Free Paper Sessions A - D

Free Papers A: Early Recognition

10:50 AM - 10:57 AM
A1: BRAIN LESION SEVERITY IS RELATED TO SCHOOL READINESS IN PRE-SCHOOL AGED CHILDREN WITH CEREBRAL PALSY
Jinwen He, MBBS; Leanne Sakzewski, PhD, OT; Simona Fiori, MD; Robert Ware, PhD; Roslyn N. Boyd, PhD, MSc, PT

10:58 AM - 11:05 AM
A2: DOES THE PRESENCE OF CONGENITAL ANOMALIES AFFECT THE CLINICAL PRESENTATION OF CEREBRAL PALSY?
Kjersti P. Jystad; Guro L. Andersen, PhD, MD; Magne Stoknes, MD, PhD, MSc; Jon Skranes, PhD, MD; Torstein Vik, PhD, MD

11:06 AM - 11:13 AM
A3: THE EARLY DETECTION OF HYPOXIA- AND PRO-ANGIOGENESIS GENE EXPRESSION IS A NOVEL DIAGNOSTIC TOOL FOR CEREBRAL PALSY
Jing Jia, MD; Chi-Iou Lin, PhD; Xiaoqian Jing, MD; Xinzhi Guo, PhD, MD; Qian Hua, PhD

11:14 AM - 11:21 AM
A4: MODE OF DELIVERY IN BREECH PRESENTATION- A RISK FACTOR FOR CEREBRAL PALSY?
Solveig Bjellmo, MD; Torstein Vik, PhD, MD; Guro L. Andersen, PhD, MD; Marit Martinussen, PhD, MD; Richard Romundstad, PhD, MSc; Sissel Hjelle, MD

11:22 AM - 11:29 AM
A5: GENERAL MOVEMENTS DURING THE FIDGETY PERIOD CORRELATE WITH NEUROLOGIC ABNORMALITIES AND MOTOR DELAYS AT 18-24 MONTHS IN A HIGH RISK UNITED STATES (USA) POPULATION
Lynn Boswell, MS, PT; Lars Adde, PhD, PT; Annamarie Russow, MS; Mary Weck, MS, PT; Toril Fjortoft, MSc, PT; Cheryl Patrick, MS, PT; Ragnhild Støen, PhD, MD; Marie Weissbourd, PhD; Deborah Gaebler-Spira, MD; Raye-Ann deRegnier, MD

11:30 AM – 11:45 AM QUESTIONS AND ANSWERS

11:46 AM - 11:53 AM
A6: ABNORMAL NEUROMOTOR PERFORMANCE AT 10-15 WEEKS POST-TERM ON THE TEST OF INFANT MOTOR PERFORMANCE AND THE GENERAL MOVEMENT ASSESSMENTS PREDICT 2 YEAR AVERSE NEURODEVELOPMENTAL OUTCOMES IN VERY PRETERM INFANTS.
Colleen Peyton, DPT, PT, PCS; Edward Yang, MD, PhD; Masha Kocherginsky, PhD; Lars Adde, PhD, PT; Toril Fjortoft, MSc, PT; Ragnhild Støen, PhD, MD; Christa Einspieler, PhD; Arend Bos, MD, PhD; Michael Schreiber, MD; Michael E. Msall, MD
11:54 AM - 12:01 PM
A7: PREDICTION OF NEURODEVELOPMENT USING LINEAR REGRESSION MODEL AND FORWARD FEATURE SELECTION OF NEAR-TERM REGIONAL WHITE MATTER MICROSTRUCTURE IN CHILDREN BORN PRETERM
Kornél Schadl; Rachel Vassar, BA; Katelyn Cahill-Rowley, MS; Erin E. Butler, PhD; Naama Barnea-Goraly, MD; Jessica Rose, PhD

12:02 PM - 12:09 PM
A8: PREDICTION OF LANGUAGE DEVELOPMENT USING FORWARD FEATURE SELECTION AND LINEAR REGRESSION MODEL OF NEAR-TERM REGIONAL BRAIN WHITE MATTER MICROSTRUCTURE IN CHILDREN BORN PRETERM
Rachel Vassar, BA; Kornél Schadl; Katelyn Cahill-Rowley, MS; Erin E. Butler, PhD; Naama Barnea-Goraly, MD; Jessica Rose, PhD

12:10 PM - 12:17 PM
A9: FULL-DAY ARM MOVEMENT DATA ACROSS EARLY INFANCY: IS THERE A DIFFERENCE BETWEEN ARMS?
Beth A. Smith, PhD

12:18 PM - 12:25 PM
A10: ASPECTS OF HAND FUNCTION IN YOUNG CHILDREN WITH SIGNS OF UNILATERAL AND BILATERAL CEREBRAL PALSY – A POPULATION BASED STUDY OF CHILDREN AGED 1-5 YEARS OLD
Gunvor L. Klevberg, OTR/L, MA; Sigrid Østensjø, PT, PhD; Lena Krumlinde-Sundholm, Reg. OT, PhD; Sonja Elkjær, OTR/L, MA; Reidun B. Jahnsen, PT, PhD
Free Papers B: Infants, Families and Upper Limb Function

10:50 AM - 10:57 AM
B1: NEONATAL ERYTHROPOIETIN REVERSAL OF A SPECTRUM OF CHRONIC DEFICITS CORRELATES WITH DIFFUSION TENSOR IMAGING IN A PRECLINICAL MODEL OF CEREBRAL PALSY FROM PREMATURITY
Shenandoah Robinson, MD; Lauren Jantzie, PhD

10:58 AM - 11:05 AM
B2: SUPPORTING MOTHER-INFANT INTERACTION IN THE NICU MAY ENHANCE ORAL MOTOR SKILLS, WEIGHT GAIN, AND FEEDING VOLUME: A PILOT STUDY
Stacey Dusing, PhD; Lisa F. Brown, PhD, RN; Leroy R. Thacker, PhD; Tanya Tripathi, PhD; Karen D. Henricks-Muñoz, BS, MD, MPH

11:06 AM - 11:13 AM
B3: INITIAL EFFICACY OF SPEEDI: A DEVELOPMENTAL INTERVENTION PROVIDED FOR 15 WEEKS IN THE NICU AND COMMUNITY IMPROVES MOTOR ABILITIES IN INFANTS BORN VERY PRETERM OR WITH BRAIN INJURY
Stacey Dusing, PhD; Leroy R. Thacker, PhD; Tanya Tripathi, PhD; Lisa F. Brown, PhD, RN; Karen D. Henricks-Muñoz, BS, MD, MPH

11:14 AM - 11:21 AM
B4: CONSTRAINT-INDUCED MOVEMENT THERAPY (CIMT) FOR INFANTS AND TODDLERS
Stephanie DeLuca, Ph.D.; Sharon Ramey, Ph.D.; Mary Rebekah Trucks, MS, OTR/L; Dorian Wallace, MS, OTR/L

11:22 AM - 11:29 AM
B5: HIGH DOSAGE PEDIATRIC THERAPY: DOES IT CAUSE STRESS FOR PARENTS OF PATIENTS WITH CEREBRAL PALSY?
Jean V. Fischer, MS; Sharon Ramey, Ph.D.; Stephanie DeLuca, Ph.D.; Richard D. Stevenson, MD; Amy Darragh, OTR/L, PhD, FAOTA

11:30 AM - 11:45 AM QUESTIONS AND ANSWERS

11:46 AM - 11:53 AM
B6: FAMILY CENTERED MEASUREMENT: DEVELOPMENT OF AN ENGAGEMENT GUIDELINE FOR THE CHALLENGE
Bhavnita Mistry, MA; Barbara Gibson, PhD, MSc, PT; Virginia Wright, PhD, MSc, PT
11:54 AM - 12:01 PM
B7: SEARCHING FOR THE NEURAL CORRELATES OF HAND FUNCTION IN UNILATERAL SPASTIC CEREBRAL PALSY: DOES SIZE AND LOCATION OF MOVEMENT REPRESENTATIONS MATTER?
Michelle Marneweck, PhD; Hsing-Ching Kuo, PT, MS; Ana Smorenburg, PhD; Véronique H. Flamand, PhD, OT; Claudio L. Ferre, PhD; Yannick Bleyenheuft, PhD PT; Andrew Gordon, PhD; Kathleen Friel, PhD

12:02 PM - 12:09 PM
B8: EFFECT OF INTER-MANUAL TRAINING ON HAND SHAPING DURING GRASP IN CHILDREN WITH UNILATERAL SPASTIC CEREBRAL PALSY
Aviva Wolff, OTR/L; Mandi Gibbons, MA; Howard Hillstrom, PhD; Andrew Gordon, PhD

12:10 PM - 12:17 PM
B9: ELBOW SYMMETRY DURING GAIT IMPROVES WITH AGE IN HEMIPLEGIC CEREBRAL PALSY
Aviva Wolff, OTR/L; Benjamin Gordon, MD; Aaron Daluiski, MD

12:18 PM - 12:25 PM
B10: IMPROVEMENTS IN ACTIVE ELBOW AND WRIST EXTENSION IS MAINTAINED 10 YEARS AFTER UPPER LIMB SURGERY IN CEREBRAL PALSY AND STROKE.
Eva Pontén, MD, PhD; Ferdinand von Walden, MD, PhD
Free Papers C: Medical Complexity & Nutrition

10:50 AM - 10:57 AM  
C1: A POPULATION INTERVENTION TO IMPROVE OUTCOMES IN CHILDREN WITH MEDICAL COMPLEXITY  
Garey Noritz, MD; Melissa Madden, MPH; Dina C. Roldan, BA; T. Arthur Wheeler, MS; Kimberly Conkol, RN; Richard Brilli, MD; John Barnard, MD; Sean Gleeson, MD

10:58 AM - 11:05 AM  
C2: DYSTONIA IS COMMONLY OBSERVED AND MEASURABLE IN THE CEREBRAL PALSY POPULATION  
James Rice, MBBS; Pawel Skuza, PhD; Felicity Baker, PT; Remo N. Russo, PhD, MBBS; Darcy Fehlings, FRCPC, MD

11:06 AM - 11:13 AM  
C3: HYPOVITAMINOSIS D IN CHILDREN WITH CHRONIC NEUROLOGICAL DISORDERS  
Jonathan M. VanPelt, BS, MHA; Mindy Tran, BSN, RN; Jose C. Rivera; Chan-Hee Jo, PhD; Mauricio R. Delgado, MD

11:14 AM - 11:21 AM  
C4: DEATH IN CHILDREN WITH SEVERE PHYSICAL DISABILITY; CAN WE IMPROVE CARE BY LOOKING AT THE LAST TWO YEARS OF LIFE?  
Sidharth Vemuri, MBBS (Hons) FRACP; Louise Baker, MB(Hons) Bch BAO MRCPI(CH) FRACP; Katrina Williams, PhD, MBBS, MSc

11:22 AM - 11:29 AM  
C5: MENTAL HEALTH IN PERSONS WITH LOW IQ  
Linde Melby, BS; Torstein Vik, PhD, MD; Marit S. Indredavik, PhD; Gro CC. Løhaugen, PhD; Jon Skranes, PhD, MD

11:30 AM – 11:45 AM QUESTIONS AND ANSWERS

11:46 AM - 11:53 AM  
C6: UPPER AIRWAYS OBSTRUCTION IN CHILDREN WITH CEREBRAL PALSY, A DESCRIPTIVE STUDY  
Reneva Petersen, MD; Kirsten A Donald, PhD, MBBS; Priscilla E. Springer, MD
11:54 AM - 12:01 PM
C7: FREQUENCY OF HOSPITAL ADMISSIONS FOR CHILDREN WITH MECHANICAL VENTILATION DEPENDENCY 2001-2011
Sarah A. Sobotka, MD, MS, FAAP; Michael E. Msall, MD; Kit Simpson, PhD

12:02 PM - 12:09 PM
C8: NEW MEASURES OF MEALTIME DURATION COMPONENTS ARE ASSOCIATED WITH SWALLOWING PERFORMANCE IN CHILDREN WITH CEREBRAL PALSY: A PRELIMINARY STUDY
Avinash Mishra, MS, CCC-SLP; Joan Sheppard, PhD, CCC-SLP, BCS-S; Andrew Gordon, PhD; Georgia Malandraki, PhD, CCC-SLP, BCS-S

12:10 PM - 12:17 PM
C9: OPTIMISING NUTRITION TO IMPROVE GROWTH AND REDUCE NEURODISABILITIES IN NEONATES AT RISK OF NEUROLOGICAL IMPAIRMENT
Morag J. Andrew, MBChB, BSc Med Sci (Hons); Jeremy R. Parr, MD, MB ChB; Christine Montague-Johnson, BSc (Hons); Bonny Baker, MSc, BSc (Hons); Jane Holmes, PhD, BSc; Karen Laler, BSc, BA; Janette Atkinson, PhD, BSc; Oliver J. Braddick, MA PhD Camb, FMedSci; Peter B. Sullivan, BSc MB ChB DRCOG MA MD FRCP FRCPCH

12:18 PM - 12:25 PM
C10: OVERWEIGHT STATUS IN CHILDREN WITH CEREBRAL PALSY
Lars Johnson, BS; Linda Lowes, PhD; Melissa Moore-Clingenpeel, MS; Donnie Clark, BA; Garey Noritz, MD
Free Papers D: Spasticity & Gait

10:50 AM - 10:57 AM
D1: THE LONG-TERM EFFECTIVENESS OF BOTULINUM TOXIN A ON GROSS MOTOR FUNCTION IN AMBULATORY CHILDREN WITH SPASTIC CEREBRAL PALSY
Darcy Fehlings, FRCPC, MD; Lauren Switzer, BS, MSc; Charles H. Goldsmith, PhD; Peter Rosenbaum, MD, FRCPC; Virginia Wright, PhD, MSc, PT; Unni G. Narayanan, FRCS(C), MBBS, MSc; Ronit Mesterman, FRCPC, MD; Timothy P. Carey, M.D. FRCSC; Mark Mason, MD, FRCPC

10:58 AM - 11:05 AM
D2: TESTING THE USE OF A NEW MEASURE, THE CHALLENGE-III, IN A GROSS MOTOR CAMP WITH CHILDREN WITH CEREBRAL PALSY WHO USE WALKING DEVICES
Virginia Wright, PhD, MSc, PT; Emily Brewer, BS; Blythe Dalziel, MS, PT; Puja Ahluwalia, BS, MPH, PT

11:06 AM - 11:13 AM
D3: BOTULINUM TOXIN INJECTIONS FOR SPASTIC EQUINUS IN AMBULANT CHILDREN WITH CEREBRAL PALSY: A PROSPECTIVE 3-DIMENSIONAL KINEMATIC STUDY
Tandy Hastings-Ison, PhD, PT; Morgan Sangeux, PhD; Barry Rawicki, FRACP; Michael Fahey, PhD, FRACP; H Kerr Graham, MD

11:14 AM - 11:21 AM
D4: THE NEED FOR BETTER EVIDENCE FOR THE USE OF BOTULINUM TOXIN A (BONT-A) IN THE TREATMENT OF CHILDREN WITH CP: LESSONS FROM NORWAY.
Anne Elisabeth Raftemo, MD; Arani Mahendran, MS; Areej Ibrahim Elkamil, PhD, MD; Sandra J. Hollung, MS; Torstein Vik, PhD, MD; Guro L. Andersen, PhD, MD

11:22 AM - 11:29 AM
D5: INTRATHECAL BACLOFEN IN DYSKINETIC CEREBRAL PALSY – EFFECTS ON FUNCTION AND ACTIVITY
Meta N. Eek, PhD; Kate Himmelmann, MD, PhD

11:30 AM – 11:45 AM QUESTIONS AND ANSWERS

11:46 AM - 11:53 AM
D6: COMPREHENSIVE LONG-TERM OUTCOMES AFTER SELECTIVE DORSAL RHIZOTOMY
Nanette Aldahondo, MD; Meghan Munger, MPH; Linda E. Krach, MD; Tom Novacheck, MD; Michael Schwartz, Ph.D.
11:54 AM - 12:01 PM
D7: GAIT ANALYSES 1, 3, 10, 20 AND 30 YEARS AFTER SELECTIVE DORSAL RHIZOTOMY IN CHILDREN WITH CP AND BILATERAL LOWER LIMB SPASTICITY
Nelleke G. Langerak, PhD; Nienke Veerbeek, MSc, PhD candidate; Shane E. Brassell, BSc Physiotherapy; Christopher Vaughan, PhD, DSc (Med); Graham Fieggen, MSc MD FCS(SA); Warwick Peacock, MB ChB, FRCS; Robert P. Lamberts, MSc (MED), PhD (MED), FECSS

12:02 PM - 12:09 PM
D8: SAFETY AND EFFICACY OF REPEATED DOSING OF ABOBOTULINUMTOXINA IN CHILDREN WITH LOWER LIMB SPASTICITY DUE TO CEREBRAL PALSY
Mauricio R. Delgado, MD; Dennis Matthews, MD; Edward Dabrowski, MD; Ann Tilton, MD, FAAN; Mark Gormley, MD; Marcin Bonikowski, MD; Jorge Carranza-del Rio, MD; Anne-Sophie Grandoulier, BS; Adnan Mahmoud, MD; Philippe Picaut, PharmD

12:10 PM - 12:17 PM
D9: UNDERSTANDING THE IMPACT OF CAVUS DEFORMITY ON ANKLE FUNCTION DURING GAIT IN CHILDREN WITH CHARCOT-MARIE-TOOTH
Kristan A. Pierz, MD; Kelly Pogemiller, DPT, PT; Sylvia Ounpuu, MSc

12:18 PM - 12:25 PM
D10: SEGMENTAL KINEMATIC ANALYSIS OF PLANOVALGUS FEET IN CHILDREN WITH CEREBRAL PALSY
Karen Kruger, BS, PhD; Katherine Konop, BS, MS; Joseph Krzak, PhD, PT; Adam Graf, BS, MS; Gerald Harris, PhD, PE