MS; Egmar Longo, PhD; Mercês Silva, PhD; Ana Severo, PhD; Silvana Pereira, PhD

**T-D-SP16** – IT’S WORSE THAN IT LOOKS  
Lauro Machado Neto, MD; Guilherme Auler Brodt, MSc; Eduardo Pflug Comparsi, MD

**T-E-SP01** - HIGH PREVALENCE OF ABNORMAL GENERAL MOVEMENTS IN HOSPITALIZED VERY LOW BIRTHWEIGHT INFANTS  
Lisa Letzkus, PhD; Santina Zanelli, MD; Corrie J. Alonzo, M.D.; Elizabeth Connaughton, DPT; Nancy Kelly, DPT; Joseph Michel, BS

**T-E-SP02** - LOSING A DIAGNOSIS OF CEREBRAL PALSY: COMPARISON OF CHARACTERISTICS AT AGE 2 BETWEEN EVENTUAL CONFIRMED AND NON-CONFIRMED CEREBRAL PALSY AT AGE 5  
Aniellica Chen, MD; Sasha Dyck Holzinger, RN; John Andersen, MD; David Buckley, MB, ChB Sheffield, FRACP Australia, FRCP; Darcy L. Fehlings, MD; Adam Kitron, MD MSc FRCP; Louise Koclas, MD; Nicole Pigeon, MD; Esias Van Rensburg, MD; Ellen Wood, MD; Maryam Öskou, MDCM, FRCPC, MSc, FAAN; Michael Shevell, MDCM, FRCPC, FCAHS

**T-E-SP03** - VALIDATION OF AN INSTRUMENT FOR DEVELOPMENTAL PROBLEMS SCREENING IN CHILDREN UNDER FIVE YEARS IN URUGUAY  
Maria Mercedes Pérez-Roca, PhD; Anabelia Santoro Ferrero, PhD; Gustavo Giachetto Larraz, PhD; Franklin Fernando Massa Mandagarin, Stat

**T-E-SP04** - DEVELOPMENTAL CHARACTERISTICS OF NONMICROCEPHALIC INFANTS BORN TO MOTHERS WITH CONFIRMED OR SUSPECTED ZIKA DIAGNOSIS: A RETROSPECTIVE ANALYSIS IN ST. LUCIA, WEST INDIES  
Keisha T. Lindsay, PhD, CCC-SLP TSSLD; Kim F. Gardner, MD, MsPH

**T-E-SP05** - THE BEST COMBINATION OF DIAGNOSTIC TESTS FOR CEREBRAL PALSY IN HIGH RISK INFANTS: A CASE CONTROL STUDY  
Cathy Morgan, PhD, BAAppSc; Andrea Guzzetta, MD; Domenico Romeo, PhD; Olena Chorna, MM, CCRP; Claire Galea, MEpi; B.Ed Mathematics; Sabrina Del Secco; Iona Novak, PhD

**T-E-SP06** - FAMILY-CENTERED CARE IN EARLY INTERVENTION (EI): ASSOCIATIONS WITH CHILD CHARACTERISTICS AND EI SERVICE USE INTENSITY  
Beth M. McManus, PhD; Zachary Richardson, MA, PhD(c); Margaret Schenkman, PhD; Natalie Murphy, MPH; Elaine Morrato, DrPH

**T-E-SP07** - INCREASING EARLY INTERVENTION REFERRALS THROUGH PEDIATRIC RESIDENT EDUCATION  
Carl W. Dwyer, MD; Laura J. Hobart-Porter, DO, FAAPMR

**T-E-SP08** - COMPARING PARENT AND PROVIDER PRIORITIES IN DISCUSSIONS OF EARLY DETECTION AND INTERVENTION FOR INFANTS WITH AND AT RISK OF CEREBRAL PALSY  
Rachel Byrne, BA; Tracy Pickar, BA; Mary-Lauren Neel, MD; Andrea Duncan, MD; Roslyn N. Boyd, PhD, BAAppSc (PT); BSc (Anatomy), PGrad (Biomech); Nathalie Maitre, MD

**T-E-SP09** - IT SHOULD HAVE BEEN GIVEN SOONER, AND WE SHOULDN’T HAVE TO FIGHT FOR IT: UNDERSTANDING THE FAMILY EXPERIENCE OF THE DIAGNOSIS OF CEREBRAL PALSY  
Sian A. Williams, PhD; N. Susan Stott, PhD; Nichola Wilson, PhD; Alexandra Sorhage, PGDIPH; Malcolm Battin, FRACP; Amy R. Hogan, BAppSc; Anna Mackey, PhD

**T-E-SP10** - FAMILY CENTERED, EARLY INTERVENTION APPROACH: SRI LANKAN PROFESSIONALS PERSPECTIVE  
Yvonne Weerasinghe, BS; Samanmali P. Sunanasesa, MD

**T-E-SP11** – COACHES FIDELITY IN DELIVERING A NOVEL COACHING INTERVENTION FOR PARENTS OF CHILDREN WITH SUSPECTED DEVELOPMENTAL DELAY  
Tatiana Ogourtsova, PhD; Annette Majnemer, PhD, OT; Brown Amelie, Social Worker, Couple and Family Therapist and Psychotherapist; Maureen O’Donnell, MD MSc FRCP

**T-E-SP12** - UPPER EXTREMITY ASYMMETRY DETECTION IN INFANTS: A COMPARISON OF THE HAND ASSESSMENT FOR INFANTS AND HAMMERSMITH INFANT NEUROLOGICAL EXAMINATION  
Mary Ann Nelin, MD; Lindsay Pietruszewski, DPT; Stephanie Burkhartd, MPH; Nancy Batterson, OT/L, SCFES; Katelyn D. Levingood, DPT; Julia Less, MPH; Dennis Lewandowski, PhD; Brianna Sowers; Nathalie Maitre, MD

**T-E-SP13** - EXPLORATORY LEARNING TO ENCOURAGE SELECTIVE LEG MOVEMENT IN INFANTS BORN FULL-TERM AND VERY PRETERM  
Jeong-Ah Kim, MS; Barbara Sargent, PT, PhD; Linda Fetter, PT, PhD
T-E-SP14 - REACHING, GROSS MOTOR, FINE MOTOR, AND COGNITIVE FUNCTIONING IN INFANTS WITH CEREBRAL PALSY GMFCS III-V LEVELS
Gardenia O. Barbosa, PhD; Thais Cabral, PhD; Tanya Tripathi, PhD; Jill C. Heathcock, MPT, PhD

T-E-SP15 - LACK OF SPONTANEOUS REACH AND GRASP IN INFANTS 8 - 24 MONTHS WITH HEMIPARETIC CEREBRAL PALSY RESULTS IN CLEAR ASYMMETRY
Thais Cabral, PhD; Tanya Tripathi, PhD; Gardenia Barbosa, PhD; Meredith Schram, BA; Amy Darragh, PhD; Sharon Ramey, PhD; Stephanie C. Deluca, PhD; Jill C. Heathcock, MPT, PhD

T-E-SP16 - REACHING FREQUENCY INCREASES WITH AGE YET PRELIMINARY EVIDENCE SUGGESTS SHORTER, LESS EFFICIENT MOVEMENTS FOR INFANTS WITH NEONATAL STROKE AND CP IN THE FIRST 6 MONTHS OF LIFE.
Julia Mazzarella, DPT; Thais Cabral, PhD; Jill C. Heathcock, MPT, PhD; Mike McNally, PhD; Ajit Chaudhari, PhD

T-F-SP01 - THE IMMEDIATE EFFECTS OF ELECTROACUPUNCTURE ON GASTRONEMIUS MUSCLE TONE OF CHILDREN WITH SPASTIC CEREBRAL PALSY
Jia Feiyong, M.D, PhD; Wang Lili, MS; Shan Ling, MS; Du Lin, MS; Zhang Yu, MD, PhD

T-F-SP02 - BOTULINUM TOXIN AND CASTING MAY DELAY OR PREVENT SURGERY IN SPASTIC HEMIPLEGIC CEREBRAL PALSY
Stephen T. Gates, MD; Robert Wimberly, MD; Anthony Riccio, MD; Mauricio Delgado, MD; Chan-Hee Jo, PhD

T-F-SP03 - ASSESSING CORRELATION BETWEEN OPENING PRESSURE VALUES DURING INTRATHecal BACLOFEN TEST DOSE WITH POST-PROCEDURE COMPLICATIONS
Sara Cartwright, MD; Douglas G. Kinnett, MD, MD; Marina Ma, MA; Julie Estenfelder, BSN

T-F-SP04 - IMPACT OF INTRATHecal BACLOFEN ON GROWTH IN CHILDREN WITH SPASTICITY
Amy L. Kaye, PhD

T-F-SP05 - INTRATHecal BACLOFEN THERAPY IN CHILDREN: IMPACT ON QUALITY OF LIFE AND CAREGIVER BURDEN
Kirsty Stewart, PhD; Jenny Lewis, PT; Gavin Hutana, BA, MBBS

T-F-SP06 - IMPACT OF OCCUPATIONAL THERAPY ON SELF-CARE FOLLOWING SELECTIVE DORSAL RHIZOTOMY
Heather Forst, OTR/L; Kathleen M. Vanderhaar, MD; Tonye Sylvanus, MD; Nanette Aldahondo, MD; Angela Sinner, DO

T-F-SP07 - LONG-TERM IMPROVEMENT ON GMFCS LEVEL OF PATIENTS WITH CEREBRAL PALSY TREATED BY AN INTEGRATED APPROACH OF REPEATED BOTULINUM TOXIN-A INJECTIONS
Nigar Dursun, MD; Merve Akyuz, MD; Tugba Gokbel, MD; Melike Akarsu, MSc; Cagla Karacan, PhD; Erbil Dursun, MD

T-F-SP08 - GROSS MOTOR FUNCTION LEVELS IN BILATERAL SPASTIC CEREBRAL PALSY FROM 4 TO 25 YEARS OF AGE WITH AND WITHOUT EARLY SELECTIVE DORSAL RHIZOTOMY - A POPULATION BASED STUDY
Annika Lundkvist-Jensen, PhD; Ann I. Alriksson-Schmidt, PhD; Lena Westbom, PhD

T-F-SP09 - ABOBOTULINUMTOXINA, ONABOTULINUMTOXINA AND INCOBOTULINUMTOXINA NEUROTOXIN CONTENT AND ACTIVITY: POTENTIAL IMPLICATIONS FOR DURATION OF EFFICACY IN PEDIATRIC PATIENTS
Keith Foster, PhD; Malgorzata Field, MSc; Andrew Splevins, PhD; Marcel Van Der Schans, PhD; Jan Langenberg, PhD; Daan Noort, PhD; Philippe Picaud, PharmD

T-F-SP10 - A RANDOMIZED CONTROLLED STUDY OF VIRTUAL REALITY FOR PAIN MANAGEMENT DURING BOTULINUM TOXIN INJECTIONS FOR SPASTICITY MANAGEMENT
Kristin Frenn, MPH; Lisa Lykken, BS; Elana Abelion, BA; Andrina MacDonald; Dalberg Todd, Do; Shannon Wier, BA; Elizabeth Jensen, BA; Frank Symons, PhD; Chantel Barney, PhD

T-F-SP11 - COMPARISON OF FREQUENCY OF SURGERIES AND BOTULINUM TOXIN INJECTIONS IN CHILDREN WITH CEREBRAL PALSY BETWEEN TWO COUNTRIES
Ira F. Jeglinsky, PhD; Reidun Jahnsen, PhD; Ann I. Alriksson-Schmidt, PhD; Gunvor L. Klevberg, PhD; Sonja Elkjær, MS; Matti Ahonen, MD, PhD

T-F-SP12 - NATIONAL COLLABORATION FOR SELECTIVE DORSAL RHIZOTOMY (SDR) OUTCOMES IN AUSTRALIA
Jenny Lewis, PT; Simon P. Paget, MA (Cantab), MBBS, MRCPC(UK), FAFRM, FRACP; Natasha Bear, MSc; Felicity Baker, PT; Olivia Lee, MBBS, FRACP; Kim McLennan, MBBS, FRACP, FAFRM; Emma Richardson, MBBS; Adam Scheinberg, MBBS, FRACP, FAFRM, MMED; Nadine Smith, PT; Pam Thomason, B Phy, M Physio; Andrew Tidemann, MBBS, FRACP; Meredith Wynter, PT; Adam Fowler, MBBS, FRACP

T-F-SP13 - ACTIVE AND PASSIVE GOAL ACHIEVEMENT AFTER SINGLE-EVENT MULTILEVEL CHEMONEUROLYSIS IN ADULTS WITH CEREBRAL PALSY
Sangjee Lee, MS; Amber Newell, CPNP, OTR/L; Heakyung Kim, MD

T-F-SP14 - SELECTIVE MOTOR FASCIULOTOMY AS AN ADJUNCT IN THE MANAGEMENT OF CEREBRAL PALSY CHILDREN WITH LOWER LIMB SPASTICITY
Aniruddh K. Purohit, Sr., MD; Pavan Kumar Rathna, MD

T-F-SP15 - A PILOT STUDY OF GABAPENTIN FOR MANAGING PAIN IN CHILDREN WITH DYSTONIC CEREBRAL PALSY
Adrienne Harvey, PhD; Kirsty Stewart, PhD; Giuliana C. Antolovich, BSc, PhD, MBBS, FRACP; Mary-Clare Waugh, MBBS, FRACP, FAFRM; Lisa Copeland, MBBS, FAFRM, FRACP; Megan Thorley, OT; James Rice, MBBS; Felicity Baker, PT

T-F-SP16 - CLINICAL CHARACTERISTICS OF CHILDREN WITH CORTICAL VISUAL IMPAIRMENT: A DESCRIPTIVE STUDY FROM SRI LANKA
Samanmali P. Sumanasena, MD; Dilini V. Vipulaguna, MD; Thilini Madushika, BSc Physiotherapy; Antony Jacintha, MBBS
T-G-SP01 - THE DISEASE AND ECONOMIC BURDEN ATTRIBUTABLE TO ADULTS WITH CEREBRAL PALSY: A COHORT STUDY OF PRIVATELY-INSURED BENEFICIARIES
Daniel Whitney, PhD; Edward A. Hurvitz, MD; Mark Peterson, PhD

T-G-SP02 - PRELIMINARY RESULTS OF PATIENT-REPORTED OUTCOME MEASURES AMONG ADULTS WITH CEREBRAL PALSY FOLLOWING LATERAL COLUMN LENGTHENING AND MEDIAL COLUMN SLIDING OSTEOTOMY FOR PES PLANOVALGUS DONE IN CHILDHOOD
Christopher Constantino, MD; Karen Kruger, PhD; Joseph Krzak, PhD; Adam Graf, MS; Ann Flanagan, PT, PCS; Haluk Altiok, MD; Peter Smith, MD; Gerald Harris, PhD

T-G-SP03 - RELATIONSHIPS BETWEEN MUSCLE STRENGTH AND FUNCTIONAL MOBILITY IN ADULTS WITH CP; IMPLICATIONS FOR STRENGTH TRAINING PROGRAMS
Maaike M. Eken, PhD; Nelleke Langerak, PhD; Susanne Koschnick, MSc; Jacques du Toit, MBChB (Stell), FC Orth (SA); MScClinEpi; Robert Lamberts, Prof.

T-G-SP04 - A PILOT STUDY OF A MINDFULNESS BASED STRESS REDUCTION PROGRAM (MBSR) DELIVERED TO A GROUP OF ADULTS WITH CEREBRAL PALSY (CP) VIA VIDEO CONFERENCING
Helene Haye; Marianne Lavstad, PhD; Jeanette F. Hartveit; Reidun B. Jahnsen, PhD; Sarli Hilde; Tornås Sveinung, PhD; Grethe Månum, PhD, MD

T-G-SP05 - CONCERNS AND EXPECTATIONS OF ADOLESCENTS WITH PHYSICAL DISABILITIES REGARDING ADOLESCENCE AND TRANSITION TO ADULTHOOD
Marina R. Brandao, PhD; Kátia P. Bueno, PhD; Ana Paula M. Silverio, OT; Fernanda I. Antunes; Priscilla P. Figueiredo, MSc; Aline M. Feitosa, OT, PT; Marisa C. Mancini, PhD

T-G-SP06 - DEVELOPING AN ICF CORE SET FOR ADULTS WITH CEREBRAL PALSY: WHICH AREAS OF FUNCTIONING DO THESE ADULTS CONSIDER IMPORTANT?
Suzie Noten, MSc; Lorenzo Troenosemito, BSc; Melissa Selb, MSc; Vincent de Groot, MD PhD; Manin Konijnenbelt, Drs; Daniëlle M. Driessen, MD; Agnies M. Van Eeghen, MD, PhD; Henk J. Stam, MD, PhD; Rita Van Den Berg-Emons, PhD; Sander R. Hilberink, PhD; Marij E. Roebroek, PhD

T-G-SP07 - DEVELOPING AN ICF CORE SET FOR ADULTS WITH CEREBRAL PALSY: AN INTERNATIONAL EXPERT SURVEY
Chomanand Limpaskul, MD; Suzie Noten, MSc; Wilma M. Van Der Slot, MD PhD; Henk J. Stam, MD PhD; Melissa Selb, MSc; Marij E. Roebroek, PhD

T-G-SP08 - PREVALENCE OF MUSCULOSKELETAL DISORDERS AND UTILIZATION OF REHABILITATION SERVICES IN ADULTS WITH CEREBRAL PALSY: ANALYSIS OF NATIONAL MEDICARE CLAIMS DATA
Deborah E. Thorpe, PT, PhD; Mary E. Gannotti, PhD; Chin-Hua Wang, PhD; Janet Freburger, PT, PhD

T-G-SP09 - SOCIOEMOTIONAL SUPPORT AND ADJUSTMENT DURING TRANSITION FOR YOUTH WITH SPINAL CORD INJURY
Kyle Deane, PhD; Lara Anderson, BS; Eric Peist, MA; Kathy Zebracki, PhD

T-G-SP10 - TESTING NOVEL MEASURES OF COMMUNITY INTEGRATION IN ADULTS WITH CEREBRAL PALSY IN THE UNITED STATES AND AUSTRALIA.
Deborah E. Thorpe, PT, PhD; Nancy Bagatell, PhD, OTR/L; Richard A. Faldowski, PhD; Ilana Levin, PT, DPT; Amanda Carrolli, MS OTR/L; Stewart G. Trost, PhD; Roslyn N. Boyd, PhD, BAppSc (PT); BSc (Anatomy), PGrad (Biomech); Lee Barber, PhD, BAppSc (PT); Denise S. Brookes, B.App.Sc., M.App.Sc, PhD; Dara V. Chan, ScD, CRC

T-G-SP11 - SPINAL DEFORMITIES AND PAIN DURING AGING IN ADULTS WITH CEREBRAL PALSY AND SPASTIC DIPLEGIA; A LONG-TERM FOLLOW-UP STUDY
Robert P. Lamberts, PhD, FECSS; Maaike Eken, PhD; Jacques du Toit, MBChB(Stell), FC Orth(SA); MScClinEpi; Elsabe Botha, BSc (Radiology); Richard de Villiers, MMed (Rad.D); Nelleke Langerak, PhD

T-G-SP12 - RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND PHYSICAL FITNESS OF CHILDREN WITH CEREBRAL PALSY
MinHwa Suk, PhD; InKyong Park, MA; JeongYi Kwon, MD

T-G-SP13 - RANGE OF MOTION OF CHILDREN WITH CONGENITAL ZIKA-IPESQ COHORT
Renan A. Silva, Jr, MD; Gabriela Gama, PhD; Agda Santos, MD; Patricia Juliana da Silva, PT; Jousilene Tavares, PhD; Thalles Amorim, PT; Adriana Melo, PhD; Melanie Maria Ramos Amorim, PhD

T-G-SP14 - MUSCLE TONE OF CHILDREN WITH CONGENITAL ZIKA-IPESQ COHORT
Gabriela Gama, PhD; Janiele Tavares, PT; Thalles Amorim, PT; Emanuela Barros, PT; Agda Santos, MD; Layane Carvalho, PhD; Jousilene Tavares, PhD; Adriana Melo, PhD

T-G-SP15 - PAIN REPORTED BY PEOPLE WITH CEREBRAL PALSY AND FAMILIES: ESPACE, A NATIONAL SURVEY ON MOTOR REHABILITATION IN FRANCE
Javier de la Cruz, MD; Gwenaëil Cornea, MS; Gaelle Drewnowski; Julia Boivin; Audrey Fontaine; Isabelle Desguerre, MD, PhD; Vincent Gautheron; Yann Le Lay, PT; Philippe Toullet, PT; Anne-Catherine Guenier; Eric Berard, MD; Maria Bodoria; Sylvain Brochard, MD

T-G-SP16 - IS THERE A RELATION BETWEEN SENSORY PROCESSING AND GAIT VARIABLES IN CHILDREN WITH CEREBRAL PALSY?
Mariana Santos, PhD; Carolina Corsi, PT; Ana Carolina de Campos, PhD; Nelci Adriana Cicuto Ferreira Rocha, PhD

T-H-SP01 - ELECTRONIC PARTICIPATION-FOCUSED CARE PLANNING SUPPORT FOR FAMILIES OF YOUNG CHILDREN RECEIVING REHABILITATION THERAPIES: A PILOT STUDY
Mary A. Khetani, ScD; Vera C. Kaelin, MSc; Jessica M. Jarvis, PhD; Adam Graf, MS; Ann Flanagan, PT, PCS; Haluk Altiok, MD; Christopher Constantino, MD; Karen Kruger, PhD; Joseph Krzak, PhD; Adam Graf, MS; Ann Flanagan, PT, PCS; Haluk Altiok, MD; Peter Smith, MD; Gerald Harris, PhD

T-H-SP02 - INNOVATIVE MULTIDISCIPLINARY INTENSIVE THERAPY PROGRAM RESULTS IN A STRONG IMPACT IN THE LIVES OF CHILDREN WITH NEUROMOTOR DISORDERS
Aimee Wilson, PT, C/NDT, HPCS; Kirsten Woyte, OTR/L, NTMCTC; James B. Hedgecock, PT, DPT, PCS
T-H-SP03 - ASSISTIVE AND REHABILITATIVE EFFECTS OF THE PLAYSKIN LIFT TM EXOSKELETAL GARMENT IN CHILDREN WITH ARTHROGRYPOSIS
Andrea B. Cunha, PhD; Iryna Babik, PhD; Michele A. Lobo, PT, PhD

T-H-SP04 - UNMET RESPITE CARE NEEDS FOR CHILDREN WITH MEDICAL TECHNOLOGY DEPENDENCE (MTD)
Sarah A. Sobotka, MD, MSCP; Emma Lynch, MPH; Michael T. Quinn, PhD; Michael E. Msall, MD

T-H-SP05 - COGNITIVE STRATEGY USE IN CHILDREN WITH UNILATERAL CEREBRAL PALSY
Kelsey D. Jamieson, OT; Christine Chapparo, PhD

T-H-SP06 - INVESTIGATION ON THE COMPREHENSIVE REHABILITATION OF CHILDREN WITH CEREBRAL PALSY AGED 3-6 IN CHINA BASED ON ICF-CY
Yongli Wang, PhD; Jing Song, Master student; Qin Wan, PhD; Zhaoming Huang, PhD

T-H-SP07 - PERCEPTION OF ADOLESCENTS WITH CEREBRAL PALSY OF THE EFFECTS OF VIDEO GAME THERAPY IN THEIR FUNCTIONALITY
Paula S. Chapas, PhD; Elisa J. Valenzuela; Claudia C. Mármore, PhD; Amanda Paula; Lais T. Carvalho; Maria Paula S. Ribeiro; Renata M. Rosa; Carolyne Drumond; Jaqueline S. Frônio, PhD

T-H-SP08 - IDENTIFYING KEY BARRIERS AND FACILITATORS TO USE THE SEGMENTAL ASSESSMENT OF TRUNK CONTROL IN OUTPATIENT PEDIATRIC REHABILITATION
Rachel L. Bican, PT, DPT; Danielle M. Bellows, PT, DHSc, PCS; Catie Christensen, PT, DPT, PCS; Abigail Kremer, PT, DPT; Jill C. Heathcock, MPT, PhD

T-H-SP09 - CONSTRUCTION OF COMPREHENSIVE REHABILITATION MODEL FOR CHILDREN WITH CEREBRAL PALSY AGED 3-6 IN CHINA BASED ON ICF-CY
Lu Hongyun, PhD; Yongli Wang, PhD; Jing Song; Huang Zhaoming, PhD; Liu Qiaoyun, MA

T-H-SP10 - VISUOMOTOR ANKLE FORCE TRAINING IN INDIVIDUALS WITH SPASTIC CEREBRAL PALSY COMPARED TO THEIR TYPICALLY DEVELOPED PEERS
Shari O'Brien, BESS(CEP)(Hons1); Lee Barber, PhD, MPT, BAppSci; Glen Lichtwark, PhD, MPT, BAppSci; Timothy Carroll, BSc (Hons 1), PhD (Neuroscience) (Qld)

T-H-SP11 - EFFECT OF ROBOT-ASSISTED GAIT TRAINING IN CHILDREN WITH CEREBRAL PALSY
Sbin-Seung Yang, MD; Sehi Kweon, MS; LHua Jin, MS; Min Kyun Sohn, MS

T-H-SP12 - ARE YOU BEING SERVED? PHYSICAL THERAPY INTERVENTION OUTSIDE THE HEALTH SYSTEM FOR CHILDREN WITH MOTOR DISABILITIES
Nilly Waiserberg, MSc; Paula Feder-Bubis, PhD

T-H-SP13 - EFFICACY OF INTENSIVE THERAPY PROGRAM USING THERASUIT METHOD FOR PEDIATRIC REHABILITATION PATIENTS COMPARED TO CONVENTIONAL IN-PATIENT NDT THERAPY
Jiyeon Hong, MD; Seung Min Chun, MD; Yeaeun Kim, MPT; Hana Kim, MPT; Sujin Doo, DPT; Ji Soo Choi, MD; Jung-Hee Doo, MPT

T-H-SP14 - SHORT TERM EFFECTIVENESS OF HOME-BASED TELE-MONITORED UPPER LIMB CHILDREN ACTION OBSERVATION TRAINING (TELE-UPCAT) RCT IN UNILATERAL CEREBRAL PALSY
Giuseppina Spandurra, MD, PhD; Elena Beani, PT, PhD; Valentina Menici, PT; Silvia Perazza, MD, PhD; Elisa Sicola, PT; Adriano Ferrari, MD; Giovanni Cioni, MD

T-H-SP15 - BEYOND THE EYE: CORTICAL DIFFERENCES IN PRIMARY VISUAL PROCESSING IN CHILDREN WITH CEREBRAL PALSY
Jacy P. VerMaas, MA; James E. Gehring, B.S.; Rashelle Hoffman, DPT; Michael P. Trevorrow, BS; Tony Wilson, PhD; Max Kurz, PhD

T-H-SP16 - BASELINE CHARACTERISTICS OF INDIVIDUALS WITH CORTICAL VISUAL IMPAIRMENT OF PEDIATRIC ONSET: AN INITIAL ANALYSIS OF RESULTS OF A LONGITUDINAL STUDY
Andres Jimenez Gomez, FAAP; Kristen Fisher, DO; Veeral Shah, MD PhD

T-I-SP01 - RELATIONSHIP OF ADHD-SYMPTOMS AND MOTOR SKILLS IN CHILDREN WITH DEVELOPMENTAL COORDINATION DISORDER
Kamaldeep K. Gill, OT; Anisha Jethnani, MOT; Jasmine Yu, MOT; Jill G. Zwicker, PhD, OT

T-I-SP02 - A MANAGEMENT PROTOCOL FOR HIP MIGRATION AND CONTRALATERAL CONTAINED HIP IN NON-AMBULATORY CHILDREN WITH SPASTIC CEREBRAL PALSY. A PROSPECTIVE CASE SERIES STUDY
Ahmad S. Aly, Sr., MD; Kariem Tarek, MSc

T-I-SP03 - INTRAOPERATIVE HIP ARTHROGRAM CHANGES SURGICAL DECISION-MAKING DURING HIP RECONSTRUCTION PROCEDURES IN CHILDREN WITH CEREBRAL PALSY
Colyn Watkins, MD; Laura A. Lins, MPH, ATC; Kemble Wang, MD; Travis Matheney, MD; Kerr Graham, MD, MD, FRCS (Ed), FRACS; Brian Snyder, MD, PhD; Benjamin J. Shore, MD, MPH, FRCS

T-I-SP04 - EFFECTIVENESS OF THE PONSETI METHOD IN TREATING FOOT DEFORMITIES IN CHILDREN WITH ARTHROGRYPOSIS
Jose J. Salazar Torres, PhD; Chris Church, MPT; Nancy Lennon, MS, PT; John Henley, PhD; Daveda Taylor, DPT; Maureen Donohoe, PT, DPT, PCS; Louise Reid Nichols, MD

T-I-SP05 - SPLIT ANTERIOR TIBIALIS TENDON TRANSFER TO THE PERONEUS BREVIS OR TERTIUS FOR TREATMENT OF VARUS FOOT DEFORMITIES IN CHILDREN WITH STATIC ENCEPHALOPATHY
Brett Lullo MD, Alexander Nazareth MD, Susan A. Rethlefsen PT, DPT, Kenneth D. Illingworth MD, Oussama Abousamra MD, Robert M. Kay MD
T-I-SP06 - SURGICAL OUTCOMES AFTER SINGLE EVENT MULTILEVEL SURGERY IN CEREBRAL PALSY PATIENTS WITH MID-STANCE KNEE HYPEREXTENSION
Ki Hyuk Sung, PhD; Chin Youb Chung, MD, PhD; Soon-Sun Kwon, PhD; Moon Seok Park, MD, PhD

T-I-SP07 - THE EFFECTIVE FLEXIBLE THORACOLUMBAR BRACE ON SPINAL ALIGNMENT IN SUBJECTS WITH SCOLIOSIS IN CEREBRAL PALSY
Joon Young Jang, MD; Yulhyun Park, MD; Seungeun Lee, PT, BSc; Ju Seok Ryu, MD

T-I-SP08 - THE EFFECTIVE FLEXIBLE THORACOLUMBAR BRACE ON SPINAL ALIGNMENT IN PATIENTS WITH NEUROMUSCULAR SCOLIOSIS
Ju Seok Ryu, MD, PhD; Areum Shin, Gyeonggi-Do; Yulhyun Park, MD; Joon Young Jang, MD

T-I-SP09 - NEURAXIAL ANESTHESIA FOR HIP SURGERY IN CHILDREN WITH CEREBRAL PALSY WITH PRE-EXISTING INTRA-THECAL BACLOFEN PUMPS: INDWELLING EPIDURAL CATHETER AND A NOVEL PUMP-DELIVERED SPINAL ANESTHESIC METHOD ARE EFFECTIVE
Donald Kephart, MD; Vedant A. Kulkarni, MD; Madeleine Ball, BS; Alisha Othieno, BA; Sundeep Tumber, DO; Jon R. Davids, MD

T-I-SP10 - FLEXIBLE INTRAMEDULLARY NAILS ARE AN EFFECTIVE TREATMENT FOR FEMORAL SHAFT FRACTURES IN CHILDREN WITH NON-AMBULATORY NEUROMUSCULAR DISORDERS BUT CARRY INCREASED RISK OF EARLY REVISION SURGERY AND ANGULAR DEFORMITIES
Robert M. Kay, MD; Ali Siddiqui, BS; Kenneth O. Illingworth, MD; Oussama Abousamra, MD; Erin Meisel, MD

T-I-SP11 - PRE-OPERATIVE NUTRITION ASSESSMENTS DO NOT IMPROVE OUTCOMES IN CEREBRAL PALSY PATIENTS UNDERGOING VARUS DEROTATIONAL OSTEOTOMY
Robert M. Kay, MD; Kyle K. Obana, BA; Benson B. Fan, MD; Rachel Y. Goldstein, MD; Lindsay M. Andras, MD

T-I-SP12 - POST-OPERATIVE IMMOBILIZATION FOLLOWING HIP RECONSTRUCTION IN CHILDREN WITH CEREBRAL PALSY: PRACTICE PATTERNS AND ASSOCIATED COMPLICATIONS FROM A PROSPECTIVE MULTI-CENTER INTERNATIONAL COHORT STUDY
Vedant A. Kulkarni, MD; Jon R. Davids, MD; Unni G. Narayanan, MBBS, MSc, FRCS(C); Ashley Ferkul, BA; S. Reed Laing, BA; Anita Bagley, PhD, MPH

T-I-SP13 - COMPLICATIONS FOLLOWING SPINAL FUSION FOR SCOLIOSIS IN CHILDREN WITH CEREBRAL PALSY
Annabel Dekker, MBChB; Haemish Crawford, MBChB, FRACS; John Ferguson, MBChB, FRACS; Anthony Field, MBChB, FRACS; Michael Barnes, MBChB, FRACS; N. Susan Stott, MBChB, PhD, FRACS

T-I-SP14 - LONG TERM RESULTS OF MULTI-LEVEL SURGERY FOR FLEXED KNEE GAIT IN SPASTIC DIPLEIGA: THE CRITICAL IMPORTANCE OF PRIOR SURGERY
Pam Thomason, B Phy; M Physio; Julie Tavernier, BS; Morgan Sangeux, PhD; Kerr Graham, MD, MD, FRCS (Ed), FRACS

T-I-SP15 - TITLE: A DESCRIPTIVE STUDY OF SURGICAL INTERVENTIONS FOR CEREBRAL PALSY PATIENTS IN THE CEREBRAL PALSY RESEARCH NETWORK REGISTRY
Jeffrey R. Leonard, MD; Garey Noritz, MD; Robert J. Bollo, MD; Brandon G. Rocque, MD; Samuel R. Browd, MD, PhD; Jeffrey S. Raskin, MD; Paul Gross, BA

T-I-SP16 - CONTRALATERAL DIFFERENCES IN DISTAL FEMUR BONE DENSITY: COMPARING CHILDREN WITH AND WITHOUT CP
Heidi H. Keckskemethy, MS Ed, RDN, CSCP CBTD; Luke Lawrence, BS; H. Theodore Harkes, Jr., MD; Steven Bachrach, MD

T-I-SP17 - CAN RECTUS FEMORIS MODELLING BE USEFUL IN PREDICTING OUTCOMES OF DISTAL RECTUS FEMORIS TRANSFER IN CHILDREN WITH CEREBRAL PALSY? A CASE SERIES
Tishya Wren, PhD; Kyle Chadwick, MS; Susan Rethlefsen, DPT; Nicole Mueske, MS; Robert M. Kay, MD

T-I-SP18 - BONE DENSITY AND HARDWARE FAILURE IN PEDIATRICS
Amanda T. Whitaker, MD; Mallory Rowan, BS; Garey Noritz, MD; Althea Perez, BA

T-P-SP01 - DEVELOPMENT OF A NEW MEASURE OF BALANCE CONFIDENCE FOR YOUTH WITH CEREBRAL PALSY: THE FEELINGS ABOUT BALANCE - CEREBRAL PALSY QUESTIONNAIRE
Megan M. Towns, MSc; Kelly Arbour-Nicitopoulos, PhD; Sally Lindsay, PhD; Virginia Wright, BSc (PT), MSc, PhD

T-P-SP02 - THE AUTHENTICITY OF USING VISUAL DATA TO REPRESENT THE EMOTIONAL WELL-BEING OF CHILDREN AND YOUNG PEOPLE WITH CEREBRAL PALSY
Dawn M. Pickering, MSc, MCSP, PGCME

T-P-SP03 - COMPARISON OF PATIENT-REPORTED OUTCOMES MEASUREMENT INFORMATION SYSTEM (PROMIS) SCORES FOR CHILDREN WITH CEREBRAL PALSY TO A TYPICALLY DEVELOPING COHORT: EFFECT OF AGE AND GMFCS
Madeleine Ball, BS; Vedant A. Kulkarni, MD; Nancy Abarca, MPH; Donald Kephart, MD; Laura Lewallen, MD; Anita Bagley, PhD, MPH; Jon R. Davids, MD

T-P-SP04 - THE NATURAL HISTORY OF UPPER EXTREMITY FUNCTION IN HEMIPLEGIC CEREBRAL PALSY AS DETERMINED BY THE SHUEE
David E. Westberry, MD; Laura Peace, OTR/L; Heidi Simon, OTR/L; Linda Wack, RN; Lisa V. Wagner, DHCSc OT; Ashley Carpenter, BS

T-P-SP05 - RESPONSIVENESS AND MINIMAL CLINICALLY IMPORTANT DIFFERENCE OF THE CHALLENGE FOR CHILDREN AND ADOLESCENTS WITH CEREBRAL PALSY
Ricardo Rodrigues de Sousa, Jr., MSc Student; Ana Paula Bensemann Gonlijo, PhD; Amanda Riani Martins Silva, PT Student; Marisa C. Mancini, PhD
T-P-SP06 - EFFECT OF STRUCTURED NEONATAL PHYSICAL THERAPY (SNP) INTERVENTION ON NEUROBEHAVIOR AND QUALITY OF GENERAL MOVEMENTS IN MODERATE TO LATE PRETERM (MLP) INFANTS
Sonia Khurana, PhD; Bhamini K. Rao, PhD; Senthil K. D, PhD; Leslie E. Lewis, MBBS, DCH, DNB; Asha Kamath, PhD; Stacey C. Dusing, PhD

T-P-SP07 - ESTABLISHED INDICATIONS, BENEFITS AND SHORTCOMINGS OF LOWER LIMB ORTHOSES IN THE MANAGEMENT OF CHILDREN WITH CEREBRAL PALSY: CLINICAL PRACTICE GUIDELINES
Phillip M. Stevens, MEd, CPO; Sally A. DiBello, MPO, CPO

T-P-SP08 - PARENT-REPORTED MOTOR FUNCTION USING PEDI-CAT IS RELATED TO GMFM AND GMFCS FOR CHILDREN WITH CEREBRAL PALSY
Kimberley S. Scott, DPT; Jessica Lewis, PT, DPT; Jill C. Heathcock, MPT, PhD

T-P-SP09 - BIMANUAL PERFORMANCE OF 8 TO 12 YEAR OLD CHILDREN WITH BILATERAL CEREBRAL PALSY
Andrea N. Burgess, OT; Roslyn N. Boyd, PhD, BAppSc (PT); BSc (Anatomy), PGrad (Biomech); Jenny Ziviani, OT; Mark Chatfield, BA, MS; Robert Ware, PhD; Leanne Sakzewski, PhD, BOccThy

T-P-SP10 - FEASIBILITY, VALIDITY, AND RELIABILITY OF A NOVEL MEANS-END PROBLEM SOLVING ASSESSMENT TOOL (MEPSAT)
Andrea B. Cunha, PhD; Iryna Babik, PhD; Natalie A. Koziel, PhD; Jayden Nord, PhD; Lin-Ya Hsu, PhD; Regina T. Harbourne, PhD, PT; James A. Bovaird, PhD; Stacey C. Dusing, PhD; Sarah W. McCoy, PhD; Michele A. Lobo, PT, PhD

T-P-SP11 - POSTURAL STEADINESS, BALANCE REACTIONS, AND PHYSICAL ACTIVITY IN SCHOOL-AGE CHILDREN WITH AND WITHOUT CEREBRAL PALSY
Jeremy R. Crenshaw, PhD; James B. Tracy, MS; Drew Petersen, MS; Jamie Pigman, PhD; Benjamin Conner, MS; Henry G. Wright, DPT; Freeman Miller, MD; Christopher M. Modlesky, PhD; Curtis L. Johnson, PhD

T-P-SP13 - COMPARING QUALITY OF LIFE IN CHILDREN WITH CEREBRAL PALSY VERSUS CHILDREN WITH CEREBRAL PALSY AND AUTISM SPECTRUM DISORDER
Courtney Gilbert, MD; JenFu Cheng, MD; Claire Marchetta, MPH

T-P-SP14 - FOOT PRESSURE ANALYSIS TO ASSESS SEVERE EQUINOPLANOVALGUS FOOT DEFORMITY CORRECTION USING THE CALCANEAL-CUBOID-CUNEIFORM OSTEOTOMY
Tasos Karakostas, MPT, PhD; Vineeta S. Swaroop, MD; Luciano Dias, MD

T-P-SP15 - VALIDATION OF THE JAPANESE VERSION OF THE CAREGIVER PRIORITIES AND CHILD HEALTH INDEX OF LIFE WITH DISABILITIES (CPOHID)
Yoko Matsumoto, PhD; Mariko Yagi, PhD; Kazuhiro Haginoya, MD, PhD; Mika Hirotsune, MD; Mio Nishimura, MD; Yukihiro Kitai, MD; Ryo Tanabe, MD; Koichi Maruyama, MD; Hiroshi Arai, MD; Yoko Kawasaki, MD

T-P-SP16 - MOTOR DEVELOPMENT OUTCOMES IN PEDIATRIC PATIENTS WITH SOLID TUMORS AFTER CHEMOTHERAPY
Xuan Zhou, MS

T-P-SP17 - ASSESSMENT OF AUDIO-VISUAL AND SOCIO-EMOTIONAL PROCESSING AND THE USE OF ADAPTIVE COMMUNICATIVE EQUIPMENT IN CHILDREN WITH SEVERELY INVOLVED CEREBRAL PALSY AND SCOLIOSIS
Amanda T. Whitaker, MD; Stephanie Burkhardt, MPH; Satbir Singh, BS; Katelyn D. Levengood, DPT; Lindsay Pietruszewski, DPT; Ashley Miller, MM, MT-BC; Kaleigh Hague, MT-BC; Lelia Emery, MMT, MT-BC; Nathalie Maitre, MD

T-P-SP18 - MEASURING PHYSICAL ACTIVITY DURING FUNCTIONAL TASKS IN AMBULATORY YOUTH WITH CEREBRAL PALSY
Margaret E. O’Neill, PT, PhD, MPH; Maayn Daagan, BS, DPT; Janell Mensinger, PhD; Steven G. Chopski, PhD; Christine Wojciechowicz, BS; Katie Feehan, MPH; Renee Turchi, MD, MPH

T-P-SP19 - THE QUALITY OF SLEEP IN CHILDREN WITH CEREBRAL PALSY
Boyung Hong, MD; Hyehoon Choi, MD; Joon Sung Kim, MD; Seong Hoon Lim, MD

T-P-SP20 - ACCURACY AND REPEATABILITY OF USING SMARTPHONE-BASED SENSORS FOR ORTHOTIC TUNING
Katherine M. Steele, PhD; Brandon Nguyen, BS; Darrin Howell, BS; Nick A. Baicoianu, MS

T-P-SP21 - STEERING TOWARDS COLLABORATIVE ASSESSMENT: A QUALITATIVE STUDY OF PARENTS’ EXPERIENCES OF EVIDENCE-BASED ASSESSMENT FOR THEIR CHILD WITH CEREBRAL PALSY.
Bridget E. O'Connor, BAppSci (Physiol); Claire Kerr, BSc (Hons) Physio, PhD; Nora Shields, PhD; Brooke Adair, BPhysio, PhD; Christine Imms, PhD

T-P-SP22 - INFLUENCING FACTORS ASSOCIATED WITH SPOKEN LANGUAGE COMPREHENSION IN CHILDREN WITH CP A SYSTEMATIC REVIEW
Emma Vaillant, MA; Johanna J. Geytenbeek, PhD; Elise P. Jansma, MSc; Kim J. Oostrom, PhD; R. Jeroen Vermeulen, MD PhD; Annemieke I. Buizer, MD PhD

T-P-SP23 - LIMITATIONS OF THE BENEFIT OF CORTICOSTEROID IN DUCHENNE MUSCULAR DYSTROPHY: AN EFFECTIVENESS TRIAL
Michael D. Sussman, MD; Cole R. Hilton, BS; Susan Sienko, PhD; Camila B. De Mattos, MD; Charles D’Amato

T-P-SP24 - IDENTIFICATION OF COMMON BIMANUAL PERFORMANCE GOALS OF CHILDREN PARTICIPATING IN CONSTRAINT INDUCED MOVEMENT THERAPY IN A GROUP SETTING
Angela Shierk, OTR, PhD; Heather Roberts, PhD, OT; Nancy J. Clegg, PhD; Deborah A. Baldwin, BS; Linsley Smith, RN; Mauricio Delgado, MD
T-P-SP25 - A MATHEMATICAL MODEL TO ENHANCE SPEED OF COMMUNICATION AND OPTIMIZE THE DESIGN OF AUGMENTATIVE AND ALTERNATIVE COMMUNICATION DEVICES IN CHILDREN WITH DYSKINETIC CEREBRAL PALSY
Matteo Bertucco, PhD; Terence D. Sanger, MD, PhD

T-P-SP26 - AN EXPLORATION OF THE SHARED EXPERIENCES AND PERSONAL IMPACT OF A PROGRESSIVE RESISTANCE TRAINING PROGRAMME, FOR YOUNG PEOPLE WITH CEREBRAL PALSY: A QUALITATIVE ANALYSIS
Grace Lavelle, PhD; Cherry Kilbride, PhD; Marika Noorkoiv, PhD; Nicola Theis, PhD; Tom Korff, PhD; Adam Shortland, PhD; Wendy Levin, PT; Jennifer Ryan, PhD

T-P-SP27 - NON-AMBULATORY CHILDREN AND YOUNG PEOPLE WITH CEREBRAL PALSY: DIFFERENT EXERCISE EFFECTS FROM STATIC VERSUS DYNAMIC STANDING
Åsa Tornberg, PhD; Katarina Lauruschkus, PhD

T-P-SP28 - NON-AMBULATORY CHILDREN WITH CEREBRAL PALSY; EFFECTS ON PASSIVE RANGE OF MOTION AND SPASTICITY IN THE HIP AFTER FOUR MONTH OF STATIC COMPARED TO DYNAMIC STANDING EXERCISE
Katarina Lauruschkus, PhD; Åsa Tornberg, PhD

T-P-SP29 - INFLUENCE OF VIRTUAL ENVIRONMENT COMPLEXITY ON MOTOR LEARNING IN TYPICALLY DEVELOPING CHILDREN AND CHILDREN WITH CEREBRAL PALSY
Danielle E. Levac, PhD; Morgan Taylor; Brennan Payne, PhD; Nathan Ward, PhD

T-P-SP30 - EFFECTS OF A COGNITIVE DUAL TASK ON POSTURAL CONTROL DURING SIT-TO-STAND MOVEMENT IN CHILDREN WITH CEREBRAL PALSY
Camila R. Gâmbaro Lima, N/A, MPT; Silvia Leticia Pavaõ, DPT; Ana Carolina de Campos, PhD; Nelci Adriana Cicuto Ferreira Rocha, PhD

T-P-SP31 - POWERED MOBILITY INTERVENTIONS FOR YOUNG CHILDREN AGED <5 YEARS: A SYSTEMATIC MIXED METHODS REVIEW AND ECONOMIC MODEL OF EFFECTIVENESS AND COST-EFFECTIVENESS.
Jennifer McAnuff, MSc; Niina Kolehmainen, PhD; Louise Tanner, PhD; Fiona Beyer, BS; Dawn Craig, PhD; Jane Noyes, PhD; Dor Wilson, MSc; Lorna Tuersley, PhD; Aimee Grayston, BA; Rhiannon Tudor Edwards, PhD; Nathan Bray, PhD

T-P-SP32 - TRANSCRANIAL MAGNETIC STIMULATION: ASSESSMENTS OF CORTICAL EXCITABILITY IN INFANTS WITH PERINATAL STROKE
Jesse Kowalski, DPT; Samuel Nemanich, PhD, MSc; Tanjila Nawshin, MBBS; Ma Chen, PhD; Colleen Peyton, DPT; Marie Hickey, MD; Raghavendra Rao, MD; Michael Georgieff, MD; Bernadette Gillick, PhD, MSPT, PT

T-P-SP33 - MODELING PERSPECTIVE AND MEDIA FOR SEQUENCE ACTION IMITATION OF CHILDREN WITH AUTISM SPECTRUM DISORDER
Sixia Mo, MS

T-P-SP34 - INCREASED INSIGHT INTO CHILDREN WITH DYSKINETIC CEREBRAL PALSY BY SYSTEMATIC MOVEMENT DISORDER EVALUATION INCLUDING EMG ASSESSMENT
Jakob Lorentzen, PhD; Alfred Peter Born, Dr MD, PhD; Christian Svane, MSc; Christian Forman, MSc; Bjarne Laursen, PhD; Annika Reynberg Langkilde, Dr MD, PhD; Peter Uldall, Dr MD, PhD; Christina Engel Hoei-Hansen, Dr MD, PhD

T-P-SP35 - BACKYARD SWING TO IMPROVE TRUNK CONTROL AND GAIT SPEED IN CHILDREN WITH CEREBRAL PALSY: A PILOT STUDY
John P Phillips, MD; Buddhika Senevirathne, PT; Priyanwada Wijesinghe, PT; Apsara Premathilake, PT; Thilini Kaushalya, PT; Mohomad Farshan, PT; Jagath Munasinghe, MBBS; Gemunu Hewawitharana, MBBS

T-P-SP36 - A RANDOMIZED CONTROLLED TRIAL OF HOME-BASED EXERCISE ON MOTOR DEVELOPMENT IN CHILDREN TREATED FOR CONGENITAL HEART DISEASE WITH CATHETERIZATION
Qing Du, PhD; Xuan Zhou, MS

T-P-SP37 - ADAPTATION OF SCALES IN FUNCTIONAL EVALUATION OF CHILDREN WITH BRACHIAL PLEXUS PALSY
Müberra Tanrıverdi, PhD; Zeynep Hosbay, PhD; Safiye Ozkan, PhD; Atakan Aydin, MD

T-P-SP38 - FEASIBILITY OF A HOME-BASED ACTION OBSERVATION TRAINING FOR CHILDREN WITH UNILATERAL CEREBRAL PALSY: AN EXPLORATIVE STUDY
Elena Beani, PT, PhD; Valentina Menici, PT; Adriano Ferrari, MD; Francesca Cecchi, Eng, PhD; Irene Mannari, Eng; Giovanni Cioni, MD; Giuseppina Sgandurra, MD, PhD

T-P-SP39 - MAXIMUM MUSCLE MITOCHONDRIAL RESPIRATION RATE IN FUNCTIONALLY AMBULATORY CHILDREN IS NOT HIGHER THAN IN MINIMALLY-AMBULATORY CHILDREN WITH CEREBRAL PALSY
Sudarshan Dayanidhi, PhD; Alexia Rudofski, BS; Craig Finlayson, MD; Jill Larson, MD; Vineeta T. Swaroop, MD; Richard L. Lieber, PhD

T-P-SP40 - EMG CHANGES RELATED TO MUSCULAR FATIGUE AFTER AN INTENSE MOTOR TASK IN CHILDREN WITH CEREBRAL PALSY
Jean L. Stout, PT, MS; Mathieu Bielmann, MSc; Tom Novacheck, MD; Désirée Maltais, PhD; Laurent Bouyer, PhD

T-P-SP41 - EEG AS A MEASURE OF MOTOR PERFORMANCE IN INFANTS WITH CEREBRAL PALSY
Thubi H. Keloge, PhD; Andrew H. Fagg, PhD; David P. Miller, PhD; Lei Ding, PhD

T-P-SP42 - ATTITUDES OF PARENTS OF ADOLESCENTS WITH CEREBRAL PALSY TOWARDS INTENSIVE MODELS OF PHYSICAL THERAPY
Theresa Sukal-Moulton, DPT, PhD; Paige Golden; Angela Guerino; Natalie Kahn; Alexandra Manning

T-P-SP43 - INTERNATIONAL DELPHI RECOMMENDATIONS FOR A PEDIATRIC LOWER LIMB NEUROLOGICAL TEST PROTOCOL
Ramona L. Clark, PT; Emmah Baque, PhD; Andrea Bialocerkowski, PhD
Clinical Observations or Single Case Study Poster
Friday, September 20, 2019: 3:30 PM - 4:30 PM

F-F-CS09 - OVERGROUND GAIT TRAINING FOR AN INFANT WITH DOWN SYNDROME
Ginny Paleg, DScPT

F-F-CS10 - EFFECT OF YOGA ON METABOLIC PARAMETERS OF A YOUNG ADOLESCENT WITH CEREBRAL PALSY: A SINGLE-SUBJECT DESIGN
Elizabeth M. Williamson, PhD; Kristine Drane, BS; Michaela B. Lupo, BS

F-F-CS11 - IMPLICATIONS OF TIME AND GROWTH ON GAIT FUNCTION IN A CHILD WITH CP GMFCS LEVEL I
Sylvia Ounpuu, MSc; Kristan Pierz, MD

F-F-CS12 - DIFFERENCES IN JOINT LEVEL IMPAIRMENTS AND ASSOCIATED GAIT FUNCTION BETWEEN A MOTHER AND DAUGHTER WITH CHARCOT-MARIE-TOOTH DISEASE
Sylvia Ounpuu, MSc; Gyula Acsadi, MD, PhD; Kristan Pierz, MD

F-F-CS13 - BILATERAL VISUAL FIELD MAPS IN A PATIENT WITH LEFT EYE MICROPHTHALMIA AND CONGENITAL BRAIN STROKE INVOLVING THE LEFT GENICULOSTRIATE PATHWAY: A CASE STUDY
Francesca Tinelli, PhD; Akshatha Bhat, PhD; Laura Biagi, DHSc; Giovanni Cioni, MD; Maria Concetta Morrone, MSc; Jan Kurzawski, PhD; Giovanni Anobile, PhD

F-F-CS14 - SYMMETRICAL CENTRAL TEGMENTUM TRACT HYPERINTENSITY AND CEREBRAL PALSY: THE CASE OF TWO PRETERM TWINS
Francesca Tinelli, PhD; Giovanni Cioni, MD; Raffaello Canapicchi, MD; Rosa Pasquariello, MD

F-F-CS15 - NEUROMUSCULAR SHOULDER INSTABILITY AND PAINFUL DISLOCATION: IS IT TIME FOR A SHOULDER SURVEILLANCE PROGRAM
Francisco Valencia, MD

F-F-CS16 - SCHOOL-BASED TELE-PHYSIATRY ASSISTANCE FOR REHABILITIVE AND THERAPEUTIC SERVICES (STARS) FOR CHILDREN WITH SPECIAL HEALTH CARE NEEDS LIVING IN RURAL AND URSERVED COMMUNITIES
Loren Davidson, MD; Armando Valerio, PT, DPT; James Marcin, MD, MPH

F-G-CS01 - CASE STUDY ON THE USE OF INTENSIVE PEDIATRIC NEUROREHABILITATION IN THE TREATMENT OF KERNICTERUS
Jessie F. Mann, MS; Dory Wallace, MS, OTR/L; Stephanie C. Deluca, PhD

F-G-CS02 - NEUROMUSCULAR ELECTRICAL STIMULATION FOR MOVEMENT DISORDER: A CASE STUDY
Megan Metzler, MSc; Adam Kirton, MD

F-G-CS03 - DYSKINETIC CEREBRAL PALSY AND ALLAN-HERNDON-DUDLEY SYNDROME-A DIFFERENTIAL DIAGNOSIS SHOULD BE THINK ABOUT
Mei Hou, MD; Guangjin Luo, MD; Dianrong Sun, MD; Aiyun Yuan, PhD

F-G-CS04 - CONTRALATERAL FINDINGS IN GAIT ANALYSIS OF PATIENTS WITH HEMIPLEGIC CEREBRAL PALSY
Rachel Randall, MD; Amanda T. Whitaker, MD; Jessica Lewis, PT, DPT; Mallory Rowan, BS; Carl D. Gelfius, MD; Jeffrey R. Leonard, MD; Hemang Trivedi, MS

F-G-CS05 - CLINICAL RESEARCH ON THE ACUPUNCTURE OF THE BACK-SHU AND FRONT-MU POINTS FOR TREATMENT OF CEREBRAL PALSY
Zhen Huan Liu, PhD; Bingxiang Ma, PhD

F-G-CS06 - A DE NOVO MUTATION IN TTN GENE IN A PATIENT WITH CONGENITAL MYOPATHY: A CASE REPORT
Joan Young Jang, MD; Yulhyun Park, MD; Dae-Hyun Jang, MD; Ja-Hyun Jang, MD; Ju Seok Ryu, MD

F-G-CS07 - EARLY INTERVENTION FOR CHILDREN IN HIGH RISK OF CEREBRAL PALSY - KNOWLEDGE-BASED GOOD PRACTICE
Britt Andreasen, BA; Line Zacho Greve, BA

F-G-CS08 - HE COMPARISON BETWEEN ABNORMAL BRAIN MRI AND NORMAL BRAIN MRI WITH ANTI-N-METHYL-D-ASPARTATE RECEPTOR ENCEPHALITIS IN CHILDREN
Jian Yang, MD; Xiaodai CUI, PhD

F-G-CS09 - CP-SCHOOL: A PROGRAM FOR STRENGTHENING PARTICIPATION AND EMPOWERMENT AMONG SCHOOL-AGED CHILDREN WITH CEREBRAL PALSY - REHABILITATION INSPIRED BY THE F-WORDS IN CHILDHOOD DISABILITY
Kristian Sørensen, MS; Siri Johnsen, MS; Mette Modahl, BA; Marie Læssøe Martin, BA; Bjørn Lerdal, MD; Ida E. Vestrheim, MS

F-G-CS11 - AN EXPLORATION OF THE COMBINATION OF MEDICINE WITH SPORTS IN THE REHABILITATION OF CHILDREN WITH CEREBRAL PALSY
Ring Liang, BA; Yong Liu, NA; Hao Ma, BA

F-G-CS12 - THE IMPORTANCE OF CONTINUOUS TRAINING IN THE TREATMENT OF CEREBRAL PALSY: ONE REPORT OF REHABILITATION AFTER 29 YEARS OF TRAINING FOR A CHILD WITH ATHETOSIS CEREBRAL PALSY.
Hao Ma, BA; Bing Liang, BA

F-G-CS13 - METACHROMATIC LEUKODYSTROPHY: CHARACTERIZATION OF TWO (P.LEU433VAL, P.GLY449ARG) ARYSULFATASE A MUTATIONS
Yangyang Wang, MD

F-G-CS14 - A CASE OF CONGENITAL GLYCOSYLATION DISORDER CAUSED BY SLC35A1 GENE MUTATION AND LITERATURE REVIEW
Xiangshu Wen, MD
F-G-CS15 - INNOVATIVE PHYSICAL THERAPY INTERVENTIONS FOR A CHILD WITH SPINAL MUSCULAR ATROPHY
Jessica M. Trenkle, DPT

F-G-CS16 - NEUROMUSCULAR ELECTRICAL STIMULATION FOLLOWING ORTHOPEDIC SURGERY IN AN INDIVIDUAL WITH CEREBRAL PALSY
Kelly R. Greve, PT, DPT, PhD, ABPTS Board Certified Clinical Specialist in Pediatrics; Caroline T. Colvin, DPT; ABPTS Board Certified Clinical Specialist in Pediatrics

F-H-CS01 - NEUROMUSCULAR ELECTRICAL STIMULATION DURING SERIAL CASTING IN AN INDIVIDUAL WITH CEREBRAL PALSY
Kelly R. Greve, PT, DPT, PhD, ABPTS Board Certified Clinical Specialist in Pediatrics; Caroline T. Colvin, DPT; ABPTS Board Certified Clinical Specialist in Pediatrics

F-H-CS02 - ITB AND GAIN OF FUNCTION-BUT THE CHALLENGE IN PATIENT SELECTION CONTINUES
Colleen M. Leoz, MSN, RN, CPNP; Janice M. Laux, PT, PCS, DOMP, MS; Heather McLean, MPT, CBIS; Kara Towles, DPT

F-H-CS03 - THE CASE OF JOHN: SUICIDAL IDEATION IN AN ADOLESCENT WITH CEREBRAL PALSY
Eric Peist, MA; Kyle Deane, PhD; Kathy Zebracki, PhD

F-H-CS04 - LOWER EXTREMITY PAIN IN A CHILD WITH CEREBRAL PALSY SEVEN YEARS AFTER SELECTIVE DORSAL RHIZOTOMY
Matthew Severson, MD; Sherilyn Driscoll, MD

F-H-CS05 - DOING THROUGH SEEING: USING VIDEO SELF-MODELLING TO IMPROVE OCCUPATIONAL PERFORMANCE
Nicole J. McGrath, BA; Dawn Forbes, MCSP

F-H-CS06 - USE OF PEDBOTHOME IN A PATIENT WITH HEMIPARETIC CEREBRAL PALSY
Staci Kovelman, DPT; Justine L. Belschner, DPT; Catherine Coley, DPT, PCS

F-H-CS07 - REPORT ON SEVERE SUBDURAL EFFUSION AFTER ARACHNOID CYSTECTOMY IN INFANTS
Yang Xingkui, BA

F-H-CS08 - A SIGNIFICANT REPORT ON THE RAPID DIAGNOSIS AND REHABILITATION OF 18-TRISOMY SYNDROME
Liu Liwei, MD; Xia Kaide, PhD Candidate

F-H-CS09 - CASE REPORT OF RESTRICTIVE INDUCTION THERAPY FOR BRACHIAL PLEXUS INJURY
De Wu, PhD; Juijai Tang, MD; Zhenzhen Cui, BA; Le Liu, BA; Pengcheng Cui, BA

F-H-CS10 - STUDY ON THE TEMPERAMENT CHARACTERISTICS OF CHILDREN OVER 1-YEAR-OLD WITH GENERALIZED DEVELOPMENTAL DELAY
Wang C. Xin, MD; Zhao Weiyan, DQ; Jia Feiyong, MD, PhD

F-H-CS11 - USE OF AN AQUATIC INTERVENTION TO PROMOTE CARDIOVASCULAR EXERCISE AND EXAMINE RELATED OUTCOMES IN A YOUNG ADULT WITH AMYOPLASIA ARTHROGRYPOSIS MULTIPLEX CONGENITAL: A CASE STUDY
Caitlin Keller, DPT; Anna Fogner, DPT; Amy Hunter, DPT; Cindy B. Dodds, PT, PhD

F-H-CS12 - NEUROLEPTIC MALIGNANT SYNDROME IN SYMPTOMATIC DUCHENNE MUSCULAR DYSTROPHY CARRIER
Sangjee Lee, MS; Soyeon Jang, MD

F-H-CS13 - “WE DON’T KNOW!”; EMBRACING THE NEW NORM WHEN WORKING WITH CHILDREN WITH SPINAL MUSCULAR ATROPHY AND THEIR FAMILIES IN REHABILITATION
Kara L. Reid, OTRegNB; A. Monique Taillon, BSc, MD, FRCP

F-H-CS14 - BARRIERS TO INTRATHecal BACLOFEN THERAPY IN PATIENTS WITH GOVERNMENT INSURANCE IN A TRI-STATE AREA
Karen R. Romer, RN; Leslie Rhodes, DNP, PPCNP-BC; William Warner, Jr., MD; David Spence, MD

F-H-CS15 - WHEN PICKY EATING LEADS TO MUSCLE WEAKNESS: SCURVY INDUCED MYOPATHY IN AN AUTISTIC CHILD WITH HISTORY OF ACUTE FLACCID MYELITIS
Afua Asante, MD; Louis Dizon, MD; Renat Sukhov, MD

F-H-CS16 - MOTOR EVOLUTION AND RESPONSE TO A PROTOCOL OF INTENSIVE PHYSIOTHERAPEUTIC CARE OF THE FIRST CASE OF CONGENITAL ZIKA PUBLISHED IN THE WORLD, IPESQ COHORT
Renan A. Silva, Jr., MD; Thamyris de Sales Regis, PT; Gabriela Gama, PhD; Maria Conceição Matias, PT; Emanuela Barros, PT; Adriana Melo, PhD; Jousilene Tavares, PhD; Melania Maria Ramos Amorim, PhD

F-I-CS01 - ALEXANDER DISEASE MIMICKING CEREBRAL PALSY: A CASE REPORT
Joohyun Kee, BA
**Poster Session**

**Friday, September 20, 2019: 3:30 PM - 4:30 PM**

**F-I-DP02 - USE OF VIRTUAL REALITY GOGGLES IN TREATMENT OF AMPLIFIED MUSCULOSKELETAL PAIN SYNDROME**  
Jill MeiLahn, DO; Nicole Mack, BS, CCLS, CTRS

**F-I-DP03 - PAIN EXPERIENCES AMONG AGING ADULTS WITH CEREBRAL PALSY: LEVERAGING THE CEREBRAL PALSY RESEARCH NETWORK COMMUNITY REGISTRY FOR PATIENT REPORTED OUTCOMES**  
Mary E. Gannotti, PhD; Paul Gross, BA; Susan Horn, PhD; Deborah E. Thorpe, PT, PhD; Edward A. Hurvitz, MD; Garey Noritz, MD

**F-I-DP04 - EFFICACY OF A MOTOR AND COGNITIVE INTERVENTION FOR INFANTS BORN PRETERM: A PROTOCOL**  
Stacey C. Dusing, PhD; Jennifer Burnsed, MD; Richard D. Stevenson, MD; Karen D. Hendricks-Muñoz, MD, MPH; Amy Harper, MD; Leroy Thacker, PhD

**F-I-DP05 - INTERDISCIPLINARY MODEL OF CARE FOR REFUGEES AND NEW IMMIGRANTS**  
Carolyn Chowne, RN, BScN, MScN; Kim Magnus, BSc, MOT

**F-I-DP06 - PILOT TRIAL COMPARING THE EFFECT OF MODIFIED CONSTRAINT-INDUCED MOVEMENT THERAPY (MCIMT) AND HAND-ARM BIMANUAL INTENSIVE THERAPY (HABIT) IN CHILDREN WITH HEMIPLEGIC CEREBRAL PALSY.**  
Xiaoie Li, MD; Yuqiong Liang, MD; Lin Zhu, OT, Bachelor

**F-I-DP07 - IMPORTANT OF STAKEHOLDER INVOLVEMENT IN THE CREATION OF DIGITAL PLATFORMS FOR PEOPLE WITH CP AND THEIR FAMILIES**  
Tracy Pickar, BA; Rachel Byrne, BA; Peter L. Rosenbaum, MD CM FRCPC

**F-I-DP08 - DOES FUNCTION IMPROVE AFTER HIP SURGERY IN CHILDREN WITH CEREBRAL PALSY?**  
Holly Roach, OTR, ATP; Elissa Curtis, OTR, ATP; Charter Rushing, DScPT; Robert Wimerly, MD; Karina A. Zapata, PT, DPT, PhD

**F-I-DP09 - VIDEO GAIT ANALYSIS - A PRACTICAL OPTION IN PEDIATRIC REHABILITATION**  
Marilyn Wright, MSc; Donna Twose, BS; Jan Willem Gorter, MD PhD

**F-I-DP10 - REQUIRED HEALTH AND EDUCATIONAL SUPPORT FOR CHILDREN WITH CEREBRAL PALSY**  
Jaqhie Cho, PhD; Yujin Seo; Chin Youb Chung, MD, PhD; Moon Seok Park, MD, PhD

**F-I-DP11 - TECHNOLOGY ENABLING CHILDREN (TEC) CENTRE - A CANADIAN INITIATIVE**  
Hana Alazem, BSc PT, MD, FRCPC (C); Anna M. McCormick, MD, FRCPC (Pediatrics/Rehabilitation); Darcy L. Fehlings, MD; Corrie Dixon, BS; Patricia Longmuir, PhD; leanne ward, MD; Carolyn Hunt, MD; Sarah Zaidi, BS

**F-I-DP12 - UTILIZING CHANGE MANAGEMENT STRATEGIES TO DESIGN AND IMPLEMENT AN INNOVATIVE SERVICE DELIVERY MODEL FOR OCCUPATIONAL THERAPY AND PHYSIOTHERAPY SERVICES**  
Kim Hesketh, BKIH, MScPT; Mary Riggin Springstead, M.CI.Sc., CCC-SLP, Reg. CASLPO

**F-I-DP13 - DEVELOPING AN EVIDENCE-INFORMED CARE PATHWAY FOR PROMOTING PHYSICAL ACTIVITY AND REDUCING SEDENTARY BEHAVIOUR IN INDIVIDUALS WITH CEREBRAL PALSY**  
Julia (Shi-Peng) Xiong, BHS; Patrick McPhee, PhD; Jan Willem Gorter, MD PhD

**F-I-DP14 - CULTURAL ANTHROPOLOGY: INSIGHT INTO SOCIETY’S VIEWS OF CHILDHOOD ONSET DISABILITIES**  
Wade Shrader, MD; Mason Shrader, BA

**F-I-DP15 - DEVELOPING A SERVICE PROTOCOL FOR LEARNING TO USE THE EYE-GAZE ASSISTIVE TECHNOLOGY IN CHILDREN AND YOUTH WITH SEVERE DISABILITIES AND COMPLEX COMMUNICATION NEEDS**  
Ai-Wen Hwang, PhD; Yu-Hsin Hsieh; Lin-Ju Kang, PhD; Hsin-Yi Kwok; Fu-Shuan Lee, MD; Mats Granlund, PhD; Helena Hemmingsson, PhD; Yu-Wei Hsu, MS

**F-I-DP16 – LET’S PLAY: CREATING A UNIVERSAL PLAY-BASED FUNCTIONAL INDICATOR FOR PEDIATRIC POPULATIONS**  
Verónica Scharifi, PhD

**F-I-DP17 - HISTORY OF THE AACPDM - REMARKABLE LADIES IN LEADERSHIP ROLES IN THE EARLY YEARS OF THE ACADEMY**  
Verónica Scharifi, PhD

**F-I-DP18 - CHRONIC PAIN IN INDIVIDUALS WITH CEREBRAL PALSY: A MULTIMODAL APPROACH TO UNDERSTANDING A COMPLEX PROBLEM**  
Eric M. Chin, MD; Alexander Hoon, MD, MPH; Shendi Robinson, MD; Colleen Lenz, MSN, RN, CPNP

**F-I-DP19 - MAKING THE CONNECTION: USE OF TELEPHONE INTAKE TO TAILOR INTRODUCTORY CARE TO MULTIDISCIPLINARY CEREBRAL PALSY CLINIC**  
Margaret Salzbrenner Hoopes, MSN; Abigail Helms, MMS; Keri DiAlessandro, PA-C; Lennon Olszewsky, MSN; Nancy Lennon, MS, PT

**F-I-DP20 - DEVELOPMENT OF A SOCIAL DETERMINATES OF HEALTH STANDARDIZED SCREENING TOOL IN A PEDIATRIC HEALTHCARE SYSTEM: OPPORTUNITIES AND LESSONS LEARNED WITHIN A CEREBRAL PALSY CLINIC**  
Margaret Salzbrenner Hoopes, MSN; Tizah Spencer, PhD; Kirk Dabney, MD

**F-I-DP21 - TECHNOLOGY ENABLING CHILDREN (TEC) CENTRE**  
- A CANADIAN INITIATIVE

**F-I-DP22 - THE EFFECT OF VITAMIN D3 COMBINED WITH THE EARLY START DENVER MODEL ON AUTISM SPECTRUM DISORDER IN TODDLERS**  
Jia Feiyong, MD, PhD; Jun-Yan Feng, MD; Honghua Li, MD; Shan Ling, MS
F-P-DP01 - SITTING POSTURAL CONTROL INTERVENTIONS FOR CHILDREN WITH OR AT RISK FOR CEREBRAL PALSY (CP): PROTOCOL FOR A SYSTEMATIC REVIEW
Ketaki Inamdar, MPT; Stacey C. Dusing, PhD; Rebecca M. Molinini, DPT; Siva Tejaa Panibatla, MPT

F-P-DP02 - THE STATUS QUO AND PERSPECTIVES OF CHILD CEREBRAL PALSY TREATED BY TRADITIONAL CHINESE MEDICINE IN MAINLAND CHINA
Hujie Song, MS

F-P-DP03 - TRANSFORMING THE LIVES OF CHILDREN WITH CEREBRAL PALSY USING 3-DIMENSIONAL PRINTING AND OCCUPATIONAL THERAPY
Dennis Chen, MS OT/L; Lien Hoang, MA, OTR/L; Kelly Culhane, MOTR/L

F-P-DP04 - A NEW QUALITY REGISTRY AND FOLLOW-UP PROGRAMME FOR ADULTS WITH MYELOMENINGOCELE IN SWEDEN
Vivica Jonsson, MD; Lena Westbom, PhD

F-P-DP05 - ENHANCING THE LIVES OF CHILDREN LIVING WITH CP IN VIETNAM THROUGH EVIDENCE BASED PRACTICE GUIDELINES - A MULTI-NATIONAL COLLABORATION
Prue Golland, MPH, B.App.Sc.(Physiotherapy); Patty Coker-Bolt, PhD, OTR/L, FAOTA; Johan Baudewijns, BSc PT, BScPE

F-P-DP06 - DEVELOPMENT OF A MOBILE APPLICATION OF THE “PICTURE MY PARTICIPATION-CHINESE VERSION” (PMP-C APP) FOR CHILDREN WITH DISABILITIES IN TAIWAN
Lin-Ju Kang, PhD; Pei-Yi Lin; Ai-Wen Hwang, PhD; Ya-Lan Chiu, PhD student; Wen-Hsu Sung, PhD; Christine Imms, PhD; Mats Granlund, PhD

F-P-DP07 - REHABILITATION WITH A COMBINATION OF SCALP ACUPUNCTURE AND EXERCISE THERAPY IN SPASTIC CEREBRAL PALSY
Jing Gao, PhD; Luna He, MD

F-P-DP08 - MOVEMENT & MINDFULNESS: HOW A RESTORATIVE YOGA PROGRAM IS ENGAGING YOUTH WITH CEREBRAL PALSY
Corrie Dixon, BS

F-P-DP09 - CEREBRAL PALSY CAMP: PSYCHOSOCIAL AND QUALITY OF LIFE OUTCOMES
Shelby P . Cerza, MA; Robert Wimberly, MD; Jennifer Rodgers, MA; Claire Shivers, BS; Jonathan VanPelt, MHA, BS; Mauricio Delgado, MD

F-P-DP10 - AN ONLINE ADVOCACY TOOLKIT TO PROMOTE EVIDENCE BASED TEACHING FOR CHILDREN STRUGGLING TO READ IN ONTARIO
Nicola J. Jones-Stokreef, FRCPC

F-P-DP11 - A TRANSFORMATIVE PRACTICE PROJECT OF AN ITALIAN NETWORK: A SHARED CLINICAL MODEL FOR THE EARLY DETECTION OF INFANTS AT RISK FOR CP
Olena Chorna, MM, CCRP; Andrea Guzzetta, MD, PhD

F-P-DP12 - DEVELOPMENT OF ICF-BASED CARE PATHWAYS FOR CHILDREN WITH CHILDHOOD-ONSET DISABILITIES IN URUGUAY
Verónica Schiariti, PhD; Maria Mercedes Perez-Roca, PhD; Claudia Romero, PhD

F-P-DP13 - HIP WATCH IN ORANGE COUNTY: SURVEYING THE HIPS OF CHILDREN WITH CEREBRAL PALSY
Melinda Winterswyk, PT, DPT, PCS; Julia c. Jarrin, MPT, PCS, ATP, SMS; Brian Apin, PT, DPT; Kristen Higbee, BS, PT; Dawn Wolfe, PT, PCS; Vedant A. Kulkarni, MD

F-P-DP14 - REST ASSURED: AN INNOVATIVE COLLABORATION TO PROVIDE SLEEP SAFETY FOR CHILDREN WITH NEURODEVELOPMENTAL DISABILITIES
Emily Kivelman, MD; Deborah Gaebler-Spira, MD, FRCP; Sheila Krahí, DPT; Beverley Tann, RN, BSN; Bruce Ankenman, PhD

F-P-DP15 - JAPAN HAS STRUGGLED FOR MEDICALLY COMPLEX CHILDREN AT HOME FOR YEARS WITH POOR WOK FORCE. BUT RECENTLY, JAPAN PEDIATRIC SOCIETY HAS STARTED ITS TRAINING COURSES FOR PEDIATRICIANS AS OPTIONAL REQUIREMENT TO RENEW THEIR BOARD LICENSE
Hakuyo Ebara, MD; Kiyokuni Miura, MD

F-P-DP16 - WHEELCHAIR SERVICE DELIVERY IN LOW-RESOURCE SETTINGS: A UGANDAN PERSPECTIVE
Susan Murr, DPT

F-P-DP17 - MAKING SENSE OF THE EVIDENCE: A IRISH FRAMEWORK TO SUPPORT UPPER LIMB MOTOR MANAGEMENT AND THE PARTICIPATION OF CHILDREN WITH CEREBRAL PALSY USING A COLLABORATIVE APPROACH
Denise McDonald, MD; Margaret McGrath, BSc (Hons) OT; Adrienne Carolan Gillan, BSc (Hons) OT; Evelyn Bergin, BSc (Hons) OT

F-P-DP18 - RECOGNITION OF CHRONIC PAIN IN PEOPLE WITH CEREBRAL PALSY: IT’S HOW YOU ASK!
Colleen M. Lenz, MSN, RN, CPNP; Eric M. Chin, MD; Alexander Hoon, MD; MPH; Shenandoah Robinson, MD

F-P-DP19 - DEVELOPMENT OF A SRI LANKAN CEREBRAL PALSY REGISTRY: A STUDY PROTOCOL
Samanmali P . Sumanasena, MD; Thilini Madushika, BSc Physiotherapy; Gopi Kitnasamy, BSc; Saraji Wijesekara, MBBS, MD (PAEDIATRICS), DCH,MRCPCH (UK); Jayatri Jagoda, MBBS, MD; Neil Thalagala, MBBS, MD, MSc. Public Health; Nimisha Mutthiah, PhD; Hayley J. Smithers-Sheedy, BAppSc(SpPath), MPH, PhD

F-P-DP20 - 3D AT: USING THREE DIMENSIONAL PRINTED ASSISTIVE TECHNOLOGY TO IMPROVE OCCUPATIONAL PERFORMANCE OF STUDENTS IN SPECIAL EDUCATION
Sandra Masayko, MEd, OTR/L, ATP; Laura Slotkoff, MS, OTR/L; Marcia Leinweber, MA, ATP

F-P-DP21 - THE CPPAIN-PROJECT: EXPLORING THE PAIN BURDEN IN YOUNG PEOPLE WITH CEREBRAL PALSY
Randi Dovland Andersen, PhD; Chantal Barney, PhD; Jordan Sheriko, BSc (Hons), MD; Sindre K. Bruflat, BA; Guru L. Andersen, PhD; Kjersti Ramstad, PhD; Christine Chambers, PhD; Reidun B. Jahnsen, PhD
F-P-DP22 - DISCOVERING METHODS TO INCREASED EARLY INTERVENTION REFERRALS
Carl W. Dowden, MD; Laura J. Hobart-Porter, DO, FAAPMR

F-P-DP23 - IMPLEMENTING AN ABDUCTED STANDING PROGRAM IN A PEDIATRIC RESIDENTIAL PROGRAM
Jalynn Pickens, DPT; Derenda Gibbs, BS

F-P-DP24 - REDUCING THE TIME REQUIRED TO OBTAIN PEDIATRIC CUSTOM WHEELCHAIRS FOR CHILDREN ENROLLED IN THE CALIFORNIA CHILDREN’S SERVICES (CCS) MEDICAL THERAPY PROGRAM (MTP) IN SAN DIEGO COUNTY
Judith P. Garces, PT; Neil Goyal, MSPT; Kristen Dimou, MSPT; Maria Celeste Graham, PT

F-P-DP25 - FOUNDATION OF EDUCATION AND CULTURE OF SPORT CLUB INTERNATIONAL AND THEIR SOCIAL PROJECTS: A MATCH OF COMMITMENT WITH SOCIAL RESPONSIBILITY, ACCESSIBILITY AND SOCIAL INCLUSION, A COMMITMENT WITH AN EQUALITY SOCIETY
Elida dos Santos, BS

F-P-DP26 - EMPOWERING PRIMARY CARE PROVIDERS THROUGH DEVELOPMENT OF A CEREBRAL PALSY HEALTHPATHWAY
Heather Burnett, MD

F-P-DP27 - A NOVEL SURGICAL TECHNIQUE IN RHIZOTOMY AND THE ROLE OF INTRAOPERATIVE NEUROPHYSIOLOGY
Bo Xiao, MD

F-P-DP28 - A SYSTEMATIC APPROACH FOR CLINICAL ANALYSIS OF STANDING AND PRE-GAIT POSTURES IN CHILDREN WITH CEREBRAL PALSY: A PILOT TOOL
Julie H. Perfect, PT, DPT, PCS; Mary Weck, PT

F-P-DP29 - EFFECT OF EARLY INTERVENTION OF CURCUMIN ON HIPPOCAMPAL NEURONS AND ASTROCYTES IN AUTISTIC MODEL RATS
Zhimei Jiang, PhD; Dandan Huang, MS

F-P-DP30 - NEDERLANDS CP REGISTER FOR CHILDREN WITH CEREBRAL PALSY: AN INNOVATIVE MODEL FOR PERSONALIZED CARE WITH PATIENT PARTICIPATION
Janneke Hazelhoff, MS; Annet J. Dallmeijer, PhD; Joop Beelen, MA; Annemieke I. Buizer, MD PhD

F-P-DP31 - RECLAIM-DCP: A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY OF DEUTETRABENAZINE FOR THE TREATMENT OF DYSKINESIA IN CEREBRAL PALSY IN CHILDREN AND ADOLESCENTS
Daniel Claassen, MD; Jonathan Mink, MD, PhD; Mered Parnes, MD; Heather Riordan, MD; Mark Gordon, MD; Hadas Barkay, PhD; Maria Wieman, MPH; Juha Savola, MD, PhD; Roberta Battini, MD, PhD; Joseph Jankovic, MD; Leon Dure, MD

F-P-DP32 - THE GMFM APP+: IMPROVEMENTS TO SCORING OF THE GROSS MOTOR FUNCTION MEASURE
Dayle McCauley, MS; Jan Willem Gorter, MD PhD; Peter L. Rosenbaum, MD CM FRCPC; Dianne Russell, PhD; Marilyn Wright, MSc; Lisa Avery, MSc; Sonya Strohm, MS

F-P-DP33 - THE EFFECT OF INJURY TIMING ON LOWER EXTREMITY WEAKNESS AND ABNORMAL JOINT TORQUE COUPLING PATTERNS IN CHILDREN WITH HEMIAPARESIS
Vatsala Goyal, MS; Theresa Sukal-Moulton, DPT, PhD; Julius Dewald, PT, PhD

F-P-DP34 - COMMUNITY ENGAGEMENT WITH SCREENING AND EVALUATION OF CHILDREN WITH SPECIAL NEEDS IN A PROVINCE IN CHINA: A TRANSDISCIPLINARY APPROACH
Fenice Y Shen, DPT, PhD

F-P-DP35 - “GO BABY GO ISRAEL”- MODIFIED TOY CARS FOR EARLY MOBILITY AND PARTICIPATION
Stephanie Libzon, MscPT; Mikael Nudelman; Nilly Waiserberg, MscPT

F-P-DP36 - PHYSICAL THERAPIST AND ENGINEERING STUDENT WORKING TOGETHER TO IMPROVE THE QUALITY OF LIFE OF PEOPLE WITH DISABILITIES - 4TH YEAR UNDERGRADUATE COURSE
Stephanie Libzon, MscPT; Jason Friedman; Yoram Reich; Jacob Fainguiernt; Nilly Waiserberg, MscPT

F-P-DP37 - SOME CLINICIANS, ROBOTIC ENGINEERS, GAMES DEVELOPERS AND ENTREPRENEURS WALKED IN A BAR AND INVENTED A 2ND WAVE THERAPY GAMING THERAPY ECOSYSTEM THAT ENABLES REMOTE MONITORING AND MOTIVATION OF PATIENTS.
Chris F. McGowan

F-P-DP38 - ADOPTING THE ICF MODEL AS A GUIDING FRAMEWORK FOR SERVICE DELIVERY ACROSS THE TELETON CENTERS IN MEXICO
Juan Carlos J. Fosado, MSc; Abi Natzelli R. Segovia, MD; Verónica Schiariti, PhD

F-P-DP39 - BRAIN-COMPUTER OR EYE-GAZE INTERFACES: TECHNICAL CHALLENGES AND PROMISE
Seth Warschausky, PhD; Marco Garcia, BS; Petra Karlsson, PhD; Jane E. Huggins, PhD

F-P-DP40 - PICTURES CAN TALK: EMPOWERING YOUTH WITH ARTHROGRYPOSIS USING PARTICIPATORY ACTION RESEARCH RESEARCH
Noemi Dahan-Oliel, PhD; Jessica Collins, MSc OT; Emily Lecker, MSc, OT; Dominique Angers-Trottier, MSS SW; Qi Yue He

F-P-DP41 - EFFICIENT COLLABORATIVE CARE MODEL FOR TONE MANAGEMENT IN RURAL EASTERN CANADA
Nicole Desauniers, BS; Rankyn Campbell, MA

G-I-DP07 - THE INFLUENCE OF ICF AND ICF CORE SETS IN SELECTING THE NINDS CEREBRAL PALSY COMMON DATA ELEMENTS OUTCOME MEASURES.
Robin Feldman, BS MBA; Jolene Brandenburg, MD; Verónica Schiariti, PhD; Carolina Mendoza-Puccini, MD; Kristen Joseph, MA; Joy Esterlitz, MS
**Scientific Posters**

**Friday, September 20, 2019: 3:30 PM - 4:30 PM**

**F-A-SP01 - HOW DIFFERENT ARE AMBULATORY PATIENTS WITH EARLY-ONSET HEREDITARY SPASTIC PARAPARESIS AND SPASTIC, DIPLEGIC CEREBRAL PALSY?**
Robert Wimberly, MD; Sebastian Maenza, MD; Mauricio Delgado, MD; Anthony Anderson, MSc; Linsley Smith, RN; Anthony Riccio, MSc; Kirsten Tulchin-Francis, PhD

**F-A-SP02 - CENTER VARIABILITY IN BASELINE PRESENTATION AND MANAGEMENT**
Maria Juricic, PT; Emily Schaeffer, PhD; Stacey D. Miller, PT; Benjamin J. Shore, MD, MPH, FRCP; Unni G. Narayanan, MBBS, MSc, FRCSI(C); Kishore Mulpuri, MBBS, MS, MHSc

**F-A-SP03 - CEREBRAL PALSY-RELATED MORTALITY TRENDS AND DISPARITIES IN THE UNITED STATES, 1968-2016**
Laura A. Lins, MPH, ATC; Patrick L. Remington, MD, MPH; Maureen S. Durkin, PhD, DrPH

**F-A-SP04 - ATAXIC-HYPOTONIC CEREBRAL PALSY IN A CEREBRAL PALSY REGISTRY: INSIGHTS INTO A DISTINCT SUBTYPE**
Michael Shevell, MDCM; Jake P. Levy, MDCM; Maryam Oskoui, MDCM, FRCP, MSc, FAAN; John Andersen, MD, FRCP; Pamela Ng, MSc; David Buckley, MD, ChB Sheffield, FRACP, FRCP; Darcy L. Fehlings, MD; Adam Kirton, MD MSc FRCPC; John Andersen, MD, FRCPC; Pamela Ng, MSc; David Buckley, MD, ChB Sheffield, FRACP, FRCP; Darcy L. Fehlings, MD; Adam Kirton, MD MSc FRCPC; Louise Koclas, MD; Nicole Pigeon, MD; Esias Van Rensburg, MD; Ellen Wood, MD

**F-A-SP05 - THE PREVALENCE AND RISK FACTORS FOR FOOT PRESSURE ULCERS IN AMBULATORY PATIENTS WITH SPINA BIFIDA**
Melissa Bent, MD; Susan Rethlefsen, DPT; Nicole Mueske, MS; Tishya Wren, PhD; Rajan Murgai, BS

**F-A-SP06 - CLINICAL AND GENETIC ANALYSIS OF 91 PATIENTS WITH CHILDHOOD ONSET SPASTIC PARAPLEGIA**
Kazuhiko Hagiwara, MD, PhD; Yusuke Takezawa, MD, PhD; Atsuo Kikuchi, MD, PhD; Takehiko Inui, MD; Yukimune Okubo, MD; Ryo Sato, PhD; Noriko Tobashi, MD; Takuya Miyabayashi, MD; Morie Shibuya, MD; Kazuhiro Iwama, MD, PhD; Hiromasa Saitou, MD, PhD; Naomichi Matsumoto, MD, PhD; Shigeo Kure, MD, PhD

**F-A-SP07 - A SYSTEMATIC REVIEW OF INSTRUMENTED DEVICES REPORTED TO MEASURE MUSCLE MECHANICAL PROPERTIES IN CHILDREN WITH DEVELOPMENTAL DISORDERS**
Leanne M. Johnston, PhD; Miran Goo, PT; Francois Hug, PhD; Kylie Tucker, PhD

**F-A-SP08 - ACTIVECHILD: IMPROVING LONG-TERM HEALTH AND FUNCTIONING BY INCREASING UNDER5S’ PHYSICAL ACTIVITY AND MOVEMENT**
Niina Kolehmainen, PhD; Anna Hollis, MSc; Jemma Bell, BSc; Jennifer McAnuff, MSc; Tim Rapley, PhD

**F-A-SP09 - DIFFERENCES IN RESPONSES TO ENGLISH AND KOREAN VERSIONS OF THE CAREGIVER PRIORITIES & CHILD HEALTH INDEX OF LIFE WITH DISABILITIES (CPCHILD)**
Moon Seok Park, MD, PhD; Ki Hyuk Sung, PhD; Soon-Sun Kwon, PhD; Gyeong Hee Cho, PhD; Chyn Youb Chung, MD, PhD; Clarissa Encisa, MPh; Huryo Menal, BSc; Unni G. Narayanan, MBBS, MSc, FRCSI(C)

**F-A-SP10 - IMPROVING EPILEPSY CONTROL AMONG CHILDREN WITH CEREBRAL PALSY IN RURAL BANGLADESH**
Tasneem Karim, MBBS, MPH; Manik Chandra Das, MBBS; Mohammad Muhit, PhD; Nadia Badawi, PhD, FRACP; FRCP; MSc; Gulam Khandaker, MBBS, DCH, MPH, PhD, FAFPHM; Shekeeb S. Mohammad, MBBS, FRACP, PhD

**F-A-SP11 - PREVALENCE OF AUTISM SPECTRUM DISORDERS: SCHOOL-AGED STUDY IN WENZHOU, CHINA**
Bingwu Xiang, MSc; Xiang Chen, PhD

**F-A-SP12 - A REPORT ON CHARACTERISTICS OF CEREBRAL PALSY FROM HENAN CEREBRAL PALSY REGISTER AND REHABILITATION MANAGEMENT SYSTEM**
Dengna Zhu, MD; Changlian Zhu, MD; Junying Yuan, MD; Yiwen Wang, MD

**F-A-SP13 - ARE THE DOMAINS OF THE CPQOL ADEQUATE FOR EXPLORING QUALITY OF LIFE IN CHILDREN WITH CEREBRAL PALSY ASSOCIATED WITH INTELLECTUAL DISABILITIES IN SPAIN?**
Marta Badia, PhD; Begoña Orgaz, PhD; Inmaculada Riquelme, PhD; María Gómez-Vela, PhD

**F-A-SP14 - A NEW MODEL OF DIAGNOSIS OF CEREBRAL PALSY A CASE SERIES**
Anna Te Velde, BAppSc (Hons); Cathy Morgan, PhD, BAppSc; Prue Golland, MPH, BAppSc (Physiotherapy); Jane Berry, BAppSc (OT); Johanna Korkalainen, BAppSc (SpPath); Robyn McMurdo, BSW; Ronda Shehata, BAppSc (SpPath); Claire Galea, MEd; Esther M. Tantsis, FRACP, MBBS, BMedSci, PhD; Nadia Badawi, PhD, FRACP, FRCP, MSc; Iona Novak, PhD

**F-A-SP15 - QUALITY OF LIFE IN CHILDREN WITH CEREBRAL PALSY**
Boyoung Hong, MD; Hyehoon Choi, MD; Joon Sung Kim, MD; Seong Hoon Lim, MD

**F-A-SP16 - HIP DISPLACEMENT IN CHILDREN WITH CEREBRAL PALSY ASSOCIATED WITH CONGENITAL ZIKA VIRUS INFECTION**
Alessandra L. Carvalho, MD; Adriana Fernandes, BS; Paloma Ventura, BS; Carlos Brites, PhD; Rita Lucena, PhD

**F-B-SP01 - TRANSCULTURAL ADAPTATION AND VALIDATION FOR USE IN BRAZIL OF THE PARTICIPATION AND ENVIRONMENT MEASURE CHILDREN AND YOUTH (PEM-CY)**
Elida Rayane V. Galvão, MsC; Eumar Longo, PhD; Ana Carolina de Campos, PhD; Priscila B. Lopes, N/A, MS; Thais Massetti, PhD; Alyne Oliveira, PhD; Ana Paula M. Cazeiro, PhD
F-B-SP02 - NEPAL CEREBRAL PALSY REGISTER (NCPR): TOWARDS DEVELOPING A PLATFORM FOR NATIONAL CEREBRAL PALSY (CP) REGISTRY AND POPULATION-BASED SURVEILLANCE OF CHILDREN WITH CP IN NEPAL
Mohammad Muhit, PhD; Israt Jahan, MPH; Mahmudul Hassan Ali Imam, MPH; Tasneem Karim, MBBS, MPH; Ratul Ghose, MBBS; Manik Chandra Das, MBBS; Amir Banjara Chhetri, MS; Gulam Khandaker, MBBS, DCH, MPH, PhD, FAFPHM

F-B-SP03 - FAMILY CENTERED CARE IN A CHILD DEVELOPMENT CENTER IN INDIA: IMPLICATIONS FOR LOW AND MIDDLE INCOME COUNTRIES
Roopa Srinivasan, DNB (Pediatrics); Vibha Krishnamurthy, MD

F-B-SP04 - ASSESSMENT OF INFANTS USING THE ALBERTA INFANT MOTOR SCALE IN CHINA
Qing Du, PhD; Xuan Zhou, MS

F-B-SP05 - HETEROTOPIC BONE FORMATION PREVENTING INTRATHECAL BACLOFEN PUMP REFILLS: A CASE REPORT
Stephen Nicholas, MD; Shenandoah Robinson, MD; Jennifer M. Roth, MS, BSN, CNP

F-B-SP06 - THE IMPACT OF CEREBRAL PALSY ON GRADES AND EDUCATION
Johan Jari, PhD

F-B-SP07 - CORE VALUES OF ADAPTED PHYSICAL ACTIVITY FOR PERSONS WITH DISABILITIES EXPRESSED BY SPORT PEDAGOGUES AT SIX REHABILITATION CENTERS IN NORWAY
Tor Erik H. Nyquist, MSc; Lars Kristian Dalen, MS; Astrid Nyquist, PhD

F-B-SP08 - VALIDITY AND USEFULNESS OF THE ECOLOGICAL ASSESSMENT OF PARTICIPATION
Lisa Chiarello, PT, PhD; FAPTA; Robert Palisano, ScD; Nea Vänkä, MSc, PT; Salia Sipari, PhD

F-B-SP09 - PERCEPTIONS OF CHILDREN AND YOUNG PEOPLE WITH CEREBRAL PALSY ABOUT INVOLVEMENT IN RESEARCH AS RESEARCH PARTNERS: QUALITATIVE RESEARCH
Margaret Wallen, PhD; Cayleigh Street, BA; Christine Imms, PhD; Natasha M. Garrity; Gabrielle Drake, PhD M Soc Pol BSW

F-B-SP10 - PHYSICAL ACTIVITY LEVEL AND AEROBIC DEMAND DURING ACTIVE VIDEO GAME PLAY IN AMBULATORY YOUTH WITH CEREBRAL PALSY
Margaret F. O’Neil, PT, PhD, MPH; Nancy Lennon, MS, PT; Maria Fragala-Pinkham, MS, PT, DPT; Corey Landis, MS; Andrew Finnegam, MA; Yichuan Liu, PhD; Arun Ramakrishnan, PhD; Hasan Ayaz, PhD; Paul Diefenbach, PhD; Patricia Shewokis, PhD

F-B-SP11 - LOW-VERSUS HIGH-TECH EVALUATIONS OF VISUAL ABILITIES IN CHILDREN WITH CEREBRAL VISUAL IMPAIRMENT
Corrina M. Bauer, PhD; Linda Lawrence, MD; Emma S. Bailin, BS; Christopher Bennett, PhD; Peter Bex, PhD; Lotfi B. Merabet, PhD

F-B-SP12 - STEPWATCH ACTIVITY MONITOR AND ACTIGRAPH USE IN WHEELCHAIR ATHLETES
Kirsten Tulchin-Francis, PhD; Wilshaw Stevens, Jr, BS; Robert Wimberly, MD; Fernanda Harlett, MBA

F-B-SP13 - USING WEARABLE TECHNOLOGY TO DESCRIBE IMPACT OF DISABILITY AMONG PEDIATRIC POPULATIONS
Catherine R. Hoyt, OT; Sarah Sherman, BS; Shelby Brown, BS; Ryland Miller, BS; Andrew N. Van, BS; Nico U. Dosenbach, MD, PhD

F-B-SP14 - FUNCTIONAL CONNECTIVITY IN CHILDREN WITH DEVELOPMENTAL COORDINATION DISORDER, WITH AND WITHOUT CO-OCCURRING ATTENTION DEFICIT HYPERACTIVITY DISORDER: AN EXPLORATORY STUDY
Sjie Rinat, OT; Jill G. Zwicker, PhD, OT

F-B-SP15 - CHILDREN WITH UNILATERAL CEREBRAL PALSY AFTER PERINATAL STROKE COMMONLY SHOW PRESENCE OF FIDGETY MOVEMENTS IN SOME BODY PARTS
Aurelie Pascal, PT; Lars Adde, PT, PhD; Ragnhild Stoen, MD, PhD; Toril Fjortoft, PT, PhD; Gunnar Naulaers, MD, PhD; Paul Govaert, MD, PhD; Elis Oribus, MD, PhD; Christine Van den Broeck, PT, PhD

F-B-SP16 - INFLUENCE OF DUAL-TASK ON PREFRONTAL CORTICAL ACTIVATION IN CHILDREN WITH HEMIPLEGIC CEREBRAL PALSY
Swati M. Surkar, PhD; Rashelle Hoffman, DPT; Regina T. Harbourne, PhD, PT; Max Kurz, PhD

F-C-SP01 - COMMUNICATION AND EATING DATA COLLECTED BY CEREBRAL PALSY REGISTRIES
Mary Jo C. Hidecker, PhD; Jenny Nybonn, BA; Kate Himmelmann, MD, PhD; Peter L. Rosenbaum, MD CM FRCPC

F-C-SP02 - PATIENT ENGAGEMENT IN THE DEVELOPMENT OF A COACHING INTERVENTION: STRATEGIES AND PERCEIVED BENEFITS
Tatiana Ogourtsova, PhD; Maureen O’Donnell, MD MSC FRCPC; Bahar Kasaai, PhD; Annette Majnemer, PhD, OT

F-C-SP03 - EFFECTS OF VIDEO GAME THERAPY ON THE FUNCTIONALITY OF ADOLESCENTS WITH CEREBRAL PALSY - SINGLE SUBJECT DESIGN
Paula S. Chagas, PhD; Elisa J. Valenzuela, Master Student; Yannca F. Silva; Matheus H. Bogo; Renata M. Rosa; Carolyne Drumond, Master Student; Samara Silva; Rânia P. Castro; Kennea Ayupe, PhD; Jaqueline S. Frônio, PhD

F-C-SP04 - MOTOR IMAGERY AND ITS LINK WITH GROSS MOTOR SKILL PERFORMANCE IN CHILDREN WITH CEREBRAL PALSY
Alicia J. Hilderley, PhD; Margot J. Taylor, PhD; Darcy L. Fehlings, MD; Joyce L. Chen, PhD; Virginia Wright, BSc (PT), MSc, PhD

F-C-SP05 - TRAINING PROVIDERS IN NIGHTTIME POSTURAL CARE INTERVENTION: A RANDOMIZED CONTROL TRIAL
Jennifer Hutson, MS, OTR/L

F-C-SP06 - NOSSA CASA, LET’S TALK ABOUT CEREBRAL PALSY: USING SOCIAL MEDIA AS A TOOL FOR KNOWLEDGE TRANSLATION
Beatriz Vieira, MS; Marina Airoldi, MS
F-C-SP07 - NUTRITIONAL STATUS OF CHILDREN WITH CEREBRAL PALSY: FINDINGS FROM HOSPITAL-BASED SURVEILLANCE IN VIETNAM
Tasneem Karim, MBBS, MPH; Israt Jahan, MPH; Rachael Dossetor, BSc, BA; Nguyen Giang; Nguyen Van Anh; Trinh Dung; Cao Chau; Nguyen Van Thuong; Nadia Badawi, PhD, FRACP, FRCP, MSc; Nguyen Van Bang; Gulam Khandaker, MBBS, DCH, MPH, PhD, FAFPHM; Elizabeth Elliott

F-C-SP08 - EFFECTIVENESS OF THREE MEDICATIONS TO REDUCE DROOLING IN YOUNG PEOPLE WITH DEVELOPMENTAL DISABILITY
Sue Reid, PhD MClinEpi BAppSc; Angela Guzys, BSc(Nursing); Dinah S. Reddihough, MD BSc FRACP FAFRM

F-C-SP09 - FAT-FREE SOFT TISSUE DEFICIT IN CHILDREN WITH CP IS MORE PRONOUNCED IN THE APPENDICULAR THAN IN THE NON-APPENDICULAR REGIONS
Chuan Zhang, MA; Freeman Miller, MD; Gavin Colquitt, EdD; Christopher M. Modlesky, PhD

F-C-SP10 - COMBINING THE TEST OF MOTOR PERFORMANCE WITH THE HAMMERSMITH INFANT NEUROLOGICAL EXAMINATION AS A SUCCESSFUL SECONDARY APPROACH TO EARLY DETECTION OF CEREBRAL PALSY
Lindsay Pietruszewski, DPT; Nancy Batterson, OT/L, SCFES; Mary Ann Nelin, MD; Dennis Lewandowski, PhD; Stephanie Burkhardt, MPH; Nathalie Maître, MD

F-C-SP11 - HEALTHY PARENT CARERS PROGRAMME: FEASIBILITY RANDOMISED CONTROLLED TRIAL OF A PEER-LED, GROUP-BASED INTERVENTION TO IMPROVE THE HEALTH AND WELLBEING OF PARENT CARERS OF DISABLED CHILDREN
Christopher Morris, MSc DPhil; Gretchen Bjornstad, DPhil; Aleksandra Borek, PhD; Kath Wilkinson, MSc; Beth Cuffe-Fuller, BSc; Mary Fredlund; Annabel McDonald; Jenny Lloyd, PhD; Obioha Ukaumunne, PhD; Stuart Logan, MBChB, MSc (Epidemiology), MSc (Politics); MRCP FRCPCH

F-C-SP12 - INTEGRATIVE EMR AND THERAPY SESSION-BASED PATTERN ANALYSIS TO IDENTIFY SUBGROUPS OF CHILDREN WITH CEREBRAL PALSY FOR HIGH RESOLUTION COMPARATIVE EFFECTIVENESS RESEARCH
Alexis Mitelpunkt, MD, BSc; Kelly R. Greve, PT, DPT, PhD, ABPTS Board Certified Clinical Specialist in Pediatrics; Jason Long, PhD; Jessica L. Hobart; Jilda Vargas-Adams, MD MSc; Bruce J. Aronow, PhD; Amy F. Bailes, PT PhD

F-C-SP13 - COMPETENCY-BASED TRAINING PROGRAM FOR PEDIATRIC RESIDENTS AT ALEXANDRIA UNIVERSITY CHILDREN’S HOSPITAL (AUCH) ON CEREBRAL PALSY
Tarek E. Omar, MD; Mahmoud T. Ahmed, MS

F-C-SP14 - INVOLVING CHILDREN IN THE CULTURAL AND LINGUISTIC ADAPTATION PROCESS OF A LANGUAGE COMPREHENSION ASSESSMENT INSTRUMENT
Jael N. Bootsma, MSc SLT; Jan Willem Gorter, MD PhD; Olaf Kraus de Camargo, PhD; Johanna J. Geytenbeek, PhD; Kim J. Oostrom, PhD; Dayle McCauley, MS; Sarah N. Hopmans, MS; Fiona Campbell, MSc; Tom Chau, PhD; Danijela Grahovac, MSc; Michelle Phoenix, PhD; BJ Cunningham, PhD; Marilyn K. Kertoy, PhD

F-C-SP15 - A PROSPECTIVE, MULTI-CENTER INITIATIVE TO REDUCE INTRATHecal BACLOFEN PUMP SURGICAL SITE INFECTION: A CEREBRAL PALSY RESEARCH NETWORK QUALITY IMPROVEMENT PROJECT
Robert J. Bollo, MD; Amy F. Bailes, PT, PhD; Brandon G. Rocque, MD; Jeffrey S. Raskin, MD; Paul Gross, BA

F-C-SP16 - TREATING ADDUCTOR HYPERTONIA WITH BOTULINUM TOXIN A IN CHILDREN WITH CEREBRAL PALSY: IMPROVEMENT IN OBSERVATIONAL GAIT SCALE
Tugba Gokbel, MD; Melike Akarsu, MSc; Merve Akyuz, MD; Nigar Dursun, MD; Erbil Dursun, MD

F-D-SP01 - DEEP BRAIN STIMULATION IN DYT6 DYSTONIA: CLINICAL OUTCOME AND PREDICTIVE FACTORS
Annika Danielsson, MD; Kristina Tedroff, MD, PhD

F-D-SP02 - PRACTICE VARIATION IN TREATMENT OF SPASTICITY IN CHILDREN WITH SPASTIC DIPLEGIC CP IN NORTH AMERICA
Paul Gross, BA; Kristie F. Bjornson, PhD, PT, PCS; Darcy L. Fehlings, MD; Jacob Kean, PhD; Shenandoah Robinson, MD; Joline Brandenburg, MD

F-D-SP03 - A RANDOMIZED CONTROLLED TRIAL IN PATIENTS WITH CEREBRAL PALSY TREATED BY BOTULINUM TOXIN-A FOR SPASTIC PRONATION DEFORMITY: HOME EXERCISE PROGRAM VERSUS COMBINED TREATMENT WITH TWISTER AND HOME EXERCISE PROGRAM
Merve Akyuz, MD; Melike Akarsu, MSc; Cagla Karacan, PhD; Erbil Dursun, MD; Tugba Gokbel, MD; Nigar Dursun, MD

F-D-SP04 - RISK FACTORS FOR POSTOPERATIVE URINARY RETENTION AFTER ELECTIVE PEDIATRIC ORTHOPEDIC SURGERY: INCREASED RISK IN CHILDREN WITH CEREBRAL PALSY
Mohan V. Belthur, MD; Thomas Sitzman, MD, MPH; M’Hamed Temkit, PhD; Jessica D. Burns, MD

F-D-SP05 - EFFICACY OF BIOMECHANICAL ORTHOPEDIC INSOLES FOR LOWER EXTREMITY FUNCTION OF SPASTIC CEREBRAL PALSY CHILDREN WITH TibIAL MEDIAL TORSION
Pang Wei, MD; Lu Shuqing, Master of Medicine; Li Xin, BS; Fan Yanping, MS

F-D-SP06 - UNCERTAINTY ABOUT UNCERTAINTY: ±5° MIGHT NOT MEAN WHAT YOU THINK
Elizabeth Boyer, PhD; Andrew Georgiadis, MD; Tom Novacheck, MD; Michael H. Schwartz, BS, MS, PhD
F-D-SP07 - UNILATERAL HIP RECONSTRUCTION SURGERY FOR CHILDREN WITH CP
Maria Juricic, PT; Stacey D. Miller, PT; Mariana Gutierrez Salazar, MS; Nandy E. Fajardo, PT; Lise Leveille, MD, MHSc; Kishore Mulpuri, MBBS, MS, MHSc

F-D-SP08 - COMPARISON OF THE RESULTS OF TWO DIFFERENT APPROACHES AT RECTUS FEMORIS REGARDING THE EFFECTS AT PELVIS AND KNEE RANGE OF MOTION IN PATIENTS WITH CEREBRAL PALSY
Mauro C. de Morais Filho, MD, MSc, PhD; Marcelo H. Fujino, MD; Cátia Kawamura, PT; André Lima, MD; Francesco Blumetti, MD, MSc, PhD; José Augusto Lopes, MSc; Daniella Neves, MD

F-D-SP09 - IMPACT OF BLOOD RECOVERY ON TRANSFUSION RATES IN CHILDREN UNDERGOING LOWER EXTREMITY ORTHOPEDIC PROCEDURES
Francisco Valencia, MD; Mariam Astarabadi, MS; Esteban J. Lopez, BA; Peter Lichtenthal, MD

F-D-SP10 - COMPARATIVE STUDY OF PRONATOR TERES REROUTING WITH FLEXOR CARPI ULNARIS TO EXTENSOR CARPI RADIALIS BREVIS TENDON TRANSFERRING VS CONVENTIONAL REHABILITATION PROGRAM IN CEREBRAL PALSY
Sivaporn Vongpipatana, MD; Tulyapruet Tawonsawatruck, PhD; Monratta Panuwannakorn, MD; Suwimol Prusmetikul, MD; Amprai Surit, OT

F-D-SP11 - WHAT IS THE EVIDENCE FOR NON-OPERATIVE MANAGEMENT OF SCOLIOSIS IN PATIENTS WITH CEREBRAL PALSY?
Annabel Dekker, MBChB; N. Susan Stott, MBChB PhD FRACS; Jimmy Chong, MbCHb

F-D-SP12 - POSITIONING AFTER HIP CONTAINMENT SURGERY: ARE HIP ABDUCTION SPLINTS EFFECTIVE IN MAINTAINING HIP POSITION?
Daphne O'Young, BSc(OT); Sonja Magnuson, BMR-OT, MSc-Rehab Sc; Kishore Mulpuri, MBBS, MS, MHSc; Jill G. Zwicker, PhD, OT

F-D-SP14 - CHALLENGES PRIMARY CARE PROVIDERS FACE WHEN CARING FOR CHILDREN WITH MEDICAL COMPLEXITY
Todd Sayolt, BS; Timothy R. Smith, MD; Emily Goodwin, MD; Michael Kennedy, MD

F-D-SP15 - A SYSTEMATIC REVIEW OF RESPIRATORY INTERVENTIONS FOR CHILDREN AND YOUNG PEOPLE WITH CEREBRAL PALSY
Katherine M. Langdon, FRACP; Amanda M. Blackmore, PhD; Noula Gibson, PhD; Monica S. Cooper, FRACP; Lisa Moshoivis, BaSc(speech and hearing science); Andrew Wilson, PhD

F-D-SP16 - PARTICIPATORY PROFILES OF CHILDREN AND ADOLESCENTS WITH CEREBRAL PALSY: WITH AND WITHOUT MENTAL HEALTH ISSUES
Dido Green, PhD; Karina Trejo, BSc; Lilly Augustine, PhD; Mats Granlund, PhD; Eva Bjork

F-E-SP01 - EFFECTS AND FEASIBILITY OF AN INDIVIDUALIZED INTENSIVE GOAL TRAINING PROGRAM FOR ADOLESCENTS WITH CEREBRAL PALSY
Marina B. Brandao, PhD; Aline M. Feitosa, OT,PT; Ana Paula M. Silverio, OT; Andrew Gordon, PhD; Marisa C. Mancini, PhD

F-E-SP02 - CONSISTENCY OF PROBLEM IDENTIFICATION AMONG PHYSICAL THERAPISTS WITHIN A CLINICAL MOTION LABORATORY
Jean L. Stout, PT, MS; Andrew Georgiadis, MD; Tom Novacheck, MD

F-E-SP03 - INFLUENCE OF REGIONAL LEAN MASS ON LOWER-EXTREMITY STRENGTH IN YOUTH WITH SPASTIC CEREBRAL PALSY
Leticia Janzen, MSc; Elizabeth G. Condliffe, PhD, MD; Clodagh M. Toomey, PT, PhD; Gregor Kuntze, PhD; Shane Esau, MKin.; Laura K. Brunton, PT, PhD; Carolyn A. Emery

F-E-SP04 - INTENSIVE THERAPIES FOR CHILDREN WITH QUADRIPARETIC CEREBRAL PALSY
Dory Wallace, MS, OTR/L; Mary Rebekah Trucks, MS, OTR/L; Sharon L. Ramey, PhD; Stephanie C. Deluca, PhD

F-E-SP05 - USING INTENSIVE PEDIATRIC NEUROREHABILITATION IN THE TREATMENT FOR CHILDREN WITH MICROCEPHALY SECONDARY TO CASK MUTATION
Jessie E. Mann, MS; Dory Wallace, MS, OTR/L; Stephanie C. Deluca, PhD; Konark Mukherjee, MBBS, PhD

F-E-SP06 - EFFECTS OF A PHYSIOTHERAPY INTENSIVE PROTOCOL IN CHILDREN WITH CONGENITAL ZIKA- A PILOT STUDY, IPSQ COHORT
Gabriela Gama, PhD; Renan A. Silva, Jr., MD; Maria Conceição Matias, PT; Kamila Costa, PT; Thamynis Regis, PT; Janiele Tavares, PT; Paula Assunção, PhD; Jousilene Tavares, PhD; Adriana Melo, PhD

F-E-SP07 - THERAPEUTIC EFFECT OF CHILDREN'S CRAWLING-TRAINING-ROBOT ON REHABILITATION OF CHILDREN WITH SPASTIC CEREBRAL PALSY
Yue Zhang, BS

F-E-SP08 - FUNCTIONAL ELECTRICAL STIMULATION-ASSISTED HAND THERAPY VIDEO GAMES FOR CHILDREN WITH HEMIPILEGIA: AN EXPLORATORY TRIAL
Michael J. Fu, PhD; Ryan Suder, PhD, OTR/L, BCP; Anna Curby, MS, OTR/L; Jayme Knutson, PhD

F-E-SP09 - EFFECT OF VOLUME OF PHYSICAL THERAPY (PT) SERVICE ON GROSS MOTOR FUNCTION CLASSIFICATION SYSTEM (GMFCS) EXPANDED AND REVISED LEVEL IN CLIENTS WITH CEREBRAL PALSY (CP)
Rachel A. Shaw, MPT; Maria Celeste Graham, PT; Neil Goyal, MSPT; Judith P. Garces, PT; Kristen Dimou, MSPT; Garrett D. McGaugh, MPH

F-E-SP10 - ASSESSING THE RELATIONSHIP BETWEEN ENGAGEMENT AND CLINICAL OUTCOMES AT AN INTENSIVE UPPER EXTREMITY REHABILITATION DAY CAMP FOR CHILDREN WITH UNILATERAL SPASTIC CEREBRAL PALSY
Karen Chin, MA; Kathleen Friel, PhD; Christine Imms, PhD; Andrew Gordon, PhD
F-E-SP11 - FEASIBILITY OF A MATERNAL-DRIVEN MULTIMODAL NEONATAL REHABILITATION PROGRAM IN HOSPITALIZED VERY PRETERM INFANTS
Lisa Letzkus, PhD; Santina Zanelli, MD; Corrie J. Alonzo, M.D.; Elizabeth Connaughton, DPT; Nancy Kelly, DPT; Joseph Michel, BS

F-E-SP12 - DEVELOPMENT OF ADAPTIVE BEHAVIOR IN INFANTS AND TODDLERS WITH NEUROMOTOR DELAY
Lin-Ya Hsu, PhD; Sarah W. McCoy, PhD; Michelle Paulson, BS; Stacey C. Dusing, PhD; Michele A. Lobo, PT, PhD; Regina T. Harbourne, PT

F-E-SP13 - THE AWARENESS AND USE OF DIAGNOSTIC TOOLS FOR EARLY DIAGNOSIS OF CEREBRAL PALSY IN NEW ZEALAND
Sian A. Williams, PhD; Anna Mackey, PhD; Malcolm Battin, FRACP; Nichola Wilson, PhD; Alexandra Sorhage, PGDIPHI; Alicia Spittle, PhD; N. Susan Stott, PhD

F-E-SP14 - POTENTIAL PREDICTORS FOR HEALTH-RELATED QUALITY OF LIFE IN PRESCHOOL CHILDREN WITH CEREBRAL PALSY: A FOLLOW-UP STUDY
Chia-Ling Chen, MD, PhD; Chia-Hui Chen, MS; Hsieh-Ching Chen, PhD

F-E-SP15 - THE RELEVANCE OF ENVIRONMENTAL FACTORS FOR WALKING ONSET AND SENSORY PROCESSING OF TODDLERS BORN PRETERM
Mariana Santos, PhD; Carolina Corsi, PT; Ana Carolina de Campos, PhD; Neiici Adriana Cicuta Ferreira Rocha, PhD

F-E-SP16 - MOTOR OUTCOME AFTER EARLY SURGERY FOR INFANTS LESS THAN 12 MONTHS OF AGE WITH CONGENITAL HEART DEFECTS: A SYSTEMATIC REVIEW
Turki Aljuhani, MA; Sinai Ziylewski, M.D; Dorothea Jenkins, M.D; Heather Shaw Bonilha, Ph.D.; CCC-SLP; Patty Coker-Bolt, PhD; OTR/L, FAOTA

F-F-SP01 - THE RELATIONSHIP BETWEEN VERY EARLY BRAIN MICROSTRUCTURE AT 32 AND 40 WEEKS POSTMENSTRUAL AGE AND 12-MONTH MOTOR OUTCOME IN VERY PRETERM BORN INFANTS: A DIFFUSION MRI STUDY
Joanne M. George, PhD; Kerstin Pannek, PhD; Jurgen Fripp, PhD; Mark Chatfield, BA, MS; Robert Ware, PhD; Stephen Rose, PhD; Paul Colditz, PhD, MD; Roslyn N. Boyd, PhD, BAppSc (PT), BSc (Anatomy), PGrad (Biomech)

F-F-SP02 - FAT MASS MEASUREMENT BY DEXA: HOW DOES IT COMPARE TO ANTHROPOMETRIC MEASURES IN ADULTS WITH CEREBRAL PALSY
Emily Kivlehan, MD; Deborah Gaebler-Spira, MD, FRCP; Nicole Wysocki, MD; Christina Marciniak, MD

F-F-SP03 - PROXIMITY OF TMS AND FMRI MARKERS OF CONTRALESIONAL MOTOR CORTEX MAY RELATE TO CLINICAL FUNCTION IN HEMIPARETIC CHILDREN WITH PERINATAL STROKE.
Hsing-Ching Kuo, PhD, MSc; Alicia Hilderley, PhD PKin; Helen Carlson, PhD; Adam Kirton, MD MSc FRCP
Sponsors

Premier
Ipsen Biopharmaceuticals
Ipsen Biopharmaceuticals, Inc. is the U.S. affiliate of Ipsen (Euronext: IPN; ADR: IPSEY), a global biopharmaceutical group focused on innovation and specialty care. The company is dedicated to providing hope for patients whose lives are challenged by difficult-to-treat diseases, focusing its resources, investments and energy on discovering, developing and commercializing new therapeutic options in oncology, neurosciences and rare diseases. For more information on Ipsen in North America, please visit www.ipsenus.com.

Platinum
Allergan
Allergan plc (NYSE: AGN), is a bold, global pharmaceutical company focused on developing, manufacturing and commercializing branded pharmaceuticals, devices and biologic products for patients around the world. For more information, visit Allergan’s website at www.Allergan.com.

Medtronic
Patients are at the center of everything we do—and we believe medical technology can play an even greater role in improving people’s lives. Join us in our commitment to take healthcare further, together. Be inspired at medtronic.com.

OrthoPediatrics
Founded in 2006, OrthoPediatrics 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. OrthoPediatrics currently markets 29 surgical systems that serve three of the largest categories within the pediatric orthopedic market. This offering spans trauma and deformity, scoliosis, and sports medicine/other procedures. OrthoPediatrics’ global sales organization is focused exclusively on pediatric orthopedics and distributes its products in the United States and 41 countries outside the United States.

Silver
Children’s Hospital Foundation
Children’s Hospital Foundation is dedicated to funding and advocating for pediatric initiatives that improve the status of health care and the quality of life for children in our region. The Foundation provides support for the programs and initiatives of Children’s Hospital of Richmond at VCU and the children it serves each year, as well as other pediatric health care programs in the community.

Mac Keith Press
Mac Keith Press provides information to advance treatment and care of children with disability. Primarily for a health-oriented audience of therapists, doctors, nurses and health workers, MKP’s publications are also of interest to psychologists, special teachers and others involved in the care of children with disabilities.

Bronze
Cerebral Palsy Foundation
The Cerebral Palsy Foundation is a catalyst for creating new possibilities in the world of disabilities.

We are transforming lives for people with disabilities by collaborating with many of the world’s most innovative thinkers to create novel insights and develop breakthrough interventions which can be implemented today.

Rady Children’s Hospital-San Diego
Rady Children’s Hospital-San Diego is a nonprofit, 524-bed pediatric-care facility dedicated to excellence in care, research and teaching:
- We are the only hospital in the San Diego area dedicated exclusively to pediatric healthcare and the region’s only designated pediatric trauma center.
- In affiliation with the University of California, San Diego School of Medicine, we are the region’s teaching hospital for the next generation of pediatric physicians.
- We are a major pediatric clinical research center, working in collaboration with world-renowned institutions, including UC San Diego and St. Jude Children’s Research Hospital.

Merz Neurosciences
Merz North America is a specialty healthcare company dedicated to developing and marketing innovative quality products for physicians and patients across the United States through Aesthetics and Neurosciences. http://www.xeomin.com/healthcare-professionals/

Holland Bloorview Kids Rehabilitation Hospital
Holland Bloorview Kids Rehabilitation Hospital is Canada’s largest children’s rehabilitation hospital. We pioneer treatments, technologies, therapies and programs that give children with disabilities the tools to participate fully in life.

Holland Bloorview is a global leader that serves about 7,000 children yearly. Holland Bloorview is a global worldclass teaching hospital affiliated with the University of Toronto, training future health-care specialists in the field of childhood disability. We are also home to the Bloorview Research Institute, allowing us to integrate leading research and teaching with front-line care to improve quality of life.

We see children with cerebral palsy, acquired brain injury, muscular dystrophy, amputation, epilepsy, spina bifida, arthritis, cleft-lip and palate, autism, and other developmental disabilities. A small number of our clients have complex chronic diseases that require round-the-clock medical care.
**Gillette Children’s Specialty Healthcare**
Gillette Children’s Specialty Healthcare, located in St. Paul, Minnesota, cares for patients who have some of the most complex, rare and traumatic conditions in pediatric medicine.

Unlike other children’s hospitals, we don’t often talk about cures at Gillette because many of the conditions we treat are permanent and require lifelong care. But we know that with innovative medical and surgical intervention, proven therapies and assistive technology, and the support of compassionate health care professionals, children who have these conditions can thrive and live happy, healthy, productive lives.

Children who have disabilities and complex medical needs—and their families—have been at the center of our mission for more than 120 years. Learn more about how we’ve built on our long history to set the standard of care for some of the most challenging childhood conditions.

www.Gillettechildrens.org

**Weinberg Family Cerebral Palsy Center**
The Weinberg Family Cerebral Palsy Center is the first program dedicated to transitional care for cerebral palsy (CP) on the East Coast. It provides integrated, coordinated, and multidisciplinary health care that includes pediatric, transitional, and adult care.

Through education, research, and advocacy, our growing network of cerebral palsy experts aim to expand knowledge of CP and access to care across the life span. We collaborate with our patients and their families to help people with CP of all ages to manage their symptoms and reach their full potential – building a bridge for lifetime care, together.

**Essential**
**Cathleen Lyle Murray Foundation**

Pathways.org

**Chambers Family Lifespan Lectureship**

**University Orthopedic Specialists**
Exhibit Hall Map

Exhibitors

**Booth 100**

St. Andrew’s Children’s Clinic

Forty years ago, seven cerebral palsy children and their mothers gathered in a home in Nogales, Sonora. St. Andrew’s Children’s Clinic was born. Now, the volunteer professional health care staff numbers 45-50; the staff sees approximately 225-250 children the first Thursday of each month, except July, at the St. Andrew’s Children’s Clinic housed in St. Andrew’s Episcopal Church in Nogales, Arizona.

http://www.standrewsclinic.org/home.html

**Booth 102**

Wiley

Wiley, a global company, helps people and organizations develop the skills and knowledge they need to succeed. Our online scientific, technical, medical, and scholarly journals, combined with our digital learning, assessment and certification solutions help universities, societies, businesses, governments, and individuals increase the academic and professional impact of their work.

www.wiley.com
**Exhibitors**

**Booth 104**
**CP Now Foundation**
CP NOW is a US based cerebral palsy nonprofit. We are focused on optimizing the lifelong health, wellness and inclusion of people with cerebral palsy and their families.
We will accomplish this by:
1. Creating educational resources,
2. Hosting wellness campaigns/activities
3. Funding promising research focused on addressing the diversity of symptoms and conditions related to having cerebral palsy.
https://cpnowfoundation.org/

**Booth 106**
**CPRN**
The Cerebral Palsy Research Network (CPRN) is a group of clinician researchers and patient advocates collaborating to improve treatments and outcomes for people with cerebral palsy. The network combines the expertise of clinicians committed to treating CP with innovative data collection techniques from clinical and community settings that accelerate the planning and execution of high-quality clinical trials and quality improvement initiatives. The network enables the implementation of improved standards of care and continuous monitoring of outcomes in order to create a large-scale learning health system for cerebral palsy.
https://cprn.org/

**Booth 108**
**Cerebral Palsy Foundation**
The Cerebral Palsy Foundation is a catalyst for creating new possibilities in the world of disabilities.
We are transforming lives for people with disabilities by collaborating with many of the world’s most innovative thinkers to create novel insights and develop breakthrough interventions which can be implemented today.
https://www.yourcpf.org/

**Booth 199**
**Cascade Dafo**
Cascade Dafo, creator of the original DAFO® (Dynamic Ankle Foot Orthosis), is the industry’s leading manufacturer of pediatric lower-extremity braces. The patient-focused company creates innovative products unmatched in quality, fit, and function—backed with a full (90-Day) warranty and exceptional customer support. Visit cascadedafo.com or call 800.848.7332.
https://cascadedafo.com/

**Booth 200/202**
**Convaid**
Convaid R82 is part of ETAC, a world-leading developer of ergonomic mobility aids for people at all stages of life – from small children to the elderly. We offer state-of-the-art products for numerous care situations, that aim to enhance activity regardless of physical circumstances. Our heart lies in the solutions that optimize quality of life for the individual, their family and caregivers. Etac – Creating Possibilities.
To learn more about Convaid R82 products, visit HYPERLINK “http://www.convaid-R82.com” www.convaid-R82.com or call 844 US MOBILITY (844.876.6245)
www.convaid.com

**Booth 201**
**Trexo Robotics**
Trexo Robotics develops pediatric wearable robotics to assist children in walking, in order to help build endurance and provide a form of exercise. The Trexo device is available for clinical and home use.
https://trexorobotics.com/

**Booth 203**
**Cleveland Clinic Foundation**
Cleveland Clinic Children’s is consistently ranked as one of the best hospitals in the United States. The Children’s Hospital for Rehabilitation is home to the nationally-renowned Center for Autism.
https://my.clevelandclinic.org/

**Booth 204**
**AMTI**
AMTI's industry-leading force platforms are trusted by clinicians and researchers worldwide. Our innovative OPTIMA system revolutionizes multi-axis force measurement technology, producing the most accurate force platforms on the market. Our smart platform technology and simple digital integration ensure the most accurate output in a convenient package.
www.amti.biz

**Booth 205**
**APDM**
APDM offers solutions for quantifying human movement by combining Opal sensors with sophisticated algorithms. Mobility Lab generates spatiotemporal gait and balance outcome measures and Moveo Explorer adds the ability to collect full body kinematic data including joint angles. Motion Studio software for access to precisely synchronized raw inertial data is complimentary.
https://www.apdm.com/
Exhibitors

**Booth 206**

**Boston Orthotics and Prosthetics**

Our mission today, as it was when we were formed almost 50 years ago, is to become the trusted partner of prestigious children's hospitals and pediatric specialty clinics in the development and delivery of pediatric orthotic and prosthetic services.

Our continuous collaboration with the world's leading pediatric clinicians and orthotists/prosthetists fuels our innovation and keeps us at the forefront of the development and delivery on non-surgical orthotic and prosthetic treatments. We believe parents are seeking the most advanced care and best possible outcomes for their child. We want them to insist on Boston Orthotics & Prosthetics for that care either through our products or our clinics.

https://www.bostonoandp.com/

**Booth 207**

**Gillette Children's Specialty Healthcare**

Gillette Children's Specialty Healthcare, located in St. Paul, Minnesota, cares for patients who have some of the most complex, rare and traumatic conditions in pediatric medicine.

**Booth 208**

**Surestep**

At Surestep, enriching and transforming lives through compassionate care and innovation is at the core of everything we do. It’s our mission. Though it’s easy to stay focused on this mission considering the rewarding work we do, we understand that we can only make an impact with the dedication of our employees. Passion drives us to serve children who need developmental assistance. Joy is what we feel when we witness the results of our hard work. That same joy and passion to change lives also applies to our team members. We strive to provide our employees with a safe, inclusive, and socially responsible workplace that encourages personal growth and success.

We know you have plenty of choices when it comes to the orthotic devices you choose to use. At Surestep, we believe our system of treatment is not only unique, but effective. Our core product, the patented Surestep SMO, revolutionized orthotic management for children with pronation or low muscle tone (hypotonia) worldwide. In addition to our SMO system, we also offer a comprehensive selection of devices to assist children with a wide range of mobility challenges. Each Surestep product is custom-made to achieve the ultimate in fit, function and comfort.

http://surestep.net/

**Booth 299**

**Pathways.org**

Pathways.org, a non-for-profit educational organization, provides FREE tools on line trusted resources so that every parent is fully empowered to support their child’s development, and take advantage of their child’s HYPERLINK "https://pathways.org/glossary/neuroplasticity/" neuroplasticity at the earliest age. We believe knowing baby’s milestones along with games and activities to encourage development will help children reach their full potential. Our materials are created under the direction of the Pathways.org Medical Roundtable and in collaboration with outside experts. Pathways.org will be providing a 2, 4, 6 month typical/atypical motor development teaching course available free.

www.pathways.org

**Booth 300/302**

**Saol Therapeutics**

Saol Therapeutics (pronounced “Sail”) is a privately-held, specialty biotech pharmaceutical company with operations in both Roswell, GA and Dublin, Ireland. Saol, focused on neuroscience (spasticity) and rare disease, is committed to providing and advancing therapeutic options for patients and the physicians treating these populations. For more information, visit www.saolrx.com.

**Booth 301**

**Kennedy Krieger Institute**

Located in the Baltimore/Washington region, Kennedy Krieger Institute is internationally recognized for improving the lives of 20,000 children and young adults with disorders and injuries of the brain, spinal cord, and musculoskeletal system each year, through inpatient and outpatient clinics; home and community services; and school-based programs.

https://www.kennedykrieger.org/

**Booth 303**

**American Association for Pediatric Ophthamology and Stabismus (AAPOS)**

AAPOS is the American Association for Pediatric Ophthamology and Strabismus. The organization’s goals are to advance the quality of children’s eye care, support the training of pediatric ophthalmology, and advance the care of adults with strabismus.

https://aapos.org/home

**Booth 304**

**Merz Neurosciences**

Merz North America is a specialty healthcare company dedicated to developing and marketing innovative quality products for physicians and patients across the United States through Aesthetics and Neurosciences.

http://www.xeomin.com/healthcare-professionals/
**Booth 305**
**PRC-Saltillo**
For over 50 years, PRC-Saltillo has led the industry in providing AAC solutions with advanced communication technology via speech-generating devices. Our company is also a pioneer in language vocabulary development, giving children and adults with communication challenges the ability to participate in life. Families, clinicians and special educators select PRC and Saltillo augmentative and alternative communication (AAC) devices as part of a communication strategy to assist a wide range of individuals with communication disabilities. Employee-owned since 2004, we are fully committed to the idea of empowering communication for all.
https://www.prc-saltillo.com/

**Booth 306**
**PTC Therapeutics**
At PTC, we dedicate ourselves to using groundbreaking science as we research rare diseases. We believe that by shifting our perspective, using the newest technologies available, we can find innovative ways to treat these diseases and create shared moments between patients and their families. Coupled with our patient-centric approach to treatment, we create an environment that resembles more of a family get-together than a typical doctor-patient relationship. In doing all of this, we can change lives around the world.
https://www.ptcbio.com/

**Booth 307**
**Easy Walking**
Easy-Walking Inc, makers of the Upn’Go and Upn’Free partial weight bearing body-support, dynamic rehab tool for gait-development. Used in clinics and at home. Toddler-adult.
www.easy-walking.com

**Booth 308**
**Cook Children’s Health Care System**
Cook Children’s Comprehensive Cerebral Palsy and Movement Disorders Program.
https://www.cookchildrens.org

**Booth 399**
**Galileo Therapy/Stim Designs**
Galileo is a universal neuromuscular training tool improving muscle fitness, enhancing performance, and optimizing motor relearning under the principle of high repetition in minutes.
https://stimdesigns.com

**Booth 400**
**Piramal**
With nearly 20 years in the healthcare industry, Piramal Critical Care, (PCC) is committed to delivering critical care solutions to patients and healthcare providers worldwide. PCC is leading the way in intrathecal medicine with offerings for pain and spasticity management while representing a culture built on collaboration, innovation, and service.
https://www.piramalcriticalcare.com/

**Booth 401**
**Canine Companions for Independence**
Canine Companions for Independence is a non-profit organization that enhances the lives of people with disabilities by providing highly trained assistance dogs at no charge to the recipient.
www.cci.org

**Booth 402/404**
**Allergan, Inc**
Allergan plc (NYSE: AGN), is a bold, global pharmaceutical company focused on developing, manufacturing and commercializing branded pharmaceuticals, devices and biologic products for patients around the world. For more information, visit Allergan’s website at www.Allergan.com.
www.allergan.com

**Booth 403**
**Neofect USA**
Neofect has developed innovative smart rehabilitation solutions to help patients with neurological and musculoskeletal conditions improve hand and arm function. The Rapael Smart Glove, Smart Board, and Smart Pegboard are biofeedback devices that provide intensive repetitions needed for neuroplasticity in a gamified and motivating way.
www.neofect.com

**Booth 405**
**Phoenix Children’s Hospital**
Phoenix Children’s Hospital is Arizona’s only children’s hospital recognized by US News & World Report’s Best Children’s Hospitals, ranking in all 10 specialties in 2018-19 and the fastest growing Children’s Hospital in the country. Phoenix Children’s freestanding children’s hospital with a level 1 trauma center and comprehensive subspecialty care.
https://www.phoenixchildrens.org/

**Booth 406/408**
**Ipsen Biopharmaceuticals, Inc**
Ipsen Biopharmaceuticals, Inc. is the U.S. affiliate of Ipsen (Euronext: IPN; ADR: IPSEY), a global biopharmaceutical group focused on innovation and specialty care. The company is dedicated to providing hope for patients whose lives are challenged by difficult-to-treat diseases, focusing its resources, investments and energy on discovering, developing and commercializing new therapeutic options in oncology, neurosciences and rare diseases. For more information on Ipsen in North America, please visit www.ipsenus.com.
www.ipsenus.com
Exhibitors

**Booth 407**
Nemours/Alfred I. duPont Hospital for Children
Wilmington, DE/USA
Ranked nationally for pediatric orthopedics by U.S. News & World Report, the Cerebral Palsy Program at duPont Hospital for Children brings together specialists in orthopedics, neurology, neurosurgery and rehabilitation to help each child reach their full potential.
https://www.nemours.org/orthopediccenter

**Booth 499/501**
Medtronic
Patients are at the center of everything we do--and we believe medical technology can play an even greater role in improving people's lives. Join us in our commitment to take healthcare further, together. Be inspired at medtronic.com.
www.medtronic.com

**Booth 500/502**
Tyromotion GmbH
“TYROTHERAPY – GET BETTER. EVERY DAY.”
Tyromotion GmbH is one of the world-wide leading manufacturers and distributors of robotic assisted and computer aided therapy units with the goal to sustainably improve patients’ independence and quality of life.

To accomplish this mission, we provide a complete solution that enables physicians and therapists to put their patients at the heart of rehabilitation and to work together on their goals. By using powerful novel technologies such as robotics, sensor technology, virtual reality and gamification, patients are guided through the rehabilitation process more intensively and motivationally.

Connected by our intelligent therapy software TyroS®, Tyromotion’s products AMADEO® (finger-hand rehabilitation), PABLO® (hand-arm rehabilitation), TYMO® (trunk control), DIEGO® (arm-shoulder rehabilitation) and MYRO (multisensory therapy system) build a comprehensive therapy concept for the complete upper extremity during all phases of rehabilitation. With our product OMEGO® (all phases of gait rehabilitation), as well as extensions of our products TYMO® (balance training and postural control) and PABLO® (gait analysis), we also provide various therapeutic options for the lower extremity. Coupled with numerous assessments and bio feedback, Tyromotion products facilitate several forms of rehabilitation for children and adults with various indications.

The company with headquarters in Graz has additional branch establishments in Germany, Switzerland and the USA and a global network of distribution partners.
www.tyromotion.com

**Booth 503**
Rifton
For four decades Rifton has partnered with therapists to design and manufacture the most durable and adjustable rehab products available for people with disabilities.
https://www.rifton.com/

**Booth 504**
National Seating & Mobility
THE RIGHT CHAIR.
We build one-of-a-kind mobility devices designed specifically for your body and your needs. Your chair is comfortable, safe and works completely in sync with you. In fact, you may forget where you end and the chair begins. Ours is the ultimate custom-made. The chair you deserve.
https://www.nsm-seating.com/

**Booth 505**
Mediknox
Mediknox works with the most advanced medical devices, and simplify professional medical technology for home use. This technology is clinically proven and FDA cleared medical devices, and currently carried, used and sold by medical professionals, including those within this field.
https://www.mediknox.com/

**Booth 506/508**
Orthopediatrics
Medical Device Manufacturer of Pediatric Orthopedics.
Founded in 2006, OrthoPediatrics 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. OrthoPediatrics currently markets 29 surgical systems that serve three of the largest categories within the pediatric orthopedic market. This offering spans trauma and deformity, scoliosis, and sports medicine/other procedures. OrthoPediatrics’ global sales organization is focused exclusively on pediatric orthopedics and distributes its products in the United States and 41 countries outside the United States.
www.orthopediatrics.com

**Booth 507**
Mobility Research – LiteGait Products
Products, Education, and Rehabilitation Solutions
Mobility Research is a company of rehabilitation professionals dedicated to the transfer of the latest technology and research knowledge to the rehabilitation arena. We are a team of clinicians, researchers, educators, and engineers working to provide products, education, and rehabilitation solutions for pediatric and adult populations with motor control related disabilities. We have been providing innovative solutions to the Physical Rehabilitation community for over 20 years.
We are the makers LiteGait® family of products, used in treating spinal cord injury, amputation, stroke, chronic pain, head injury, orthopedic problems, cerebral palsy, balance issues, multiple sclerosis, and arthritis.
https://www.litegait.com/
## Disclosure Index

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)  
L = Nothing to Disclose

### Breakfast Seminar

<table>
<thead>
<tr>
<th>BRK01</th>
<th>Woolfenden, S (L), Oskoui, M (L), Milner, K (L), Khandaker, G (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRK02</td>
<td>Alriksson-Schmidt, A (L), Stadsklev, K (L), Gullien, M (L)</td>
</tr>
<tr>
<td>BRK03</td>
<td>Paleg, G (Prime Engineering: A), Rodby-Bousquet, E (L)</td>
</tr>
<tr>
<td>BRK04</td>
<td>Smythe, T (L), Achuroa, D (L), Lindoewood, R (L)</td>
</tr>
<tr>
<td>BRK05</td>
<td>Dodds, C (L), Rempel, G (Nestle Health Sciences: F), Roach, H (L)</td>
</tr>
<tr>
<td>BRK06</td>
<td>Belthur, M (L), Davids, J (OrthoPediatrics: A), Davidson, L (L)</td>
</tr>
<tr>
<td>BRK07</td>
<td>Shrader, W (OrthoPediatrics: A), Weigl, D (L), Owens, L (L), Boyd, L (L)</td>
</tr>
<tr>
<td>BRK08</td>
<td>Valencia, F (L), Lichtenthal, P (L), samuels, p (L)</td>
</tr>
<tr>
<td>BRK09</td>
<td>Gorter, J (L), Xiong, J (L), McPhee, P (L), Reedman, S (L)</td>
</tr>
<tr>
<td>BRK10</td>
<td>Tinelli, F (L), Sgandurra, G (L), Cioni, G (L)</td>
</tr>
<tr>
<td>BRK11</td>
<td>Gormley, M (Allergan: E), Fox, J (L), Vonderhaar, K (L)</td>
</tr>
<tr>
<td>BRK12</td>
<td>McCormick, A (L), van Hedel, H (Hocoma: I, my partner or my spouse do not have a financial relationship with the company, but the company supports the network (ARTIC) that I will present), Gaebler-Spira, D (Rehatek: A), Wright, V (L)</td>
</tr>
<tr>
<td>BRK13</td>
<td>Labhard, S (L)</td>
</tr>
<tr>
<td>BRK14</td>
<td>Hesketh, K (L), Cross, A (L), Teplicky, R (L), Rosenbaum, P (L)</td>
</tr>
<tr>
<td>BRK20</td>
<td>Peterson, M (L), Hurvitz, E (L), Whitney, D (L)</td>
</tr>
<tr>
<td>BRK21</td>
<td>Sewell-Roberts, C (L), Sato, T (L), Shrader, C (L), Shrader, W (Orthopediatrics: A)</td>
</tr>
<tr>
<td>BRK22</td>
<td>van Gorp, M (Pain Fighting Fund, Erasmus MC University Medical Center: E)</td>
</tr>
<tr>
<td>BRK23</td>
<td>Smith, B (L), Wilson, R (L)</td>
</tr>
<tr>
<td>BRK24</td>
<td>Gross, P (L), Gannotti, M (L)</td>
</tr>
<tr>
<td>BRK25</td>
<td>Malik, K (L)</td>
</tr>
<tr>
<td>BRK26</td>
<td>Roman, C (L), Thomas, H (L)</td>
</tr>
<tr>
<td>BRK27</td>
<td>Granlund, M (L), Imms, C (L), Brooks, R (L), Hwang, A (L)</td>
</tr>
<tr>
<td>BRK28</td>
<td>DiBello, T (Hanger Clinic: B)</td>
</tr>
</tbody>
</table>

### Debate/Current Controversies

| CC01 | Schiariti, V (L), Berndl, A (L), Lipworth, H (L) |
| CC02 | Bauer, C (L), Lawrence, L (L), Harpster, K (L), Deramore Denver, B (L), Ortibus, E (L) |
| CC03 | Miller, F (L), Novacheck, T (L), Tedroff, K (L) |
| CC04 | McCormick, A (L), Biddiss, E (L), Scheinberg, A (L), Rocon, E (L), Alazem, H (L), McEwan, A (L) |
| CC05 | Graham, K (NHMRC-CRE in Cerebral Palsy: E) |
| CC06 | Gillick, B (L), Friel, K (L), Kirton, A (L), Gordon, A (L) |

### Focused Symposia

| SYMP01 | Armstrong, R (L), Forssberg, H (L), Samia, P (L), Rosenbaum, P (L), Dan, B (L) |
| SYMP02 | Fehlings, D (L), Glader, L (L), O’Donnell, M (L), Shusterman, M (Merz Pharma: G, I am the President of CP NOW and Merz has given grant funds to CP NOW), Novak, I (L) |
| SYMP03 | Scheinberg, A (L), Stewart, K (L), Lewis, J (L), Paget, S (L), Sheriko, J (L), Copeland, L (L) |
| SYMP04 | Howard, J (L), Graham, K (NHMRC-CRE in Cerebral Palsy: E) |
| SYMP05 | Boyd, R (L), Novak, I (L), Fahey, M (L), Elliott, C (L) |
| SYMP06 | Greenberg, M (L), Rosen, P (L), Khot, A (L), Aroojis, A (L), Kalandyak, O (L) |
| SYMP07 | Harris, N (L), Moreau, N (L), Roy, M (L), Hedgecock, J (L), Prowse, M (L) |
| SYMP08 | Buizer, A (L), van de Pol, L (L), Vermeulen, R (L), Langerak, N (L), Akhter, S |
| SYMP09 | Forssberg, H (L), Damiano, D (L), Berjemo, R (L), Servili, C (L), Cieza, A (L) |
SYMP10 Srinivasan, R (L), Anaby, D (L), Khetani, M (CanChild Centre for Childhood Disability Research: I), Tepley, R (L)
SYMP11 Agrawal, S (L), Damiano, D (L), Gordon, A (L), Dutkowsky, J (L), Kim, H (Allergan: Advisory Board member; Disypat: research grant, advisory board member)
SYMP12 Scott-Wyward, P (L), Schaber, C (L)
SYMP13 Miller, S (L), Willoughby, K (L), Yeo, L (L), Thomason, P (L), Graham, K (NHMRC-CRE in Cerebral Palsy: E Orthopediatrics: A)
SYMP14 Benfer, K (Nutricia: A), Ghosh, A (L), Morgan, C (L), Khandaker, G, Boyd, R (L)
SYMP15 Reedman, S (L), Sakzewski, L (L), Boyd, R (L), Elliott, C (L), Shikako-Thomas, K (L), Majnemer, A (L)
SYMP17 Dusing, S (L), Spittle, A (L), Morgan, C (L), Oeberg, G (L)
SYMP18 Paleg, G (Prime Engineering: A), Rodby-Bousquet, E (L), Shrader, W (Orthopediatrics: A Petal with Pete: E POSnA: E), Narayanan, U (L), Gorter, J (L)
SYMP19 Eliasson, A (L), Basu, A (Ipsen: G, Educational grant), Cioni, G (L), Greaves, S (Handfast AB: F), Boyd, R (L)
SYMP20 Seal, A (L), Rosenbaum, P (L), Carroll, J (L), Benfer, K (Nutricia: A), Greenberg, M (L), Gillick, B (L)
SYMP21 Schar, V (L), Valerian, R (L), Carranza-del Rio, J (Ipsen: E), Barron, F (L), Martinez Caceres, M (L), Galvez Guiñonez, H (L)
SYMP22 Sumanasena, S (L), Hoare, B (L), Rice, J (L), Muttiah, N (L)
SYMP23 Novak, I (L), Sakzewski, L (L), Jackman, M (L), Morgan, C (L), Boyd, R (L)
SYMP24 Sgandurra, G (L), Cioni, G (L), Boyd, R (L)
SYMP25 Smithers-Sheedy, H (L), Gross, P (L), Reid, S (L), Westbom, L (L), Goldsmith, S (L)
SYMP26 Peyton, C (General Movements Trust: F), Spittle, A (L), Guzzetta, A (L)
SYMP27 Kulkarni, V (L), Davids, J (Orthopediatrics: A), Khot, A (L), Aroojis, A (L)
SYMP28 Dan, B (L), Egan, T (L), Gaebler-Spira, d (Rehabtek: A Rehabtek: A), Green, D (L), Shen, M (L), Lopez-Ortiz, C (L)
SYMP29 Schar, V (L), Gladstone, M (L), Longo, E (L), Rizzoli Cordoba, A (L)
SYMP30 O'Connor, B (L), Rosenbaum, P (L), Smythe, T (L), Wright, V (L)
SYMP31 Swaroop, V (L), Bowman, R (L), Yerkes, E (L)
SYMP32 McDonald, D (L), Allen, J (L), Hauer, j (L)
SYMP33 Smithers, R (L), Dusing, S (L), Morgan, C (L), Guzzetta, A (L), Lobo, M (L)
SYMP34 Shore, B (L), Shrader, W (Orthopediatrics: A), Berry, J (L), Graham, K (NHMRC-CRE in Cerebral Palsy: E Orthopediatrics: A), Antolovich, G (L), Glader, L (L)
SYMP37 Shen, M (L), li, x (L), Liang, b (L), Liu, y (L), Wei, G (L)
SYMP38 Kulkarni, V (L), Davids, J (Orthopediatrics: A), Thomason, P (L), Aroojis, A (L), Graham, K (NHMRC-CRE in Cerebral Palsy: E Orthopediatrics: A)
SYMP39 Boyd, R (L), Whittingham, K (L), Mak, C (L)
SYMP40 Noritz, G (L), Humphrey, L (L), Malhotra, P (L), Whitaker, A (L)
SYMP41 Harpster, K (L), Deramore Denver, B (L), Bauer, C (L), Guzzetta, A (L), Shusterman, M (Merz USA: G, I am the ED of CP NOW and the organization receives grant funds from Merz), Hillier, L (L)
SYMP42 Deluca, S (L), Coker-Bolt, P (L), Ramey, S (L), Shierk, A (Ipsen: A), Roberts, H (L)

Instructional Course
IC01 Chiarello, L (L), Ideishi, R (L)
IC02 Byrne, R (L), Rosenbaum, P (L), Pickar, T (L), Glader, L (L)
IC03 Holt, S (L), Gaut, L (L), Linz, M (L)
IC04 Hyman, J (Orthopaedic Surgery Research Foundation: E Orthopediatrics: A)
PO5NA: E), Royn, D (L), Shrader, W (Orthopediatrics: A), Chambers, H (Orthopediatrics: A), Nowicki, P (Orthopediatrics: A)
IC05 Chin, E (L), Jantzie, L (L), Robinson, S (L), Hoon, A (L)
IC06 Brandenburg, J (L), Schiariti, V (L), Mendoza-Puccini, C (L), Feldman, R (L), McIntyre, S (L)
IC07 Berry, J (L), Belthur, M (L), Rempel, G (Nestle Health Sciences: F)
IC08 Newell, A (L), Quinn, E (L), Kim, H (Allergan: Advisory Board member; Disypat: research grant, advisory board member)
IC09 Anaby, D (L), Killeen Hughes, H (L), Burrough, M (L), Teplicky, R (L), Golos, A (L), Turner, L (L)
IC10 Novacheck, T (L), Boyer, E (Gillette Children's Foundation: E), Stout, J (L), Walt, K (L), Weber, L (L)
IC11 Novak, I (L), Guzzetta, A (L), Fahey, M (L), te Velde, A (L), McNamara, L (L), Gillick, B (L)
IC12 Huvitz, E (L), Peterson, M (L), McPhee, P (L), Thorpe, D (L), Langerak, N (L), Heyn, P (L), Carollo, J
IC13 Wallace, D (L), Mann, j (L), Trucks, M (L), Deluca, S (L)
IC14 Salzbrenner Hoopes, M (L), Dabney, K (L), Spencer, T (L), Aptt, V (L)
IC15 Swaroop, V (L), Dias, L (L), Yerkes, E (L), Bowman, R (L)
IC16 Byrne, R (L), Maitre, N (L), Duncan, A (L)
IC17 Matsumoto, H (AACPDM (A) CSF, CCSSG, A POSNA Setting Scoliosis Straight Foundation C)
Disclosure Index

IC32 Lehman, S (L), Lawrence, L (L)

IC33 Thomason, P (L), Willoughby, K (L), Rutz, E (L), Khot, A (L), Graham, K (NHMRC-CRE in Cerebral Palsy: E)

Orthopediatrics: A)

IC34 Koscielniak, N (L), Tucker, C (L)

IC35 Murphy, N (L), Adams, R (L)

IC36 Rempel, G (Nestle Health Sciences: F), Dodds, C (L), Sellers, D (Nutricia Advanced Medical NutritionUK: E, F), Ibarra, M (L)

IC37 Mukherjee, S (L), Rinaldi, R (L), Nelson, V (L), Yang, L (L), spires, M (L)

IC38 Peny-Dahlstrand, M (L), Brei, T (L), Lindquist, B (L), Zabel, A (L)

IC39 Chiarello, L (L), Palisano, R (L)

IC40 Guzzetta, A (L), Ricci, D (L), Tinelli, F (L)

IC41 Nourie, C (L), LeComte, J (L), Shrader, B (L), Shrader, M (L), Shrader, C (L)

Scientific Presentation

A1 Boychuck, Z (L), Andersen, J (L), Fehlings, D (L), Kirton, A (L), Oskoui, M (L), Shevell, M (L), Majmader, A (L)

A2 Africkson-Schmidt, A (L), Westbom, L (L), Hägglund, G (L), Wagner, P (L)

A3 Goldsmith, S (L), McIntyre, S (L), Smithers-Sheedy, H (L), Andersen, G (L), Himmelmann, K (L), Blair, E (L), Gibson, C (L), Scott, H (L), Badawi, N (L), Garcia Jalon, G (L), Garne, E (L)

A4 Pählin, M (L), Himmelmann, K (L)

A5 Boyd, R (L), Saha, s (L), George, J (L), Colditz, P (L), Rose, S (L), Fripp, J (L), Pannek, K (L)

A6 Couse, M (L), Guimond, C (L), Mulpuri, K (Allargan: C, E)

Dupey Synthes (U&J): C, E

IPSEN: A, C, E

Pega Medical: I), Birch, P (L), Lau, E (L), Liang, N (L), Horvath, G (L), Ro, S (L), van Karnebeek, C (L), Lehman, A (L), Friedman, J (L)

A7 Worley, G (L), Erickson, S (L), Gustafson, K (L), Nikolova, Y (L), Belsky, D (L), Goldstein, R (L), Levy, J (L), McDonald, S (L), Page, G (L), Ashely-Koch, A (L), Cotten, M (L)

A8 Purcell, J (L), Batterson, N (L), Lewandowski, D (L), Levingood, K (L), Lightfoot, M (L), Benninger, K (L), Neel, M (L), Less, J (L), Burkhardt, S (L), Sowers, B (L), Maitre, N (L)

A9 Kitai, Y (L), Hirai, S (L), Ogura, K (L), Okuyama, N (L), Hirotsune, M (L), Mizutani, S (L), Arai, H (L)

B1 Rethlefson, S (L), Mueske, N (L), Wren, T (L)

B2 Lullo, B (L), Mueske, N (L), Diamant, c (L), Van Speybroeck, A (L), Ryan, D (L), Wren, T (L)

B3 Stevens, P (Hanger Clinic: B, J), DiBello, T (Hanger Clinic: B)

B4 FitzGerald, T (L), McGinley, J (L), Cheong, J (L), Doyle, L (L), Spittle, A (L)

B5 Wren, T (L), Pierz, K (L), Acsadi, G (L), Ounpuu, S (L)

B6 de Morais Filho, M (Orthopediatrics: A), Blumetti, F (L), Kawamura, C (L), Freitas, K (L), Fujino, M (L), Lopes, J (L), Neves, D (L)
Disclosure Index

B7 Steele, K (L), Mehrabi, N (L), Schwartz, M (L)
B8 Matsumoto, H (AACPMID: A; CSF: C, CSSG: A, POSNA: E; Setting Scoliosis Straight Foundation: C, SRS: E), Marciano, G (L), Kim, H (Allergan: Advisory Board member; Dysport: research grant, advisory board member), Roye, D (Broadwater: G)
Setting Scoliosis Straight Foundation: C, SICOT: A
B9 Gehringer, J (L), Hoffman, R (L), Baker, S (L), Wilson, T (L), Kurz, M (L)
C1 Hollung, S (L), Lanzen, M (L), Delobel, M (L), Ehlinger, V (L), Kinsns-Ovaskainen, A (L), Himmlmann, K (L), Platt, M (L), Arnaud, C (L)
C2 McIntyre, S (L), Smithers-Sheedy, H (L), Weight, E (L), Galea, C (L), Watson, L (L), Reid, S (L), DeLacy, M (L), Gibson, C (L), Scott, H (L), Maloney, E (L), Goldsmith, S (L), Reddiough, D (L), Badawi, N (L), Bla, E (L), Bartlett-clark, K (L)
C3 Hollung, S (L), Bakken, I (L), Vik, T (L), Wiik, R (L), Lydersen, S (L), Andersen, G (L)
C5 Chowdhury, S (L), Boyd, R (L), ghosh, A (L), Benfer, K (Nutricia: A)
C6 Ostojic, K (L), Paget, S (L), Kyriaqis, M (L), Morrow, A (L)
C7 Egbon, J (L), McConnell, K (L), Perra, O (L), Kerr, C (Leckey: C, In-kind support from commercial company on academic-industry research grant funded by Medical Research Council (UK))
C8 Carvalho, A (L), Ventura, P (L), Fernandes, A (L), Brites, C (L), Lucena, R (L)
C9 Weight, E (L), Smithers-Sheedy, H (L), McIntyre, S (L), Badawi, N (L), Watson, L (L), Reid, S (L), DeLacy, M (L), Gibson, C (L), Scott, H (L), Bartlett-clark, K (L), Maloney, E (L), Weight, T (L), Reddiough, D (L), Goldsmith, S (L), Galea, C (L), Bla, E (L), Bartlett-clark, K (L), Watson, L (L)
D1 Lavelle, G (L), Noorkoiv, M (L), Theis, N (L), Ryan, J (L)
D2 Reedman, S (L), Ziviani, J (L), Boyd, R (L), Sakzewski, L (L)
D3 van Gorp, M (Pain Fighting Fund, Erasmus MC University Medical Center: E)
Rijndam Rehabilitation: E, Tan, S (L), Voorman, J (L), Gytenbeek, J (L), Reinders-Messink, H (L), Ketelaar, M (L), Dallmeijer, A (L), Roebroek, M (L)
D4 McAnuff, J (L), Rapley, T (L), Colver, A (L), Kolehmainen, N (L)
D5 Chen, C (L), Shen, C (L), Chung, C (L), Wu, K (L), Hsiao, Y (L), Chen, H (L)
D6 Condliffe, E (Movotec A/S: C, Movotec A/S has provided me with a portable spasticity assessment device for unrestricted use.), Esau, S (L), Janzen, L (L), Sandron, E (L), Kunte, G (L), Emery, C (L)
D7 Toovey, R (L), Harvey, A (L), McGinley, J (L), Lee, K (L), Shih, S (L), Spittle, A (L)
D8 Armstrong, E (L), Kentish, M (L), Boyd, R (L), Horan, S (L), Carty, C (L)
D9 Lennon, N (L), Church, C (L), Shrader, W (Orthopediatrics: A), Kalisperis, F (L), Wickham, A (L), Henley, J (L), Niiler, T (L), Miller, F (L)
E1 Araneda, R (L), Ebner-Karestinos, D (L), Saussez, G (L), Paradis, J (L), Bleyenheuft, Y (L)
E3 Rabatin, A (L), Sugimoto, d (L), Zwicker, R (L), Shea, J (L), Nohletty, E (L), Shore, B (L), Stracciolini, A (L)
E4 Yoo, P (L)
E5 Fauls, J (L), Thompson, B (L), Johnston, L (L)
E6 Shea, J (L), Tombono, R (L), Miller, P (L), Fragala-Pinkham, M (L), Snyder, B (L), Matheny, T (L), Shore, B (L)
E7 Goodlich, B (L), Armstrong, E (L), Horan, S (L), Carty, C (L), Trost, S (L), Ahmadi, M (L), Baque, E (L)
E8 Mattern-Baxter, K (L), Looper, J (L), Bjornson, K (L)
E9 Ryan, J (L), Lavelle, G (L), Noorkoiv, M (L), Theis, N (L), Shortland, A (L), Koff, T (L), Levin, W (L), Kilbride, C (L)
F1 Bonouvié, L (L), Becher, J (L), Vles, J (L), Vermeulen, R (Ipsen: A), Medtronic: F), Buizer, A (L)
F2 Duffy, E (L), Hornung, A (L), Munger, M (L), Chen, B (L), Aldahondo, n (L), Krach, L (L), Schwartz, M (L), Novacheck, T (L)
F3 Kneebone, M (L), Stewart, K (L), Johnston, L (L)
F4 Graham, K (NHMRC-CRE in Cerebral Palsy: E, Orthopediatrics: A), Multani, I (L), Hastings-Isom, T (L), Howard, J (L), Herzog, W (L)
F5 Jacobson, D (L), Löwing, K (L), Kullander, K (L), Rydh-Berner, B (L), Ljung, M (L), Tedroff, K (L)
F7 Dallmeijer, A (L), van Hutten, K (L), van der Krogt, M (L), Buizer, A (L)
F8 Hedberg-Graff, J (L), Krumlinde-Sundholm, L (L), Philström, N (L)
F9 Pons, L (Ipsen: B), Vilain, C (Ipsen: B), Picaut, P (Ipsen: B)
G1 Kerr, C (Leckey: C, In-kind support from commercial company on academic-industry research grant funded by Medical Research Council (UK)), McKevaveney, C (L)
G2 Bauer, J (L), Do, p (L), Feng, J (L), Aiona, M (L)
G3 Church, C (L), Maguire, K (L), Oles-Santilian, G (L), Henley, J (L), Lenon, N (L), Miller, F (L), Salazar Torres, J (L), Julieanne, S (L)
G4 Narayanan, U (L), Huray, M (L), Encisa, C (L), Ferkul, A (L), Graham, K (NHMRC-CRE in Cerebral Palsy: E)
Disclosure Index

G5 Marshall, B (L), Malone, J (L), Kiebzak, G (L)
G6 Hardey, C (Medtronic: A)
OrthoPediatrics: A, Poe-Kochert, C (L), Son-Hing, J
G7 Alriksson-Schmidt, A (L), Cumba, T (L), Hägglund, G (L)
G8 Lins, L (L), Samineni, A (L), Miller, P (L), Watkins, C (Wishbone Medical: A), Matheney, T (L), Snyder, B (L), Shore, B (L)

H1 Ryan, J (L), Noorkoiv, M (L), Theis, N (L), Kilbride, C (L), Korff, T (L), Shortland, A (L), Levin, W (L), Lavelle, G (L)
H2 Hwang, Y (L)
H3 Maitre, N (L), Jeanvoine, A (L), Burkhardt, S (L), Pietruszewski, L (L), Miller, A (L), Nelín, M (L), Heathcock, J (L)
H4 Rodrigues de Sousa, R (L), Costa Ferreira, L (L), Campos Ferreira, A (L), Paisante Vieira de Barros, C (L), Bensemann Gontijo, J (L)
H5 Metzler, M, O’Grady, K (L), Fay, L (L), Fehlings, D (L), Andersen, J (L), Harvey, S (L), Herrero, M (L), Kirton, A (L)
H6 Klevberg, G (L), Elkjær, S (L), Zucknick, M (L), Jhanssen, R (L)
H7 Korkem, D (L), Kerem Günel, M (L), Hass, A (L), Karlı Oğuz, H (L)
H8 Ramey, S (L), Deluca, S (L), Stevenson, R (L), Darragh, A (L), Lo, W (L), Conaway, M (L)
H9 Hurd, C (L), Livingstone, D (L), Brunton, K (L), Smith, A (L), Zewdie, E (L), Gorassini, M (L), Kirton, A (L), Watt, M (L), Andersen, J (Allargan: F)
IPSEN Canada: A, Yager, J (L), Yang, J (L)
I1 Trevarrow, M (L), Gehringer, J (L), Wilson, T (L), Kurz, M (L)
I2 Vuong, A (L), Fowler, E (L), Matsumoto, J (L), Staudt, L (L), Greenberg, M (L), Yokota, H (L), Joshi, S (L)
I4 Pannek, K (L), George, J (L), Boyd, R (L), Colditz, P (L), Rose, S (L), Fripp, J (L)
I5 Harpster, K (L), Merhar, S (L), Illipani, V (L), Kline-Fath, B (L), Parikh, N (L)
I6 Johnson, C (L), Mcllvain, G (L), Tracy, J (L), Chaze, C (L), Villermaux, G (L), Wright, H (L), Miller, F (L), Crenshaw, J (L)
I7 Springer, A (L), Dyck Holzinger, S (L), Andersen, J (Allargan: F, IPSEN Canada: A, Buckley, D (L), Fehlings, D (L), Kirton, A (L), Koclas, L (L), Pigeon, N (L), Van Rensburg, E (L), Wood, E (L), Oskoui, M (L), Shevell, M (L)
I8 Pagnozzi, A (L), Fripp, J (L), Boyd, R (L), Rose, S (L)
I9 Pagnozzi, A (L), Fripp, J (L), Boyd, R (L), Rose, S (L)
J1 Bolduc, M (L), Dionne, E (L), Majnemer, A (L), Brossard-Racine, M (L)
J3 Neel, M (L), Hay, K (L), Moore-Clingenpeel, M (L), Miller, A (L), Emery, L (L), Hauge, K (L), Maitre, N (L)
J4 Noten, S (L), Benner, J (L), Limsakul, C (Faculty of Medicine, Prince of Songkla University, Thailand: B), van der Slat, W (L), Stam, H (L), Selb, M (L), van den Berg-Emons, R (L), Roebroeck, M (L)
J5 Gorter, J (L), Smits, D (L), Riddell, C (L), Voorman, J (L), Rosenbaum, P (L), Palisano, R (L), Walter, S (L), Hanna, S (L), van Wely, L (L), Ketelaar, M (L)
J6 Lennon, N (L), Church, C (L), Shrader, W (Orthopediatrics: A), Robinson, W (L), Salazar Torres, J (L), Taylor, D (L), Niiler, T (L), Miller, F (L)
J7 Langerak, N (L), Behardien, T (L), Eken, M (L), Veerbeek, B (L), Fiegen, A (L), du Toit, J (L), Lamberts, R (L)
J8 Chiu, H (L), Ada, L (L), Chen, C (L)
J9 Gannotti, M (L), Thorpe, D (L), Wang, C (L), Freburger, J (L)
K1 Peyton, C (General Movements Trust: F), Einspieler, C (General Movements Trust: F), Fjortoft, T (L), Adde, L (L), Schreiber, M (L), Msall, M (L)
K2 Spittle, A (L), Kwong, A (L), Doyle, L (L), Lee, K (L), Einspieler, C (General Movements Trust: F), Olsen, J (L), Eeles, A (L), Cheong, J (L)
K3 Ghosh, A (L), Boyd, R (L), Novak, I (L), Morgan, C (L), Ware, R (L), Benfer, K (Nutricia: A)
K4 Molini, R (L), Inamdar, K (L), Marinowski, E (L), Dusing, S (L), Koziol, N (L), Lobo, M (L), Harbourne, R (L), McCoy, S (L), Bovaird, J (L)
K5 Finlayson, F (L), Dusing, S (L), Olsen, J (L), Guzzetta, A (L), Kwong, A (L), Spittle, A (L)
K6 McManus, B (L), Khetani, M (CanChild Centre for Childhood Disability Research: I), Richardson, Z (L), Scully, B (L), Litfin, J (L), Murphy, N (L), Rigau, B (L)
K7 Peyton, C (General Movements Trust: F), Einspieler, C (General Movements Trust: F), Adde, L (L), Fjortoft, T (L), Schreiber, M (L), Drobyshevsky, A (L), Marks, J (L)
Disclosure Index

K8 Khurana, S (L), Dusing, S (L), Kane, A (L), Brown, S (L), Tarver, T (L)

K9 Lobo, M (L), Harbourne, R (L), Dusing, S (L), McCoy, S (L), Cunha, A (L), Babik, I (L), An, M (L), Sheridan, S (L), Wiidte, S (L)

L1 Whitney, D (L), Warschacysky, S (L), Whibley, D (L), Kratz, A (L), Murphy, S (L), Hurvitz, E (L), Peterson, M (L)

L2 van Gorp, M (Pain Fighting Fund, Erasmus MC University Medical Center: E), van Wely, L (L), Dallmeijer, A (L), de Groot, V (L), Terwee, C (PROMIS Health Organisation: President (non-financial relationship)), Flens, G (L), Stam, H (L), van der Slot, W (L), Roebroeck, M (L)

L3 van der Slot, W (L), Benner, J (L), Brunton, L (L), Ansell, J (L), Gallagher, P (L), Hilberink, S (L), Mainum, G (L), Morgan, P (L), Opheim, A (L), Riquelme, J (L), Rodey-Bousquet, E (L), Tarsuslu Siimsek, T (L), Thorpe, D (L), van den Berg-Emons, R (L), Vogt, L (L), Roebroeck, M (L)

L4 Burgess, A (L), Boyd, R (L), Chatfield, M (L), Ziviani, J (L), Ware, R (L), Szakowski, L (L)

L5 de la Cruz, J (L), Sellier, E (L), Horber, V (L), Franki, I (L), Pallás, c (L), Himmelmann, K (L), Ortibus, E (L)

L6 Harbourne, R (L), Dusing, S (L), Lobo, M (L), McCoy, S (L), Koziol, N (L), Hsu, L (L), Willett, S (L), Marciniowski, E (L), Babik, I (L), Cunha, A (L), An, M (L), Chang, H (L), Bovaird, J (L), Sheridan, S (L)

L7 Miller, L (L), Nickson, G (L), Imms, C (L), Rosenbaum, P (L), Ziviani, J (L), Martens, R (L), Cavalieros, V (L), Cross, A (L)

L8 Tripathi, T (L), Cabral, T (L), Barbosa, G (L), Harrison, T (L), Simsic, J (L), Heathcock, J (L)

L9 Papadelis, C (L), family, e (L), Parker, M (L), Rocchi, M (L), Taffoni, F (L), Hansen, A (L), Grant, P (L)

A10 Ostendorf, A (L), Morgan, L (L), Fedak Romanowski, E (L), Axeen, E (L), Eschbach, K (L), Goodkin, H (L), Gross, P (L)

B10 Brazevic, S (L), Józwiak, M (L), Krzyżantka, A (L), Kraśny, J (L), Ratajczyk, M (L), Sadecka, A (L)

C10 Smithers-Sheedy, H (L), McIntyre, S (L), Waht, E (L), Watson, L (L), Badawi, N (L), Reid, S (L), Gibson, c (L), Galea, C (L), DeLacy, M (L), Scott, H (L), Bartlett-clark, K (L), Maloney, E (L), Reddish, D (L), Goldsmith, S (L), Blair, E (L)

D10 Eken, M (L), Lamberts, R (L), du Toit, J (L), Langerak, N (L)

E10 Miller, S (L), Lau, J (L), Juricic, M (L), Jivraj, B (L), Steinbok, P (L), Miyanji, F (L), Mulpuri, K (Allergan: C, E, Dupey Synthes (J&J): C, E, IPSEN: A, C, E, Pega Medical: I)


G10 Li, H (L), Xu, Z (L), Wang, B (L), Feng, J (L), Dong, H (L), feiyong, j (L)

H10 Jackman, m (L), Novak, I (L), Galea, C (L), Lannin, N (L), Szakowski, L (L), Miller, L (L)

I10 Hoffman, R (L), Wilson, T (L), Kurz, M (L)

J10 Vogel, L (L), Chlan, K (L), Cwik, J (L), Mukherjee, S (L), Zebracki, K (L)

K10 deRegnier, R (L), Boswell, L (L), Russow, A (L), Santella, M (L), Weissbourd, M (L)

L10 Shrader, W (Orthopediatrics: A), Lennon, N (L), Church, C (L), Wickham, A (L), Niiler, T (L), Miller, F (L)

UltraSound Symposium
Alter E (ASIM, NANA, Johns Hopkins University, OSU/Wexler School of Medicine: F); Kim H (Allergan, Dysport: A) Cancel D

Orthopedic Day
Orthopediatrics: A, Rodby Bousquet E (L) Mulpuri K Davids J Shore B (L)

International Cerebral Palsy Genomics Consortium (ICPGC) Annual Meeting/Neurogenetics Symposium

Lower Extremity Osteotomies in Pediatric Orthopedics

PC1 Bickley C Howard M (L) Barnes D Graham H (NHMRC-CRE in Cerebral Palsy: E)
Orthopediatrics: A, Lux M Thomason P (L)

PC2 Roach H (L) Cihon I Goodwin E Huth K (L) Letkuzs L Plews-Ogan J Srinivasan R

PC3 McIntyre S (L) Himmelman K (L) Oskou M (L) Khandaker G (L)

PC4 Schiariti V (L) Bickenbach J (L) Simeonsson R Lyman J

PC5 Maitre N (L) Byrne R (L) George J (L) Nelini (L) Ayers S
Disclosure Index

General Sessions
Bickenbach J (L) Simeonsson R Gecz J Davids J (Orthopediatrics: A) Thurm A (L) Hsiao A (A) Hochberg L Kraft
D Cramer S (Abbvie, Constant Therapeutics, MicroTransponder, Neurolutions, Regenera, SanBio, Stemedica, TRCare, and Fujifilm Toyoma Chemical Co.: A) Heumann J DiBello T Carter E (L)

Board of Directors
Vargus-Adams J (L) Delgado M Sienko S (L) Ounpuu S (L)
Valencia F (L) Givon U (Ipsen:E) Hyman J Winter S (L) Narayanan U (L) Brandenburg J DeLuca S (L) Glader L Gorter J (L) Lunsford C Milo-Manson G Moulton T Shrader M (Orthopediatrics: A)

Scientific Program Committee
Valencia F (L) Schiariti V (L) Damiano D (L) Thompson R (L)
Tabaie S Beimesch C Tourne M Gillick B (L) Rodby Bousquet E (L) Field D Chiarello L (L) Kramer J
Speaker Index

A
Abousamra, Oussama, ORTHO, LOWER
Achuroa, David A., BRK04
Acad, Gyula, B5
Ada, Louise, J8
Adams, Richard, IC35
Adde, Lars, K1, K7
Agrawal, Sunil K., SYMP11
Ahmadi, Matthew, E7
Aion, Michael, C2
Akhter, Shaheen, SYMP08
Alazem, Hana, CC04
Alaldhando, nanette, F2
Alhammoud, Abduljabber, G9
Allen, John, SYMP32
Alriksson-Schmidt, Ann I., A2, BRK02, G7
Alter, Katharine E., ULTRA
Anaby, Dana, IC09, SYMP10
Andersen, Guro L., A3, C3
Andersen, John, A1
Andersen, John, H5
Andersen, John, H9, I7
An, Mihee, K9, L6
Antolovich, Giuliana C., IC19, SYMP35
Appt, Valerie, IC14
Arai, Hiroshi, A9
Aravamuthan, Bhooma, ICPGC
Armstrong, Ellen L., D8, E7
Armstrong, Robert W., SYMP01
Arnaud, Catherine, C1
Aroojis, Alaric, SYMP06, SYMP27, SYMP38
Ashley-Koch, Allison, A7
Axeen, Erika, A10
Ayers, Sai, PC5

B
Babik, Iryna, K9, L6
Badawi, Nadia, A3, C10, C2, C9
Badkoobehi, Haleh, LOWER
Baker, Sarah E., B9
Bakken, Inger Johanne, C3
Baque, Emmah, E7
Barbosa, Gardenia, L8
Barnes, Douglas A., PC1
Barron, Fabiola, SYMP21
Bartlett-clark, Kirsty, C10, C2, C9
Basu, Anna P., SYMP19
Batterson, Nancy, A8
Bauer, Corinna M., CC02, SYMP41
Bauer, Jeremy, G2
Becher, Jules G., F1, IC27
Behardien, Thulfiq, J7
Belsky, Daniel, A7
Belthur, Mohan, BRK06, IC07
Benfer, Katherine, C5, K3, SYMP14, SYMP20
Benner, Joyce, J4, L3
Benninger, Kristen, A8
Bensemann Gontijo, Ana Paula, H4
Berjemo, Raoul, SYMP09
Berndt, Anne, CC01
Berry, Jay, IC07, SYMP35
Bickenbach, Jerome, Bickley, Christina, PC1
Biddiss, Elaine, CC04
Birch, Patricia, A6
Bjornson, Kristie F., E8
Blair, Eve, A3, C10, C2, C9
Bleyenheuft, Yannick, E1
Blumetti, Francesco, B6
Boludc, Marie-Eve, J1
Bonikowski, Martin, SYMP36
Bonouvié, Laura A., F1, IC27
Bootsma, Jael N., BRK17
Boyd, Roslyn N., A5, C5, D2, D8, I4, I8, I9, K3, L4, SYMP05, SYMP14, SYMP15, SYMP19, SYMP23, SYMP24, SYMP39
Boyer, Elizabeth, IC10
Brandenburg, Joline, IC06
Brazevic, Sabina, B10
Brei, Timothy J., IC38
Brites, Carlos, C8
Brooks, Rob, BRK27
Brossard-Racine, Marie, J1
Brunton, Kelly, H9
Brunton, Laura K., L3
Buizer, Annemieke I., BRK13, F1, F7, IC27, SYMP08
Burgess, Andrea N., L4
Burkhardt, Stephanie, A8, H3
Burrough, Melanie, IC09
Byrne, Rachel, IC02, IC16, PC5
Cabral, Thais, L8
Campos Ferreira, Andressa, H4
Cancel, David, ULTRA
Carlo, Jason, ICPGC
Carollo, James J., IC12
Carranza-del Rio, Jorge, SYMP21, SYMP36
Carroll, Jenny J., SYMP20
Carter, Erik, G5
Carty, Chris, E7
Carty, Christopher, D8
Carvalho, Alessandra L., C8
Cavalieros, Vicki, L7
Chambers, Henry G., F10, IC04
Chang, Hui-Ju, K9, L6
Chattfield, Mark, L4
Chase, Charlotte A., I6
Chen, Brian Po-Jung, F2
Chen, Chia-Hui, D5
Chen, Chia-Ling, D5
Chen, Chieh-Feng, J8
Chen, Hsieh-Ching, D5
Chen, Kayla, F10
Cheong, Jeanie, B4, K2
Chiarello, Lisa A., IC01, IC39
Chin, Eric M., IC05
Chiu, Hsui-Ching, J8
Chlan, Kathleen M., J10
Chowdhury, Sayak, C5
Chung, Chia-ying, D5
Church, Chris, D9, G3, J6, L10
Cieza, Alarcos, SYMP09
Cioni, Giovanni, BRK10, SYMP19, SYMP24
Cohen, Julie S., ICPGC
Coker-Bolt, Patty, SYMP42
Colditz, Paul, A5, I4
Colver, Allan, D4
Conaway, Mark, H8
Condiffe, Elizabeth G., D6
Copeland, Lisa, SYMP03
Corbett, Mark, ICPGC
Costa Ferreira, Lorena, H4
Cotten, Michael, A7
Couse, Madeline, A6
Cramer, Steven, G5
Crenshaw, Jeremy R., I6
Cross, Andrea, BRK19, L7
Cunha, Andrea B., K9, L6
Cwik, Jessica, J10
Czuba, Tomasz, G7

D
Dabney, Kirk, IC14
Dallmeijer, Annet J., BRK13, BRK22, D3, F7, L2
Damiano, Diane, SYMP09, SYMP11
Dan, Bernard, SYMP01, SYMP28
Darragh, Amy, H8
Davids, Jon R., ORTHO, GS, BRK06, BRK14, IC22, SYMP27, SYMP38
Davidson, Loren, BRK06
De Groot, Vincent, L2
de la Cruz, Javier, L5
De Lacy, Michael, C9
de Morais Filho, Mauro C., B6
DeLacy, Michael, C10, C2
Delgado, Mauricio, G5
Delobel, Malika, C1
DeLuca, Stephanie C., H8, IC13, SYMP42
Deramore Denver, Belinda J., CC02, SYMP41
deRegnier, Raye-Ann, K10
Diamant, Carmel, B2
Dias, Luciano, IC15
DiBello, Sally A., IC26
DiBello, Thomas V., BRK28, IC26
Dietz, Irene Cihon., PC2
<table>
<thead>
<tr>
<th>Speaker Name</th>
<th>Affiliation 1</th>
<th>Affiliation 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimitrova, Rozalina</td>
<td>F10</td>
<td></td>
</tr>
<tr>
<td>Dionne, Eliane</td>
<td>J1</td>
<td></td>
</tr>
<tr>
<td>Dodds, Han-Yu</td>
<td>G10</td>
<td></td>
</tr>
<tr>
<td>Do, Patrick</td>
<td>G2</td>
<td></td>
</tr>
<tr>
<td>Doyle, Lex</td>
<td>B4, K2</td>
<td></td>
</tr>
<tr>
<td>Drobyshevsky, Alexander</td>
<td>K7</td>
<td></td>
</tr>
<tr>
<td>du Toit, Jacques</td>
<td>D10, J7</td>
<td></td>
</tr>
<tr>
<td>Duffy, Elizabeth</td>
<td>A, F2</td>
<td></td>
</tr>
<tr>
<td>Duivestein, Janice</td>
<td>IC31</td>
<td></td>
</tr>
<tr>
<td>Duncan, Andrea</td>
<td>IC16</td>
<td></td>
</tr>
<tr>
<td>Durero, Zara</td>
<td>E2</td>
<td></td>
</tr>
<tr>
<td>Dusiing, Stacey</td>
<td>C4, K5, K8, K9, L6, SYMP17, SYMP34</td>
<td></td>
</tr>
<tr>
<td>Duttowsky, Joseph</td>
<td>SYMP11</td>
<td></td>
</tr>
<tr>
<td>Dyck Holzinger, Sasha</td>
<td>I7</td>
<td></td>
</tr>
<tr>
<td>Ebner-Karestinos, Daniela</td>
<td>E1</td>
<td></td>
</tr>
<tr>
<td>Eeles, Abbey</td>
<td>K2</td>
<td></td>
</tr>
<tr>
<td>Egan, Tara</td>
<td>SYMP28</td>
<td></td>
</tr>
<tr>
<td>Egbon, Josephine</td>
<td>C7</td>
<td></td>
</tr>
<tr>
<td>Ehlinger, Virginia</td>
<td>C1</td>
<td></td>
</tr>
<tr>
<td>Einspieler, Christa</td>
<td>K1, K2, K7</td>
<td></td>
</tr>
<tr>
<td>Eken, Maaike</td>
<td>D10, J7</td>
<td></td>
</tr>
<tr>
<td>El-Hawary, Ron</td>
<td>G9</td>
<td></td>
</tr>
<tr>
<td>Eliasson, Ann-Christin</td>
<td>SYMP19</td>
<td></td>
</tr>
<tr>
<td>Elkaer, Sonja</td>
<td>H6</td>
<td></td>
</tr>
<tr>
<td>Elliott, Catherine</td>
<td>SYMP05, SYMP15</td>
<td></td>
</tr>
<tr>
<td>Emery, Carolyn</td>
<td>A, D6</td>
<td></td>
</tr>
<tr>
<td>Emery, Lelia</td>
<td>J3</td>
<td></td>
</tr>
<tr>
<td>Encisa, Clarissa</td>
<td>G4</td>
<td></td>
</tr>
<tr>
<td>Engel, Joyce</td>
<td>L3</td>
<td></td>
</tr>
<tr>
<td>Erickson, Stephen</td>
<td>A7</td>
<td></td>
</tr>
<tr>
<td>Esau, Shane</td>
<td>D6</td>
<td></td>
</tr>
<tr>
<td>Eschbach, Krista</td>
<td>A10</td>
<td></td>
</tr>
<tr>
<td>Egan, Eliane</td>
<td>J1</td>
<td></td>
</tr>
<tr>
<td>Egan, Josephine</td>
<td>C7</td>
<td></td>
</tr>
<tr>
<td>Ehninger, Virginie</td>
<td>C1</td>
<td></td>
</tr>
<tr>
<td>Einspieler, Christa</td>
<td>K1, K2, K7</td>
<td></td>
</tr>
<tr>
<td>Eken, Maaike</td>
<td>D10, J7</td>
<td></td>
</tr>
<tr>
<td>El-Hawary, Ron</td>
<td>G9</td>
<td></td>
</tr>
<tr>
<td>Eliasson, Ann-Christin</td>
<td>SYMP19</td>
<td></td>
</tr>
<tr>
<td>Elkaer, Sonja</td>
<td>H6</td>
<td></td>
</tr>
<tr>
<td>Elliott, Catherine</td>
<td>SYMP05, SYMP15</td>
<td></td>
</tr>
<tr>
<td>Emery, Carolyn</td>
<td>A, D6</td>
<td></td>
</tr>
<tr>
<td>Emery, Lelia</td>
<td>J3</td>
<td></td>
</tr>
<tr>
<td>Encisa, Clarissa</td>
<td>G4</td>
<td></td>
</tr>
<tr>
<td>Engel, Joyce</td>
<td>L3</td>
<td></td>
</tr>
<tr>
<td>Erickson, Stephen</td>
<td>A7</td>
<td></td>
</tr>
<tr>
<td>Esau, Shane</td>
<td>D6</td>
<td></td>
</tr>
<tr>
<td>Eschbach, Krista</td>
<td>A10</td>
<td></td>
</tr>
<tr>
<td>Fahey, Michael</td>
<td>SYMP05, IC11</td>
<td></td>
</tr>
<tr>
<td>Fatemi, S. Ali</td>
<td>ICPGC</td>
<td></td>
</tr>
<tr>
<td>Faults, John</td>
<td>E5</td>
<td></td>
</tr>
<tr>
<td>Fay, Linda</td>
<td>H5</td>
<td></td>
</tr>
<tr>
<td>Fedak Romanowski, Ern</td>
<td>A10</td>
<td></td>
</tr>
<tr>
<td>Fehlings, Darcy</td>
<td>ICPGC, SYMP02, A1, G4, H5, I7</td>
<td></td>
</tr>
<tr>
<td>Feiyong, Jia</td>
<td>G10</td>
<td></td>
</tr>
<tr>
<td>Feldman, Robin</td>
<td>IC06</td>
<td></td>
</tr>
<tr>
<td>Feng, Jing</td>
<td>G2</td>
<td></td>
</tr>
<tr>
<td>Feng, Jun-Yan</td>
<td>G10</td>
<td></td>
</tr>
<tr>
<td>Ferkul, Ashely</td>
<td>G4</td>
<td></td>
</tr>
<tr>
<td>Fernandes, Adriana</td>
<td>C8</td>
<td></td>
</tr>
<tr>
<td>Feyma, Tim</td>
<td>IC20</td>
<td></td>
</tr>
<tr>
<td>Fieggen, Anthony</td>
<td>G, J7</td>
<td></td>
</tr>
<tr>
<td>Finlayson, Francyne</td>
<td>K5</td>
<td></td>
</tr>
<tr>
<td>FitzGerald, Tara</td>
<td>L4, B4</td>
<td></td>
</tr>
<tr>
<td>Fjortoft, Toril</td>
<td>K1, K7</td>
<td></td>
</tr>
<tr>
<td>Flens, Gerard</td>
<td>L2</td>
<td></td>
</tr>
<tr>
<td>Forssberg, Hans</td>
<td>ICPGC, GS, SYMP01, SYMP09</td>
<td></td>
</tr>
<tr>
<td>Fowler, Eileen</td>
<td>G, I2</td>
<td></td>
</tr>
<tr>
<td>Fox, John</td>
<td>BRK11</td>
<td></td>
</tr>
<tr>
<td>Fraga-Pinkham, Maria</td>
<td>E6</td>
<td></td>
</tr>
<tr>
<td>Franki, Inge</td>
<td>L5</td>
<td></td>
</tr>
<tr>
<td>Freburger, Janet</td>
<td>J9</td>
<td></td>
</tr>
<tr>
<td>Freitas, Kamila</td>
<td>B6</td>
<td></td>
</tr>
<tr>
<td>Friedman, Jan</td>
<td>ICPGC, A6</td>
<td></td>
</tr>
<tr>
<td>Frietel, Kathleen</td>
<td>CC06</td>
<td></td>
</tr>
<tr>
<td>Fripp, Jurgen</td>
<td>A5, I4, I8, I9</td>
<td></td>
</tr>
<tr>
<td>Fujino, Marcele</td>
<td>H6</td>
<td></td>
</tr>
<tr>
<td>Gaebler-Spira, Deborah</td>
<td>BRK12, SYMP28</td>
<td></td>
</tr>
<tr>
<td>Galea, Claire</td>
<td>C10, C2, C9, H10</td>
<td></td>
</tr>
<tr>
<td>Gallien, Philippe</td>
<td>L3</td>
<td></td>
</tr>
<tr>
<td>Galvez quiñonez</td>
<td>Hugo, SYMP21</td>
<td></td>
</tr>
<tr>
<td>Gannotti, Mary E.</td>
<td>BRK24, J9</td>
<td></td>
</tr>
<tr>
<td>Garcia Jalou</td>
<td>Guiomar, A3</td>
<td></td>
</tr>
<tr>
<td>Garne, Ester</td>
<td>A3</td>
<td></td>
</tr>
<tr>
<td>Gaut, Liz</td>
<td>IC03</td>
<td></td>
</tr>
<tr>
<td>Gécz, Jozef</td>
<td>GS</td>
<td></td>
</tr>
<tr>
<td>Gehringer, James E.</td>
<td>B9, I1</td>
<td></td>
</tr>
<tr>
<td>Gellert-Jones, Marianne</td>
<td>E1, IC28</td>
<td></td>
</tr>
<tr>
<td>George, Joanne M.</td>
<td>A5, I4, PC5</td>
<td></td>
</tr>
<tr>
<td>Georgiadias, Andrew</td>
<td>BRK15</td>
<td></td>
</tr>
<tr>
<td>Geytenbeek, Johanna J.</td>
<td>BRK17, D3</td>
<td></td>
</tr>
<tr>
<td>Golšn, Asis Kumar</td>
<td>C5, K3, SYMP14</td>
<td></td>
</tr>
<tr>
<td>Gibson, Catherine</td>
<td>A3, C2, C9, C10</td>
<td></td>
</tr>
<tr>
<td>Gillick, Bernadette</td>
<td>CC06, IC11, SYMP20</td>
<td></td>
</tr>
<tr>
<td>Gill, Kalame Klo</td>
<td>J2</td>
<td></td>
</tr>
<tr>
<td>Givon, Uri</td>
<td>ORTHO</td>
<td></td>
</tr>
<tr>
<td>Glader, Laurie</td>
<td>IC02, SYMP02, SYMP35</td>
<td></td>
</tr>
<tr>
<td>Gladstone, Melissa</td>
<td>SYMP29</td>
<td></td>
</tr>
<tr>
<td>Goldowitcz, Dan</td>
<td>J2</td>
<td></td>
</tr>
<tr>
<td>Goldsmith, Shona</td>
<td>A3, C10, C2, C9, SYMP25</td>
<td></td>
</tr>
<tr>
<td>Goldstein, Rachel Y.</td>
<td>ORTHO, LOWER</td>
<td></td>
</tr>
<tr>
<td>Goldstein, Ricki</td>
<td>A7</td>
<td></td>
</tr>
<tr>
<td>Golos, Anat</td>
<td>IC09</td>
<td></td>
</tr>
<tr>
<td>Goodkin, Howard P.</td>
<td>A10</td>
<td></td>
</tr>
<tr>
<td>Gooldich, Benjamin L.</td>
<td>E7</td>
<td></td>
</tr>
<tr>
<td>Goodwin, Emily</td>
<td>PC2</td>
<td></td>
</tr>
<tr>
<td>Gorassini, Monica</td>
<td>H9</td>
<td></td>
</tr>
<tr>
<td>Gordon, Andrew</td>
<td>CC06, SYMP11</td>
<td></td>
</tr>
<tr>
<td>Gormley, Mark</td>
<td>BRK11, IC20</td>
<td></td>
</tr>
<tr>
<td>Gorter, Jan Willem</td>
<td>BRK09, BRK22, J5, SYMP18</td>
<td></td>
</tr>
<tr>
<td>Graham, Kerr H.</td>
<td>ORTHO, PC1, LOWER, SYMP04, SYMP12, CC05, F4, G4, SYMP35, SYMP38, IC19, IC33</td>
<td></td>
</tr>
<tr>
<td>Granlund, Mats</td>
<td>BRK27</td>
<td></td>
</tr>
<tr>
<td>Grant, P. Ellen</td>
<td>L9</td>
<td></td>
</tr>
<tr>
<td>Greaves, Susan</td>
<td>SYMP19</td>
<td></td>
</tr>
<tr>
<td>Greenberg, Marcia</td>
<td>I2, SYMP06, SYMP20</td>
<td></td>
</tr>
<tr>
<td>Green, Dido</td>
<td>SYMP28</td>
<td></td>
</tr>
<tr>
<td>Gross, Paul A.</td>
<td>BRK24, SYMP25</td>
<td></td>
</tr>
<tr>
<td>Guimond, Colleen</td>
<td>A6</td>
<td></td>
</tr>
<tr>
<td>Gut, Fatma</td>
<td>F10</td>
<td></td>
</tr>
<tr>
<td>Guillon, Marit Helene</td>
<td>BRK02</td>
<td></td>
</tr>
<tr>
<td>Gunton, Cassandra</td>
<td>E2</td>
<td></td>
</tr>
<tr>
<td>Gustafson, Kathyrin</td>
<td>A7</td>
<td></td>
</tr>
<tr>
<td>Guzzetta, Andrea</td>
<td>IC11, IC40, K5, SYMP26, SYMP34, SYMP41</td>
<td></td>
</tr>
<tr>
<td>Speaker Name</td>
<td>Affiliation</td>
<td></td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Hyman, Joshua E.</td>
<td>B8, IC04, IC17</td>
<td></td>
</tr>
<tr>
<td>Ibarra, Maria C.</td>
<td>IC36</td>
<td></td>
</tr>
<tr>
<td>Ideishi, Roger</td>
<td>IC01</td>
<td></td>
</tr>
<tr>
<td>Illapani, VenkaSitaPriyanka</td>
<td>I5</td>
<td></td>
</tr>
<tr>
<td>Imms, Christine</td>
<td>BRK27, L7</td>
<td></td>
</tr>
<tr>
<td>Inamdar, Ketaki</td>
<td>K4</td>
<td></td>
</tr>
<tr>
<td>Izadi-Najafabadi, Sara</td>
<td>E2, I3</td>
<td></td>
</tr>
<tr>
<td>Jóźwiak, Marek</td>
<td>B10</td>
<td></td>
</tr>
<tr>
<td>Jackman, Michelle</td>
<td>H10, SYMP23</td>
<td></td>
</tr>
<tr>
<td>Jacobson, Dan N.</td>
<td>F5</td>
<td></td>
</tr>
<tr>
<td>Jahnsen, Reidun B.</td>
<td>H6</td>
<td></td>
</tr>
<tr>
<td>Jantzie, Lauren</td>
<td>IC05</td>
<td></td>
</tr>
<tr>
<td>Janzen, Leticia</td>
<td>D6</td>
<td></td>
</tr>
<tr>
<td>Jeanvoine, Arnaud</td>
<td>G3</td>
<td></td>
</tr>
<tr>
<td>Kecskemethy, Heidi H.</td>
<td>IC28</td>
<td></td>
</tr>
<tr>
<td>Kakooza, Angelina</td>
<td>ICPGC</td>
<td></td>
</tr>
<tr>
<td>Kalandiyak, Oleksandra</td>
<td>SYMP06</td>
<td></td>
</tr>
<tr>
<td>Kalisperis, Faithe R.</td>
<td>D9, IC24</td>
<td></td>
</tr>
<tr>
<td>Kane, Audrey E.</td>
<td>K8</td>
<td></td>
</tr>
<tr>
<td>Karli Oğuz, Hatice Kader</td>
<td>H7</td>
<td></td>
</tr>
<tr>
<td>Kawamura, Cátia</td>
<td>B6</td>
<td></td>
</tr>
<tr>
<td>Kay, Robert M.</td>
<td>ORTHO</td>
<td></td>
</tr>
<tr>
<td>Johnston, Leanne M.</td>
<td>E5, F3</td>
<td></td>
</tr>
<tr>
<td>Joshi, Shantanu</td>
<td>I2</td>
<td></td>
</tr>
<tr>
<td>Julieanne, Sees</td>
<td>G3</td>
<td></td>
</tr>
<tr>
<td>Juricic, Maria</td>
<td>E10</td>
<td></td>
</tr>
<tr>
<td>Kakoza, Angelina</td>
<td>ICPGC</td>
<td></td>
</tr>
<tr>
<td>Kakandiyak, Oleksandra</td>
<td>SYMP06</td>
<td></td>
</tr>
<tr>
<td>Kalisperis, Faithe R.</td>
<td>D9, IC24</td>
<td></td>
</tr>
<tr>
<td>Kane, Audrey E.</td>
<td>K8</td>
<td></td>
</tr>
<tr>
<td>Karli Oğuz, Hatice Kader</td>
<td>H7</td>
<td></td>
</tr>
<tr>
<td>Kawamura, Cátia</td>
<td>B6</td>
<td></td>
</tr>
<tr>
<td>Kay, Robert M.</td>
<td>ORTHO, LOWER</td>
<td></td>
</tr>
<tr>
<td>Kecskemethy, Heidi H.</td>
<td>IC28</td>
<td></td>
</tr>
<tr>
<td>Kentish, Megan J.</td>
<td>D8</td>
<td></td>
</tr>
<tr>
<td>Kerem Gülüen, Mintaze</td>
<td>H7</td>
<td></td>
</tr>
<tr>
<td>Kerr, Claire, C7</td>
<td>G1</td>
<td></td>
</tr>
<tr>
<td>Ketelaar, Marjolijn</td>
<td>D3, J5</td>
<td></td>
</tr>
<tr>
<td>Khandaker, Gulam</td>
<td>BRK01</td>
<td></td>
</tr>
<tr>
<td>Khandaker, Gulam</td>
<td>PC3, SYMP14</td>
<td></td>
</tr>
<tr>
<td>Khetani, Mary A.</td>
<td>K6, SYMP10</td>
<td></td>
</tr>
<tr>
<td>Khot, Abhay</td>
<td>IC19, IC33, SYMP06, SYMP27</td>
<td></td>
</tr>
<tr>
<td>Khurana, Sonia</td>
<td>K8</td>
<td></td>
</tr>
<tr>
<td>Kiebzak, Gary</td>
<td>G5</td>
<td></td>
</tr>
<tr>
<td>Kilbride, Cherry</td>
<td>E9, H1</td>
<td></td>
</tr>
<tr>
<td>Killeen Hughes, Hazel</td>
<td>IC09</td>
<td></td>
</tr>
<tr>
<td>Kim, Heakyoung</td>
<td>ULTRA, SYMP11, B8, IC08, IC17, F10</td>
<td></td>
</tr>
<tr>
<td>Kim, Peter D.</td>
<td>IC20</td>
<td></td>
</tr>
<tr>
<td>Kinsner-Ovaskainen</td>
<td>Agnieszka, C1</td>
<td></td>
</tr>
<tr>
<td>Kirton, Adam</td>
<td>A1, CC06</td>
<td></td>
</tr>
<tr>
<td>Kirton, Adam</td>
<td>H5</td>
<td></td>
</tr>
<tr>
<td>Kirton, Adam</td>
<td>H9, I7</td>
<td></td>
</tr>
<tr>
<td>Kitai, Yuhihiro</td>
<td>A9</td>
<td></td>
</tr>
<tr>
<td>Klevberg, Gunvor L.</td>
<td>H6</td>
<td></td>
</tr>
<tr>
<td>Kline-Fath, Beth</td>
<td>I5</td>
<td></td>
</tr>
<tr>
<td>Kneebone, Miranda</td>
<td>F3</td>
<td></td>
</tr>
<tr>
<td>Koclas, Louise</td>
<td>I7</td>
<td></td>
</tr>
<tr>
<td>Kolehmainen, Nina</td>
<td>D4</td>
<td></td>
</tr>
<tr>
<td>Korff, Tom</td>
<td>E9, H1</td>
<td></td>
</tr>
<tr>
<td>Korkem, Duygu</td>
<td>H7</td>
<td></td>
</tr>
<tr>
<td>Koscielniak, Nikolas J.</td>
<td>IC34</td>
<td></td>
</tr>
<tr>
<td>Kozioł, Natalie A.</td>
<td>K4, K9, L6</td>
<td></td>
</tr>
<tr>
<td>Krašny, Joanna</td>
<td>B10</td>
<td></td>
</tr>
<tr>
<td>Krach, Linda E.</td>
<td>F2</td>
<td></td>
</tr>
<tr>
<td>Kraft, Daniel</td>
<td>GS</td>
<td></td>
</tr>
<tr>
<td>Kratz, Anna</td>
<td>L1</td>
<td></td>
</tr>
<tr>
<td>Kruer, Michael C.</td>
<td>ICPGC</td>
<td></td>
</tr>
<tr>
<td>Krumlinde-Sundholm, Lena K.</td>
<td>F8</td>
<td></td>
</tr>
<tr>
<td>Krzyzańska, Anna</td>
<td>B10</td>
<td></td>
</tr>
<tr>
<td>Kulkarni, Vedant A.</td>
<td>BRK14, SYMP27, SYMP38</td>
<td></td>
</tr>
<tr>
<td>Kullander, Kjell</td>
<td>F5</td>
<td></td>
</tr>
<tr>
<td>Kuntze, Gregor</td>
<td>D6</td>
<td></td>
</tr>
<tr>
<td>Kurz, Max</td>
<td>B9, I1, I10</td>
<td></td>
</tr>
<tr>
<td>Kwong, Amanda K.</td>
<td>K2, K5</td>
<td></td>
</tr>
<tr>
<td>Kyriagis, Maria</td>
<td>C6</td>
<td></td>
</tr>
<tr>
<td>Löwing, Kristina</td>
<td>F5</td>
<td></td>
</tr>
<tr>
<td>López-Ortiz, Cittali</td>
<td>SYMP28</td>
<td></td>
</tr>
<tr>
<td>Labhard, Susan C.</td>
<td>BRK18</td>
<td></td>
</tr>
<tr>
<td>Lambert, Robert</td>
<td>D10</td>
<td></td>
</tr>
<tr>
<td>Lambert, Robert P.</td>
<td>IC25, J7</td>
<td></td>
</tr>
<tr>
<td>Lang, Donna</td>
<td>J2</td>
<td></td>
</tr>
<tr>
<td>Langeraker, Nelleke</td>
<td>D10</td>
<td></td>
</tr>
<tr>
<td>Langeraker, Nelleke G.</td>
<td>IC12, IC25, J7, SYMP08</td>
<td></td>
</tr>
<tr>
<td>Lannin, Natasha A.</td>
<td>H10</td>
<td></td>
</tr>
<tr>
<td>Lanzoni, Monica</td>
<td>C1</td>
<td></td>
</tr>
<tr>
<td>Lau, Elisa</td>
<td>A6</td>
<td></td>
</tr>
<tr>
<td>Lau, Jonathan</td>
<td>E10</td>
<td></td>
</tr>
<tr>
<td>Lavelle, Grace</td>
<td>D1, E9, H1</td>
<td></td>
</tr>
<tr>
<td>Lawrence, Linda</td>
<td>CC02, IC32</td>
<td></td>
</tr>
<tr>
<td>LeComte, Jennifer</td>
<td>IC41</td>
<td></td>
</tr>
<tr>
<td>Lee, Katherine</td>
<td>D7, K2</td>
<td></td>
</tr>
<tr>
<td>Lehman, Anna</td>
<td>A6</td>
<td></td>
</tr>
<tr>
<td>Lehman, Shannon S.</td>
<td>IC32</td>
<td></td>
</tr>
<tr>
<td>Lennon, Nancy</td>
<td>D9, G3, J6, L10, IC24</td>
<td></td>
</tr>
<tr>
<td>Lerner, Zachery</td>
<td>SYMP16</td>
<td></td>
</tr>
<tr>
<td>Less, Julia</td>
<td>A8</td>
<td></td>
</tr>
<tr>
<td>Letzkus, Lisa</td>
<td>PC2</td>
<td></td>
</tr>
<tr>
<td>Levengood, Katelyn D.</td>
<td>A8</td>
<td></td>
</tr>
<tr>
<td>Levin, Wendy</td>
<td>E9, H1</td>
<td></td>
</tr>
<tr>
<td>Levy, Joshua</td>
<td>A7</td>
<td></td>
</tr>
<tr>
<td>Lewandowski, Dennis</td>
<td>A8</td>
<td></td>
</tr>
<tr>
<td>Lewis, Jenny</td>
<td>SYMP03</td>
<td></td>
</tr>
<tr>
<td>Lewis, Sara</td>
<td>ICPGC, SYMP03</td>
<td></td>
</tr>
<tr>
<td>Liang, Bing</td>
<td>SYMP37</td>
<td></td>
</tr>
<tr>
<td>Liang, Nicole S.</td>
<td>A6</td>
<td></td>
</tr>
<tr>
<td>Lichtenthal, Peter</td>
<td>BRK08</td>
<td></td>
</tr>
<tr>
<td>Lieber, Richard L.</td>
<td>IC21</td>
<td></td>
</tr>
<tr>
<td>Lightdale-Miric, Nina</td>
<td>IC23</td>
<td></td>
</tr>
<tr>
<td>Lightfoot, Megan</td>
<td>A8</td>
<td></td>
</tr>
<tr>
<td>Li, Honghua</td>
<td>G10</td>
<td></td>
</tr>
<tr>
<td>Limakul, Chonanid</td>
<td>J4</td>
<td></td>
</tr>
<tr>
<td>Lindoewood, Rachel D.</td>
<td>BRK04</td>
<td></td>
</tr>
<tr>
<td>Lindquist, Barbro</td>
<td>IC38</td>
<td></td>
</tr>
<tr>
<td>Linhares, Daniel F.</td>
<td>IC17, IC30</td>
<td></td>
</tr>
<tr>
<td>Lins, Laura A.</td>
<td>G8</td>
<td></td>
</tr>
<tr>
<td>Linz, McKayla</td>
<td>IC03</td>
<td></td>
</tr>
<tr>
<td>Lipworth, Hayley</td>
<td>CC01</td>
<td></td>
</tr>
<tr>
<td>Littfin, Jodi</td>
<td>K6</td>
<td></td>
</tr>
<tr>
<td>Liu, Yong</td>
<td>SYMP37</td>
<td></td>
</tr>
<tr>
<td>Livingstone, Donna</td>
<td>H9</td>
<td></td>
</tr>
<tr>
<td>Li, Xiaojie</td>
<td>SYMP37</td>
<td></td>
</tr>
<tr>
<td>Ljung, Malin</td>
<td>F5</td>
<td></td>
</tr>
<tr>
<td>Lobo, Michele A.</td>
<td>K4, K9, L6, SYMP34</td>
<td></td>
</tr>
<tr>
<td>Longo, Egmard</td>
<td>SYMP29</td>
<td></td>
</tr>
<tr>
<td>Looper, Julia</td>
<td>E8</td>
<td></td>
</tr>
<tr>
<td>Lopes, José Augusto</td>
<td>B6</td>
<td></td>
</tr>
<tr>
<td>Lo, Warren</td>
<td>H8</td>
<td></td>
</tr>
<tr>
<td>Lucena, Rita</td>
<td>C8</td>
<td></td>
</tr>
<tr>
<td>Lullo, Brett</td>
<td>B2</td>
<td></td>
</tr>
<tr>
<td>Lux, Melanie</td>
<td>PC1</td>
<td></td>
</tr>
<tr>
<td>Lydersen, Stian</td>
<td>C3</td>
<td></td>
</tr>
<tr>
<td>Lyman, Jennifer</td>
<td>PC4</td>
<td></td>
</tr>
<tr>
<td>Månum, Grethe</td>
<td>L3</td>
<td></td>
</tr>
<tr>
<td>Maguire, Kathleen</td>
<td>G3</td>
<td></td>
</tr>
<tr>
<td>Maitre, Nathalie</td>
<td>A8, H3, IC16, J3, PC5</td>
<td></td>
</tr>
<tr>
<td>Majnemer, Annette</td>
<td>A1, J1, SYMP15</td>
<td></td>
</tr>
<tr>
<td>Mak, Catherine K.</td>
<td>SYMP39</td>
<td></td>
</tr>
<tr>
<td>Malhotra, Prashant S.</td>
<td>SYMP40</td>
<td></td>
</tr>
<tr>
<td>Malik, Kristie</td>
<td>BRK25</td>
<td></td>
</tr>
<tr>
<td>Malone, Jason B.</td>
<td>G5</td>
<td></td>
</tr>
<tr>
<td>Maloney, Eliza</td>
<td>C10, C2, C9</td>
<td></td>
</tr>
<tr>
<td>Mann, Jessie E.</td>
<td>IC13</td>
<td></td>
</tr>
<tr>
<td>Marcião, Gerard F.</td>
<td>B8</td>
<td></td>
</tr>
<tr>
<td>Marcinowski, Emily C.</td>
<td>K4, K9, L6</td>
<td></td>
</tr>
<tr>
<td>Marks, Jeremy</td>
<td>K7</td>
<td></td>
</tr>
<tr>
<td>Marshall, Brandon</td>
<td>G5</td>
<td></td>
</tr>
<tr>
<td>Martens, Rachel E.</td>
<td>L7</td>
<td></td>
</tr>
<tr>
<td>Martínez Caceres, Maria Jose</td>
<td>SYMP21</td>
<td></td>
</tr>
<tr>
<td>Matheney, Travis</td>
<td>E6, G8</td>
<td></td>
</tr>
<tr>
<td>Matsumoto, Hiroko</td>
<td>B8, IC17, IC30</td>
<td></td>
</tr>
<tr>
<td>Matsumoto, Joyce H.</td>
<td>I2</td>
<td></td>
</tr>
<tr>
<td>Mattern-Baxter, Katrin</td>
<td>E8</td>
<td></td>
</tr>
<tr>
<td>McNamul, Jennifer</td>
<td>D4</td>
<td></td>
</tr>
<tr>
<td>McConnell, Karen</td>
<td>C7</td>
<td></td>
</tr>
<tr>
<td>McCormick, Anna M.</td>
<td>BRK12, CC04</td>
<td></td>
</tr>
<tr>
<td>McCoy, Sarah W.</td>
<td>K4, K9, L6</td>
<td></td>
</tr>
<tr>
<td>McCusker, Emily</td>
<td>F10</td>
<td></td>
</tr>
<tr>
<td>McDonald, Denise</td>
<td>SYMP32</td>
<td></td>
</tr>
<tr>
<td>McDonald, Scott</td>
<td>A7</td>
<td></td>
</tr>
<tr>
<td>McEwan, Alistair</td>
<td>CC04, SYMP16</td>
<td></td>
</tr>
<tr>
<td>McGinley, Jennifer</td>
<td>B4, D7</td>
<td></td>
</tr>
<tr>
<td>McIlvain, Grace</td>
<td>I6</td>
<td></td>
</tr>
<tr>
<td>McIntyre, Sarah</td>
<td>ICPGC, PC3, A3, C2, C9, C10, IC06</td>
<td></td>
</tr>
<tr>
<td>McKeaveney, Clare</td>
<td>G1</td>
<td></td>
</tr>
<tr>
<td>McManus, Beth M.</td>
<td>K6</td>
<td></td>
</tr>
<tr>
<td>McNamara, Lynda</td>
<td>IC11</td>
<td></td>
</tr>
<tr>
<td>McPhee, Patrick</td>
<td>BRK09, IC12</td>
<td></td>
</tr>
<tr>
<td>Mehrabi, Naser</td>
<td>B7</td>
<td></td>
</tr>
<tr>
<td>Meilahn, Jill</td>
<td>F10</td>
<td></td>
</tr>
<tr>
<td>Men Estate Puccini, Carolina</td>
<td>IC06</td>
<td></td>
</tr>
<tr>
<td>Meneses, Veronica M.</td>
<td>IC18</td>
<td></td>
</tr>
<tr>
<td>Speaker Name</td>
<td>Affiliation(s)</td>
<td></td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------------------------------</td>
<td></td>
</tr>
<tr>
<td>O'Grady, Kathleen</td>
<td>H5</td>
<td></td>
</tr>
<tr>
<td>Oeberg, Gunn Kristin</td>
<td>SYMP17</td>
<td></td>
</tr>
<tr>
<td>O'Donnell, Maureen</td>
<td>SYMP02</td>
<td></td>
</tr>
<tr>
<td>O'Connor, Bridget E.</td>
<td>SYMP30</td>
<td></td>
</tr>
<tr>
<td>O'Malley, Philip</td>
<td>IC04</td>
<td></td>
</tr>
<tr>
<td>Nowicki, Philip</td>
<td>IC24</td>
<td></td>
</tr>
<tr>
<td>Novak, Iona</td>
<td>SYMP02, SYMP17, K3, IC11, K4</td>
<td></td>
</tr>
<tr>
<td>Novacheck, Tom</td>
<td>CC03, F2, IC10, IC25</td>
<td></td>
</tr>
<tr>
<td>Nourie, Cory E.</td>
<td>IC18, IC41</td>
<td></td>
</tr>
<tr>
<td>Noten, Suzie</td>
<td>J4</td>
<td></td>
</tr>
<tr>
<td>Noritz, Garey</td>
<td>GS</td>
<td></td>
</tr>
<tr>
<td>Niiler, Tim</td>
<td>D9, J6, L10</td>
<td></td>
</tr>
<tr>
<td>Nikolova, Yuliya</td>
<td>A7</td>
<td></td>
</tr>
<tr>
<td>Nohezly, Eric</td>
<td>E3</td>
<td></td>
</tr>
<tr>
<td>Nooroozoo, Anni</td>
<td>G4, SYMP18</td>
<td></td>
</tr>
<tr>
<td>Neel, Mary Lauren</td>
<td>A8, J3</td>
<td></td>
</tr>
<tr>
<td>Nelini, Mary Ann</td>
<td>H3, PC5</td>
<td></td>
</tr>
<tr>
<td>Nelson, Virginia S.</td>
<td>IC37, J10</td>
<td></td>
</tr>
<tr>
<td>Neves, Daniella</td>
<td>B6</td>
<td></td>
</tr>
<tr>
<td>Newell, Amber</td>
<td>IC08</td>
<td></td>
</tr>
<tr>
<td>Nichols, Reid</td>
<td>ORTHO</td>
<td></td>
</tr>
<tr>
<td>Nickson, Grace</td>
<td>L7</td>
<td></td>
</tr>
<tr>
<td>Niiler, Tim</td>
<td>D9, J6, L10</td>
<td></td>
</tr>
<tr>
<td>Nikolova, Yuliya</td>
<td>A7</td>
<td></td>
</tr>
<tr>
<td>Nohezly, Eric</td>
<td>E3</td>
<td></td>
</tr>
<tr>
<td>Nooroozoo, Arica</td>
<td>D1</td>
<td></td>
</tr>
<tr>
<td>Noritz, Garey</td>
<td>GS, SYMP40</td>
<td></td>
</tr>
<tr>
<td>Noten, Suzie</td>
<td>J4</td>
<td></td>
</tr>
<tr>
<td>Nourie, Cory E.</td>
<td>IC18, IC41</td>
<td></td>
</tr>
<tr>
<td>Novacheck, Tom</td>
<td>CC03, F2, IC10, IC25</td>
<td></td>
</tr>
<tr>
<td>Novak, Iona, H10</td>
<td>IC11, K3, SYMP02, SYMP05, SYMP23</td>
<td></td>
</tr>
<tr>
<td>Nowicki, Philip</td>
<td>IC04</td>
<td></td>
</tr>
<tr>
<td>O'Connor, Bridget E.</td>
<td>SYMP30</td>
<td></td>
</tr>
<tr>
<td>O'Donnell, Maureen</td>
<td>SYMP02</td>
<td></td>
</tr>
<tr>
<td>Oeberg, Gunn Kristin</td>
<td>SYMP17</td>
<td></td>
</tr>
<tr>
<td>O'Grady, Kathleen</td>
<td>H5</td>
<td></td>
</tr>
<tr>
<td>Oghara, Kaeko</td>
<td>A9</td>
<td></td>
</tr>
<tr>
<td>Okuyama, Naomi</td>
<td>A9</td>
<td></td>
</tr>
<tr>
<td>Oleas-Santillan, Geovanny</td>
<td>G3</td>
<td></td>
</tr>
<tr>
<td>Olsen, Joy</td>
<td>K2, K5</td>
<td></td>
</tr>
<tr>
<td>Oostrom, Kim J.</td>
<td>BRK17</td>
<td></td>
</tr>
<tr>
<td>Opheim, Arve</td>
<td>L3</td>
<td></td>
</tr>
<tr>
<td>Ortibus, Else</td>
<td>SYMP02, L5</td>
<td></td>
</tr>
<tr>
<td>Oskouyi, Maryam</td>
<td>ICPGC, PC3, BRK03, A1, IC17</td>
<td></td>
</tr>
<tr>
<td>Ostendorf, Adam</td>
<td>A10, IC29</td>
<td></td>
</tr>
<tr>
<td>Ostojić, Katarina</td>
<td>C6</td>
<td></td>
</tr>
<tr>
<td>Othman, Yahya</td>
<td>G9</td>
<td></td>
</tr>
<tr>
<td>Ounpuu, Sylvia</td>
<td>B5</td>
<td></td>
</tr>
<tr>
<td>Owens, Laura</td>
<td>BRK07</td>
<td></td>
</tr>
<tr>
<td>Pahlman, Magnus</td>
<td>A4</td>
<td></td>
</tr>
<tr>
<td>Page, Greer</td>
<td>A7</td>
<td></td>
</tr>
<tr>
<td>Paget, Simon P.</td>
<td>C6, SYMP03</td>
<td></td>
</tr>
<tr>
<td>Pagnozzi, Alex M.</td>
<td>I8, I9</td>
<td></td>
</tr>
<tr>
<td>Paisantie Vieira de Barros</td>
<td>Carolina, H4</td>
<td></td>
</tr>
<tr>
<td>Paleg, Ginny</td>
<td>BRK03, SYMP18</td>
<td></td>
</tr>
<tr>
<td>Palisano, Robert J.</td>
<td>IC39, J5</td>
<td></td>
</tr>
<tr>
<td>Pallás, Carmen R.</td>
<td>L5</td>
<td></td>
</tr>
<tr>
<td>Pannek, Kerstin</td>
<td>A5, I4</td>
<td></td>
</tr>
<tr>
<td>Papadeliş, Christos</td>
<td>L9</td>
<td></td>
</tr>
<tr>
<td>Paradis, Julie</td>
<td>E1</td>
<td></td>
</tr>
<tr>
<td>Parikh, Nehal</td>
<td>I5</td>
<td></td>
</tr>
<tr>
<td>Parker, Marianna S.</td>
<td>L9</td>
<td></td>
</tr>
<tr>
<td>Peny-Dahlstrand, Marie</td>
<td>IC38</td>
<td></td>
</tr>
<tr>
<td>Perra, Oliver</td>
<td>C7</td>
<td></td>
</tr>
<tr>
<td>Peterson, Mark</td>
<td>BRK20, IC12, L1</td>
<td></td>
</tr>
<tr>
<td>Peyton, Colleen</td>
<td>K1, K7, SYMP26</td>
<td></td>
</tr>
<tr>
<td>Philström, Nicklas</td>
<td>F8</td>
<td></td>
</tr>
<tr>
<td>Picaut, Philippe</td>
<td>F9</td>
<td></td>
</tr>
<tr>
<td>Pickar, Tracy</td>
<td>IC02</td>
<td></td>
</tr>
<tr>
<td>Pierz, Kristan</td>
<td>ORTHO, B5</td>
<td></td>
</tr>
<tr>
<td>Pietruszewski, Lindsay</td>
<td>H3</td>
<td></td>
</tr>
<tr>
<td>Pigeon, Nicole</td>
<td>I7</td>
<td></td>
</tr>
<tr>
<td>Pindrik, Jonathan</td>
<td>IC29</td>
<td></td>
</tr>
<tr>
<td>Platt, Mary Jane</td>
<td>C1</td>
<td></td>
</tr>
<tr>
<td>Plews-Ogan, James</td>
<td>IC28, PC2</td>
<td></td>
</tr>
<tr>
<td>Poe-Kochert, Connie</td>
<td>G6</td>
<td></td>
</tr>
<tr>
<td>Pons, Laurent</td>
<td>F9</td>
<td></td>
</tr>
<tr>
<td>Pontén, Eva</td>
<td>ORTHO</td>
<td></td>
</tr>
<tr>
<td>Poon, Selina</td>
<td>LOWER</td>
<td></td>
</tr>
<tr>
<td>Prowse, Matthew</td>
<td>SYMP07</td>
<td></td>
</tr>
<tr>
<td>Purnell, Jessica</td>
<td>A8</td>
<td></td>
</tr>
<tr>
<td>Quinn, Ellen</td>
<td>IC08</td>
<td></td>
</tr>
<tr>
<td>Rabatin, Amy</td>
<td>E3</td>
<td></td>
</tr>
<tr>
<td>Racette, Brad</td>
<td>F10</td>
<td></td>
</tr>
<tr>
<td>Rae, Danielle</td>
<td>IC31</td>
<td></td>
</tr>
<tr>
<td>Ramey, Sharon L.</td>
<td>H8, SYMP42</td>
<td></td>
</tr>
<tr>
<td>Ramos-Platt, Leigh</td>
<td>ORTHO</td>
<td></td>
</tr>
<tr>
<td>Rapley, Tim</td>
<td>D4</td>
<td></td>
</tr>
<tr>
<td>Ratajczyk, Magdalena</td>
<td>B10</td>
<td></td>
</tr>
<tr>
<td>Reddihough, Dinah S.</td>
<td>C10, C2, C9</td>
<td></td>
</tr>
<tr>
<td>Reedman, Sarah E.</td>
<td>BRK09, D2, SYMP15</td>
<td></td>
</tr>
<tr>
<td>Reid, Sue</td>
<td>C10, C2, C9, SYMP25</td>
<td></td>
</tr>
<tr>
<td>Reinders-Messelin, Heleen A.</td>
<td>D3</td>
<td></td>
</tr>
<tr>
<td>Rempel, Gina R.</td>
<td>BRK05, IC07, IC28, IC36</td>
<td></td>
</tr>
<tr>
<td>Rethlefsen, Susan</td>
<td>B1</td>
<td></td>
</tr>
<tr>
<td>Ricci, Daniela</td>
<td>IC40</td>
<td></td>
</tr>
<tr>
<td>Rice, James</td>
<td>SYMP22</td>
<td></td>
</tr>
<tr>
<td>Richardson, Zachary</td>
<td>K6</td>
<td></td>
</tr>
<tr>
<td>Richards, William</td>
<td>SYMP16</td>
<td></td>
</tr>
<tr>
<td>Riddell, Corinne</td>
<td>J5</td>
<td></td>
</tr>
<tr>
<td>Rigau, Brianna</td>
<td>K6</td>
<td></td>
</tr>
<tr>
<td>Rinaldi, Robert</td>
<td>IC37</td>
<td></td>
</tr>
<tr>
<td>Riquelme, Inmaculada</td>
<td>L3</td>
<td></td>
</tr>
<tr>
<td>Rivera, Yanin</td>
<td>IC18</td>
<td></td>
</tr>
<tr>
<td>Riveros-Charry, Rocie</td>
<td>BRK15</td>
<td></td>
</tr>
<tr>
<td>Rizzoli Córdoba</td>
<td>Antonio, SYMP29</td>
<td></td>
</tr>
<tr>
<td>Roach, Holly</td>
<td>BRK05, PC2</td>
<td></td>
</tr>
<tr>
<td>Roberts, Heather</td>
<td>SYMP42</td>
<td></td>
</tr>
<tr>
<td>Robinson, Shenandoah</td>
<td>IC05</td>
<td></td>
</tr>
<tr>
<td>Robinson, William</td>
<td>J6</td>
<td></td>
</tr>
<tr>
<td>Rocchi, Maria</td>
<td>L9</td>
<td></td>
</tr>
<tr>
<td>Rocon, Eduardo</td>
<td>CC04</td>
<td></td>
</tr>
<tr>
<td>Rodby-Bousquet, Elisabet</td>
<td>ORTHO, BRK03, SYMP18, L3</td>
<td></td>
</tr>
<tr>
<td>Rodrigues de Sousa, Ricardo</td>
<td>H4</td>
<td></td>
</tr>
<tr>
<td>Roebroeck, Marij E.</td>
<td>BRK22, D3, J4, L2, L3</td>
<td></td>
</tr>
<tr>
<td>Roman, Christine</td>
<td>BRK26</td>
<td></td>
</tr>
<tr>
<td>Rosenbaum, Peter L.</td>
<td>BRK19, IC02, J5, L7, SYMP01, SYMP20</td>
<td></td>
</tr>
<tr>
<td>Rosenberg, Nathan S.</td>
<td>IC29</td>
<td></td>
</tr>
<tr>
<td>Rosen, Perth</td>
<td>SYMP06</td>
<td></td>
</tr>
<tr>
<td>Rose, Stephen</td>
<td>A5, I4, I8, I9</td>
<td></td>
</tr>
<tr>
<td>Roye, David</td>
<td>B8, IC04, IC30</td>
<td></td>
</tr>
<tr>
<td>Roy, Michelle</td>
<td>SYMP07</td>
<td></td>
</tr>
<tr>
<td>Russman, Barry</td>
<td>GS</td>
<td></td>
</tr>
<tr>
<td>Russow, Annamarie</td>
<td>K10</td>
<td></td>
</tr>
<tr>
<td>Rutz, Erich</td>
<td>IC19, IC33</td>
<td></td>
</tr>
<tr>
<td>Ryan, Deirdre</td>
<td>B2</td>
<td></td>
</tr>
<tr>
<td>Ryan, Jennifer M.</td>
<td>BRK16, D1, E9, H1, F5</td>
<td></td>
</tr>
<tr>
<td>Ryder-Berner, Britt-Marie</td>
<td>F5</td>
<td></td>
</tr>
<tr>
<td>Sadecka, Aleksandra</td>
<td>B10</td>
<td></td>
</tr>
<tr>
<td>Saha, Susmita</td>
<td>A5</td>
<td></td>
</tr>
<tr>
<td>Sakzewski, Leanne</td>
<td>D2, H10, L4, SYMP15, SYMP23</td>
<td></td>
</tr>
<tr>
<td>Salazar Torres, Jose J.</td>
<td>G3, J6</td>
<td></td>
</tr>
<tr>
<td>Salzbrunner Hoopes, Margaret</td>
<td>IC14</td>
<td></td>
</tr>
<tr>
<td>Samia, Pauline W.</td>
<td>SYMP01</td>
<td></td>
</tr>
<tr>
<td>Samineni, Anesheh V.</td>
<td>G8</td>
<td></td>
</tr>
<tr>
<td>Samuels, Paul</td>
<td>BRK08</td>
<td></td>
</tr>
<tr>
<td>Sandron, Elsyas F.</td>
<td>D6</td>
<td></td>
</tr>
<tr>
<td>Santella, Mary Kay</td>
<td>K10</td>
<td></td>
</tr>
<tr>
<td>Sato, Tetsuo</td>
<td>BRK21</td>
<td></td>
</tr>
<tr>
<td>Saudais, Geoffroy</td>
<td>E1</td>
<td></td>
</tr>
<tr>
<td>Scaduto, Anthony A.</td>
<td>ORTHO</td>
<td></td>
</tr>
<tr>
<td>Schaber, Carolina</td>
<td>SYMP12</td>
<td></td>
</tr>
<tr>
<td>Scheinberg, Adam</td>
<td>CC04, SYMP03</td>
<td></td>
</tr>
<tr>
<td>Scherzer, Alfred L.</td>
<td>GS</td>
<td></td>
</tr>
<tr>
<td>Schiariti, Verónica</td>
<td>CC01, IC06, PC4</td>
<td></td>
</tr>
</tbody>
</table>
Stout, Jean L., IC10
Stott, N. Susan, IC21
Stewart, Kirsty, F3, SYMP03
Stevens, Phillip M., B3, IC26
Stewart, Kirsty, F3, SYMP03
Stott, N. Susan, IC21
Stout, Jean L., IC10
Stracciolini, Andrea, E3
Sugimoto, Dai, E3
Sumanasena, Samanmali P., SYMP22
Swaroop, Vineeta T., LOWER, IC15, SYMP31
T
Taffoni, Fabrizio, L9
Tamilia, Elenora, L9
Tan, Siok Swan, D3
Tarsuslu Şimşek, Tülay, L3
Tarver, Talicia, K8
Taylor, Daveda, J6
Te Velde, Anna, IC11
Tedorff, Kristina, CC03, F5
Teplicky, Rachel, BRK19, IC09, SYMP10
Terwee, Caroline B., L2
Theis, Nicola, D1, E9, H1
Thomas, Hillary S., BRK26
Thomason, Pam, BRK14, IC19, IC33, PC1, SYMP13, SYMP38
Thompson, Bronwyn, E5
Thompson, George, G6
Thompson, Rachel M., LOWER
Thorpe, Deborah E., IC12, J9, L3
Thurm, Audrey, G5
Tinelli, Francesca, BRK10, IC40
Tombeno, Rachel, E6
Toovey, Rachel A., D7
To, Suvina, A6
Tracy, James B., I6
Triavross, Michael P., I1
Tripathi, Tanya, L8
Trost, Stewart G., E7
Trucks, Mary Rebekah, IC13
Tucker, Carole A., IC34
Turner, Laura, IC09
V
Valencia, Francisco, BRK08
Valentine, Jane, IC21
Valerín, Roselyn, SYMP21
Van Campenhout, Anja, CC05
van de Poel, Laura A., SYMP08
van den Berg-Emmons, Rita, J4, L3
van der Krogt, Marjolein, F7
van der Slot, Wilma M., BRK16, J4, L2, L3
van Eyk, Clare, IC06
van Gorp, Marloes, BRK22, D3, L2
van Hedel, Hubertus J., BRK12
van Hutten, Kim, F7
van Karnebeek, Clara, A6
Van Rensburg, Esias, I7
Van Speybroeck, Alexander, B2
Van Wely, Leontien, J5, L2
Vargus-Adams, Jilda, G5
Veerbeek, Berendina E., J7
Vera, Paloma, C8
Vermeulen, R. Jeroen, F1, IC27, SYMP08
Vik, Torstein, C3
Vilain, Claire, F9
Villermam, Gabrielle M., I6
Vles, Johan S., F1
Vogel, Lawrence C., J10
Vogtle, Laura, L3
Vonderhaar, Kathleen M., BRK11
Voorman, Jeanine M., D3, J5
Vuillermin, Carley, ORTHO
Vuong, Andy, I2
W
Wagner, Philippe, A2
Waigh, Emma, C9, C10, C2
Wallace, Dory, IC13
Walter, Stephen, J5
Walt, Katie, IC10
Wang, Bing, G10
Wang, Chin-Hua, J9
Ward, Marcie, IC25
Ware, Robert, K3, L4
Warschauksy, Seth, L1
Watkins, Colyn, G8
Watson, Linda, C10, C2, C9
Wat, Man-Joe, H9
Weber, Libby, IC10
Weigl, Daniel M., BRK07
Wei, Guorong, SYMP37
Weissbourd, Marie, K10
Westbom, Lena, A2, SYMP25
Whitaker, Amanda T., IC22, SYMP40
Whitney, Daniel G., BRK20, L1
Whittingham, Koa, SYMP39
Wickham, Allison, D9, L10
Wiedeman, Lisa, BRK14
Wiik, Robert, C3
Willett, Sandra, K9, L6
Williams, Sian, IC21
Willoughby, Kate L., IC19, IC33, SYMP13
Wilson, Rujuta B., BRK23
Wilson, Tony, B9, I1, I10
Wilson, Yana, ICPGC
Wintle, Richard F., ICPGC
Wooff, Jodi, IC28
Wood, Ellen, I7
Woolfenden, Sue, BRK01
Worley, Gordon, A7
Wren, Tishya, B1, B2, B5
Wright, Henry G., I6
Wright, Virginia, BRK12, SYMP30
Wu, Katie P., D5
X
Xin, Qinghe
Xiong, Julia (Shi-Peng), BRK09
Xu, Zhi-Da, G10
Xin, Qinghe
Xiong, Julia (Shi-Peng), BRK09
Xu, Zhi-Da, G10
Y
Yager, Jerome, H9
Yang, Jaynie F., H9
Yang, Lynda, IC37
Yeo, Laura, SYMP13
Yerkes, Elizabeth, IC15, SYMP31
Yokota, Hajime, I2
Yoo, Paul Y., E4

Z
Zabel, Andrew, IC38
Zebracki, Kathy, J10
Zewdie, Ephrem, H9
Zhong, Nanbert, ICPGC
Ziviani, Jenny, D2, L4, L7
Zucknick, Manuela, H6
Zwicker, Jill G., E2, I3, J2
Zwicker, Rebecca, E3
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collins, Jessica</td>
<td>F-C-SP03</td>
<td></td>
</tr>
<tr>
<td>Colek, Catherine</td>
<td>F-H-CS05</td>
<td></td>
</tr>
<tr>
<td>Colditz, Paul</td>
<td>F-H-CS07</td>
<td></td>
</tr>
<tr>
<td>Coley, Catherine</td>
<td>F-H-CS06</td>
<td></td>
</tr>
<tr>
<td>Collins, Jessica</td>
<td>F-P-DP40</td>
<td></td>
</tr>
<tr>
<td>Colquitt, Gavin</td>
<td>F-C-SP09</td>
<td></td>
</tr>
<tr>
<td>Colvin, Caroline</td>
<td>F-G-CS16</td>
<td></td>
</tr>
<tr>
<td>Corduffe, Elizabeth</td>
<td>F-E-SP03</td>
<td></td>
</tr>
<tr>
<td>Connah, Elizabeth</td>
<td>F-E-SP11</td>
<td></td>
</tr>
<tr>
<td>Conner, Benjamin</td>
<td>T-P-SP11</td>
<td></td>
</tr>
<tr>
<td>Constantino, Christopher</td>
<td>T-G-SP02</td>
<td></td>
</tr>
<tr>
<td>Cooper, Monica</td>
<td>F-D-SP15</td>
<td></td>
</tr>
<tr>
<td>Copeland, Lisa</td>
<td>F-T-SP15</td>
<td></td>
</tr>
<tr>
<td>Cormier, Isabelle</td>
<td>T-D-SP04</td>
<td></td>
</tr>
<tr>
<td>Corneel, Gwenaël</td>
<td>T-G-SP15</td>
<td></td>
</tr>
<tr>
<td>Corsi, Carolina</td>
<td>F-E-SP15</td>
<td></td>
</tr>
<tr>
<td>Costa, Kamila</td>
<td>F-E-SP06</td>
<td></td>
</tr>
<tr>
<td>Coulter, Janice</td>
<td>T-D-SP04</td>
<td></td>
</tr>
<tr>
<td>Craig, Dawn</td>
<td>T-P-SP31</td>
<td></td>
</tr>
<tr>
<td>Crawford, Haemish</td>
<td>T-I-SP13</td>
<td></td>
</tr>
<tr>
<td>Crenshaw, Jeremy</td>
<td>T-P-SP11</td>
<td></td>
</tr>
<tr>
<td>Crowgey, Erin</td>
<td>T-A-SP04</td>
<td></td>
</tr>
<tr>
<td>Cuffe-Fuller, Beth</td>
<td>F-C-SP11</td>
<td></td>
</tr>
<tr>
<td>Cui, Pengcheng</td>
<td>F-H-CS09</td>
<td></td>
</tr>
<tr>
<td>Cui, Xiaodai</td>
<td>F-G-CS08</td>
<td></td>
</tr>
<tr>
<td>Cui, Zhenzhen</td>
<td>F-H-CS09</td>
<td></td>
</tr>
<tr>
<td>Culsane, Kelly</td>
<td>F-P-SP03</td>
<td></td>
</tr>
<tr>
<td>Cung, Nina</td>
<td>T-C-SP10</td>
<td></td>
</tr>
<tr>
<td>Cunha, Andrea B.</td>
<td>T-H-SP03</td>
<td></td>
</tr>
<tr>
<td>Cunha, Andrea B.</td>
<td>T-P-SP10</td>
<td></td>
</tr>
<tr>
<td>Cunningham, B.J.</td>
<td>F-C-SP14</td>
<td></td>
</tr>
<tr>
<td>Curby, Anna</td>
<td>F-E-SP08</td>
<td></td>
</tr>
<tr>
<td>Curtis, Elissa</td>
<td>F-I-SP09</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Smith, Shelley</td>
<td>T-A-SP03</td>
<td></td>
</tr>
<tr>
<td>d’Entremont, Agnes</td>
<td>F-F-SP04</td>
<td></td>
</tr>
<tr>
<td>Daagan, Maayn</td>
<td>T-P-SP18</td>
<td></td>
</tr>
<tr>
<td>Dabney, Kirk</td>
<td>F-I-SP11</td>
<td></td>
</tr>
<tr>
<td>Dabney, Kirk</td>
<td>T-B-SP12</td>
<td></td>
</tr>
<tr>
<td>Dahan-Olief, noenmi</td>
<td>F-P-SP40</td>
<td></td>
</tr>
<tr>
<td>Dalen, Lars Kristian</td>
<td>F-B-SP07</td>
<td></td>
</tr>
<tr>
<td>Dalen, Lars Kristian</td>
<td>T-D-SP02</td>
<td></td>
</tr>
<tr>
<td>Dallmeijer, Annet J.</td>
<td>F-P-SP30</td>
<td></td>
</tr>
<tr>
<td>D’Amato, Charles</td>
<td>T-P-SP23</td>
<td></td>
</tr>
<tr>
<td>Danielsson, Annika</td>
<td>F-D-SP01</td>
<td></td>
</tr>
<tr>
<td>Darragh, Amy</td>
<td>T-E-SP15</td>
<td></td>
</tr>
<tr>
<td>Das, Manik Chandra</td>
<td>F-A-SP10</td>
<td></td>
</tr>
<tr>
<td>Davenport, Jon R.</td>
<td>T-A-SP08</td>
<td></td>
</tr>
<tr>
<td>Davids, Jon R.</td>
<td>T-A-SP08</td>
<td></td>
</tr>
<tr>
<td>Davids, Loren</td>
<td>F-C-SP16</td>
<td></td>
</tr>
<tr>
<td>Dayanidhi, Sudarshan</td>
<td>T-P-SP39</td>
<td></td>
</tr>
<tr>
<td>de Campos, Ana Carolina</td>
<td>F-B-SP01</td>
<td></td>
</tr>
<tr>
<td>de Groot, Vincent</td>
<td>T-G-SP06</td>
<td></td>
</tr>
<tr>
<td>de la Cruz, Javier</td>
<td>F-F-SP05</td>
<td></td>
</tr>
<tr>
<td>de Mattos, Camila B.</td>
<td>T-P-SP23</td>
<td></td>
</tr>
<tr>
<td>de Morais Filho, Mauro C.</td>
<td>F-D-SP08</td>
<td></td>
</tr>
<tr>
<td>de Sales Regis, Thamyris</td>
<td>F-H-CS15</td>
<td></td>
</tr>
<tr>
<td>de Villiers, Richard</td>
<td>T-G-SP11</td>
<td></td>
</tr>
<tr>
<td>Dean, Ric</td>
<td>T-C-SP11</td>
<td></td>
</tr>
<tr>
<td>Dekker, Annabel</td>
<td>F-D-SP11</td>
<td></td>
</tr>
<tr>
<td>Del Secco, Sabrina</td>
<td>T-E-SP05</td>
<td></td>
</tr>
<tr>
<td>Delgado, Mauricio</td>
<td>F-A-SP01</td>
<td></td>
</tr>
<tr>
<td>Delgado, Mauricio</td>
<td>T-F-SP02</td>
<td></td>
</tr>
<tr>
<td>Delgado, Mauricio</td>
<td>T-P-SP24</td>
<td></td>
</tr>
<tr>
<td>DeLuca, Stephanie C.</td>
<td>F-E-SP04</td>
<td></td>
</tr>
<tr>
<td>Deramore Denver, Belinda J.</td>
<td>T-C-SP03</td>
<td></td>
</tr>
<tr>
<td>Derosier, Raye-Ann</td>
<td>T-A-SP01</td>
<td></td>
</tr>
<tr>
<td>Desaulniers, Nicole</td>
<td>F-D-SP41</td>
<td></td>
</tr>
<tr>
<td>Desguerre, Isabelle</td>
<td>T-G-SP15</td>
<td></td>
</tr>
<tr>
<td>Dewald, Julius</td>
<td>F-P-SP33</td>
<td></td>
</tr>
<tr>
<td>Dewara Handige, Rasanga</td>
<td>T-C-SP05</td>
<td></td>
</tr>
<tr>
<td>Dheeraj, Julluvarapu</td>
<td>T-B-SP11</td>
<td></td>
</tr>
<tr>
<td>Di Alessandro, Keri</td>
<td>F-I-SP19</td>
<td></td>
</tr>
<tr>
<td>Dias, Luciano</td>
<td>T-P-SP14</td>
<td></td>
</tr>
<tr>
<td>DiBello, Sally A.</td>
<td>T-P-SP07</td>
<td></td>
</tr>
<tr>
<td>Diefenbach, Paul</td>
<td>F-B-SP10</td>
<td></td>
</tr>
<tr>
<td>Dimou, Kristen</td>
<td>F-E-SP09</td>
<td></td>
</tr>
<tr>
<td>Ding, Lei</td>
<td>T-P-SP41</td>
<td></td>
</tr>
<tr>
<td>Dixon, Corrie</td>
<td>F-I-SP21</td>
<td></td>
</tr>
<tr>
<td>Dizone, Louis</td>
<td>F-H-CS15</td>
<td></td>
</tr>
<tr>
<td>Dodds, Cindy B.</td>
<td>F-H-CS11</td>
<td></td>
</tr>
<tr>
<td>Donohoe, Maureen</td>
<td>T-I-SP04</td>
<td></td>
</tr>
<tr>
<td>Doo, Jung-Hee</td>
<td>T-H-SP13</td>
<td></td>
</tr>
<tr>
<td>Doo, Sujin</td>
<td>T-H-SP13</td>
<td></td>
</tr>
<tr>
<td>dos Santos, Elida</td>
<td>F-P-SP25</td>
<td></td>
</tr>
<tr>
<td>Dosenbach, Nico U.</td>
<td>F-B-SP13</td>
<td></td>
</tr>
<tr>
<td>Dossetter, Rachael</td>
<td>F-C-SP07</td>
<td></td>
</tr>
<tr>
<td>Dowden, Carl W.</td>
<td>F-P-SP22</td>
<td></td>
</tr>
<tr>
<td>Drake, Gabrielle</td>
<td>F-B-SP09</td>
<td></td>
</tr>
<tr>
<td>Drane, Kristine</td>
<td>F-C-SP10</td>
<td></td>
</tr>
<tr>
<td>Drewnowski, Gaele</td>
<td>T-G-SP15</td>
<td></td>
</tr>
<tr>
<td>Driessen, Danielle M.</td>
<td>F-G-SP06</td>
<td></td>
</tr>
<tr>
<td>Driscoll, Sherilyn</td>
<td>F-H-CS04</td>
<td></td>
</tr>
<tr>
<td>Drumond, Carolyne</td>
<td>F-C-SP03</td>
<td></td>
</tr>
<tr>
<td>D’Entremont, Agnes</td>
<td>F-F-SP04</td>
<td></td>
</tr>
<tr>
<td>Dabney, Kirk</td>
<td>F-I-SP11</td>
<td></td>
</tr>
<tr>
<td>Dabney, Kirk</td>
<td>T-B-SP12</td>
<td></td>
</tr>
<tr>
<td>Dahan-Olief, noenmi</td>
<td>F-P-SP40</td>
<td></td>
</tr>
<tr>
<td>Dalen, Lars Kristian</td>
<td>F-B-SP07</td>
<td></td>
</tr>
<tr>
<td>Dalen, Lars Kristian</td>
<td>T-D-SP02</td>
<td></td>
</tr>
<tr>
<td>Dallmeijer, Annet J.</td>
<td>F-P-SP30</td>
<td></td>
</tr>
<tr>
<td>D’Amato, Charles</td>
<td>T-P-SP23</td>
<td></td>
</tr>
<tr>
<td>Danielsson, Annika</td>
<td>F-D-SP01</td>
<td></td>
</tr>
<tr>
<td>Darragh, Amy</td>
<td>T-E-SP15</td>
<td></td>
</tr>
<tr>
<td>Das, Manik Chandra</td>
<td>F-A-SP10</td>
<td></td>
</tr>
<tr>
<td>Davids, Jon R.</td>
<td>T-A-SP08</td>
<td></td>
</tr>
<tr>
<td>Davids, Loren</td>
<td>F-C-SP16</td>
<td></td>
</tr>
<tr>
<td>Dayanidhi, Sudarshan</td>
<td>T-P-SP39</td>
<td></td>
</tr>
<tr>
<td>de Campos, Ana Carolina</td>
<td>F-B-SP01</td>
<td></td>
</tr>
<tr>
<td>de Groot, Vincent</td>
<td>T-G-SP06</td>
<td></td>
</tr>
<tr>
<td>de la Cruz, Javier</td>
<td>F-F-SP05</td>
<td></td>
</tr>
<tr>
<td>de Mattos, Camila B.</td>
<td>T-P-SP23</td>
<td></td>
</tr>
<tr>
<td>de Morais Filho, Mauro C.</td>
<td>F-D-SP08</td>
<td></td>
</tr>
<tr>
<td>de Sales Regis, Thamyris</td>
<td>F-H-CS15</td>
<td></td>
</tr>
<tr>
<td>de Villiers, Richard</td>
<td>T-G-SP11</td>
<td></td>
</tr>
<tr>
<td>Ebara, Hakuyo</td>
<td>F-P-DP15</td>
<td></td>
</tr>
<tr>
<td>Egoor, Ananth</td>
<td>T-B-SP11</td>
<td></td>
</tr>
<tr>
<td>Ehlenbach, Mary L.</td>
<td>T-C-SP12</td>
<td></td>
</tr>
<tr>
<td>Eken, Maaike M.</td>
<td>T-G-SP03</td>
<td></td>
</tr>
<tr>
<td>Eken, Maaike</td>
<td>T-G-SP11</td>
<td></td>
</tr>
</tbody>
</table>
Poster Speaker Index

Elapatha, Nishamini, T-C-SP05
Elkjaer, Sonja, T-F-SP11
Elliot, Elizabeth, F-C-SP07
Emery, Carolyn A., F-E-SP03, T-D-SP07
Emery, Leia, T-P-SP17
Encisa, Clarissa, F-A-SP09
Engel Hoei-Hansen, Christina, T-P-SP34
Esau, Shane, F-E-SP03
Estenfelder, Julie, T-F-SP03
Esterlitz, Joy, F-I- DP07

F
Fagg, Andrew H., T-P-SP41
Faini, Gerard, F-P- DP36
Fajardo, Richard A., T-G-SP10
Fan, Bensen, B., T-I-SP11
Farias, Pedro, T-D-SP15
Farshad, Mohamad, T-P-SP35
Feder-Bubis, paula, T-H-SP12
Feehan, Katie, T-P-SP18
Fehlings, Darcy L., F-A-SP04, F-C-SP04, F-D-SP02, F-I- DP21, T-C-SP16, T-E-SP02
Feitosin, Aline M., F-E-SP01, T-G-SP05
Feiyouong, Jia, F-H-CS10, F-I- DP22, T-F-SP01
Field, Ashley, T-I- SP12
Feldnak, Marcia, T-B-SP14
Feldman, Robin, F-I- DP07
Feng, Jun-Yan, F-I- DP22
Ferguson, John, T-I-SP13
Ferguson, Tracy, T-D-SP03
Ferkul, Ashley, T-I- SP12
Fernandes, Adriana, F-A-SP16
Ferrari, Adriano, T-H-SP14
Ferrari, Adriano, T-P-SP38
Ferre, Claudia L., T-A-SP10
Fetters, Linda, T-E-SP13
Fiegggen, A, Graham, F-F-SP07
Field, Antony, T-I-SP13
Field, Malgorzata, T-F-SP09
Figueiredo, Priscilla P., T-G-SP05
Finlayson, Craig, T-P-SP39
Finnegan, Andrew, F-B-SP10
Fiori, Simona, T-A-SP09
Fisher, Kristen, T-H-SP16
Fiss, Alyssa, T-D-SP09
Fjortoft, Toril, F-B-SP15, T-A-SP01
Flanagan, Ann, T-G-SP02
Fogarty, Matthew, T-B-SP09
Fogner, Anna, F-H-CS11
Fontaine, Audrey, T-G-SP15
Forbes, Dawn, F-H-CS05
Forman, Christian, T-P-SP34
Forst, Heather, T-F-SP06
Fosado, Juan Carlos J., F-P- DP38
Fosselman, David, T-A-SP14
Foster, Carolyn C., T-D-SP06
Foster, Keith, T-F-SP09
Fowler, Adam, T-F-SP12
Fröniö, Jaqueline S., F-C-SP03, T-H-SP07
Frangal-Pinkham, Maria, F-B-SP10
Frieburger, Janet, T-G-SP08
Fredlund, Mary, F-C-SP11
Frenn, Kristin, T-C-SP14, T-C-SP15, T-F-SP10
Friedman, Jason, F-P- DP36
Friel, Kathleen, F-E-SP10, T-A-SP10
Fripp, Jurgen, F-F-SP01, T-A-SP07, T-A-SP09, T-A-SP12
Fujino, Marcello H., F-D-SP08
Fu, Michael J., F-E-SP08

G
Gambaro Lima, Camila R., T-P-SP30
Gómez-Vela, Maria, F-A-SP13
Gaebler-Spira, Deborah, F-F-SP02, F-P-DP14, T-D-SP06
Gahukamble, Abhay, T-B-SP04
Galiane Sousa, Klayton, T-D-SP15
Galea, Claire, F-A-SP14, T-E-SP05
Galvão, Elida Rayane V., F-B-SP01
Gama, Dayna, T-C-SP06
Gama, Gabriela, F-E-SP06, F-H-CS16, T-G-SP13, T-G-SP14
Gannotti, Mary E., F-I- DP03, T-G-SP08
Gao, Jing, F-P- DP07
Garces, Judith P., F-E-SP09, F-P- DP24
Garcia, Marco, F-P- DP39
Garcia, Micah, T-B-SP07
Gardner, Kim F., T-E-SP04
Garrity, Natasha M., F-B-SP09
Gates, Stephen T., T-F-SP02
Gautheron, Vincent, T-G-SP15
Gehringer, James E., T-H-SP15
Geltius, Cari D., F-G-CS04
George, Joanne M., F-F-SP01, T-A-SP07, T-A-SP09, T-A-SP12
Georgiadis, Andrew, F-D-SP06, F-E-SP02
Georgieff, Michael, T-P-SP32
Geytenbeek, Johanna J., F-C-SP14, T-P-SP22
Ghose, Ratul, F-B-SP02
Giacchetto Larraz, Gustavo, T-E-SP03
Giang, Nguyen, F-C-SP07
Gibbs, Derenda, F-P- DP23
Gibson, Noula, F-D-SP15
Gilbert, Courtney, T-P-SP13
Gillick, Bernadette, T-P-SP32
Gill, Kamaldeep K., T-I-SP01
Girish, Meenakshi, T-C-SP04
Gokbel, Tugba, F-C-SP16, F-D-SP03, T-F-SP07
Golden, Paige, T-P-SP42
Goldstein, Rachel Y., T-I-SP11
Golland, Prue, F-A-SP14, F-P- DP05
Gomersall, Sjana, T-C-SP02
Goodwin, Emily, F-D-SP14
Goo, Miran, F-A-SP07
Gopalswamy, Shashikala, T-C-SP04
Gordon, Andrew, F-E-SP01, F-E-SP10, T-A-SP10, T-B-SP05
Gordon, Mark, F-P- DP31
Gorter, Jan Willem, F-C-SP14, F-I- DP13, F-P- DP32, T-D-SP04
Govaert, Paul, F-B-SP15
Goyal, Neel, F-E-SP09, F-P- DP24
Goyal, Vatsala, F-P- DP33
Graf, Adam, T-G-SP02
Graham, Kerr, T-I-SP03, T-I-SP14
Graham, Maria Celeste, F-E-SP09, F-P- DP24
Grahnovac, Danijela, F-C-SP14
Granlund, Mats, F-D-SP16, F-I- DP15, F-P- DP06
Grayston, Aimee, T-P-SP31
Greaves, Susan, T-D-SP05
Green, Dido, F-D-SP16
Grewe, Kelly R., F-C-SP12, F-G-CS16, F-H-CS01
Gross, Paul, F-C-SP15
Gross, Paul, F-D-SP02
Gross, Paul, F-I- DP03, T-C-SP07, T-I-SP15
Guenier, Anne-Catherine, T-G-SP15
Guerin, Angela, T-P-SP42
Gunathilake, Dinesh, T-C-SP05
Gutiérrez Salazar, Mariana, F-D-SP07
Guys, Angela, F-C-SP08
Guizzetta, Andrea, F-P- DP11
Guizzetta, Andrea, T-E-SP05
Gyllensvård, Mirja, T-B-SP16

H
Høy, Helene, T-G-SP04
Hagingo, Kazuhiro, F-A-SP06, T-P-SP15
Hague, Kaleigh, T-P-SP17
Hanes, Julia E., T-D-SP04
Hanson, Natasha, T-D-SP03
Harbourne, Regina T., F-B-SP16, F-E-SP12, T-P-SP10
Harcze, H. Theodore, T-I-SP16
Hardianto, Denny, T-A-SP16
Harlett, Fernanda, F-B-SP12
Harper, Amy, F-I- DP04
Harris, Gerald, T-G-SP02
Hartling, Christine, T-C-SP11
Hartveit, Jeanette F., T-G-SP04
Harvey, Adrienne, F-P-SP08
Harvey, Adrienne, T-F-SP15
Hazeltine, Janneke, F-P- DP30
Headrick, Katie, T-C-SP03
Heathcock, Jill C., T-E-SP14, T-E-SP15, T-E-SP16, T-H-SP08, T-P-SP08
Hedgecock, James B., T-H-SP02
Hees, Robyn, T-D-SP05
Heilmans, Abigail, F-I- DP19
He, Luna, F-P- DP07
Hemmingsson, Helena, F-I- DP15
Hendricks-Muñoz, Karen D., F-I- DP04
Henley, John, T-I-SP04
Inui, Takehiko, F-A-SP06
Inamdar, Ketaki, F-P-DP01
Imms, Christine, F-B-SP09, F-E-SP10, F-P-DP06, T-D-SP05, T-P-SP21
Inamdar, Ketaki, F-P-DP01
Inui, Takehiko, F-A-SP06
Iyer, Sai, T-D-SP11
J
Jacintha, Antony, T-F-SP16
Jagoda, Jayatri, F-P-DP19
Jahan, Israt, F-B-SP02, F-C-SP07, T-A-SP06, T-A-SP16
Jahnsen, Reuben B., F-P-DP21
Jahnsen, Reuben, T-F-SP11
Jahnsen, Reuben B., T-G-SP04
Jamieson, Kelsey D., T-H-SP05
Jang, Daehyun, F-G-CS06
Jang, Ja Hyun, F-G-CS06
Jang, Joon Young, F-G-CS06, T-I-SP07, T-I-SP08
Jang, Soyeon, F-H-CS12
Jankovic, Joseph, F-P-DP31
Jansma, Elise, T-P-SP22
Jansen, Leticia, F-E-SP03
Jarl, Johan, F-B-SP06
Jarrin, Julia, F-P-DP13
Jarvis, Jessica M., T-H-SP01
Jeglinsky, Ira F., T-F-SP11
Jenkins, Dorothea, T-F-SP16
Jenkins, Gavan, T-D-SP01
Jensen, Elizabeth, T-F-SP10
Jersak, Taylor, T-A-SP14
Jethnani, Anisha, T-I-SP01
Jiang, Zhimei, F-P-DP29
Jimenez, Andres, T-H-SP16
Jin, Lihua, T-H-SP11
Jo, Chan Hee, T-B-SP01
Jo, Chan Hee, T-F-SP02
Johnsen, Siri, F-G-CS09
Johnson, Curtis L., T-P-SP11
Johnson, Emily, T-C-SP02
Johnston, Leanne M., F-A-SP07
Johnston, Leanne, T-D-SP13
Jones, Carly, F-F-SP04
Jones-Stokreek, Nicola J., F-P-DP10
Jonsson, Ulrica, F-P-DP04, T-A-SP02
Joseph, Kristen, F-I-SP07
Juliana da Silva, Patricia, T-G-SP13
Juricic, Maria, F-A-SP02, F-D-SP07
K
Kaelin, Vera C., T-H-SP01
Kahn, Natalie, T-P-SP01
Kaide, Xia, F-H-CS08
Kamath, Asha, T-P-SP06
Kang, Lin Ju, F-I-SP15, F-P-DP06
Karacan, Cagla, F-D-SP03, T-F-SP07
Karakostas, Tasos, T-P-SP14
Karen, Chin, T-A-SP10
Karim, Tasneem, F-A-SP10, F-B-SP02, F-C-SP07, T-A-SP06, T-A-SP16
Karlsson, Petra, F-P-DP39
Kasai, Bahar, F-C-SP02
Kashahya, Thilini, T-P-SP35
Kawamura, Catiya, F-D-SP08
Kawasaki, Yoko, T-P-SP15
Kaye, Amy L., T-F-SP04
Kay, Robert M., T-I-SP05, T-I-SP10, T-I-SP11, T-I-SP17
Kear, Jacob, F-D-SP02, T-C-SP07
Kecskemethy, Heidi H., T-I-SP16
Kee, Joohyun, F-I-CS01
Keller, Caitlin, F-H-CS11
Kelly, Nancy, F-E-SP11, T-E-SP01
Kemmochi, Manabu, T-B-SP02
Kennedy, Michael, F-D-SP14
Kephart, Donald, T-A-SP08, T-A-SP11, T-I-SP09, T-P-SP03
Kerem Günel, Mintaze, T-D-SP08
Kerfeld, Cheryl L., T-D-SP09
Kerr, Claire, T-A-SP05, T-P-SP21
Kertoy, Marilyn K., F-C-SP14
Khandaker, Gulam, F-A-SP10, F-B-SP02, F-C-SP07, T-A-SP06, T-A-SP16
Khan, Nabila, T-B-SP04
Khetani, Mary A., T-H-SP01
Khurana, Sonia, T-P-SP06
Kikuchi, Atsu, F-A-SP06
Kilbride, Cherry, T-P-SP26
Kim, Hana, T-H-SP13
Kim, Heakyung, T-B-SP15, T-F-SP13
Kim, Jeong Ah, T-E-SP13
Kim, Joon Sung, F-A-SP15, T-P-SP19
Kim, Yeaeun, T-H-SP13
Kinnert, Douglas G., T-F-SP03
Kirton, Adam, T-E-SP02, F-A-SP04, F-F-SP03, F-G-CS02
Kitai, Yukihiro, T-P-SP15
Kitnasamy, Gopi, F-P-DP19
Kivlehan, Emily, F-P-DP02, F-P-DP14
Klevberg, Gunvor L., T-F-SP11
Knutson, Jayme, F-E-SP08
Koclas, Louise, F-A-SP04, T-E-SP02
Koldoff, Elizabeth A., T-D-SP10
Kolehmainen, Niina, F-A-SP08, T-P-SP31
Kolobe, Thubi H., T-D-SP10, T-P-SP41
Konijnendijk, Manin, T-G-SP06
Korff, Tom, T-P-SP26
Korkalainen, Johanna, F-A-SP14
Koschnick, Susanne, T-G-SP03
Kovelman, Staci, F-H-CS06
Kowalski, Jesse, T-P-SP32
Koziol, Natalie A., T-P-SP10
Krägeloh-Mann, Ingeborg, F-F-SP05
Krah, Sheila, F-P-DP14
Krais de Camargo, Olaf, F-C-SP14
Kremer, Abigail, F-P-DP03
Krala, Sheeal, T-H-SP08
Krishnamurthy, Vibha, F-B-SP03
Kruger, Karen, T-G-SP02
Krzak, Joseph, T-G-SP02
Kulkarni, Vedant A., F-P-DP13, T-A-SP08, T-A-SP11, T-C-SP10, T-I-SP09, T-I-SP12, T-P-SP03
Kunze, Gregor, F-E-SP03
Kuo, Hsing Ching, F-F-SP03
Poster Speaker Index

Kure, Shigeo, F-A-SP06
Kurt, Irem, T-A-SP13
Kurzawski, Jan, F-F-CS13
Kurz, Max, F-B-SP16, T-A-SP03, T-H-SP15
Kweon, Sehi, T-H-SP11
Kwok, Hsin-Yi, F-I-DP15
Kwon, Jeongyi, T-C-SP12
Kwon, Soon-Sun, F-A-SP09, T-I-SP06
L
Lavstad, Marianne, F-G-CS04
Löwing, Kristina, T-B-SP16
Langan, Niamh C., T-C-SP09
Laing, S. Reed, T-A-SP08, T-A-SP11, T-I-SP12
Lamberts, Robert P., T-G-SP11, F-F-SP07
Lamberts, Robert, T-G-SP03
Landis, Corey, F-B-SP10
Langdon, Katherine M., F-D-SP15
Langenberg, Jan, T-F-SP09
Langerak, Nelleke G., T-G-SP03, T-G-SP14
Larson, Jill, T-P-SP39
Laursen, Bjarne, T-P-SP34
Lauruschuk, Katarina, T-P-SP27, T-P-SP28
Laux, Janice M., F-H-CS02
Lavelle, Grace, T-P-SP26
Lawrence, Linda, F-B-SP11
Lawrence, Luke, T-I-SP16
Le Lay, Yann, T-G-SP15
Lecker, Emily, F-P-SP40
Lee, Fu-Shiuane, F-I-DP15
Lee, Kyoung Min, F-F-SP07
Lee, Olivia, T-F-SP12
Lee, Sanghee, F-H-CS12, T-F-SP13
Lee, Seungeun, T-I-SP07
Lee, Stephanie, T-A-SP04
Lee, Stephanie, T-A-SP04
Lee, Seungeun, T-I-SP07
Lee, John, F-A-SP03, T-I-SP03
Liu, Li, F-H-CS09
Liu, Yichuan, F-B-SP10
Liu, Yong, F-G-CS11
Liu, Zhen huan, F-G-CS05
Lloyd, Jenny, T-F-SP10
Lobin, Stephanie, F-P-SP35, F-P-SP36
Liao, Joel, T-A-SP15
Lichtenthal, Peter, F-D-SP09
Lichtwark, Glenn, T-H-SP10
Lieber, Richard L., T-B-SP08, T-P-SP39
Li, Honghua, F-I-DP22
Li, Xiaojie, F-I-DP06
Lili, Wang, T-F-SP01
Lima, André, F-D-SP08
Lim, Seong hoon, F-A-SP15, T-P-SP19
Lindsay, Keisha T., T-E-SP04
Lindsay, Sally, T-P-SP01
Lin, Du, T-F-SP01
Ling, Shan, F-I-SP12, T-F-SP01
Lin, Pei-Yi, F-P-SP06
Lins, Laura A., F-A-SP03, T-I-SP03
Liu, Le, F-H-CS09
Liu, Yichuan, F-B-SP10
Liu, Yong, F-G-CS11
Liu, Zhen huan, F-G-CS05
Liwei, Liu, F-H-CS08
Lloyd, Jenny, F-C-SP11
Lobo, Michele A., F-E-SP12, T-H-SP03, T-P-SP10
Lohan, Stuart, F-C-SP11
Long, Jason, F-C-SP12, T-B-SP07
Longmuir, Patricia, F-I-SP21
Longo, Egmar, F-B-SP01, T-D-SP15
Lopes, José Augusto, F-D-SP08
Lopes, Priscila B., F-B-SP01
Lopez, Esteban j., F-D-SP09
Lorenzen, Jakob, T-P-SP34
Lucena, Rita, F-A-SP16
Lundkvist Josenby, Annika, T-F-SP08
Luo, Guangjin, F-G-CS03
Lupo, Michaela B., F-F-CS10
Lykken, Lisa, T-C-SP15, T-F-SP10
Lynch, Emma, T-H-SP04
M
Mármore, Claudia C., T-H-SP07
Mânun, Grethe, T-G-SP04
Ma, Bingxiang, F-G-CS05
Ma, Hao, F-G-CS11, F-G-CS12
Ma, Marina, T-F-SP03
MacDonald, Andrina, T-F-SP10
Machado Neto, Lauro, T-D-SP16
Mackey, Anna, F-E-SP13, T-E-SP09
Mack, Nicole, F-I-DP02
Madushika, Thilini, F-P-SP19, T-F-SP16
Maenza, Sebastian, F-A-SP01
Magnus, Kim, F-I-DP05
Magnuson, Sonja, F-D-SP12
Maitre, Nathalie, F-C-SP10, T-D-SP11, T-E-SP08, T-E-SP12, T-P-SP17
Majlem, Annette, F-C-SP02, T-E-SP11
Malatai, Désirée, T-P-SP40
Mancini, Marisa C., F-E-SP01, T-G-SP05, T-P-SP05
Mannari, Irene, T-P-SP38
Manning, Alexandra, T-P-SP42
Mann, Jessie E., F-E-SP05, F-G-CS01
Mann, Klöby, T-C-SP11
Marchetta, Claire, T-P-SP13
Marciniak, Christina, F-F-SP02
Marcin, James, F-F-CS16
Maria Ramos Amorim, Melanía, F-H-CS16, T-G-SP13
Marsh, Adam, T-A-SP04
Martin, Marie Laessøe, F-G-CS09
Maruyama, Koichi, T-P-SP15
Masayoko, Sandra, F-P-SP20
Massa Mandagararan, Franklin Fernando, T-E-SP03
Massetti, Thais, F-B-SP01
Matheney, Travis, T-I-SP03
Matias, Maria Conceição, F-E-SP06, F-H-CS16
Matsumoto, Hiroko, T-B-SP15
Matsumoto, Naomichi, F-A-SP06
Matsumoto, Yoko, T-P-SP15
Mazzarella, Julia, T-E-SP16
McGrane, Fiona, T-C-SP09
McAnuff, Jennifer, F-A-SP08, T-P-SP31
McCarthy, James, T-B-SP07
McCauley, Dayle, F-C-SP14, F-P-SP32
McConnell, Karen, T-A-SP05
McCormick, Anna M., F-I-SP21
McCoy, Sarah W., F-E-SP12, T-P-SP10
McDonald, Annabel, F-C-SP11
McDonald, Denise, F-P-SP17
McDonough, Meghan H., T-D-SP07
McGaugh, Garrett D., F-E-SP09
McGowan, Chris F., F-P-SP37
McGath, Margaret, F-P-SP17
McGrath, Nicole J., F-H-CS05
McKeever, Patricia, T-C-SP16
McKinnon, Clare T., F-F-SP08
McLean, Heather, F-H-CS02
McLennan, Kim, T-F-SP12
McManus, Beth M., T-E-SP06
McMurdo, Robyn, F-A-SP14
McNally, Mike, T-E-SP16
McPhee, Patrick, F-I-SP20
Meilahn, Jill, T-A-SP03
Meisner, Clare T., F-C-SP16
Meisel, Erin, T-I-SP10
Menici, Valentina, T-H-SP14, T-P-SP38
Mensinger, Janel, T-P-SP18
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newell, Amber</td>
<td>T-F-SP13</td>
<td></td>
</tr>
<tr>
<td>Neves, Daniella</td>
<td>F-D-SP08</td>
<td></td>
</tr>
<tr>
<td>Nevis, Mary Ann</td>
<td>C-SP10, T-E-SP12</td>
<td></td>
</tr>
<tr>
<td>Nemanich, Samuel</td>
<td>T-P-SP32</td>
<td></td>
</tr>
<tr>
<td>Neves, Daniella</td>
<td>F-D-SP08</td>
<td></td>
</tr>
<tr>
<td>Newsome, Kimberly</td>
<td>T-B-SP14</td>
<td></td>
</tr>
<tr>
<td>Ng, Pamela</td>
<td>F-A-SP04</td>
<td></td>
</tr>
<tr>
<td>Nguyen, Brandon</td>
<td>T-P-SP20</td>
<td></td>
</tr>
<tr>
<td>Nichols, Louise Reid</td>
<td>T-I-SP04</td>
<td></td>
</tr>
<tr>
<td>Nichols, Stephen</td>
<td>F-B-SP05</td>
<td></td>
</tr>
<tr>
<td>Nishimura, Mio</td>
<td>T-P-SP15</td>
<td></td>
</tr>
<tr>
<td>Nomura, Yuko</td>
<td>T-B-SP02</td>
<td></td>
</tr>
<tr>
<td>Norkoiv, Marika</td>
<td>T-P-SP26</td>
<td></td>
</tr>
<tr>
<td>Noort, Daan</td>
<td>T-F-SP09</td>
<td></td>
</tr>
<tr>
<td>Nord, Jayden</td>
<td>T-P-SP10</td>
<td></td>
</tr>
<tr>
<td>Novitz, Garey</td>
<td>F-I-SP03, T-A-SP14, T-C-SP07, T-I-SP18</td>
<td></td>
</tr>
<tr>
<td>Noten, Suzie</td>
<td>T-G-SP07</td>
<td></td>
</tr>
<tr>
<td>Novacheck, Tom</td>
<td>F-D-SP06, F-E-SP02, T-P-SP40</td>
<td></td>
</tr>
<tr>
<td>Novak, Iona</td>
<td>F-A-SP14, T-E-SP05</td>
<td></td>
</tr>
<tr>
<td>Noyes, Jane</td>
<td>T-P-SP31</td>
<td></td>
</tr>
<tr>
<td>Nudelman, Mikael</td>
<td>F-P-SP35</td>
<td></td>
</tr>
<tr>
<td>Numanoğlu Akbaş</td>
<td>Ayse, T-D-SP08</td>
<td></td>
</tr>
<tr>
<td>NYbbon, Jenny</td>
<td>F-C-SP01</td>
<td></td>
</tr>
<tr>
<td>Nyquist, Astrid</td>
<td>F-B-SP07, T-P-SP07</td>
<td></td>
</tr>
<tr>
<td>Nyquist, Tor Erik H.</td>
<td>F-B-SP07, T-D-SP02</td>
<td></td>
</tr>
<tr>
<td>Nyström-Eek, Meta</td>
<td>T-M-SP02</td>
<td></td>
</tr>
<tr>
<td>Obana, Kyle K.</td>
<td>T-I-SP11</td>
<td></td>
</tr>
<tr>
<td>O’Brien, Shari</td>
<td>T-H-SP10</td>
<td></td>
</tr>
<tr>
<td>O’Connor, Bridget E.</td>
<td>T-P-SP21</td>
<td></td>
</tr>
<tr>
<td>O’Donnell, Maureen</td>
<td>F-C-SP02, T-C-SP01, T-C-SP08</td>
<td></td>
</tr>
<tr>
<td>O’Donnell, Maureen</td>
<td>T-E-SP11</td>
<td></td>
</tr>
<tr>
<td>Ogourtsova, Tatiana</td>
<td>F-C-SP02, T-E-SP11</td>
<td></td>
</tr>
<tr>
<td>Okubo, Yukimune</td>
<td>F-A-SP06</td>
<td></td>
</tr>
<tr>
<td>Oliveira, Alyne</td>
<td>F-B-SP01</td>
<td></td>
</tr>
<tr>
<td>Olszewsky, Lennon</td>
<td>F-I-SP19</td>
<td></td>
</tr>
<tr>
<td>Omar, tarek</td>
<td>F-C-SP13</td>
<td></td>
</tr>
<tr>
<td>O’Neil, Margaret E.</td>
<td>F-B-SP10, T-P-SP18</td>
<td></td>
</tr>
<tr>
<td>Ong, Katherine</td>
<td>T-B-SP14</td>
<td></td>
</tr>
<tr>
<td>Ooka, Mari</td>
<td>T-B-SP02</td>
<td></td>
</tr>
<tr>
<td>Oostrom, Kim J.</td>
<td>F-C-SP14, T-P-SP22</td>
<td></td>
</tr>
<tr>
<td>Oqaz, Begoña</td>
<td>F-A-SP13</td>
<td></td>
</tr>
<tr>
<td>Ortibus, Elvis</td>
<td>F-B-SP15</td>
<td></td>
</tr>
<tr>
<td>Oskoui, Maryam</td>
<td>F-A-SP04, T-E-SP02</td>
<td></td>
</tr>
<tr>
<td>Ostojic, Katarina</td>
<td>T-B-SP13</td>
<td></td>
</tr>
<tr>
<td>Ostrander, Betsy</td>
<td>T-D-SP11</td>
<td></td>
</tr>
<tr>
<td>Ötegen, Ömer</td>
<td>T-A-SP13</td>
<td></td>
</tr>
<tr>
<td>Othieno, Alisha</td>
<td>T-I-SP09</td>
<td></td>
</tr>
<tr>
<td>Ounpu, Sylvia</td>
<td>F-F-CS11, F-F-CS12, T-B-SP3</td>
<td></td>
</tr>
<tr>
<td>O’Young, Daphne</td>
<td>F-D-SP12</td>
<td></td>
</tr>
<tr>
<td>Ozal, Cemil</td>
<td>T-D-SP08</td>
<td></td>
</tr>
<tr>
<td>Özcebe, Hilal</td>
<td>T-D-SP08</td>
<td></td>
</tr>
<tr>
<td>Özkan, Safiye</td>
<td>T-P-SP37</td>
<td></td>
</tr>
<tr>
<td>Paget, Simon P.</td>
<td>T-B-SP13, T-F-SP12</td>
<td></td>
</tr>
<tr>
<td>Paleg, Ginny</td>
<td>F-F-CS09</td>
<td></td>
</tr>
<tr>
<td>Palisano, Robert</td>
<td>F-B-SP08</td>
<td></td>
</tr>
<tr>
<td>Palocaren, Thomas</td>
<td>T-B-SP04</td>
<td></td>
</tr>
<tr>
<td>Panbatla, Siva Teja</td>
<td>F-P-SP01</td>
<td></td>
</tr>
<tr>
<td>Pannek, Kerstin</td>
<td>F-F-SP01, T-A-SP07, T-A-SP09, T-A-SP12</td>
<td></td>
</tr>
<tr>
<td>Panuwannakorn, Montratta</td>
<td>F-D-SP10</td>
<td></td>
</tr>
<tr>
<td>Papadeli, Christos</td>
<td>T-D-SP14</td>
<td></td>
</tr>
<tr>
<td>Park, InKyong</td>
<td>T-G-SP12</td>
<td></td>
</tr>
<tr>
<td>Park, Moon Seok</td>
<td>F-A-SP09, F-F-SP04, F-I-SP11, T-I-SP06</td>
<td></td>
</tr>
<tr>
<td>Park, Yulhyun</td>
<td>F-G-CS06, T-I-SP07, T-I-SP08</td>
<td></td>
</tr>
<tr>
<td>Parnes, Merged</td>
<td>F-P-SP31</td>
<td></td>
</tr>
<tr>
<td>Pasquairello, Rosa</td>
<td>F-F-CS14</td>
<td></td>
</tr>
<tr>
<td>Paula, Amanda</td>
<td>T-H-SP07</td>
<td></td>
</tr>
<tr>
<td>Paulson, Michelle</td>
<td>F-E-SP12</td>
<td></td>
</tr>
<tr>
<td>Payne, Brendan</td>
<td>T-P-SP29</td>
<td></td>
</tr>
<tr>
<td>Peña, Juan C.</td>
<td>T-C-SP06</td>
<td></td>
</tr>
<tr>
<td>Peace, Laura</td>
<td>T-P-SP04</td>
<td></td>
</tr>
<tr>
<td>Peist, Eric</td>
<td>F-H-CS03, T-G-SP09</td>
<td></td>
</tr>
<tr>
<td>Perazza, Silvia</td>
<td>T-H-SP14</td>
<td></td>
</tr>
<tr>
<td>Pereira, Silvana</td>
<td>T-D-SP15</td>
<td></td>
</tr>
<tr>
<td>Perez, Atlihea</td>
<td>T-I-SP18</td>
<td></td>
</tr>
<tr>
<td>Perez, Elsa M.</td>
<td>T-C-SP06</td>
<td></td>
</tr>
<tr>
<td>Perez-Roca, Maria</td>
<td>Mercedes, F-P-SP12, T-E-SP03</td>
<td></td>
</tr>
<tr>
<td>Perfect, Julie H.</td>
<td>F-P-SP28</td>
<td></td>
</tr>
<tr>
<td>Perra, Oliver</td>
<td>T-A-SP05</td>
<td></td>
</tr>
<tr>
<td>Peterson, Mark</td>
<td>T-G-SP01</td>
<td></td>
</tr>
<tr>
<td>Peyton, Colleen</td>
<td>T-P-SP32</td>
<td></td>
</tr>
<tr>
<td>Pflug Comparsi, Eduardo</td>
<td>T-D-SP16</td>
<td></td>
</tr>
<tr>
<td>Phan, Janet</td>
<td>T-A-SP08</td>
<td></td>
</tr>
<tr>
<td>Phillips, John p.</td>
<td>T-P-SP35</td>
<td></td>
</tr>
<tr>
<td>Phoenix, Michelle</td>
<td>F-C-SP14</td>
<td></td>
</tr>
<tr>
<td>Picaut, Philippe</td>
<td>T-F-SP09</td>
<td></td>
</tr>
<tr>
<td>Pichika, Raja</td>
<td>T-B-SP08</td>
<td></td>
</tr>
<tr>
<td>Pickar, Tracy</td>
<td>F-I-SP08, T-E-SP08</td>
<td></td>
</tr>
<tr>
<td>Pickens, Jolynn</td>
<td>F-P-SP23</td>
<td></td>
</tr>
<tr>
<td>Pickering, Dawn M.</td>
<td>T-P-SP02</td>
<td></td>
</tr>
<tr>
<td>Pierz, Kristan</td>
<td>F-F-CS11</td>
<td></td>
</tr>
<tr>
<td>Pierz, Kristan</td>
<td>F-F-CS12</td>
<td></td>
</tr>
<tr>
<td>Pierz, Kristan</td>
<td>T-B-SP03</td>
<td></td>
</tr>
<tr>
<td>Pietruszewski, Lindsay</td>
<td>F-C-SP10, T-E-SP12, T-P-SP17</td>
<td></td>
</tr>
<tr>
<td>Pigeon, Nicole</td>
<td>F-A-SP04, T-E-SP02</td>
<td></td>
</tr>
<tr>
<td>Pigman, Jamie</td>
<td>T-P-SP11</td>
<td></td>
</tr>
<tr>
<td>Prado, Antonio</td>
<td>T-B-SP05</td>
<td></td>
</tr>
<tr>
<td>premathilake, Apsara</td>
<td>T-P-SP35</td>
<td></td>
</tr>
<tr>
<td>Prusmetikul, Suwimol</td>
<td>F-D-SP10</td>
<td></td>
</tr>
<tr>
<td>Purohit, Aniruddh K.</td>
<td>T-B-SP11, T-F-SP14</td>
<td></td>
</tr>
<tr>
<td>Qiaoyn, Liu</td>
<td>T-H-SP09</td>
<td></td>
</tr>
<tr>
<td>Quinn, Michael T.</td>
<td>T-H-SP04</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>Ramakrishnan, Arun, F-B-SP10</td>
<td></td>
</tr>
<tr>
<td>Ramey, Sharon L.</td>
<td>T-E-SP15, F-E-SP04</td>
<td></td>
</tr>
<tr>
<td>Ramstad, Kjersti</td>
<td>F-P-SP21</td>
<td></td>
</tr>
<tr>
<td>Randall, Rachel</td>
<td>F-G-CS04</td>
<td></td>
</tr>
<tr>
<td>Rao, Bhamini K.</td>
<td>T-P-SP06</td>
<td></td>
</tr>
<tr>
<td>Rao, Raghavendra</td>
<td>T-P-SP32</td>
<td></td>
</tr>
<tr>
<td>Rapley, Tim</td>
<td>F-A-SP08</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Affiliation</td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------</td>
<td></td>
</tr>
<tr>
<td>Raskin, Jeffrey S.</td>
<td>F-C-SP15</td>
<td></td>
</tr>
<tr>
<td>Rathna Sri Y, Pavan Kumar</td>
<td>T-F-SP14</td>
<td></td>
</tr>
<tr>
<td>Rathod, Chasanal</td>
<td>T-B-SP06</td>
<td></td>
</tr>
<tr>
<td>Raut, Manasi</td>
<td>T-B-SP06</td>
<td></td>
</tr>
<tr>
<td>Reddihoure, Dinah S.</td>
<td>F-C-SP08</td>
<td></td>
</tr>
<tr>
<td>Reeder, Matthew R.</td>
<td>T-B-SP15</td>
<td></td>
</tr>
<tr>
<td>Reedman, Sarah E.</td>
<td>T-C-SP02</td>
<td></td>
</tr>
<tr>
<td>Regis, Thamynris</td>
<td>F-E-SP06</td>
<td></td>
</tr>
<tr>
<td>Reich, Yoram</td>
<td>F-P-SP36</td>
<td></td>
</tr>
<tr>
<td>Reid, Kara L.</td>
<td>F-H-CS13</td>
<td></td>
</tr>
<tr>
<td>Reid, Sue</td>
<td>F-C-SP08</td>
<td></td>
</tr>
<tr>
<td>Remington, Patrick L.</td>
<td>F-A-SP03</td>
<td></td>
</tr>
<tr>
<td>Rethlefsen, Susan</td>
<td>F-A-SP05, T-I-SP05, T-I-SP17</td>
<td></td>
</tr>
<tr>
<td>Reynberg Langkilde, Annika</td>
<td>T-P-SP34</td>
<td></td>
</tr>
<tr>
<td>Rhodes, Leslie</td>
<td>F-H-CS14</td>
<td></td>
</tr>
<tr>
<td>Riani Martins Silva, Amanda</td>
<td>T-P-SP05</td>
<td></td>
</tr>
<tr>
<td>Ribeiro, Maria Paula S.</td>
<td>T-H-SP07</td>
<td></td>
</tr>
<tr>
<td>Riccio, anthony</td>
<td>F-A-SP01, T-F-SP02</td>
<td></td>
</tr>
<tr>
<td>Rice, James</td>
<td>T-F-SP15</td>
<td></td>
</tr>
<tr>
<td>Richardson, Emma</td>
<td>T-F-SP12</td>
<td></td>
</tr>
<tr>
<td>Richardson, Zachary</td>
<td>T-E-SP06</td>
<td></td>
</tr>
<tr>
<td>Riggin Springstead, Mary</td>
<td>F-I-SP12</td>
<td></td>
</tr>
<tr>
<td>Rinat, Shie</td>
<td>F-B-SP14</td>
<td></td>
</tr>
<tr>
<td>Riordan, Heather</td>
<td>F-P-SP31</td>
<td></td>
</tr>
<tr>
<td>Riquelme, Elisa</td>
<td>T-H-SP14</td>
<td></td>
</tr>
<tr>
<td>Shuqing, Lu</td>
<td>F-D-SP05</td>
<td></td>
</tr>
<tr>
<td>Shrader, Wade</td>
<td>F-I-SP12</td>
<td></td>
</tr>
<tr>
<td>Shiner, Angela</td>
<td>F-P-SP32</td>
<td></td>
</tr>
<tr>
<td>Shewokis, Patricia</td>
<td>F-B-SP10</td>
<td></td>
</tr>
<tr>
<td>Shibuya, Moriee</td>
<td>F-A-SP06</td>
<td></td>
</tr>
<tr>
<td>Shehton, Dora</td>
<td>F-A-SP14</td>
<td></td>
</tr>
<tr>
<td>Shen, Eunice Y.</td>
<td>F-P-SP34</td>
<td></td>
</tr>
<tr>
<td>Sheppard, Loretta</td>
<td>T-D-SP05</td>
<td></td>
</tr>
<tr>
<td>Sherioko, Jordan</td>
<td>F-P-SP21</td>
<td></td>
</tr>
<tr>
<td>Sherman, Barbara</td>
<td>F-B-SP13</td>
<td></td>
</tr>
<tr>
<td>Shewell, Michael</td>
<td>F-A-SP04</td>
<td></td>
</tr>
<tr>
<td>Shewell, Michael</td>
<td>T-E-SP02</td>
<td></td>
</tr>
<tr>
<td>Shewokis, Patricia</td>
<td>F-B-SP10</td>
<td></td>
</tr>
<tr>
<td>Shiroma, Mikiko</td>
<td>F-A-SP06</td>
<td></td>
</tr>
<tr>
<td>Shiri, Angela</td>
<td>T-P-SP24</td>
<td></td>
</tr>
<tr>
<td>Shin, Areum</td>
<td>T-I-SP08</td>
<td></td>
</tr>
<tr>
<td>Shivers, Claire</td>
<td>F-D-SP09</td>
<td></td>
</tr>
<tr>
<td>Shore, Benjamin</td>
<td>F-A-SP02, T-I-SP03</td>
<td></td>
</tr>
<tr>
<td>Shortland, Adam</td>
<td>T-P-SP26</td>
<td></td>
</tr>
<tr>
<td>Shrader, Mason</td>
<td>F-I-SP12</td>
<td></td>
</tr>
<tr>
<td>Shriver, Wade</td>
<td>F-I-SP14, T-B-SP12</td>
<td></td>
</tr>
<tr>
<td>Shuang, Lu</td>
<td>F-D-SP05</td>
<td></td>
</tr>
<tr>
<td>Scola, Elisa</td>
<td>T-H-SP14</td>
<td></td>
</tr>
<tr>
<td>Sanches, Leanne</td>
<td>T-C-SP02, T-P-SP09</td>
<td></td>
</tr>
<tr>
<td>Salazar Torres, Jose J.</td>
<td>T-I-SP04</td>
<td></td>
</tr>
<tr>
<td>Salzbrunner Hoopes, Margaret</td>
<td>F-I-DP19, F-I-SP20</td>
<td></td>
</tr>
<tr>
<td>Sandron, Elysa F.</td>
<td>T-D-SP07</td>
<td></td>
</tr>
<tr>
<td>Sanger, Terence D.</td>
<td>T-P-SP25</td>
<td></td>
</tr>
<tr>
<td>Sangeux, Morgan</td>
<td>T-I-SP14</td>
<td></td>
</tr>
<tr>
<td>Santoro Ferrero, Anabella</td>
<td>T-E-SP03</td>
<td></td>
</tr>
<tr>
<td>Santos, Agda</td>
<td>T-G-SP13, T-G-SP14</td>
<td></td>
</tr>
<tr>
<td>Santos, Mariana</td>
<td>T-G-SP15, T-G-SP16</td>
<td></td>
</tr>
<tr>
<td>Sarment, Barbara</td>
<td>T-E-SP13</td>
<td></td>
</tr>
<tr>
<td>Sato, Haruhiko</td>
<td>T-B-SP02</td>
<td></td>
</tr>
<tr>
<td>Sato, Ryo</td>
<td>F-A-SP06</td>
<td></td>
</tr>
<tr>
<td>Savage, Helen</td>
<td>T-A-SP05</td>
<td></td>
</tr>
<tr>
<td>Savola, Juha</td>
<td>F-P-SP31</td>
<td></td>
</tr>
<tr>
<td>Savolt, Todd</td>
<td>F-D-SP14</td>
<td></td>
</tr>
<tr>
<td>Scheaffer, Emily</td>
<td>F-A-SP02</td>
<td></td>
</tr>
<tr>
<td>Scheinberg, Adam</td>
<td>T-F-SP12</td>
<td></td>
</tr>
<tr>
<td>Schenkmann, Margaret</td>
<td>T-E-SP06</td>
<td></td>
</tr>
<tr>
<td>Schiarriti, Verónica F-I-SP07, F-I-SP16, F-I-SP17, F-P-SP12, F-P-SP38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schram, Meredith</td>
<td>T-E-SP15</td>
<td></td>
</tr>
<tr>
<td>Schwartz, Michael H.</td>
<td>F-D-SP06</td>
<td></td>
</tr>
<tr>
<td>Scott, Kimberley S.</td>
<td>T-P-SP08</td>
<td></td>
</tr>
<tr>
<td>Sees, Julie</td>
<td>T-B-SP12</td>
<td></td>
</tr>
<tr>
<td>Segovia, Abi Natzelli R.</td>
<td>F-P-SP38</td>
<td></td>
</tr>
<tr>
<td>Seidel, Miles L.</td>
<td>T-A-SP07, T-A-SP12</td>
<td></td>
</tr>
<tr>
<td>Selb, Melissa</td>
<td>T-G-SP06, T-G-SP07</td>
<td></td>
</tr>
<tr>
<td>Sellier, Elodie</td>
<td>F-F-SP05</td>
<td></td>
</tr>
<tr>
<td>Senevirathne, Buddhika</td>
<td>T-P-SP35</td>
<td></td>
</tr>
<tr>
<td>Sea, Yujin</td>
<td>F-I-SP11</td>
<td></td>
</tr>
<tr>
<td>Severo, Ana</td>
<td>T-D-SP15</td>
<td></td>
</tr>
<tr>
<td>Severson, Matthew</td>
<td>F-H-CS04</td>
<td></td>
</tr>
<tr>
<td>Seyhan, Kürba</td>
<td>T-D-SP08</td>
<td></td>
</tr>
<tr>
<td>Sgandurra, Giuseppina</td>
<td>T-H-SP14, T-P-SP38</td>
<td></td>
</tr>
<tr>
<td>Shah, Veeral</td>
<td>T-H-SP16</td>
<td></td>
</tr>
<tr>
<td>Shaunfield, Sara</td>
<td>T-D-SP06</td>
<td></td>
</tr>
<tr>
<td>Shaw Bonilha, Heather</td>
<td>F-E-SP16</td>
<td></td>
</tr>
<tr>
<td>Shaw, Rachel A.</td>
<td>F-E-SP09</td>
<td></td>
</tr>
<tr>
<td>Shearer, Heather M.</td>
<td>T-C-SP16</td>
<td></td>
</tr>
<tr>
<td>Shehata, Ronda</td>
<td>F-A-SP14</td>
<td></td>
</tr>
<tr>
<td>Shen, Eunice Y.</td>
<td>F-P-SP34</td>
<td></td>
</tr>
<tr>
<td>Sheppard, Loretta</td>
<td>T-D-SP05</td>
<td></td>
</tr>
<tr>
<td>Sherioko, Jordan</td>
<td>F-P-SP21</td>
<td></td>
</tr>
<tr>
<td>Sherman, Barbara</td>
<td>F-B-SP13</td>
<td></td>
</tr>
<tr>
<td>Shewell, Michael</td>
<td>F-A-SP04</td>
<td></td>
</tr>
<tr>
<td>Shewell, Michael</td>
<td>T-E-SP02</td>
<td></td>
</tr>
<tr>
<td>Shibuya, Moriee</td>
<td>F-A-SP06</td>
<td></td>
</tr>
<tr>
<td>Shields, Nora</td>
<td>T-P-SP21</td>
<td></td>
</tr>
<tr>
<td>Shierk, Angela</td>
<td>T-P-SP24</td>
<td></td>
</tr>
<tr>
<td>Shin, Areum</td>
<td>T-I-SP08</td>
<td></td>
</tr>
<tr>
<td>Shivers, Claire</td>
<td>F-P-SP09</td>
<td></td>
</tr>
<tr>
<td>Shire, Benjamin</td>
<td>F-A-SP02, T-I-SP03</td>
<td></td>
</tr>
<tr>
<td>Shortland, Adam</td>
<td>T-P-SP26</td>
<td></td>
</tr>
<tr>
<td>Shreader, Mason</td>
<td>F-I-SP12</td>
<td></td>
</tr>
<tr>
<td>Shriver, Wade</td>
<td>F-I-SP14, T-B-SP12</td>
<td></td>
</tr>
<tr>
<td>Shuqing, Lu</td>
<td>F-D-SP05</td>
<td></td>
</tr>
<tr>
<td>Scola, Elisa</td>
<td>T-H-SP14</td>
<td></td>
</tr>
<tr>
<td>Siddiqui, Ali</td>
<td>T-I-SP10</td>
<td></td>
</tr>
<tr>
<td>Sieck, Gary C.</td>
<td>T-B-SP09</td>
<td></td>
</tr>
<tr>
<td>Sienko, Susan</td>
<td>T-P-SP23</td>
<td></td>
</tr>
<tr>
<td>Silva, Mercês</td>
<td>T-D-SP15</td>
<td></td>
</tr>
<tr>
<td>Silva, Renan A.</td>
<td>F-E-SP06, F-H-CS16, T-G-SP13</td>
<td></td>
</tr>
<tr>
<td>Silva, Samara</td>
<td>F-C-SP03</td>
<td></td>
</tr>
<tr>
<td>Sing, Yannca F.</td>
<td>F-C-SP03</td>
<td></td>
</tr>
<tr>
<td>Silverio, Ana Paula M.</td>
<td>T-G-SP05, F-E-SP01</td>
<td></td>
</tr>
<tr>
<td>Simhon, Matthew</td>
<td>T-B-SP15</td>
<td></td>
</tr>
<tr>
<td>Simone, Donald</td>
<td>T-C-SP13</td>
<td></td>
</tr>
<tr>
<td>Simon, Heidi</td>
<td>T-P-SP04</td>
<td></td>
</tr>
<tr>
<td>Singh, Satbir</td>
<td>T-P-SP17</td>
<td></td>
</tr>
<tr>
<td>Sinner, Angela</td>
<td>T-F-SP06</td>
<td></td>
</tr>
<tr>
<td>Sipari, Salla</td>
<td>F-B-SP08</td>
<td></td>
</tr>
<tr>
<td>Sitzman, Thomas</td>
<td>F-D-SP04</td>
<td></td>
</tr>
<tr>
<td>Slotkoff, Laura</td>
<td>F-P-SP20</td>
<td></td>
</tr>
<tr>
<td>Smithers-Sheedy, Hayley J.</td>
<td>F-P-SP19, T-A-SP16</td>
<td></td>
</tr>
<tr>
<td>Smith, Linsley</td>
<td>F-A-SP01, T-P-SP24</td>
<td></td>
</tr>
<tr>
<td>Smith, Lucas</td>
<td>T-B-SP08</td>
<td></td>
</tr>
<tr>
<td>Smith, Nadine</td>
<td>T-F-SP12</td>
<td></td>
</tr>
<tr>
<td>Smith, Peter</td>
<td>T-G-SP02</td>
<td></td>
</tr>
<tr>
<td>Smith, Timothy R.</td>
<td>F-D-SP14</td>
<td></td>
</tr>
<tr>
<td>Snyder, Brian</td>
<td>T-I-SP03</td>
<td></td>
</tr>
<tr>
<td>Sobotka, Sarah A.</td>
<td>T-H-SP04</td>
<td></td>
</tr>
<tr>
<td>Sohn, Min Kyun</td>
<td>T-H-SP11</td>
<td></td>
</tr>
<tr>
<td>Song, Hujeie</td>
<td>F-P-SP02</td>
<td></td>
</tr>
<tr>
<td>Song, Jing</td>
<td>T-H-SP06, T-H-SP09</td>
<td></td>
</tr>
<tr>
<td>Sorhage, Alexandra</td>
<td>F-E-SP13, T-E-SP09</td>
<td></td>
</tr>
<tr>
<td>Sowers, Brianna</td>
<td>T-E-SP12</td>
<td></td>
</tr>
<tr>
<td>Spence, David</td>
<td>F-H-CS14</td>
<td></td>
</tr>
<tr>
<td>Spencer, Tirzaah</td>
<td>F-I-SP20</td>
<td></td>
</tr>
<tr>
<td>Spittle, Alicia</td>
<td>F-E-SP13</td>
<td></td>
</tr>
<tr>
<td>Splevins, Andrew</td>
<td>T-F-SP09</td>
<td></td>
</tr>
<tr>
<td>Srinivasan, Roopa</td>
<td>F-B-SP03</td>
<td></td>
</tr>
<tr>
<td>Stam, Henk J.</td>
<td>T-G-SP04, T-G-SP07</td>
<td></td>
</tr>
<tr>
<td>Steele, Katherine M.</td>
<td>T-P-SP20</td>
<td></td>
</tr>
<tr>
<td>Stevens, Jr, Wilshaw</td>
<td>F-B-SP12</td>
<td></td>
</tr>
<tr>
<td>Stevenson, Richard D.</td>
<td>F-I-SP04</td>
<td></td>
</tr>
<tr>
<td>Stevens, Phillip M.</td>
<td>T-P-SP07</td>
<td></td>
</tr>
<tr>
<td>Stewart, Kirsty</td>
<td>T-F-SP05, T-F-SP15</td>
<td></td>
</tr>
<tr>
<td>Stoen, Ragnhild F-B-SP15, T-A-SP01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stott, N. Susan</td>
<td>T-D-SP12, T-D-SP09, T-I-SP13, F-E-SP13, F-D-SP11</td>
<td></td>
</tr>
<tr>
<td>Stou, Jean L.</td>
<td>F-E-SP02, T-P-SP40</td>
<td></td>
</tr>
<tr>
<td>Street, Canleigh</td>
<td>F-B-SP09</td>
<td></td>
</tr>
<tr>
<td>Strohm, Sonya</td>
<td>F-P-SP32</td>
<td></td>
</tr>
<tr>
<td>Suder, Ryan</td>
<td>F-E-SP08</td>
<td></td>
</tr>
<tr>
<td>Sukal-Moulton, Thresa</td>
<td>F-P-SP33, T-P-SP42</td>
<td></td>
</tr>
<tr>
<td>Sukhov, Renat</td>
<td>F-H-CS15</td>
<td></td>
</tr>
<tr>
<td>Suk, MinHwa</td>
<td>T-G-SP12</td>
<td></td>
</tr>
<tr>
<td>Sullivan, Emily</td>
<td>F-F-SP04</td>
<td></td>
</tr>
<tr>
<td>Sunandasena, Samanmalii P.</td>
<td>F-P-SP19, T-E-SP10, T-F-SP16</td>
<td></td>
</tr>
<tr>
<td>Sun, Dianrong</td>
<td>F-G-CS03</td>
<td></td>
</tr>
<tr>
<td>Sung, Ki Hyuk</td>
<td>F-A-SP09, T-I-SP06</td>
<td></td>
</tr>
<tr>
<td>Sung, Wen-Hsu</td>
<td>F-P-SP06</td>
<td></td>
</tr>
</tbody>
</table>
### Poster Speaker Index

| T | Trevarrow, Michael P., T-A-SP03, T-H-SP15 |
|   | Trenkle, Jessica M., F-G-CS15 |
|   | Trejo, Karina, T-C-SP13, T-C-SP14, T-C-SP15, T-F-SP10 |
|   | Tovar, John, F-I-DP04 |
|   | Tripathi, Tanya, T-E-SP14, T-E-SP15 |
|   | Trivedi, Hemang, F-G-CS04 |
|   | Troenosemito, Lorenzo, T-G-SP06 |
|   | Trosk, Stewart G., T-C-SP02, T-G-SP10 |
|   | Trucks, Mary Rebekah, F-E-SP04 |
|   | Tucker, Kylie, F-A-SP07 |
|   | Tudor Edwards, Rhiannon, T-P-SP31 |
|   | Tuersley, Lorna, T-P-SP31 |
|   | Tulchin-Francis, Kirsten, F-A-SP01, F-B-SP12 |
|   | Tumber, Sundeep, T-I-SP09 |
|   | Tumin, Dmitry, T-A-SP14 |
|   | Tuncdemir, Merve, T-D-SP08 |
|   | Turnchi, Renee, T-P-SP18 |
|   | Turner, Laura, T-D-SP04 |
|   | Twose, Donna, F-I-SP10 |
|   | U | Ukourunne, Obioha, F-C-SP11 |
|   | Uldall, Peter, T-P-SP34 |
|   | Unes, Sofia, T-D-SP08 |
| V | Vänkäa, Nea, F-B-SP08 |
|   | Vaillant, Emma, T-P-SP22 |
|   | Valencia, Francisco, F-D-SP09, F-F-CS15 |
|   | Valenzuela, Elisa J., F-C-SP03, T-H-SP07 |
|   | Valerio, Armando, F-F-CS16 |
|   | van den Berg-Emons, Rita, T-G-SP06 |
|   | Van den Broeck, Christine, F-B-SP15, T-A-SP01 |
|   | van der Schans, Marcel, T-F-SP09 |
|   | van der Slot, Wilma M., T-G-SP07 |
|   | van Eeghen, Agnies M., T-G-SP06 |
|   | van der Slot, Wilma, T-G-SP07 |
|   | van der Sloot, Wilma, T-G-SP07 |
|   | van der Vlist, Wilma, T-G-SP06 |
|   | van der Zanden, Diederik, T-H-SP04 |
|   | van Eersel, Boudewijn, T-G-SP06 |
|   | van Rensburg, Esias, F-A-SP04, T-E-SP02 |
|   | Van, Andrew N., F-B-SP13 |
|   | VanPelt, Jonathan, F-P-SP09 |
|   | Vargus-Adams, Jilda, F-C-SP12 |
|   | Veerbeek, Berendina E., F-F-SP07 |
|   | Ventura, Paloma, F-A-SP16 |
|   | Vermaas, Jacy R., T-H-SP15 |
|   | Vermeulen, R. Jeroen, T-P-SP22 |
|   | Vestreheim, Ida E., F-G-CS09 |
|   | Vieira, Beatriz, F-C-SP06 |
|   | Vipulagina, Dilini V., F-T-SP16 |
|   | Vogler, Suzanne, F-F-SP06 |
|   | Vonderhaar, Kathleen M., T-F-SP06 |
|   | Vonpipatana, Sivaporn, F-D-SP10 |
| W | W | Wang, Kemble, T-I-SP03 |
|   | Wang, Yangyang, F-G-CS13 |
|   | Wang, Yiwen, F-A-SP12 |
|   | Wang, Yongli, T-H-SP06, T-H-SP09 |
|   | Wang, Ting, T-H-SP06 |
|   | Wani, Leanne, F-I-SP21 |
|   | Ward, Nathaniel, T-P-SP29 |
|   | Ware, Robert, F-F-SP01, T-A-SP09, T-D-SP13, T-P-SP09 |
|   | Warner, William, F-H-CS14 |
|   | Warschauksy, Seth, F-P-SP39 |
|   | Watkins, Colyn, T-I-SP03 |
|   | Waugh, Mary-Clare, T-F-SP15 |
|   | Weck, Mary, T-A-SP01, F-P-SP28 |
|   | Weerasinghe, Yvonne, T-E-SP10 |
|   | Wei, Pang, F-D-SP05 |
|   | Weiyan, Zhao, F-H-CS10 |
|   | Wentz, Erin, T-D-SP09 |
|   | Wen, Xiangshu, F-G-CS14 |
|   | Westberry, David E., T-P-SP04 |
|   | Westbom, Lena, F-P-SP04, T-F-SP08 |
|   | Whittaker, Amanda T., F-G-CS04, T-I-SP18, T-P-SP17 |
|   | Whitney, Daniel, T-G-SP01 |
|   | Wieman, Maria, F-P-SP31 |
|   | Wier, Shannon, T-F-SP10 |
|   | Wijesekara, Saraji, F-P-SP19 |
|   | Wijesinghe, Priyanwada, T-P-SP35 |
|   | Wilkinson, Kath, F-C-SP11 |
|   | Williams, Elizabeth M., F-F-CS10 |
|   | Williams, Sian A., F-E-SP13, T-D-SP12, T-E-SP09 |
|   | Wilson, Aimee, T-H-SP02 |
|   | Wilson, Andrew, F-D-SP15 |
|   | Wilson, David R., F-F-SP04 |
|   | Wilson, Doris, T-P-SP31 |
|   | Wilson, Nichola, F-E-SP13, T-D-SP12, T-E-SP09 |
|   | Wilson, Tony, T-H-SP15 |
|   | Wimberley, Robert, F-A-SP01, F-B-SP12, F-I-SP09, F-P-SP09, T-F-SP02 |
|   | Winter, Seth, F-P-SP10 |
|   | Winterswyk, Melinda, F-P-SP13 |
|   | Wojciechowicz, Christine, T-P-SP18 |
|   | Wolfe, Dawn, F-P-SP13 |
|   | Wood, Ellen, F-A-SP04, T-E-SP02 |
|   | Woyte, Kirsten, T-H-SP02 |
|   | Wren, Tishya, F-A-SP05, T-B-SP03, T-I-SP17 |
|   | Wright, Henry G., T-P-SP11 |
|   | Wright, Marilyn, F-I-SP10, F-P-SP32 |
|   | Wright, Virginia, F-C-SP04, T-P-SP01 |
|   | Wu, De, F-H-CS09 |
|   | Wynter, Meredith, T-F-SP12 |
|   | Wysocki, Nicole, F-P-SP02 |
| X | Xiang, Bingwu, F-A-SP11 |
|   | Xiao, Bo, F-P-SP27 |
|   | Xie, Qingfeng, T-B-SP10 |
|   | Xingkui, Yang, F-H-CS07 |
Xin, Li, F-D-SP05
Xin, Wang C., F-H-CS10
Xiong, Julia (Shi-Peng), F-I-DP13

Y
Yagi, Mariko, T-P-SP15
Yang, Jian, F-G-CS08
Yang, Shin-seung, T-H-SP11
Yanping, Fan, F-D-SP05
Yuan, Aiyun, F-G-CS03
Yuan, Junying, F-A-SP12
Yue he, Qi, F-P-DP40
Yuen, Hon, T-D-SP01
Yu, Jasmine, T-I-SP01
Yu, Zhang, T-F-SP01

Z
Zacho Greve, Line, F-G-CS07
Zaidi, Sarah, F-I-DP21
Zanelli, Santina, F-E-SP11, T-E-SP01
Zapata, Karina A., F-I-DP09, T-B-SP01
Zavos, Patricia H., T-D-SP06
Zebracki, Kathy, F-H-CS03, T-G-SP09
Zhang, Chuan, F-C-SP09, F-F-SP06, T-A-SP15
Zhang, Yue, F-E-SP07
Zhaoming, Huang, T-H-SP09
Zhou, Xuan, F-B-SP04, T-P-SP16, T-P-SP36
Zhu, Changlian, F-A-SP12
Zhu, Dengna, F-A-SP12
Zhu, Lin, F-I-DP06
Ziviani, Jenny, T-P-SP09
Zwicker, Jill G., F-B-SP14, F-D-SP12, T-I-SP01
Zyblewski, Sinai, F-E-SP16
Discover a New Option in Pediatric Upper Limb Spasticity

Allergan-sponsored Clinical Update

Hear about something new in Pediatric Upper Limb Spasticity

Friday, September 20th, 7 PM

Grab a drink at the AACPDM Networking Dinner and head over to the Lounge

Visit Allergan Booth #402

All trademarks are the property of their respective owners. © 2019 Allergan. All rights reserved. UNB126799 07/19
Medical technology has done a lot to improve patient outcomes, but can it also help make healthcare more efficient and integrated? We believe it can. That’s why we’re applying our data integration expertise to help providers deliver more efficient, coordinated care. This means putting smarter algorithms in heart monitoring devices to produce more accurate and actionable alerts. And it means using real-time patient data from our insulin pumps to help doctors tailor their approach to diabetes management.

Just a few of the ways we’re using technology to address today’s healthcare challenges.

LET’S TACKLE TODAY’S HEALTHCARE CHALLENGES — TOGETHER.

medtronic.com/transfoeminghealthcare