

GCMAS 2015 Schedule of Podium Sessions

Order	Session	Presenting Author
Thursday, March 19 from 8:00-9:30A		
	Podium Session 1. <i>Cerebral Palsy I</i>	
1	Prevalence of specific gait abnormalities in children with cerebral palsy: Influence of age, gender and GMFCS level	Gideon Blumstein
2	Prevalence of gait deviations in cerebral palsy	Sylvia Öunpuu
3	Comparative effectiveness of ground reaction and solid ankle foot orthoses for crouch gait in children with cerebral palsy	Andy Ries
4	Influence of various AFO types on recurvatum gait: A retrospective review using computerized gait analysis	Amy Lenz
5	Effect of FES neuroprosthesis use on gait in children with hemiplegic cerebral palsy	Jason Long
6	Repeatability of muscle synergies between days for unimpaired individuals and individuals with cerebral palsy	Benjamin Shuman
7	Dynamic motor control predicts treatment outcome for individuals with cerebral palsy	Michael Schwartz
8	Kinematic profiles of gross motor function classification system III functional subgroups	Jon Davids
Thursday, March 19 from 1:30-3:00P		
	Podium Session 2. <i>Foot/Ankle</i>	
1	Plantar pressures following nonoperative treatment for clubfoot: intermediate follow up at 5 years of age	Kelly Jeans
2	Functional outcomes of children treated as infants with the Ponseti and Dimeglio methods at five years of age	Glen Baird
3	Efficacy of the calcaneal-cuboid-cuneiform osteotomy procedure: A pedobarographic study	Taso Karakostas
4	Center of pressure progression (COPP): An appropriate tool for qualifying hindfoot valgus?	Beth Hollingsworth
5	Is foot contact a "collision"?	Richard Baker
6	Foot strike patterns and foot muscle morphology in habitually shod and unshod Ugandan people	Jeff Houck
7	Arch height index reliability in the pediatric foot	Siobhan Mangan
8	Multi-segmental modeling of foot deformity in children: Assessment of radiographic indexing	Katherine Konop
Thursday, March 19 from 4:00-5:30P		
	Podium Session 3. <i>Pathologic Gait I</i>	
1	An analysis of relative gait impairment in commonly diagnosed pediatric conditions	Jody Litrenta
2	Clinical validation of biomechanical criterion of the Trendelenburg test: Evaluation of patients with hip disorders	Wilshaw Stevens Jr
3	The adolescent Perthes limp: An attempt to unload the hip in symptomatic adolescent perthes disease patients	Kirsten Tulchin-Francis
4	The effect of steroids on hip joint kinetics during gait in boys with Duchenne muscular dystrophy	Kent Heberer
5	Effect of cardiorespiratory fitness and fatigue on walking and jogging biomechanics in obese children	Bhupinder Singh
6	Effects of high body mass index on joint mechanics during stair descent	Audrey Zucker-Levin
7	Adaptation of compensatory stepping in Parkinson's disease	Daniel Peterson
8	Spontaneous evolution of the spatiotemporal gait parameters of stroke patients	Aline Carmo
Friday, March 20 from 8:00-9:30A		
	Podium Session 4. <i>Upper Extremity: Shoulder and Elbow</i>	
1	Shoulder joint kinematics and muscle activity during two different techniques of car transfer in persons with paraplegia: Leading arm on drivers' seat or steering wheel	Lisa Haubert
2	Glenohumeral extension: An important factor for reaching behind the back	Stephanie Russo
3	Benefits of therapeutic taping for scapular stabilization in children with brachial plexus birth palsy	Kristen Nicholson
4	Elbow kinematics in developing pitchers	Derek Damrow
5	Effect of fatigue on high school baseball pitchers	Andreas Kontaxis
6	Glenohumeral joint kinematics during rehabilitation exercises following single tendon rotator cuff repair	Jessica Fritz
7	Shoulder kinematics during activities of daily living following rotator cuff surgery	Mathew Sunil Varre
8	Latissimus dorsi tendon transfer in patients with posterosuperior rotator cuff tears and the ability to perform ADLs	Michael Maier

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Friday, March 20 from 1:30-3:00P		
	Podium Session 5. <i>Cerebral Palsy II</i>	
1	Persistence and recurrence following femoral derotation osteotomy in ambulatory youth with cerebral palsy	Chris Church
2	Factors associated with recurrence after femoral derotation osteotomy in children with cerebral palsy	Thomas Dreher
3	Comparison of rectus femoris transfer surgery done concomitantly or delayed with hamstring lengthening in patients with cerebral palsy	Michael Aiona
4	Long-term follow-up of hamstring lengthening and hamstring lengthening plus transfer surgery in children with cerebral palsy	Rosemary Pierce
5	Distal femoral extension osteotomy during multilevel surgery in children with cerebral palsy - 3 year outcome and effects on pelvic tilt	Thomas Dreher
6	Does patellar position change with growth after patellar tendon advancement in children with cerebral palsy?	Claire Beimesch
7	Long-term effects of patellar tendon advancement	Jean Stout
8	Influence of patella alta and crouch on patellofemoral cartilage contact pressure	Rachel Lenhart
Friday, March 20 from 4:00-5:30P		
	Podium Session 6. <i>Prostheses / Pathologic Gait II</i>	
1	Kinematics, kinetics and gait profile score in highly functioning amputees	Richard Baker
2	Walking speed, oxygen consumption and cost during walking in military amputees	Richard Baker
3	The effect of prosthetic stiffness on shock absorption during transtibial gait	Erin Boutwell
4	Neuromuscular adaptations to assistive ankle power during gait in individuals with transtibial amputations	Deanna Gates
5	Assessment of side-step cutting in pediatric athletes with recent ACL reconstruction compared to controls	Nicole Mueske
6	Multi-joint effects of TKA during high-demand tasks	Michael Harris
7	Center of mass control during turning phase of timed up and go test for older adults with and without fall histories	Tzurei Chen
8	The effects of strength and endurance training on reduction of fall risks	Young-Hee Cho
Saturday, March 21 from 8:00-9:30A		
	Podium Session 7. <i>Neuromuscular Conditions / Cerebral Palsy III</i>	
1	Relationship between lower extremity kinetics and bone in independently ambulatory children with myelomeningocele	Tishya Wren
2	Influence of three-dimensional gait data and the clinician's role on gait pathology identification in children with spina bifida	Deirdre Ryan
3	O2 cost and walking speed in youth with cerebral palsy	Rob Hulbert
4	Examining the relationship between physical activity level and oxygen consumption in children with cerebral palsy	Rob Hulbert
5	Muscle strength is key to gait efficiency in children with diplegic cerebral palsy	Laurent Ballaz
6	Muscle response to vibration in children with spastic cerebral palsy	Victoria Haggett
7	An index for coordination dynamics	Kate Worster
8	Instrumented spasticity assessment: Motor-driven versus manual testing	Lynn Bar-On
Saturday, March 21 from 10:00-11:30A		
	Podium Session 8. <i>Kinematic Techniques / Innovations</i>	
1	Reliability of 3-D gait data across multiple laboratories	Kenton Kaufman
2	Reliability of kinematic gait data when learning a new marker placement model at a new location	Michael Orendurff
3	The effect of tibia marker placement on kinematics in pathological gait	Alexander Nazareth
4	Comparison of tibial torsion measurements using clinical examination, motion capture, and EOS® radiographic imaging	Lisa Jameson
5	Fabrication of customized 3D-printed variable stiffness ankle foot orthoses to evaluate muscle function	Hwan Choi
6	Effect of knee excursion on OpenSim estimated knee joint contact force in subjects with moderate knee osteoarthritis	Chris Henderson
7	Instrumented push and release test (IPUSH) for postural stability using wearable inertial sensors	Dan Peterson
8	Using a smartphone while walking: effect on the ability to perform an unexpected gait termination	On-Yee Lo