

**POSNA 2007 Annual Meeting  
Scientific Program**

**Thursday, May 24, 2007**

**7:55 AM – 8:00 AM**

**Welcome and Announcements**  
**Perry L. Schoenecker, MD, President**  
**Michael Jofe, MD, Local Host**

**HIP/SPINE/CONGENITAL**  
**Presider: Dahlia Sepulveda, MD**  
**Moderator: Stuart Weinstein, MD**

8:00 AM - 8:04 AM   **1**    One Stage Treatment of Developmental Dysplasia of the Hip in Older Children

*Eyup S Karakas, Prof. M.D. (n-none); Mehmet F Yagmurlu, MD (n-none); Ahmet S Kilinc, MD (n-none); Umit Tuhanioglu, MD (n-none); Mehmet N Ermis, MD (n-none)*

8:05 AM - 8:09 AM   **2**    Salter Osteotomy in Legg-Calve-Perthes Disease (LCPD) Followed Until Skeletal Maturity

*George H Thompson, MD (n-none); Susan A Scherl, MD (n-none)*

8:10 AM - 8:14 AM   **3**    45 Year Outcomes of Open Reduction and Innominate Osteotomy for Late Developmental Hip Dislocation

*John H Wedge, MD (n-none); Simon Thomas, MD (n-none); Robert B Salter, MD (n-none)*

8:15 AM - 8:19 AM   **4**    Ultrasonographic Predictors of Pavlik Harness Failure in Ortolani Positive Hips

*Klane K White, MD, MSc (n-none); Sundeep Agrawal, BA (n-none); Daniel J Sucato, MD, MS (n-none)*

8:20 AM – 8:32 AM           **Discussion**

8:33 AM - 8:37 AM   **5**    Adolescent Idiopathic Scoliosis Patients Report Increased Pain at 5 years Compared to 2 years after Surgical Treatment

*Vidyadhar Upasani, MD (n-none); Christine Caltoun, MD (n-none); Maty Petcharaporn, BS (n-none); Tracy Bastrom, MA (n-none); Thomas Lowe, MD (a-DePuy Spine); Randal Betz, MD (a-DePuy Spine); David Clements, MD (a-DePuy Spine); Lawrence Lenke MD (a-DePuy Spine); Peter Newton, MD (a-DePuy Spine, e-DePuy Spine)*

8:38 AM - 8:42 AM   **6**    Spontaneous Lumbar Curve Correction in Selective Thoracic Fusions of Idiopathic Scoliosis - Anterior and Posterior Approaches

*Prerana N Patel, MD (a-DePuy Spine); Tracey P Bastrom, MA (a-DePuy Spine); Michelle C Marks, PT, MA (a-DePuy Spine); Jeff Pawelek, BA (a-DePuy Spine); Randal R Betz, MD (a-DePuy Spine); Lawrence G Lenke, MD (a-DePuy Spine, e-Medtronic); Peter O Newton, MD (a-DePuy Spine, c-DePuy Spine, e-DePuy Spine)*

8:43 AM - 8:47 AM **7** Revision Surgery After Primary Spine Fusion For Idiopathic Scoliosis: Results From A Different Institution

*Scott J Luhmann, MD (n-none); Lawrence G Lenke, MD (n-none); Keith H Bridwell, MD (n-none)*

8:48 AM – 8:57 AM **Discussion**

8:58 AM - 9:02 AM **8** Occipitalization of the Atlas in Children: Morphologic Classification, Associations and Clinical Significance

*Harish S Hosalkar, MD, MBMS, FCPS, DNB (n-none); Purushottam Gholve, MD (n-none); Eric T Ricchetti, MD (n-none); Avrum N Pollock, MD (n-none); John P Dormans, MD (n-none); Denis S Drummond, MD (n-none)*

9:03 AM - 9:07 AM **9** Upper Cervical Fusion in Children with Morquio's Disease: Long-term results

*Mihir M Thacker, MD (n-none); Mohan V Belthur, MD (n-none); Aaron G Littleton, BSc (n-none); William Mackenzie, MD (n-none);*

9:08 AM - 9:12 AM **10** Osteogenesis Imperfect Misdiagnosed as Child Abuse  
*Mininder S Kocher, MD, MPH (n-none); Laura Dichtel, MD (n-none); Ingrid Holm, MD, MPH (n-none); James R Kasser, MD (n-none)*

9:13 AM - 9:17 AM **11** EPOS Multicenter Study on Trevor's Disease. How to treat?

*Elke Viehweger, MD (n-none); Bollini Gérard, MD (n-none); EPOS Multicenter Study Group (n-none)*

9:18 AM – 9:30 AM **Discussion**

9:31 AM – 9:59 AM **Presidential Guest Speaker**  
**Alvin Crawford, MD**

10:00 AM – 10:27 AM **POSTER SESSION/BREAK**

**BASIC SCIENCE/SPECIAL TOPICS**

**Presider: Kenneth Noonan, MD**

**Moderator: Tracy Ballock, MD**

10:28 AM - 10:32 AM **12** Molecular Behavior of the Fibrous Hamartoma at Congenital Pseudarthrosis of the Tibia

*Tae-Joon Cho, MD (n-none); Joong Bae Seo, MD (n-none); In Ho Choi, MD (n-none); Chin Youb Chung, MD (n-none); Won Joon Yoo, MD (n-none); Jin A Kim, MS (n-none); Dong Yeon Lee, MD (n-none); Ki Seok Lee MD (n-none)*

10:33 AM - 10:37 AM **13** Association of Apolipoprotein E Genotype and Cerebral Palsy Susceptibility in Children

*John F Sarwark, MD, (n-none); Maxine M Kuroda, Ph.D., M.P.H. (n-none); Mary E Weck, P.T. (n-none); Aaliyah Hamidullah, B.Sc. (n-none); Mark S Wainwright, M.D., PhD (n-none)*

10:38 AM - 10:42 AM **14** NF1+/- Mice Display Anabolic and Catabolic Defects in Bone Repair

*David G Little, FRACS(Orth) (e-Novartis Pharma); Aaron Schindeler, PhD (n-none); Manoj Ramachandran, FRCS(Orth) (n-none); Craig Godfrey, BVSc (n-none); Michelle M McDonald, BMedSci (n-none)*

10:43 AM – 10:52 AM **Discussion**

10:53 AM - 10:57 AM **15** Musculoskeletal Langerhans Cell Histiocytosis In Children: Analysis of Patients Over Three Decades.

*Harish S Hosalkar, MD (n-none); Michael Glotzbecker, MD (n-none); John P Dormans, MD (n-none)*

10:58 AM - 11:02 AM **16** Surgical Treatment of Lower Limb Polystotic Fibrous Dysplasia

*Ernesto Ippolito, Prof. (n-none); Pasquale Farsetti, Prof. (n-none); Roberto Caterini, Prof. (n-none); Fernando De Maio, Dr. (n-none)*

11:03 AM - 11:07 AM **17** A Co-Axial Extendible Device Effectively Achieves Limb-Length Equality In Children Treated For Distal Femoral Osteogenic Sarcoma

*Alexandre Arkader, MD (n-none); Dan C Viola, MD (n-none); Carol D Morris, MD, MS (n-none); Patrick Boland, MD (n-none); John H Healey, MD, FACS (e-Biomet)*

11:08 AM - 11:12 AM **18** Limb Lengthening with Submuscular Locking Plate Stabilization

*Christopher A Iobst, MD (n-none); Mark T Dahl, MD (e-Smith & Nephew)*

11:13 AM – 11:25 AM **Discussion**

**SPINE/UPPER EXTREMITY**

**Presider: Michael Jofe**  
**Moderator: Chad Price**

11:26 AM - 11:30 AM **19** The Role of Amicar in Surgery for Neuromuscular Scoliosis

*George H Thompson, MD (n-none); Douglas G Armstrong, MD (n-none); Connie Poe-Kochert, CNP (n-none); Ivan Florentino-Pineda, MD (n-none); Jochen P Son-Hing, MD (n-none)*

11:31 AM - 11:35 AM **20** Hemostatic Efficacy of Bipolar Wound Sealer as Adjunct to Wound Management in Children with Neuromuscular Scoliosis

*Brian D Snyder, MD, PhD (a-Tissuelink, e-Tissuelink); Daniel J Hedequist, MD (n-none); Elizabeth G Shannon, RN, PhD, cPNP (n-none)*

11:36 AM - 11:40 AM **21** The Efficacy of Preoperative Erythropoietin Administration in Pediatric Neurogenic Scoliosis Patients

*Michael G Vitale, MD, MPH (n-none); Hiroko Matsumoto, MA (n-none); David M Privitera, BA (n-none); Joshua E Hyman, MD (n-none); Linda M Waters, PNP (n-none); David P Roye, MD (n-none)*

11:41 AM - 11:45 AM **22** Reliability and Validity of a Simplified Tanner Whitehouse Classification System in Girls with Idiopathic Scoliosis

*James O Sanders, MD (a-Scoliosis Research Society); Joseph G Khoury, MD (n-none); Richard H Browne, PhD (a-Scoliosis Research Society); Shyam Kishan, MD (n-none); James F Mooney, MD (n-none); Jean Bowman, MD (n-none); Kali Arnold, MD (n-none); David N Finegold MD (a-Scoliosis Research Society); Sharon J McConnell, MS (n-none)*

11:46 AM – 11:58 AM **Discussion**

11:59 AM - 12:03 PM **23** The Effect of Tendon Transfers and Open Capsulorrhaphy on Glenohumeral Deformity in Brachial Plexus Birth Palsy

*Peter M Waters, MD (n-none); Donald S Bae, MD (n-none)*

12:04 PM - 12:08 PM **24** Is Function Associated with Quality of Life for Children with Below Elbow Deficiency?

*Michelle A James, MD (n-none); Kathleen Montpetit, OT (n-none); Anita M Bagley, PhD (n-none)*

12:09 PM - 12:13 PM **25** Elbow Interposition Arthroplasty in Children and Adolescent. Long Term Follow Up

*Federico Fernandez-Palazzi, MN. Prof. (n-none)*

12:14 PM – 12: 23 PM **Discussion**

12:24 PM – 1:00 PM

**Box Lunch**

1:00 PM – 3:00 PM

- Spine Symposium: Spinal Deformity Update
- Sports Symposium: Update On Pediatric Sports Medicine For 2007
- Trauma Symposium: Timing Is Everything
- Basic Science Symposium: Within The Decade - Basic Science That Will Change Patient Care
- Hip Symposium: Hip Preservation
- Pediatric Orthopaedics For Physician Assistants And Nurse Practitioners: Things You Will See In Your Office

**3:00 PM – 3:15 PM**

**POSTER SESSION/BREAK**

3:15 PM – 5:00 PM

- Pediatric Orthopaedic Practice, The Future

**Friday, May 25, 2007**

**FOOT/HIP**

**President: Susan Scherl, MD**

**Moderator: James Kasser, MD**

7:45 AM - 7:49 AM **26** A randomized trial of static vs dynamic foot abduction bracing following idiopathic clubfoot correction with the Ponseti method

*Matthew B Dobbs, MD (n-none); Sumeet Garg, MD (n-none); Kristina Porter, RN (n-none); Melissa Kirchhoffer (n-none)*

7:50 AM - 7:54 AM **27** Ponseti vs French Physiotherapy for Clubfeet? Which is Better?

*B. Stephens Richards, MD (n-none); Shawne Faulks, CNS (n-none); Karl E Rathjen, MD (n-none); Lori A Karol, MD (n-none); John G Birch, MD (n-none); Charles E Johnston, MD (n-none); John A Herring, MD, (n-none); Daniel J Sucato MD, MS (n-none); Sarah Signall, PT (n-none)*

7:55 AM - 7:59 AM **28** A Comparison of Physician and Physiotherapist Run Clubfoot Clinics Using the Ponseti Method

*Unni G Narayanan, MBBS, FRCSC (n-none); Joseph A Janicki, MD (n-none); Barbara Harvey, BHScPT (n-none); Anvesh Roy, (n-none); Shannon Weir, BSc (n-none); James G Wright, MD, MPH, FRCSC (n-none)*

8 AM - 8:04 AM **29** Comparison of Patient-Based Outcomes in Clubfoot Treatment: A Long Term Follow Up Study

*Joshua E Hyman, MD (n-none); Hiroko Matsumoto, MA (n-none); Samuel Dellenbaugh, BA (n-none); Jose Morcuende, MD, PhD (n-none); Michael G Vitale, MD, MPH (n-none)*

8:05 AM – 8:17 AM           **Discussion**

8:18 AM - 8:22 AM   **30**   Surgical Dislocation with Open Reduction and Internal Fixation for Unstable Slipped Capital Femoral Epiphysis: Early Promising Results

*Daniel J Sucato, MD MS (n-none); David A*

*Podeszwa, MD (n-none)*

8:23 AM - 8:27 AM   **31**   Urgent Reduction, Fixation, and Arthrotomy in the Treatment of Unstable Slipped Capital Femoral Epiphysis

*J Eric Gordon, MD (n-none); Ryan C Chen, MD*

*(n-none); Perry L Schoenecker, MD (n-none); Scott J Luhmann, MD (n-none); Matthew B Dobbs, MD (n-none); Deborah A Szymanski, RN (n-none)*

8:28 AM - 8:32 AM   **32**   Increase in intracapsular pressures after unstable slipped capital femoral epiphysis.

*Jose A Herrera-Soto, MD (n-none); Mark*

*Birnbaum, MD (n-none); Michael F Duffy, MD (n-none)*

8:33 AM - 8:37 AM   **33**   The Incidence of Severity, Chondrolysis and Avascular Necrosis in Second Side Slips of Patients with SCFE

*Richard S Davidson, MD (n-none); Yakup*

*Yildirim, MD (n-none); Severino Bautista, M.D. (n-none)*

8:38 AM – 8:50 AM           **Discussion**

**LOWER EXTREMITY/SPINE**

**Presider: Matthew Dobbs, MD**

**Moderator: Vern Tolo, MD**

8:51 AM - 8:55 AM   **34**   A Simple Method for Determining the Amount of Femoral Shortening to Perform in the Management of Limb Length Inequality

*Michael D Aiona, MD (n-none); Khaled Emara,*

*MD (n-none)*

8:56 AM - 9 AM       **35**   Assessment of Lower Limb Alignment: Standing Full Length Radiograph Versus Supine Fluoroscopy

*Sanjeev Sabharwal, MD (n-none); Caixia Zhao,*

*MD (n-none)*

9:01 AM - 9:05 AM   **36**   Interobserver and Intraobserver Reliability in the Evaluation of Mechanical Axis Deviation in Older Children and Adolescents

*J Eric Gordon, MD (n-none); Ryan C Chen, MD (n-*

*none); Matthew B Dobbs, MD (n-none); Scott J Luhmann, MD (n-none); Margaret M Rich, MD (n-none); Perry L Schoenecker, MD (n-none)*

9:06 AM - 9:10 AM **37** Evaluation of the Lower Extremity Varus Alignment in Achondroplasia

*Muharrem Inan, MD (n-none); Mary K Nagai, (n-none); Eric Riddle (n-none); Kareem Abu-Sneineh (n-none); Peter Kelleher (n-none); William G Mackenzie, MD (n-none)*

9:11 AM – 9:23 AM **Discussion**

9:24 AM - 9:28 AM **38** The Effect of Spinal Fusion on Life Expectancy for Patients With Severe Neuromuscular Scoliosis.

*Stuart V Braun, MD (n-none); Michael J Goldberg, MD (n-none); M Siobhan Murphy-Zane, MD (n-none); Walild K Yassir, MD (n-none)*

9:29 AM - 9:33 AM **39** Long Term Outcomes and Complications of Unit Rod Instrumentation in the Surgical Management of Neuromuscular Scoliosis

*Benjamin A Alman, MD (n-none); Subir N Jhaveri, MBBS, MS(Ortho) (n-none); James Wright, MD, MSc, FRCSC (n-none); Andrew W Howard, MD, MSc, FRCSC (n-none); Douglas H Hedden, MD, FRCSC (n-none); Douglas Biggar, MD (n-none); Nikolaus Walter, BSc (n-none); Fabio Ferri-De-Barros (n-none)*

9:34 AM - 9:38 AM **40** Case Control Study of Outcomes of Spinal Fusion in Patients with Continuous Intrathecal Baclofen Infusion Pumps

*Michelle S Caird, MD (n-none); Ariel Palanca, BA (n-none); Hugh Garton, MD (n-none); Robert N Hensinger, MD (n-none); Rita Ayyangar, MD (n-none); Amy Drongowski, MA, CCRC (n-none); Frances A Farley, MD (d-Medtronic)*

9:39 AM - 9:43 AM **41** Use of the S-Rod for Spinal Fixation to the Pelvis in Neuromuscular Spinal Deformities

*Richard E McCarthy, MD (n-none); Frances L McCullough, MNSc (n-none); Wayne L Bruffett, MD (n-none)*

9:44 AM – 9:56 AM **Discussion**

**9:57 AM – 10:17 AM** **Arthur H. Huene Memorial Award**  
**St. Giles Young Investigator Award**

**10:18 AM – 10:38 AM** **POSTER SESSION/BREAK**

**NEUROMUSCULAR/TRAUMA**

**President: David Little, FRACS(Orth)**

**Moderator: Henry Chambers, MD**

10:39 AM - 10:43 AM **42** *Unni G Narayanan, MBBS, FRCSC (a-Bloorview MacMillan Foundation); Shannon Weir, BSc, (MSc) (n-none); Alan Morris, PhD (a-Bloorview MacMillan Foundation); Sue Redekop, BAsC, MSc (a-Bloorview MacMillan Foundation)*

10:44 AM - 10:48 AM **43** The Influence of Baclofen Pumps on Scoliosis in Patients with Cerebral Palsy

*Brian G Smith, MD (n-none); Daniel Bulluck, MD (n-none); Francis DiMario, MD (n-none); David Feingold, MD (n-none); Mark Iantosca, MD (n-none)*

10:49 AM - 10:53 AM **44** Femoral Derotation Osteotomy in Diplegic Children Using Intramedullary Stable Elastic Nails (ISEN)

*Tim Theologis, FRCS (n-none); Julie Stebbins, PhD (n-none); Andrew Wainwright, FRCS (n-none); Nicky Thompson, MCSP, MSc (n-none)*

10:54 AM - 10:58 AM **45** Utility of Bone Scan in Non-Communicative Children with Pain

*Freeman Miller, MD (n-none); Gela Bajelidze, MD (n-none); Mohan V Belthur, MD (n-none); Kirk W Dabney, MD (n-none)*

10:59 AM – 11:11 AM **Discussion**

11:12 AM - 11:16 AM **46** Lateral Pin vs. Crossed Pin Fixation in Type 3 Supracondylar (SC) Humerus Fractures: A Randomized Prospective Study

*John S Blanco, MD (n-none); Glenn Gaston, MD (n-none); Taylor Cates, MD (n-none); Michael T Busch, MD (n-none); Michael L Schmitz, MD (n-none); Tim Schrader, MD (n-none); Dennis P Devito, MD (n-none); Jorge Fabregas MD (n-none)*

11:17 AM - 11:21 AM **47** A Dramatic Increase in Surgery for Pediatric Forearm Fractures: A Decade of Lessons from the Largest Reported Series

*John M Flynn, MD (n-none); Kristofer J Jones, BA (n-none)*

11:22 AM - 11:26 AM **48** How Safe is the Operative Treatment of Type II Supracondylar Humerus Fractures?

*David L Skaggs, MD (n-none); Suketu Vaishnav, MD (n-none); Josh Albrektson, MD (n-none); Robert M Kay, MD (n-none)*

11:27 AM - 11:31 PM **49** Demographic and Financial Implications of Emergency Room Fracture Manipulation

*W. Timothy Ward, MD (n-none); Jeffrey A Rihn, MD (n-none)*

11:32 AM – 11:44 AM      **Discussion**

**SPORTS/SPINE**

**President: Lael Luedtke, MD**

**Moderator: Jack Flynn, MD**

11:45 AM - 11:49 AM **50**    Transphyseal Anterior Cruciate Ligament Reconstruction in Skeletally Immature Adolescent Athletes

*Mininder S Kocher, MD, MPH (n-none); Jeremy S Smith, MD (n-none); Bojan Zoric, MD (n-none); Ben Lee, BS (n-none); Lyle J Micheli, MD (n-none)*

11:50 AM - 11:54 AM **51**    Evaluation of the Impact of Elbow Drop on Coronal Plane Elbow Loads in Adolescent Pitchers

*Kristan A Pierz, MD (n-none); Melany Westwell, MS, PT (n-none); Mausam Patel, MS (n-none); Sylvia Ounpuu, MSc (n-none); Jan P Tate, MPH (n-none); Carl W Nissen, MD (n-none)*

11:55 AM - 11:59 AM **52**    Juvenile Osteochondritis Dissecans of the Talus (JOC DT)

*Eric J Wall, MD (n-none); Nadir Babekir, MD (n-none); Venkat Perumal, MD (n-none); Charles T Mehlman, DO, MPH (n-none); Alvin H Crawford, MD (n-none); Junichi Tamai, MD (n-none)*

12:00 PM – 12:09 PM      **Discussion**

12:10 PM - 12:14 PM **53**    Complications of Halo Use in Children

*David L Skaggs, MD (n-none); Noppachart Limpaphayom, MD (n-none); Gordon McComb, MD (n-none); Mark Krieger, MD (n-none); Vernon T Tolo, MD (n-none)*

12:15 PM - 12:19 PM **54**    Modern Segmental Cervical Spine Instrumentation in Children

*Daniel J Hedequist, MD (n-none); Timothy Hresko, MD (n-none); John Emans, MD (n-none)*

12:20 PM - 12:24 PM **55**    The Impact of Curve Characteristics and Spine Fusion on Pulmonary Function in Adolescent Idiopathic Scoliosis

*Scott J Luhmann, MD (n-none); Yongjung J Kim, MD (n-none); Lawrence G Lenke, MD (n-none); Keith H Bridwell, MD (n-none)*

12:25 PM - 12:29 PM **56**    The Value of Intra-operative Radiographs following Posterior Spinal Fusion for Idiopathic Scoliosis

*Daniel J Sucato, MD, MS (n-none); Anthony I Riccio, MD (n-none); Brian Hasley, MD (n-none); Chia Tsai, MD (n-none); Hong Zhang, MD (n-none)*

12:30 PM – 12:42 PM      **Discussion**

**12:43 PM – 1:03 PM      Distinguished Achievement Award  
Raymond T. Morrissy, MD**

**Saturday, May 27, 2007**

**TRAUMA/LOWEREXTREMITY/NEUROMUSCULAR**

**President: Mininder Kocher, MD**

**Moderator: John Birch, MD**

7:45 AM - 7:49 AM    **57**    Large Osteochondral Fractures of the Lateral Femoral  
Condyle in the Adolescent Knee: Outcome of Bioabsorbable Pin Fixation  
*Stewart J Walsh, MD (n-none); Matthew Boyle,  
MD (n-none); Victoria Morganti, MD (n-none)*

7:50 AM - 7:54 AM    **58**    Comparison of Bioabsorbable vs. Metallic Screw Fixation  
for Epiphyseal Fractures of the Distal Tibia  
*David Podeszwa, MD (n-none); Philip Wilson,  
M.D. (n-none); Amy Holland, CPNP (n-none); Lawson Copley, M.D. (n-none)*

7:55 AM - 7:59 AM    **59**    Operative Management of Displaced Calcaneal Fractures in  
Children and Adolescents  
*Mininder Kocher, MD (n-none); Charles Petit, MD  
(n-none); James R Kasser, MD (n-none)*

8 AM - 8:04 AM        **60**    Flexible Intramedullary Nail Fixation of Pediatric  
Diaphyseal Humerus Fractures  
*J Eric Gordon, MD (n-none); Sumeet Garg, MD  
(n-none); Perry L Schoenecker, MD (n-none); Scott J Luhmann, MD (n-none); Matthew  
B Dobbs, MD (n-none)*

8:05 AM – 8:17 AM      **Discussion**

8:18 AM - 8:22 AM    **61**    Intravenous Bisphosphonate Therapy For Traumatic  
Osteonecrosis of the Femoral Head in Adolescents: A Prospective Case Series  
*David G Little, FRACS(Orth) (e-Novartis  
Pharma); Manoj Ramachandran, FRCS(Orth) (n-none); Kate Ward, MPH (n-none);  
Rick R Brown, FRCS(Orth) (n-none); Craig Munns, FRACP (n-none); Christopher T  
Cowell, FRACP (n-none)*

8:23 AM - 8:27 AM    **62**    Eight-Plate for Temporary Hemiepiphysiodesis to Correct  
Angular Deformities  
*John E Herzenberg, MD, FRCSC (n-none); Rolf  
D Burghardt, MD (n-none); Dror Paley, MD, FRCSC (e-Orthofix); Shawn C Standard,  
MD (n-none)*

8:28 AM - 8:32 AM **63** The Utility of Knee Releases in Arthrogyposis  
*Christine A Ho, MD (n-none); Lori A Karol, MD (n-none)*

8:33 AM – 8:42 AM **Discussion**

8:43 AM - 8:47 AM **64** Follow-Up of Children with Cerebral Palsy After Participation in an RCT of Non-Operative Management of Hip Displacement  
*H. Kerr Graham, MD, FRCS (Ed), FRACS (n-none)*

8:48 AM - 8:52 AM **65** Comparison of Intramuscular versus Tendon Lengthening of the Gastrocnemius Muscle in Cerebral Palsy: Outcome Measures over Time  
*Allison C Scott, MD (n-none); John Anderson, MD (n-none); Nancy Scarborough, PT (n-none); Douglas A Barnes, MD (n-none); Elroy Sullivan, PhD (n-none)*

8:53 AM - 8:57 AM **66** Nerve Palsy Following Hamstring Lengthening in Patients with Cerebral Palsy  
*Lori A Karol, MD (n-none); Carol Chambers, PT (n-none); Debra Popejoy, MD (n-none); John G Birch, MD (n-none)* Rates of Utilization of Gait Analysis for Surgical Decision Making for Ambulatory Cerebral Palsy in North America

8:58 AM – 9:07 AM **Discussion**

#### **SPINE/HIP**

**Presider: Scott Luhmann, MD**

**Moderator: Dennis Wenger, MD**

9:08 AM - 9:12 AM **67** VEPTR for Non-syndromic Congenital Scoliosis: Multicenter Evidence to Support the New Treatment Paradigm  
*John M Flynn, MD (e-Synthes Spine); Rebecca Gaugler, BS (n-none); John B Emans, MD (e-Synthes Spine); John T Smith, MD (e-Synthes Spine); Randal R Betz, MD (e-Synthes Spine); David L Skaggs, MD (e-Synthes Spine); Kit M Song, MD (e-Synthes Spine); Morey S Moreland MD (e-Synthes Spine); Vincent Deeney, MD (e-Synthes Spine); Melvin Smith, MD (n-none); Robert M Campbell, MD (e-Synthes Spine)*

9:13 AM - 9:17 AM **68** Review of VEPTR in Jarcho Levin Patients  
*Nigel J Price, MD (n-none); Robert M Campbell, MD (n-none); Norman Ramirez-Lluch, (n-none)*

9:18 AM - 9:22 AM **69** Iatrogenic Thoracic Outlet Syndrome as a Complication of VEPTR

*Steven M Mardjetko, MD (n-none); Ahmad N Nassr, MD (n-none); Benjamin P Crane, MD (n-none); Kim W Hammerberg, MD (n-none)*

9:23 AM – 9:32 AM            **Discussion**

9:33 AM - 9:37 AM    **70**    Femoral-Acetabular Impingement in Adolescents  
*Ernest L Sink, MD (n-none); Michael Dayton, MD (n-none)*

9:38 AM - 9:42 AM    **71**    The Effects of Head-Neck Osteoplasty, Imhauser Osteotomy, and Combined Procedure on Hip Range of Motion in SCFE  
*Justin M LaReau, MD (n-none); Christopher Wybo, MS (n-none); Ira Zaltz, MD (n-none)*

9:43 AM - 9:47 AM    **72**    Flexion-Valgus Intertrochanteric (FVIT) Osteotomy in Severe Slipped Capital Femoral Epiphysis  
*H. Kerr Graham, MD, FRCS (Ed), FRACS (n-none); Paulo Selber, MD, FRACS (n-none); Gary R Natrass, MD, FRCS(C), FRACS (n-none)*

9:48 AM - 9:52 AM    **73**    Delay in Diagnosis of Chronic Stable Slipped Capital Femoral Epiphysis  
*Henry J Iwinski, MD (n-none); Todd A Milbrandt, MD, MS (n-none); Vishwas R Talwalkar, MD (n-none); Christin Minter, MA (n-none); Janmeet Sahota, DO (n-none); Michael Fuller, DO (n-none)*

9:53 AM – 10:05 AM            **Discussion**

**10:06 AM – 10:16 AM            Presidential Transfer of Office**

**10:16 AM – 10:36 AM            POSTER SESSION/BREAK**

**FOOT/BASIC SCIENCE**

**Presider: Arabella Leet, MD**

**Moderator: Nancy Hadley Miller, MD**

10:37 AM - 10:41 AM **74**    Fat Interposition Grafting in Treatment of Calcaneonavicular Coalition: Technique and Outcomes  
*Prerana N Patel, MD (n-none); Dennis R Wenger, MD (n-none); Scott J Mubarak, MD (n-none)*

10:42 AM - 10:46 AM **75**    Non-Operatively Treated Clubfoot Outcomes - Do Early Results Deteriorate Over Time?

*B. Stephens Richards, MD (n-none); Shawne Faulks, CNS (n-none)*

10:47 AM - 10:51 AM **76** Use of the Ponseti Method for the Treatment of Clubfoot Associated with Myelodysplasia

*Matthew B Dobbs, MD (n-none); David Gerlach, MD (n-none); Noppachart Limpaphayom, MD (n-none)*

10:52 AM – 11:01 AM **Discussion**

11:02 AM - 11:06 AM **77** Analysis of Chromosome 11p15 Imprinting in Patients with Hemihypertrophy: Identification of a Subgroup at Increased Risk of Wilms Tumour

*Deborah M Eastwood, MB FRCS (n-none); Richard H Scott, MA MBBS (n-none); Linda Baskcomb, BSc (n-none); Nikki L Huxter, BSc (n-none); Nazneen Rahman, MA BMBChir, PhD, FRCP (n-none)*

11:07 AM - 11:11 AM **78** The CHD7 Gene is a Candidate for Susceptibility to Idiopathic Scoliosis

*Carol A Wise, PhD (n-none); Xiaochong Gao, MS, BS (n-none); Derek Gordon, PhD (n-none); Dongping Zhang, MS, BS (n-none); Richard H Browne, PhD (n-none); Cynthia Helms, MS (n-none); Matthew B Dobbs, MD (n-none); Jose A Morcuende MD (n-none); Val C Sheffield, MD, PhD (n-none); Michael Lovett, PhD (n-none); Anne M Bowcock, PhD (n-none); John A Herring, MD (n-none)*

11:12 AM - 11:16 AM **79** The paradoxical response of human osteoblasts in patients with osteogenesis imperfecta to Alendronate

*Arabella I Leet, MD (n-none); Tamara Kazarian, BS (n-none); Jay Shapiro, MD (n-none); Edward McCarthy, MD (n-none); Neal Fedarko, PhD (n-none)*

11:17 AM – 11:26 AM **Discussion**

**TRAUMA/SPECIAL TOPICS/HIP**

**President: Sanjeev Sabharwal, MD**

**Moderator: Kaye Wilkins, MD?**

11:27 AM - 11:31 AM **80** Fixation of Femoral Shaft Fxs in Children with a New Flexible Interlocking Intramedullary Nail

*Jonathan H Phillips, MD (a-Nemours Children's Clinic Orlando); Lubica Jencikova-Celerin, MD, PhD (a-Nemours Children's Clinic Orlando); Lloyd N Werk, MD, MPH (a-Nemours Children's Clinic Orlando); Stacey Armatti Wiltrout, MA, MS (a-Nemours Children's Clinic Orlando)*

11:32 AM - 11:36 AM **81** Locking Plate Fixation for Pediatric Femur Fractures

*Daniel J Hedquist, MD (n-none); Timothy Hresko, MD (n-none)*

11:37 AM - 11:41 AM **82** Stainless Steel is Superior to Titanium for Elastic Nailing of Pediatric Femur Fractures Update

*Eric J Wall, MD (n-none); Viral V Jain, MD (n-none); Vagmin Vora, MD (n-none); Charles T Mehlman, DO, MPH (n-none); Alvin H Crawford, MD (n-none)*

11:42 AM – 11:51 AM **Discussion**

11:52 AM - 11:56 AM **83** Continuous Peripheral Nerve Blockade for Post-operative Analgesia in Children: Feasibility, Safety, and Efficacy.

*Harish S Hosalkar, MD, MBMS, FCPS, DNB (n-none); Theodore Ganley, MD (n-none); Arjunan Ganesh, MD (n-none); Harshad Gurnaney, MD (n-none); Giovanni Cucchiaro, (n-none); Lawrence Wells, MD (n-none)*

11:57 AM - 12:01 PM **84** A Randomized Study of Music Therapy for Reducing Anxiety During Cast Room Procedures

*Allison Gilmore, MD (n-none); Raymond W Liu, MD (n-none); Priyesh Mehta, (n-none); Suzanne Fortuna, RN MS (n-none); Douglas G Armstrong, MD (n-none); Daniel R Cooperman, MD (n-none); George H Thompson, MD (n-none)*

12:02 PM - 12:06 PM **85** Oblique Pelvic Osteotomy in the Exstrophy/ Epispadias Complex

*Harish S Hosalkar, MD, MBMS, FCPS, DNB (n-none); Steve Parkinson, FRCS (n-none); David H Jones, FRCS (n-none)*

12:07 PM - 12:11 PM **86** Long Term Follow-up in Patients with Acute Infectious Purpura Fulminans

*Kenneth J Guidera, MD (n-none); Alec C Stall, MD (n-none)*

12:12 PM – 12:24 PM **Discussion**

12:25 PM - 12:29 PM **87** The Development of Acetabular Retroversion in Children with Perthes Disease: a New Observation, with Cause and Effect Analysis

*Wubdhav N Sankar, MD (n-none); John M Flynn, MD (n-none)*

12:30 PM - 12:34 PM **88** The Clinical Outcome of Legg-Calve-Perthes Disease is not Altered by Varus Osteotomy

*Jorge Mijares, MD (n-none); Hector Quevedo, MD (n-none); Pablo Castaneda, MD (n-none); Nelson Cassis, MD (n-none); Richard J Haynes, MD (n-none)*

12:35 PM - 12:39 PM **89** Management of Perthes Disease Using an A-frame Orthosis-ROM Protocol

*Margaret M Rich, MD, PhD (n-none); Perry L*

*Schoenecker, MD (n-none)*

12:40 PM - 12:44 PM **90** Hip Distraction for Late-Onset Perthes Disease: Early Results

*Shawn C Standard, MD (a-Orthofix); Ashish Ranade, MD (a-Orthofix); Dror Paley, MD, FRCSC (a-Orthofix e-Orthofix)*

12:45 PM – 12:57 PM **Discussion**

12:58 PM – 1:04 PM **Awards/Adjournment**

## **E-POSTERS**

**E-01** Atlantoaxial Transarticular Screw Fixation in Pediatric Patients

*Suken A Shah, MD (n-none); Jason M Gallina, MD (n-none); William G Mackenzie, MD (n-none); Jeffrey A Campbell, MD (n-none)*

**E-02** Subtalar Fusion in Cerebral Palsy Patients: Results of a new technique using corticocancellous allograft

*Freeman Miller, MD (n-none); Hakan Senaran, MD (n-none); Mary K Nagai, MD, PhD (n-none); Kirk W Dabney, MD (n-none)*

**E-03** Advanced Skeletal Maturity in Ambulatory Cerebral Palsy Patients

*Norman Y Otsuka, MD, FACS (n-none); Kiran Gollapudi, BS (n-none); Brian T Feeley, MD (n-none)*

**E-04** Hemiepiphyseal Stapling for Angular Deformity Correction Around the Knee Joint in Multiple Epiphyseal Dysplasia Patients

*Tae-Joon Cho, MD (n-none); In Ho Choi, MD (n-none); Chin Youb Chung, MD (n-none); Won Joon Yoo, MD (n-none); Kee Jeong Bae, MD (n-none)*

**E-05** Age-Related Patterns of Injury in Children Involved in All Terrain Vehicle (ATV) Accidents

*Jeffrey R Sawyer, MD, FAAOS, FAAP (n-none); Ethan Kellum, MD (n-none); Aaron Creek, BS (n-none); Ross Dawkins, BS (n-none)*

**E-06** Bone Mineral Content and Bone Density Following Distal Radius Fractures in Children - are they at risk?

*Scott A Hoffinger, M.D. (a-Children's Hospital Pediatric Clinical Research Center); Marcie Humphrey, RN (n-none); Ellen Fung, PhD (n-none); Zahra Pakbaz, MD*

**E-07** Prognostic Value of Modified Lateral Pillar Classification in LCPD

*Sung-Taek Jung, MD, PhD (n-none); Hyun Jong Kim, MD (n-none); Chang-Ich Hur, MD (n-none); Jong-Sun Kim, MD (n-none); Keun-Young Lim, MD (n-none); Ji-Hyeon Rim, MD (n-none)*

**E-08** Does the Percutaneous Achilles Tenotomy in Clubfoot Treatment Objectively Modify the Equinus ?

*Morris Duhaim, MD (n-none); Guy Grimard, MD (n-none); Benoit Morin, MD (n-none); Marie-Andrée T Cantin, MD (n-none)*

**E-09** Ipsilateral Transfer of the Fibula for Treatment of Congenital Pseudarthrosis of the Tibia

*James W Roach, MD (n-none); Kevin Casey, MD (n-none)*

**E-10** Salter-Harris Type III Fractures of the Distal Femur: Plain Radiographs can be Deceptive

*Eric J Wall, MD (n-none); Rich Owens, MD (n-none); Charles T Mehlman, DO, MPH (n-none); Alvin H Crawford, MD (n-none); Junichi Tamai, MD (n-none); Twee Do, MD (n-none)*

**E-11** Metaphyseal-Diaphyseal Junction Fractures of the Distal Humerus in Children

*James T Guille, MD (n-none); Reginald S Fayssoux, MD (n-none)*

**E-12** Serial Casting and Mini-Open Tenotomy for Congenital Knee Dislocation: A New Treatment Method

*Matthew B Dobbs, MD (n-none); Noppachart Limpaphayom, MD (n-none)*

**E-13** Does Living in a Rural Location Worsen the Outcome of the Ponseti Method for Clubfoot Deformty?

*Richard M Schwend, MD (n-none); Frank R Avilucea, BA (n-none); Patrick Bosch, MD (n-none); Elizabeth Szalay, MD (n-none)*

**E-14** Predictive Value of Lesion Size on Healing Potential of Stable Juvenile OCD Lesions of the Knee

*Eric J Wall, MD (n-none); Jason Vourazeris, BS (n-none); Gregory D Myer, MS (n-none); Kathleen Emery, MD (n-none); Jon Divine, MD (n-none); Timothy Hewitt, PhD (n-none) Diane VonStein, MD (n-none); Alvin H Crawford, MD (n-none)*

**E-15** Influence of the Proximal Femoral Growth Plate on Remodeling of the Hip Joint in Perthes Disease

*Shanmuga Jayakumar, MD (n-none); Marcin Domzalski, MD (n-none); Muharrem Inan, MD (n-none); James T Guille, MD (n-*

*none); Aaron G Littleton, BSc (n-none); Joseph Glutting, PhD (n-none)*

**E-16** Steroid-induced Avascular Necrosis of the Femoral Head in Children: Early Results of Endoscopic Decompression with Bone-grafting

*Harish S Hosalkar, MD, MBMS, FCPS, DNB (n-none); Gilbert Chan, MD (n-none); Eileen Crawford, BA (n-none); John Dormans, MD (n-none); Lawrence Wells, MD (n-none)*

**E-17** Leg-Length Discrepancy (LLD) in Idiopathic Hemihypertrophy (IH) or Beckwith-Wiedemann Syndrome (BWS)

*Purushottam A Gholve, MD, MBMS, MRCS (n-none); Rebecca L Gaugler, BS (n-none); Lindsey B Campbell, MS (n-none); Denis S Drummond, MD (n-none); Richard S Davidson, MD (n-none); Kim Nichols, MD (n-none); John P Dormans, MD (n-none)*

**E-18** The Effect of Pelvic Positioning on Acetabular Measurements, a CT Study

*Harold J van Bosse, MD (n-none); Eric R Henderson, MD (n-none); David S Feldman, MD (n-none); Debra A Sala, MS, PT (n-none); Duron Lee, MS (n-none); Zehava Rosenberg, MD (n-none)*

**E-19** Biomechanical Comparison of Retrograde Elastic Stable Intramedullary Nailing Versus Locked Bridge Plating for Comminuted Pediatric Femoral Shaft Fractures

*Charles T Mehlman, DO, MPH (a-Funded in part by an unrestricted research grant from Synthes); Dan R Oas, DO (a-Funded in part by an unrestricted research grant from Synthes); David L Glos, BSE (n-none)*

**E-20** Calcaneal Derotation Osteotomy for Club Foot Revision Surgery

*Philippe Souchet, MD (n-none); Brice Ilharreborde, MD (n-none); Etienne Morel, MD (n-none); Franck Fitoussi, MD (n-none); Georges F Pennecot, MD (n-none); Keyvan Mazda, MD (c-Abbott Spine, e-Abbott Spine)*

**E-21** A Quality Assessment of Randomized Clinical Trials in Pediatric Orthopedics

*Kishore Mulpuri, MBBS, MS(Ortho), MHSc (n-none); Sukhdeep K Dulai, MD, FRCSC (n-none); Bronwyn L Slobogean, BA (n-none); Richard D Beauchamp, MD, FRCSC (n-none)*

**E-22** Halo-Sign on Magnetic Resonance Imaging: An Adjunct to Diagnosis of Osteoid Osteoma in Children

*Harish S Hosalkar, MD, MBMS, FCPS, DNB (n-none); Orlee Hamer, BA (n-none); Monica Epelman, MD (n-none); Diego Jaramillo, MD (n-none); Paul Babyn, MD (n-none); Marta Guttenberg, MD (n-none); Lawrence Wells, MD (n-none); John P Dormans, MD (n-none)*

- E-23** Annular Ligament Repair using Forearm Fascia in Irreducible and Chronic Monteggia Fractures in Children  
*C R Bradish, FRCS (n-none); C A Robb, MRCS(Ed) (n-none); Xiao-Dong Wang (n-none)*
- E-24** The Role of Overhead Traction with Abduction in Closed Reduction of Infant Hip Dislocation  
*John E Handelsman, MD (n-none); David H Godfried, MD (n-none); Jacob Weinberg, MD (n-none)*
- E-26** Forearm Stiffness Following Forearm Shaft Fractures in Children: A Meta-Analysis of Operative Versus Nonoperative Treatment  
*Charles T Mehlman, DO, MPH (n-none); Mike Greiwe, MD (n-none)*
- E-27** Prospective Randomized Study of Efficacy, Cost, and Operative Time of Regional Anesthesia: Our Pediatric Experience  
*Theodore J Ganley, MD (n-none); Kristofer J Jones, BA (n-none); Lawrence Wells, MD (n-none); Giovanni Cucchiaro, MD (n-none); John M Flynn, MD (n-none)*
- E-28** Skeletal Tuberculosis in Children in the Western World: Is there a rising trend?  
*Harish S Hosalkar, MD, MBMS, FCPS, DNB (n-none); Deborah Eastwood, FRCS (n-none); Theodore Ganley, MD (n-none); Lawrence Wells, MD (n-none); David Spiegel, MD (n-none); Jay King, MD (n-none) Edward J Fox, MD (n-none); Robert A Hill, FRCS (n-none)*
- E-29** A Spreadsheet for Simple Calculation of Limb Length Inequality and Epiphyseodesis Timing  
*James O Sanders, MD (n-none); Joseph G Khoury, MD (n-none); Shyam Kishan, MD (n-none)*
- E-30** Mortality in Children with Hypoplastic Chest Wall Deformity Following Reconstructive Surgery  
*Randal R Betz, MD (a-Synthes Spine); MJ Mulcahey, PhD, OTRL (a-Synthes Spine); Robert C Campbell, MD (a-Synthes Spine); John T Smith, MD (a-Synthes Spine); John Flynn, MD (a-Synthes Spine); Norman Ramirez, MD (a-Synthes Spine)*
- E-31** Is Physeal Bar Formation a Vascular Phenomenon?  
*J M Wattenbarger, MD (a-POSNA Research Grant); Helen Gruber, PhD. (n-none); James Fiechtl, MD (n-none); Nomaan Ashraf, MD (n-none); Jane Ingram, BS (n-none)*

**E-32** Does an Increased Body Mass Index Effect the Risk for Perioperative Complications in Adolescent Idiopathic Scoliosis?

*Vidyadhar Upasani, MD (n-none); Christine Caltoun, MD (n-none); Maty Petcharaporn, BS (n-none); Tracy Bastrom, MA (n-none); Jeff Pawelek, BS (n-none); Michelle Marks, MA (a-DePuy Spine); n Randal Betz, MD (a-DePuy Spine); Lawrence Lenke, MD (a-DePuy Spine); Peter Newton, MD (a-DePuy Spine, e-DePuy Spine)*

**E-33** Posterior Arthrodesis of the Thoracic Spine in Pre-Pubertal Rabbits: Effects on Thoracic Growth

*Alain Dimeglio, Prof (n-none); Federico Canavese, Dr (n-none); Fabiano Cavalli, Prof (n-none); Francois Bonnel, Prof (n-none); Donatella Volpatti, Dr (n-none); Marco Stebel, Dr (n-none) J-P Daures, Prof (n-none); Eugenio Pittioni, Prof (n-none); Bartolomeo Canavese, Prof (n-none)*

**E-34** Minimizing Injury and Maximizing Athletic Performance in Females: Effects of a Pediatric Injury/ACL Prevention Program

*Theodore J Ganley, MD (n-none); Jeffrey D Albaugh, PT, MS, ATC (n-none)*

**E-35** Success and Application of Taylor-Spatial Frames for Paediatric Lower Limb Lengthening and Angular Correction.

*Christopher Bradish, FRCS (n-none); Gordon A Higgins, BSc MBChBMRCs (n-none); C A Robb, MRCS(Ed) (n-none)*

**E-36** Treatment of Unicameral Bone Cysts of the Proximal Femur.

*Todd A Milbrandt, MD, MS (n-none); Jeffery Hopkins, MD (n-none); Janet Walker, MD (n-none); Vishwas R Talwalkar, MD (n-none); Henry J Iwinski, Jr, MD (n-none)*

**E-37** Antegrade Versus Retrograde Flexible Intramedullary Stabilization of Femoral Fractures: Which is Best for a Distal Fracture?

*Suzanne Steinman, MD (n-none); Andrew Mahar, MS (n-none); Richard Oka, BA (n-none); Ryan Goodwin, MD (n-none); Douglas Wallace, MD (n-none); Peter Newton, MD (n-none)*

**E-38** Can Isolated Tibial Shaft Fractures in Children Treated with Early Weight Bearing in a Below Knee Cast?

*John T Smith, MD (n-none); Michael Rasmussen (n-none); Alan K Stotts, MD (n-none)*

**E-39** Ketamine for Fracture Reduction in Children - Is 6 Hour NPO too Long?

*Scott A Hoffinger, MD (n-none); Marcie Humphrey, RN (n-none); Meredith Milet, MPH (n-none)*

**E-40** Neonatal Brachial Plexus Palsy – Incidence and Risk Factor Analysis from a United States National Database

*Charles T Mehlman, DO, MPH (n-none); Susan L Foad, MPH (n-none); Jun Ying, PhD, (n-none); Linda Michaud, MD, PT (n-none)*

**E-41** Comparison of Intramedullary Nailing to Plating for Forearm Fractures in Children Ages 10-16 Years.

*David M Scher, MD (n-none); Daniel W Green, MD (n-none); Keith Reinhardt, BS (n-none); David S Feldman, MD (n-none); Roger F Widmann, MD (n-none)*

**E-42** Digital Vernier Caliper For Radiographic Measurements in Pediatric Spine

*Purushottam A Gholve, MD, MBMS, MRCS (n-none); Harish S Hosalkar, MD, MBMS, DNB (n-none); Gokce Mik, MD (n-none); David A Spiegel, MD (n-none); Denis S Drummond, MD (n-none)*

**E-43** Patient-Based Assessment vs. Disease-Specific Instrument in the Evaluation of Children with Clubfoot

*John Thmoetz, MD (n-none); XueCheng Liu, MD, PHD (n-none); Jacky McKillip, PhD (n-none); Roger Lyon, MD (n-none); Channing Tassone, MD (n-none)*

**E-44** Ethnocultural Survey of the Congenital Clubfoot in Uganda

*Shafique P Pirani, FRCSC (a-Canadian International Development Association); Uganda Sustainable Clubfoot Care Project (a-Canadian International Development Association)*

**E-45** 5-Year Follow Up of Scoliosis Patients Surgically Treated with Thoracoscopic Anterior Instrumentation

*Peter Newton, MD (a-DePuy Spine, e-DePuy Spine); Juliano Lhamby, MD (n-none); Vidyadhar Upasani, MD (n-none); Jeff Pawelek, BS (n-none); Tracy Bastrom, MA (n-none)*

**E-46** The Use of Computerized Tomography in the Development and Implementation of a Pre-Operative Protocol to Aid in Pedicle Screw Placement

*Christopher W Reilly, MD, FRCSC (n-none); Angeliki Perdios, MSc (n-none); Ranjit Varghese, MBBS (n-none); Douglas Jamieson, MD, FRCSC (n-none)*

**E-47** Suture Treatment of Ganglion Cysts in Children

*William L Hennrikus, MD (n-none); Samantha Patil (n-none); Harish S Hosalkar, MD (n-none)*

**E-48** Percutaneous Injection of Bone Marrow and Demineralizing Bone Matrix of Bone Cysts Stabilized with Intamedullary Fixation

*Anastasios D Kanellopoulos, MD (n-none); Hristos Giannakopoulos, MD (n-none)*

**E-49** Elastic Stable Intramedullary Nailing of Tibial Shaft Fractures in Children

*Charles T Mehlman, DO, MPH (n-none); Adarsh K Srivastava, (n-none); Eric J Wall, MD (n-none); Twee T Do, MD (n-none)*

**E-50** Periacetabular Triple Innominate Osteotomy for Recentration and Improved Containment of Hips with Poor Prognosis after Legg-Calvé

*Ulrich G Exner, MD (n-none)*

**E-51** Comparison of Supracondylar Humerus Fracture Pinning When the Fracture is not Anatomically Reduced

*Tamir Bloom, MD (n-none); Claire Robertson (n-none); Andrew Mahar, MS (n-none); Maya Pring, MD (n-none); Peter O Newton, MD (n-none)*

**E-52** Complications of Osteochondral Tibial Allografts in Pediatric Osteosarcoma Reconstruction: Review of 12 cases

*Mihir M Thacker, MD (n-none); H Thomas Temple, MD (n-none); J David Pitcher Jr, MD (n-none); Sean P Scully, MD (n-none)*

**E-53** Predictors of Successful Closed Treatment of Type II Supracondylar Elbow Fractures in Children

*Craig Eberson, MD (e-Globus, Inc.); Peter G Fitzgibbons, MD (n-none); Nicole Arcand, MD (n-none); Julie Katarincic, MD (n-none); Patricia Solga, MD (n-none)*

**E-54** Epiphysial Sparing Tumor Resection in Children.

*Ulrich G Exner, MD (n-none); Charles E Dumont, MD (n-none)*

**E-55** Patient Motivation Criteria and Gait Orthosis Use in Young Patients with Complete Thoracic Paraplegia

*Joel A Lerman, MD (n-none); Craig M McDonald, MD (n-none); R T Abresch, MS (n-none)*

**E-56** Low Body Mass Index in Ambulatory Cerebral Palsy Patients

*Norman Y Otsuka, MD, FACS (n-none); Kiran Gollapudi, BS (n-none); Brian T Feeley, MD (n-none)*

**E-57** Longitudinal Osteotomy of the Talus for Recurrent Clubfoot in Developing Countries.

*Kaye E Wilkins, MD (n-none); Idgie Garnier-Kenol, MD (n-none)*

- E-58** Medial Column Arthrodesis in Spastic Plano-Valgus Foot.  
*Patricia M Fucs, MD, PhD (n-none); Celso Svartman, MD (n-none); Rodrigo M C de Assumpção, MD (n-none); Simone D Simis, MD (n-none)*
- E-59** Closed Reduction and Internal Fixation in Displaced Lateral Condylar Fracture of the Humerus in Children  
*Kwang S Song, MD, PhD (n-none); Chul H Cho, MD (n-none)*
- E-60** Scoliosis in Quadriplegic Cerebral Palsy: Risk Factors for Progression  
*Freeman Miller, MD (n-none); Hakan Senaran, MD (n-none); Suken A Shah, MD (n-none); Joseph J Glutting, PhD (n-none); Kirk W Dabney, MD (n-none)*
- E-61** Epidural Analgesia after Posterior Spinal Fusion (PSF); Slightly Better Analgesia with a High Failure Rate  
*Frances A Farley, MD (d-Medtronic); Virginia Gauger, MD (n-none); Robert N Hensinger, MD (n-none); Laurel C Blakemore, MD (n-none); Terry Voepel-Lewis, RN (n-none); Michelle Caird, MD (n-none)*
- E-62** Hip Arthroscopy in Children  
*James J McCarthy, MD (n-none); Frederick S Song, MD (n-none); Dean MacEwen, MD (n-none)*
- E-63** Pediatric Elbow Range of Motion and Carrying Angle in Relation to Body Mass Index  
*Jeffrey R Sawyer, MD, FAAOS, FAAP (n-none); Daniel W Golden, MD (n-none); Janet M Wojcicki, PhD, MPH (n-none); Jeffrey T Jhee, BA (n-none); Susan L Gilpin, MS, PAC (n-none); Melvin Heyman, MD, MPH (n-none)*
- E-64** Femur Fractures in Adolescents: Comparison of 4 Methods  
*Unni G Narayanan, MBBS, FRCSC (n-none); Leonhard Ramseier, MD (n-none); Shannon Weir, BSc, (MSc) (n-none)*
- E-65** Same-Level Concomitant Fractures of the Tibia and Fibula: Effect of Location in the Leg  
*James T Guille, MD (n-none); Glenn E Lipton, MD (n-none); J R Bowen, MD (n-none); Rakeesh Mashru, MD (n-none); Marcin Domzalski, MD (n-none)*
- E-66** Is the Lumbar Modifier Useful in Surgical Decision Making? Defining Two Distinct Lenke 1 Curve Patterns

*Peter O Newton, MD (a-DePuy Spine, e-DePuy Spine); Firoz Miyanji, MD (n-none); Andrew Perry, MD (n-none); Scott Van Valin, MD (n-none); Jeff Pawelek, BS (n-none)*

**E-67** Giant Cell Tumor in Tendon Sheath: Largest Series in Children

*John P Dormans, MD, FACS (n-none); Purushottam A Gholve, MD, MBMS, MRCS (n-none); Harish S Hosalkar, MD, MBMS, FCPS, DNB (n-none); Portia Krieger, MD (n-none)*

**E-68** Percutaneous Osteotomy for Deformity Correction in Adolescents with Severe Slipped Capital Femoral Epiphysis.

*Sanjeev Sabharwal, MD (a-Richards, Smith & Nephew); Rahul Mittal, MD (n-none); Caixia Zhao, MD (n-none)*

**E-69** The Contralateral Foot in Children with Unilateral Clubfoot: a Study of Pressures and Forces Involved in Gait.

*Ulrich G Exner, MD (n-none); Philippe Favre, MSc (n-none); Hilaire A Jacob, PhD (n-none)*

**E-70** Cervicothoracic Myelopathy In Children With Morquio's Disease

*William G Mackenzie, MD (n-none); Mohan V Belthur, MD (n-none); Mihir M Thacker, MD (n-none); Leslie Grissom, MD (n-none)*

**E-71** The Effectivity of Pavlik Harness treatment in Children with Graf Type 3 or 4 Hips Diagnosed within 4 Months of Age

*Hakan Senaran, MD (n-none); Sezgin Simsek, MD (n-none); Safa M Kapicioglu, MD (n-none)*

**E-72** Contact Pressure and its Distribution at the Hip Joint after Flexion-Valgization Femoral Osteotomy for Slipped Capital Femoral Epiphysis

*Tae-Joon Cho, MD (a-Seoul National University Hospital); Yoo Hyuk Kim, PhD (a-Seoul National University Hospital); Wonman Park, MS (n-none); Dong Yeon Lee, MD (n-none); Won Joon Yoo, MD (n-none); In Ho Choi, MD (n-none)*

**E-73** Quality of Life in Children with Bone Sarcoma

*Alexandre Arkader, MD (n-none); Jenny M Frances, MD, MPH (n-none); Carol D Morris, MD, MS (n-none); Zarko G Nolic, MD (n-none); Patrick J Boland, MD (n-none); Edward Athanasian, MD (n-none) John H Healey, MD (n-none)*

**E-74** Factors Affecting Shoulder Balance after Posterior Spinal Fusion in Adolescent Idiopathic Scoliosis

*Peter G Gabos, MD (n-none); Gilbert Chan, MD (n-none); Dan E Mason, MD (n-none)*

- E-75** Difficult Thoracic Pedicle Screw Placement in Idiopathic Scoliosis  
*James T Guille, MD (n-none); Hakan Senaran, MD (n-none);  
Suken A Shah, MD (n-none); Peter G Gabos, MD (n-none); Aaron  
G Littleton, BSc (n-none); Geraldine Neiss, PhD (n-none)*

## **POSTERS**

- P-01** A Radiographic Classification of Femoral Lesions in Fibrous Dysplasia of the Bone  
*Pasquale Farsetti, MD (n-none); Fernando De Maio, MD (n-  
none); Vito Potenza, MD (n-none); Ernesto Ippolito, MD (n-none)*
- P-02** Treatment of Neuromuscular and Syndrome Associated Clubfeet (Non-Idiopathic) Using the Ponseti Method  
*James G Wright, MD, MPH, FRCSC (n-none); Joseph A Janicki,  
MD (n-none); Barbara Harvey, BHScPT (n-none); Anvesh Roy,  
MBBS (n-none); Unni G Narayanan, MBBS, FRCSC (n-none)*
- P-03** Avascular Necrosis of the Trochlea of the Humerus Revisited - Long Term Follow-up  
*Kaye E Wilkins, MD (n-none); Nott V Eric, MD (n-none); Sri  
Ram K, MD (n-none)*
- P-04** Navicular Excision and Cuboid Closing Wedge Osteotomy for Severe Cavus Foot Deformities  
*Scott J Mubarak, MD (n-none); Alain Dimeglio, MD (n-none)*
- P-05** Normal Cervical Spine Range of Motion in Children 3 to 12-Years-Old  
*Purushottam A Gholve, MD, MBMS, MRCS (n-none); Kristy B  
Arbogast, PhD (n-none); Jared E Friedman, BA (n-none);  
Matthew R Maltese, MS (n-none); Matthew F Tomasello, (n-none);  
John Dormans, MD (n-none)*
- P-06** The Pediatric Fracture Clinic: Build it and they will come  
*William L Hennrikus, MD (n-none); Jay Majahan, BS (n-none);  
Matthew Halsey, MD (n-none); Joseph Gerardi, DO (n-none);  
Carrie Ceppi, NP (n-none)*
- P-07** Anterior Humeral Line in Normal Elbows: Variability with Age  
*Martin J Herman, MD (n-none); Mathew Boardman, DO (n-  
none); Justin Hoover, BS (n-none)*
- P-08** Treatment of Clubfoot with the Ponseti Method: A Comparison of Casting Materials  
*Kevin E Klingele, MD (n-none); Douglas E Pittner, MD (n-none);  
Allan Beebe, MD (n-none)*

- P-09** Outcome of the Treatment of Relapsed Talipes Equinovarus Using the Ilizarov External Fixator  
*Fergal P Monsell, MSc FRCS(Orth) (n-none); Sally Pollock, FRCS(Orth) (n-none); Anthony Caterrall, FRCS (n-none); Fulvio Franceschi, FRCS (n-none); Deborah M Eastwood, FRCS (n-none)*
- P-10** Ulnar Nerve Entrapment in Flexion-Type Supracondylar Humerus Fractures  
*Suzanne Steinman, MD (n-none); Tracey P Bastrom, MA (n-none); Peter O Newton, MD (n-none); Scott J Mubarak, MD (n-none)*
- P-11** Ponseti Management of Club Foot after Walking Age  
*Mehmet f Yagmurlu, MD (n-none); Mehmet N Ermis, MD (n-none); Umit Tuhanioglu, MD (n-none); Eyup S Karakas, Professor MD (n-none); Ramadan Oke, MD (n-none)*
- P-12** A New, Validated Shorthand Method for Determining Bone Age  
*David M Scher, MD (n-none); Benton E Heyworth, MD (n-none); Matthew Goldstein, BS (n-none); Robert Schneider, MD (n-none); Daniel W Green, MD (n-none); Purushottam Gholve, MD (n-none); Roger F Widmann, MD (n-none); Stephen W Burke, MD (n-none)*
- P-13** Prognostic Value of Pretreatment Clubfoot Rating to Outcome Following Ponseti Cast Treatment  
*B. Stephens Richards, MD (n-none); Shawne Faulks, CNS (n-none); Karl E Rathjen, M.D. (n-none)*
- P-14** Lateral Only Versus Crossed Pin Technique for Displaced Supracondylar Humerus Fractures: A prospective, randomized trial  
*Patrick Bosch, MD (n-none); Richard Schwend, MD (n-none); Krishna Tripuraneni, MD (n-none)*
- P-15** Children with Frequent Fractures: How much workup is Needed?  
*John M Mazur, MD (n-none); Robert C Olney, MD (n-none); Leah M Pike, MD (n-none); Gabriela Ramirez-Garcia, PhD, MPH (n-none); Robert J Cummings, MD (n-none); Eric Loveless, MD (n-none) David M Mandel, MD (n-none); George A Hahn, MD (n-none); Kevin M Neal, MD (n-none)*
- P-16** The Use of Allograft to Treat Foot Deformities in Children with Cerebral Palsy  
*Freeman Miller, MD (n-none); Hakan Senaran, MD (n-none); Muharrem Inan, MD (n-none); Kirk W Dabney, MD (n-none)*

**P-18** Musculoskeletal Manifestations of Loeys-Dietz Syndrome

*Gurkan Erkula, M.D. (n-none); Paul D Sponseller, M.D. (n-none); Laura Paulsen (n-none); Gretchen Oswald, P.A. (n-none); Bart Loeys, MD (n-none); Harry Dietz, III, M.D. (n-none)*

**P-19** Childhood Fractures in Ontario - A Population Based Study

*Andrew W Howard, MD, MSc, FRCSC (n-none); Joseph A Janicki, MD (n-none); Alison Macpherson, PhD (n-none)*

**P-20** Identification of a Novel Region for AIS on Chromosome 12p with an Autosomal Recessive Model of Inheritance

*Cathleen L Raggio, MD (n-none); Philip F Giampietro, MD, PhD (n-none); Seth E Dobrin, PhD (n-none); Zhao C, PhD (n-none); Donna Dorshors, PhD (n-none); James Weber, PhD (n-none)*