

2013 Orthopedic Department Research and Education Activity Report

The following details some of the past year's activity of the physicians associated with the cerebral palsy program, including research, publications, presentations and conference activity.

2013 Orthopaedic Department Reference List

1. Dhawale AA, Karatas AF, Holmes L, Rogers KJ, Dabney KW, Miller F. Long-term outcome of reconstruction of the hip in young children with cerebral palsy. *Bone Joint J* 2013 Feb;95-B(2):259-65. PMID 23365039
2. Haumont,T.; Church,C.; Hager,S.; Cornes,M.J.; Poljak,D.; Lennon,N.; Henley,J.; Taylor,D.; Niiler,T.; Miller,F. Flexed-knee gait in children with cerebral palsy: a 10-year follow-up study. *J Child Orthop.* 6-12-2013. DOI 10.1007/s11832-013-0505-8
3. Kadhim M, Holmes L, Jr., Miller F. Long-term Outcome of Planovalgus Foot Surgical Correction in Children with Cerebral Palsy. *J Foot Ankle Surg* 2013 Jul 25;(13):10. PMID 23890990
4. Kadhim M, Miller F. Crouch gait changes after planovalgus foot deformity correction in ambulatory children with cerebral palsy. *Gait Posture* 2013 Nov 2;(13):10.
5. Robinson,K.G.; Mendonca,J.L.; Militar,J.L.; Theroux,M.C.; Dabney,K.W.; Shah,S.A.; Miller,F.; Akins,R.E. Disruption of Basal lamina components in neuromotor synapses of children with spastic quadriplegic cerebral palsy. *PLoS One* 2013 Aug 16;8(8):e70288. PMID 23976945
6. Talmac MA, Kadhim M, Rogers KJ, Holmes L, Jr., Miller F. Legg-Calve-Perthes disease in children with Down syndrome. *Acta Orthop Traumatol Turc* 2013;47(5):334-8. PMID 24164943

Conference Activity Information

European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece

Podium

1. Muayad Kadhim, MD, Larry Holmes, Jr. PhD, DrPH, Freeman Miller, MD. Crouch Gait Changes after Planovalgus Foot Deformity Correction in Ambulatory Children with Cerebral Palsy. April 20, 2013.
2. Julie Sees, Prakash Sitoula, Kenneth Rogers, Freeman Miller, Heidi Kecskemethy, Steve Bacarach. Pamidronate treatment to prevent reoccurring fractures in Children with Cerebral Palsy. April 20, 2013.

e-Poster

1. E115 Prakash Sitoula, Kirk Dabney, Laurens Holmes, Kenneth Rogers, Freeman Miller. "The Long-term Outcomes of Early Spine Fusion for Scoliosis in Children with Cerebral Palsy"
2. E116 Ali Fuat Karatas, MD¹; Arjun Dhawale, MD¹; Laurens Holmes, PhD, DrPH¹; Kenneth Rogers, PhD, ATC¹; Kirk W Dabney, MD¹; Freeman Miller, MD¹. Radiographic, Pain and Functional Quality of Life Outcomes after Hip Reconstruction in Cerebral Palsy: A 20 Year Follow-Up Study
3. E119 Holmes, L. Jr. PhD, DrPH¹, Joshi, A.^{1,2,3}, Lorenz, Z.^{1,5}, Miller, F. MD¹, Dabney, K. MD¹, Connor, J MD¹, Karatas, A.F. MD¹ "Discovered Dead During Sleep Phenomenon in the Causal Pathway of Pediatric Cerebral Palsy Survival"
4. E121 Ali Fuat Karatas, MD¹; Arjun Dhawale, MD¹; Laurens Holmes, PhD, DrPH¹; Kenneth Rogers, PhD, ATC¹; Kirk W Dabney, MD¹; Freeman Miller, MD¹. "Outcome after Pelvic Osteotomy for Hip Dysplasia in Ambulatory Children with Cerebral Palsy"

2013 Orthopedic Department Research and Education Activity Report

[Pediatric Orthopaedic Society of North America May 1-4, 2013, Toronto, ON, CA](#)

May 2, 2013

PAPER NUMBER/TITLE: 52 / Hip Subluxation, Pelvic Obliquity, And 52 Scoliosis In The CP Population: A Random Triad Or A Predictable Relationship?

Firoz Miyanji, MD, Amer Samdani, Peter F. Sturm, MD, Suken A. Shah, MD, Paul D. Sponseller, MD, Peter O. Newton, MD

DAY/DATE/TIME OF PRESENTATION: 5/2/2013 / 10:41 AM – 10:45 AM

PAPER NUMBER/TITLE: 60 / “Pamidronate Treatment To Prevent Reoccurring Fractures In Children With Cerebral Palsy”

Julianne P. Sees, DO, Prakash Sitoula, MD, Kenneth J. Rogers, PhD, Heidi Kecshemethy, RD, Steven Bachrach, MD, and Freeman Miller, MD.

DAY/DATE/TIME OF PRESENTATION: 5/2/2013 / 11:39 AM-11:43 AM

PAPER NUMBER/TITLE: 37 / “Long-Term Outcome Of Early Spine Fusion For Scoliosis In Children With Cerebral Palsy”

Prakash Sitoula, MD, Kirk Dabney, MD, Kenneth Rogers, MD, Laurens Holmes Jr., MD, Freeman Miller, MD.

DAY/DATE/TIME OF PRESENTATION: 5/2/2013, 05:13 PM-05:17 PM

IFPOS/POSNA Day

IFPOS PAPER NUMBER/TITLE: 5 / Radiographic, Pain And Functional Quality Of Life Outcomes After Hip Reconstruction In Cerebral Palsy: A 20 Year Follow-Up Study. Freeman Miller, MD, Ali Karatas, MD, Arjun Dhawale, MD, Laurens Holmes, PhD, Kenneth Rogers, PhD, ATC, Kirk Dabney, MD

DAY/DATE/TIME OF PRESENTATION: 5/2/2013, 01:40 PM-01:44 PM

IFPOS PAPER NUMBER/TITLE : 37 / Long-Term Outcome Of Early Spine Fusion For Scoliosis In Children With Cerebral Palsy. Prakash Sitoula, MD, Kirk Dabney, MD, Freeman Miller, MD, Kenneth Rogers, PhD, ATC, Laurens Holmes, PhD.

DAY/DATE/TIME OF PRESENTATION: 5/2/2013, 5:13 PM-05:17 PM

e-Poster

Poster

Pediatric Hospitalist Co-Management Impact On The Care Of Medically Complex Children Undergoing Spinal Surgery” - Shah

IFPOS e-poster

Outcomes After Pelvic Osteotomy For Hip Dysplasia In Ambulatory Children With Cerebral Palsy. Freeman Miller, MD, Ali Karatas, MD, Arjun Dhawale, MD, Laurens Holmes, PhD, Kenneth Rogers, PhD, ATC, Kirk Dabney, MD

Podium Presentations

2013 Orthopedic Department Research and Education Activity Report

Wednesday, May 1

PEDIATRIC CERVICAL SPINE:

4:40 PM – 4:50 PM My Approach To The Down Syndrome Patient William G. Mackenzie, MD

5:00 – 5:15 Case Presentations/Panel Discussion Moderator: Firoz Miyanji, MD Panel: William G. Mackenzie, John B. Emans, MD, John P. Dormans, Suken A. Shah, MD

Lower Extremity and Neuromuscular Subspecialty Day

5:00 PM – 5:10 PM Management of Non-ambulatory GMFCS V Patients Freeman Miller, MD

2013 Orthopedic Department Research and Education Activity Report

[Gait and Clinical Movement Analysis Society, May 14-17, 2013 Cincinnati, OH](#)

Poster

1. MINIMAL DETECTABLE CHANGE IN FOOT-PRESSURE MEASUREMENTS IN TYPICALLY DEVELOPING CHILDREN. Tim Nailer, Chris Church, Nancy Lennon, John Henley, Aameeka George, Daveda Taylor, Angelica Montes, Freeman Miller
2. ALTERED GAIT KINEMATICS AND STRIDE DETECTION USING THE STEP WATCH™ IN YOUTH WITH CEREBRAL PALSY. Aameeka George BS, Nancy Lennon, MS, PT, John Henley PhD, Justin Connor, MD and Freeman Miller, MD
3. Crouch Gait Changes after Planovalgus Foot Deformity Correction in Ambulatory Children with Cerebral Palsy. Muayad Kadhim, MD, Laurens Holmes, Jr. PhD, DrPH, Freeman Miller, MD

Podium Presentation

1. Altered gait kinematics and stride detection using the Step Watch™ in youth with cerebral palsy. Aameeka George, Nancy Lennon, John Henley, Justin Connor, Freeman Miller
2. Crouch gait changes after planovalgus foot deformity correction in ambulatory children with cerebral palsy. Muayad Kadhim, Laurens Holmes Jr., Freeman Miller
3. **Tracking recovery from orthopedic surgery in youth with CP using the Step Watch™: a short-term case series.** Nancy Lennon, Aameeka George, Justin Connor, Freeman Miller

Course

Clinical Case Study Workshop

James J. McCarthy, MD, Jilda Vargus-Adams, MD, Freeman Miller, MD

2013 Orthopedic Department Research and Education Activity Report

[20th International Meeting on Advanced Spine Techniques • July 10-13, 2013 Vancouver, British Columbia, Canada](#)

e-Poster

260. Should Cerebral Palsy Patients Undergo Scoliosis Deformity Correction in the Winter Months? [Burt Yaszay, MD](#); Paul D. Sponseller, MD; Suken A. Shah, MD; Amer F. Samdani, MD; Firoz Miyanji, MD, FRCSC; Jahangir Asghar, MD; Peter O. Newton, MD; Harms Study Group

326. While Inconvenient, Baclofen Pumps Do Not Complicate Scoliosis Surgery in CP Patients [Burt Yaszay, MD](#); James D. Bomar, MPH; Paul D. Sponseller, MD; Suken A. Shah, MD; Jahangir Asghar, MD; Amer F. Samdani, MD; Tracey Bastrom, MA; Peter O. Newton, MD; Harms Study Group

329. Variations in Perioperative Care of Children with Cerebral Palsy Undergoing Surgery for Scoliosis: A Multi-Center Comparison of the Drivers of Cost and Outcome Brian Scannell, MD; [Peter O. Newton, MD](#); Burt Yaszay, MD; Suken A. Shah, MD; Paul D. Sponseller, MD; Firoz Miyanji, MD, FRCSC; Mark F. Abel, MD; Harry L. Shufflebarger, MD; Harms Study Group

2013 Orthopedic Department Research and Education Activity Report

[48th Scoliosis Research Society Annual Meeting and Course. September 18-21, 2013. Lyon, France.](#)

Pre-Meeting Course

Neuromuscular Scoliosis and Neurodegenerative Adult Spinal Deformity: Pediatric to Adulthood Treatment Techniques Session

Case Presentations: The Treatment of Pediatric Neurogenic Deformity: How Do Techniques Differ Around the World? Moderator: Steven M. Mardjetko, MD Panel: Suken A. Shah, MD; Lawrence L. Haber, MD; Alain Dimeglio, MD; Sean Molloy, MBBS, MSc, FRCS

Wednesday 9:09-9:29 AM

Techniques for the Preservation of Sagittal Balance: An International Perspective

Half-Day Course: Spinal Deformity in Myelomeningocele

Co-Chairs: Peter G. Gabos, MD & Muharrem Yazici, MD

Thursday 1:30-4:30 pm

Surgical Treatment of Scoliosis: What Techniques are Available Worldwide? Peter G. Gabos, MD

Thursday 2:45-3:00 pm

Abstract Presentation

1. Paper #90: Proximal Junctional Kyphosis in Cerebral Palsy. Risk factors and Guidelines. Paul D. Sponseller, MD; Suken A. Shah, MD; Burt Yaszay, MD; Peter O. Newton, MD; Mark F. Abel, MD; Tracey Bastrom, MA; Michelle C. Marks, PT, MA; Patrick J. Cahill, MD
Friday 4:16-4:20pm Forum 5/6
2. Paper #91: A Prospective Multicenter Study of Neuromonitoring for Cerebral Palsy Scoliosis: the Nature and Rate of Alerts and Recovery of Changes. Suken A. Shah, MD; Paul D. Sponseller, MD; Mark F. Abel, MD; Peter O. Newton, MD; Burt Yaszay, MD; Firoz Miyanji, MD, FRCSC; Amer F. Samdani, MD; Harms Study Group
Friday 4:30-4:34pm Forum 5/6

2013 Orthopedic Department Research and Education Activity Report

[American Academy of Cerebral Palsy and Developmental Medicine. October 16-19, 2013. Milwaukee, WI](#)

Podium - Abstract Presentations

D9 - THE PHYSIOLOGIC STRAIN OF WALKING IN CHILDREN AND YOUTH WITH CEREBRAL PALSY [Nancy Lennon, M.S., P.T.; Freeman Miller, MD; Kirk Dabney, MD; John Henley, PhD; Katherine Sommers, B.S. American Academy of Cerebral Palsy and Developmental Medicine. October 16-19, 2013. Milwaukee, WI](#)

H5 - MEASURING PHYSICAL ACTIVITY IN YOUTH WITH CEREBRAL PALSY WHO ARE AMBULATORY

[Margaret E. O'Neil, PhD PT MPH; Maria Fragala-Pinkham, DPT, MS; Jeffrey Forman, MD; Nancy Lennon, MS PT; Aameeka George, BS; Stewart Trost, PhD](#)

Poster – Paper

DP1 - TRACKING RECOVERY FROM ORTHOPEDIC SURGERY IN YOUTH WITH CEREBRAL PALSY USING THE STEP WATCH™ [Aameeka George, BS; Nancy Lennon, MPT](#)

Poster - Electronic

Physician Educational and Presentation Activities

Dr. Connor updated 04Nov2013

British Cerebral Palsy Course, October 14-15, 2013, Nemours-AIDHC, Wilmington, DE

1. Prevention of hip dislocation in patients with cerebral palsy
2. Management of foot disorders in patients with cerebral palsy

Poster- paper No Information Provided

Poster- electronic

E119 Holmes, L. Jr. PhD, DrPH¹, Joshi, A.^{1,2,3}, Lorenz, Z.^{1,5}, Miller, F. MD¹, Dabney, K. MD¹, Connor, J MD¹, Karatas, A.F. MD¹ "Discovered Dead During Sleep Phenomenon in the Causal Pathway of Pediatric Cerebral Palsy Survival" [European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

Dr. Dabney updated 18oct2013

Manuscripts

- (7) Dhawale AA, Karatas AF, Holmes L, Rogers KJ, Dabney KW, Miller F. Long-term outcome of reconstruction of the hip in young children with cerebral palsy. Bone Joint J 2013 Feb;95-B(2):259-65. PMID 23365039
- (19) Robinson,K.G.; Mendonca,J.L.; Militar,J.L.; Theroux,M.C.; Dabney,K.W.; Shah,S.A.; Miller,F.; Akins,R.E. Disruption of Basal lamina components in neuromotor synapses of children with spastic quadriplegic cerebral palsy. PLoS One 2013 Aug 16;8(8):e70288. PMID 23976945

Poster- electronic

E115 Prakash Sitoula, Kirk Dabney, Laurens Holmes, Kenneth Rogers, Freeman Miller. "The Long-term Outcomes of Early Spine Fusion for Scoliosis in Children with Cerebral Palsy" [European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

E116 Ali Fuat Karatas, MD¹; Arjun Dhawale, MD¹; Laurens Holmes, PhD, DrPH¹; Kenneth Rogers, PhD, ATC¹; Kirk W Dabney, MD¹; Freeman Miller, MD¹. Radiographic, Pain and Functional Quality of Life Outcomes after Hip Reconstruction in Cerebral Palsy: A 20 Year Follow-Up Study [European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

E119 Holmes, L. Jr. PhD, DrPH¹, Joshi, A.^{1,2,3}, Lorenz, Z.^{1,5}, Miller, F. MD¹, Dabney, K. MD¹, Connor, J MD¹, Karatas, A.F. MD¹ "Discovered Dead During Sleep Phenomenon in the Causal Pathway of Pediatric Cerebral Palsy Survival" [European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

E121 Ali Fuat Karatas, MD¹; Arjun Dhawale, MD¹; Laurens Holmes, PhD, DrPH¹; Kenneth Rogers, PhD, ATC¹; Kirk W Dabney, MD¹; Freeman Miller, MD¹. "Outcome after Pelvic Osteotomy for Hip Dysplasia in Ambulatory Children with Cerebral Palsy" [European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

2013 Orthopedic Department Research and Education Activity Report

Dr. Miller updated 04Nov2013

Awards

2013 AACPDMD mentorship award

<http://www.aacpdm.org/UserFiles/file/AM13-Final-Program.pdf>

Book Chapters –

Manual of Pediatric Balance Disorders – Section II, Clinical Evaluation: Chapter 9, Gait Analysis;
Pages 109-115; Freeman Miller, John Henley, Chris Church

Funding

1. Miller, F. Rahman, T, & Rogers, K. Swank family foundation grant for \$1,000,000.00 to support Neuro-Orthopedic program

Grand Rounds speaker

1. Miller, F, Visiting Professor Section of Neuro-Orthopedics, University Orthopadische Klinik, Heidelberg, Germany April 15 and 16, 2013
2. Miller, F, Visiting Professor, and presentation, - Management of Planovalgus Feet in Children with Cerebral Palsy. Orthopadische Kinder Klinik, Aschau, Germany, April 22 and 23, 2013
3. Miller, F. Cerebral Palsy Overview and Orthopedic Management, Physiatry Residents Education, Jefferson Medical School, Philadelphia, PA. May 8, 213
4. Miller, F. Gait Analysis and Diagnostic Evaluation of Gait, Physiatry Residents Education, Jefferson Medical School, Philadelphia, PA. May 8, 213
5. Miller, F Management of Spasticity, Visiting Professor, Chongqing University Hospital, Chongqing, China, September 5, 2013
6. Miller, F Hip Problems in Children with Cerebral Palsy, Hunan Childrens Hospital, Changsha, CHina September 9, 2013
7. Miller, F Foot Problems in Children with Cerebral Palsy, Hunan Childrens Hospital, Changsha, CHina September 9, 2013
8. Miller, F Visiting Professor, Yueyang Hospital of Integrated Traditional Chinese Medicine and Western Medicine. September 13 to 16, 2013
9. Miller, F Stiff knee gait in children with CP, Visiting Professor, Rehabilitation Institute of Chicago, Northwestern University, Chicago, IL Nov. 8, 2013
10. Miller, F Managing the hip in CP, Visiting Professor, Rehabilitation Institute of Chicago, Northwestern University, Chicago, IL Nov. 8, 2013
11. Miller, F Planovalgus feet in children with CP, Visiting Professor, Rehabilitation Institute of Chicago, Northwestern University, Chicago, IL Nov. 8, 2013

Manuscripts –

Ridge,ST; Henley,J; Manal,K; Miller,F; Richards, JG. Kinematic and kinetic analysis of planned and unplanned gait termination in children; Gait & Posture Volume 37, Issue 2, February 2013 ISSN0966-6362:

- (6) Dhawale,A.A.; Church,C.; Henley,J.; Holmes,L.,Jr.; Thacker,M.M.; Mackenzie,W.G.; Miller,F. Gait pattern and lower extremity alignment in children with Morquio syndrome. J Pediatr Orthop B 2013 Jan;22(1):59-62. PMID 23010763

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- (7) Dhawale AA, Karatas AF, Holmes L, Rogers KJ, Dabney KW, Miller F. Long-term outcome of reconstruction of the hip in young children with cerebral palsy. Bone Joint J 2013 Feb;95-B(2):259-65. PMID 23365039
- (9) Haumont,T.; Church,C.; Hager,S.; Cornes,M.J.; Poljak,D.; Lennon,N.; Henley,J.; Taylor,D.; Niiler,T.; Miller,F. Flexed-knee gait in children with cerebral palsy: a 10-year follow-up study. J Child Orthop. 6-12-2013. DOI 10.1007/s11832-013-0505-8
- (12) Kadhim M, Holmes L, Jr., Miller F. Long-term Outcome of Planovalgus Foot Surgical Correction in Children with Cerebral Palsy. J Foot Ankle Surg 2013 Jul 25;(13):10. PMID 23890990
- (19) Robinson,K.G.; Mendonca,J.L.; Militar,J.L.; Theroux,M.C.; Dabney,K.W.; Shah,S.A.; Miller,F.; Akins,R.E. Disruption of Basal lamina components in neuromotor synapses of children with spastic quadriplegic cerebral palsy. PLoS One 2013 Aug 16;8(8):e70288. PMID 23976945

Memberships

None provided

Meetings attended –

3/4/13–3/15/13 – [7th Annual Indian Cerebral Palsy Meeting](#), Lucknow, India

4/15/13–4/19/13 – [European Pediatric Orthopaedic Society](#), Helsinki, Finland

4/22/13-4/26/13 – Ireland Cerebral Palsy Meeting, Cork, Ireland

4/29/13-5/3/13 – [Pediatric Orthopaedic Practitioner Society](#) and [Pediatric Society of North America](#), Toronto, Ontario, Canada,

5/13-5/17 - [Gait and Clinical Movement Analysis Society](#), Cincinnati, OH

5/23/13 – Del Society for Neuroscience Research Symposium/Retreat (Nemours)

6/6/13 - The 12th Meeting of the Hospital Ortopedico Infantil, Caracas, Venezuela

6/17/13 - Cerebral Palsy Course: Orthopaedic management and treatment in children, Skovade, Sweden

9/14/13 - Yueyang Hospital Gait Course, Shanghai, China

10/14-15/13 - British CP Society, Wilmington, DE

10/16-19/13 - [American Academy for Cerebral Palsy and Developmental Medicine](#), Milwaukee, WI

Moderator

Podium presentations- abstract

PAPER NUMBER/TITLE: 60 / “Pamidronate Treatment To Prevent Reoccurring Fractures In Children With Cerebral Palsy”

Julianne P. Sees, DO, Prakash Sitoula, MD, Kenneth J. Rogers, PhD, Heidi Kecshemethy, RD, Steven Bachrach, MD, and Freeman Miller, MD.

DAY/DATE/TIME OF PRESENTATION: 5/2/2013 / 11:39 AM-11:43 AM [Pediatric Orthopaedic Society of North America May 1-4, 2013, Toronto, ON, CA](#)

IFPOS PAPER NUMBER/TITLE: 5 / Radiographic, Pain And Functional Quality Of Life Outcomes After Hip Reconstruction In Cerebral Palsy: A 20 Year Follow-Up Study. Freeman Miller, MD, Ali Karatas, MD, Arjun Dhawale, MD, Laurens Holmes, PhD, Kenneth Rogers, PhD, ATC, Kirk Dabney, MD DAY/DATE/TIME OF PRESENTATION: 5/2/2013, 01:40 PM-01:44 PM [Pediatric Orthopaedic Society of North America May 1-4, 2013, Toronto, ON, CA](#)

IFPOS PAPER NUMBER/TITLE : 37 / Long-Term Outcome Of Early Spine Fusion For Scoliosis In Children With Cerebral Palsy. Prakash Sitoula, MD, Kirk Dabney, MD, Freeman Miller, MD, Kenneth Rogers, PhD, ATC, Laurens Holmes, PhD.

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DAY/DATE/TIME OF PRESENTATION: 5/2/2013, 5:13 PM-05:17 PM [Pediatric Orthopaedic Society of North America May 1-4, 2013, Toronto, ON, CA](#)

May 3, 2013

PAPER TITLE: Assessment For Deep Wound Infections Following Pediatric Scoliosis Surgery
Suken Shah, MD, Sina Pourtaheri, MD, Freeman Miller, MD, Kirk W Dabney, MD, Susan Dubowsky, PA-C, Laurens Holmes, PhD DAY/DATE/TIME OF PRESENTATION: 5/3/2013, 02:40 PM-02:44 PM
[Pediatric Orthopaedic Society of North America May 1-4, 2013, Toronto, ON, CA](#)

1. Altered gait kinematics and stride detection using the Step Watch™ in youth with cerebral palsy. Ameeka George, Nancy Lennon, John Henley, Justin Connor, Freeman Miller. [Gait and Clinical Movement Analysis Society, May 14-17, 2013 Cincinnati, OH](#)
2. Crouch gait changes after planovalgus foot deformity correction in ambulatory children with cerebral palsy. Muayad Kadhim, Laurens Holmes Jr., Freeman Miller. [Gait and Clinical Movement Analysis Society, May 14-17, 2013 Cincinnati, OH](#)
3. Tracking recovery from orthopedic surgery in youth with CP using the Step Watch™: a short-term case series. Nancy Lennon, Ameeka George, Justin Connor, Freeman Miller. [Gait and Clinical Movement Analysis Society, May 14-17, 2013 Cincinnati, OH](#)
4. Clinical Case Study Workshop. James J. McCarthy, MD, Jilda Vargus-Adams, MD, Freeman Miller, MD. [Gait and Clinical Movement Analysis Society, May 14-17, 2013 Cincinnati, OH](#)
5. Validation and Reliability of a Single Leg Squat Test for Use with Adolescent Runners. Cristine Agresta, Chris Church, Angelica Montes, John Henley, Tim Duer, Nancy Lennon, Richard, Kruse, Kathleen O'Brien, Freeman Miller. 60th Annual Meeting and 4th World Congress on Exercise is Medicine of the American College of Sports Medicine, Indianapolis, Indiana, May 28-June 1, 2013.

THE PHYSIOLOGIC STRAIN OF WALKING IN CHILDREN AND YOUTH WITH CEREBRAL PALSY [Nancy Lennon, M.S., P.T.](#); Freeman Miller, MD; Kirk Dabney, MD; John Henley, PhD; Katherine Sommers, B.S. [American Academy of Cerebral Palsy and Developmental Medicine. October 16-19, 2013. Milwaukee, WI](#)

Podium presentations-topic

March 4/15, 2013 7th Indian Association of Cerebral Meeting, Lucknow, India,

1. Miller, F, Sussman, M, Presedo, A, Clinical Gait Analysis Course and Case Discussion, 7th Indian Association of Cerebral Meeting, Lucknow, India, March 7, 2013
2. Miller, F, Management of Equinus Gait in CP, 7th Indian Association of Cerebral Meeting, Lucknow, India, March 8, 2013
3. Miller, F Hip Dysplasia in CP. 7th Indian Association of Cerebral Meeting, Lucknow, India, March 8, 2013
4. Miller, F Scoliosis Management . 7th Indian Association of Cerebral Meeting, Lucknow, India, March 9, 2013
5. Miller, F Foot Problems in CP. 7th Indian Association of Cerebral Meeting, Lucknow, India, March 10, 2013
6. Miller, F Crouch and Stiff Knee Gait. 7th Indian Association of Cerebral Meeting, Lucknow, India, March 11, 2013
7. Miller, F, Orthopedic Advancements in CP Management; Plenary Lecture . 7th Indian Association of Cerebral Meeting, Lucknow, India, March 11, 2013

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Pediatric Spasticity and Orthopedic Management Conference, Cork, Ireland, April 26,

1. Miller, F, Hip Surveillance - Screening, Management and Indications, Pediatric Spasticity and Orthopedic Management Conference, Cork, Ireland, April 26,
2. Miller, F, Gait Management, Evidence and Practice, Pediatric Spasticity and Orthopedic Management Conference, Cork, Ireland, April 26, 2013
3. Miller, F, Managing Foot Deformities in Children with Cerebral Palsy, Pediatric Spasticity and Orthopedic Management Conference, Cork, Ireland, April 26, 2013
4. Miller, F, Spasticity Management in Cerebral Palsy, Pediatric Spasticity and Orthopedic Management Conference, Cork, Ireland, April 26, 2013

Miller, F Orthopedic Management of Children with Cerebral Palsy, Pediatric Orthopedic PA-NP Association Meeting, Toronto, Not, Canada, April 30, 2013

Miller, F Management of Non-Ambulatory GMFCS V Patients, POSNA Meeting, Toronto, Ont. Canada May 2, 2013

The 12th Meeting of the Hospital Ortopedico Infantil, Caracas, Venezuela June 6 2013

1. Miller, F Deformidades del pie en Paralisis Cerebral: Pie Plano Valgo, Equino y vary The 12th Meeting of the Hospital Ortopedico Infantil, Caracas, Venezuela June 6 2013
2. Miller, F Manejo de la Espasticidad, rol de la Toxina Botulinica Tipo A, Baclofen Intratecal y Rizotomia, The 12th Meeting of the Hospital Ortopedico Infantil, Caracas, Venezuela June 6 2013
3. Miller, F Deformidades Espinales Paraliticas y el Manejo de Estas The 12th Meeting of the Hospital Ortopedico Infantil, Caracas, Venezuela June 6 2013
4. Miller, F Monitoreo y Tratamiento de las Luxaciones de Cadera en Paralisis Cerebral, The 12th Meeting of the Hospital Ortopedico Infantil, Caracas, Venezuela June 7 2013
5. Miller, F Tratamiento de la Marcha Agazapada y sue Problemas en la Fase de Balanceo: Experiencia del Instituto Alfred duPont, The 12th Meeting of the Hospital Ortopedico Infantil, Caracas, Venezuela June 7 2013
6. Miller, F Plan de Tratamiento en el Miembro Superior Espastico The 12th Meeting of the Hospital Ortopedico Infantil, Caracas, Venezuela June 7 2013

Cerebral Palsy Course: Orthopaedic management and treatment in children, Skovade, Sweden June 17, 2013

1. Miller, F, Varus Foot deformities and Bunion: Cerebral Palsy Course: Orthopaedic management and treatment in children, Skovade, Sweden June 17, 2013
2. Miller, F, Valgus and Equinus Foot Deformities Cerebral Palsy Course: Orthopaedic management and treatment in children, Skovade, Sweden June 17, 2013
3. Miller, F, Hips in ambulatory Children; Cerebral Palsy Course: Orthopaedic management and treatment in children, Skovade, Sweden June 18, 2013
4. Miller, F, Crouch in young and older ambulators; Cerebral Palsy Course: Orthopaedic management and treatment in children, Skovade, Sweden June 18, 2013
5. Miller, F, Stiff knee gait / Swing phase problems; Cerebral Palsy Course: Orthopaedic management and treatment in children, Skovade Sweden June 18, 2013
6. Miller, F Spasticity Management and Discussion: Cerebral Palsy Course: Orthopaedic

2013 Orthopedic Department Research and Education Activity Report

management and treatment in children, Skovade, Sweden June 19, 2013,

7. Miller, F Bone pathology in Children with CP; Cerebral Palsy Course: Orthopaedic management and treatment in children, Skovade, Sweden June 19, 2013
8. Miller, F Hip Management in Non-ambulators and discussion: Cerebral Palsy Course: Orthopaedic management and treatment in children, Skovade, Sweden June 19, 2013

Miller, F Orthopedic Concerns in Children with PMD, PMD Symposium, AI duPont Hospital for Children, Wilmington DE August 3, 2013

Yueyang Hospital Gait Course, Shanghai, China Sept 14, 2013

1. Miller, F Understanding Normal Gait and Pathologic Assessment, Yueyang Hospital Gait Course, Shanghai, China Sept 14, 2013
2. Miller, F Gait Problems in Children with Cerebral Palsy, Yueyang Hospital Gait Course, Shanghai, China Sept 14, 2013

Miller, F duPont hip Protocol for prevention of hip dislocation in children with CP. British CP Society, Wilmington, DE Oct 14, 2013

Poster- paper

Muayad Kadhim, MD, Larry Holmes, Jr. PhD, DrPH, Freeman Miller, MD. Crouch Gait Changes after Planovalgus Foot Deformity Correction in Ambulatory Children with Cerebral Palsy. April 20, 2013.

[European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

Julie Sees, Prakash Sitoula, Kenneth Rogers, Freeman Miller, Heidi Kecskemethy, Steve Bacarach. Pamidronate treatment to prevent reoccurring fractures in Children with Cerebral Palsy. April 20, 2013.

[European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

1. Validation and Reliability of a Single Leg Squat Test for Use with Adolescent Athletes. Cristine Agresta¹, Chris Church², Angelica Montes², John Henley², Tim Duer², Nancy Lennon², Richard, Kruse², Kathleen O'Brien², Freeman Miller². [Gait and Clinical Movement Analysis Society, May 14-17, 2013 Cincinnati, OH](#)
2. MINIMAL DETECTABLE CHANGE IN FOOT-PRESSURE MEASUREMENTS IN TYPICALLY DEVELOPING CHILDREN. Tim Niiler, Chris Church, Nancy Lennon, John Henley, Aameka George, Daveda Taylor, Angelica Montes, Freeman Miller. [Gait and Clinical Movement Analysis Society, May 14-17, 2013 Cincinnati, OH](#)
3. ALTERED GAIT KINEMATICS AND STRIDE DETECTION USING THE STEP WATCH™ IN YOUTH WITH CEREBRAL PALSY. Aameka George BS, Nancy Lennon, MS, PT, John Henley PhD, Justin Connor, MD and Freeman Miller, MD. [Gait and Clinical Movement Analysis Society, May 14-17, 2013 Cincinnati, OH](#)
4. Crouch Gait Changes after Planovalgus Foot Deformity Correction in Ambulatory Children with Cerebral Palsy. Muayad Kadhim, MD, Laurens Holmes, Jr. PhD, DrPH, Freeman Miller, MD. [Gait and Clinical Movement Analysis Society, May 14-17, 2013 Cincinnati, OH](#)

Poster- electronic

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E115 Prakash Sitoula, Kirk Dabney, Laurens Holmes, Kenneth Rogers, Freeman Miller. "The Long-term Outcomes of Early Spine Fusion for Scoliosis in Children with Cerebral Palsy" [European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

E116 Ali Fuat Karatas, MD¹; Arjun Dhawale, MD¹; Laurens Holmes, PhD, DrPH¹; Kenneth Rogers, PhD, ATC¹; Kirk W Dabney, MD¹; Freeman Miller, MD¹. Radiographic, Pain and Functional Quality of Life Outcomes after Hip Reconstruction in Cerebral Palsy: A 20 Year Follow-Up Study [European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

E119 Holmes, L. Jr. PhD, DrPH¹, Joshi, A.^{1,2,3}, Lorenz, Z.^{1,5}, Miller, F. MD¹, Dabney, K. MD¹, Connor, J MD¹, Karatas, A.F. MD¹ "Discovered Dead During Sleep Phenomenon in the Causal Pathway of Pediatric Cerebral Palsy Survival" [European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

E121 Ali Fuat Karatas, MD¹; Arjun Dhawale, MD¹; Laurens Holmes, PhD, DrPH¹; Kenneth Rogers, PhD, ATC¹; Kirk W Dabney, MD¹; Freeman Miller, MD¹. "Outcome after Pelvic Osteotomy for Hip Dysplasia in Ambulatory Children with Cerebral Palsy" [European Paediatric Orthopaedic Society, April 17-20, 2013, Athens Greece](#)

Outcomes After Pelvic Osteotomy For Hip Dysplasia In Ambulatory Children With Cerebral Palsy. Freeman Miller, MD, Ali Karatas, MD, Arjun Dhawale, MD, Laurens Holmes, PhD, Kenneth Rogers, PhD, ATC, Kirk Dabney, MD. IFPOS-[Paediatric Orthopaedic Society of North America May 1-4, 2013, Toronto, ON, CA](#)

Significant Events –

Article in: LER (Lower Extremity Review); February 2013/Volume 5/Number 2/Pages 33-37,
Hemiplegic CP: Effects in the uninvolved limb-F. Miller, MD, J. Sees, DO

Meeting Organizer

F Miller -Local Host and Meeting planner - British CP Society, Wilmington DE Oct 14 and 15 2013

Dr. Shah updated 18oct2013

Manuscripts

- (19) Robinson,K.G.; Mendonca,J.L.; Militar,J.L.; Theroux,M.C.; Dabney,K.W.; Shah,S.A.; Miller,F.; Akins,R.E. Disruption of Basal lamina components in neuromotor synapses of children with spastic quadriplegic cerebral palsy. PLoS One 2013 Aug 16;8(8):e70288. PMID 23976945
- (22) [Sponseller PD](#), [Jain A](#), [Shah SA](#), [Samdani A](#), [Yaszay B](#), [Newton PO](#), [Thaxton LM](#), [Bastrom TP](#), [Marks MC](#). Deep Wound Infections after Spinal Fusion in Children with Cerebral Palsy: A Prospective Cohort Study. Spine 2013;Aug 16 ePub ahead of Print. PMID: 23963019

Podium presentations-topic

PAPER NUMBER/TITLE: 52 / Hip Subluxation, Pelvic Obliquity, And Scoliosis In The CP Population: A Random Triad Or A Predictable Relationship?

Firoz Miyanji, MD, Amer Samdani, Peter F. Sturm, MD, Suken A. Shah, MD, Paul D. Sponseller, MD, Peter O. Newton, MD

DAY/DATE/TIME OF PRESENTATION: 5/2/2013 / 10:41 AM – 10:45 AM [Pediatric Orthopaedic Society of North America May 1-4, 2013, Toronto, ON, CA](#)

1. Paper #90: Proximal Junctional Kyphosis in Cerebral Palsy. Risk factors and Guidelines. [Paul D. Sponseller, MD](#); Suken A. Shah, MD; Burt Yaszay, MD; Peter O. Newton, MD; Mark F. Abel, MD; Tracey Bastrom, MA; Michelle C. Marks, PT, MA; Patrick J. Cahill, MD
Friday 4:16-4:20pm Forum 5/6 [48th Scoliosis Research Society Annual Meeting and Course. September 18-21, 2013. Lyon, France.](#)
2. Paper #91: A Prospective Multicenter Study of Neuromonitoring for Cerebral Palsy Scoliosis: the Nature and Rate of Alerts and Recovery of Changes. [Suken A. Shah, MD](#); Paul D. Sponseller, MD; Mark F. Abel, MD; Peter O. Newton, MD; Burt Yaszay, MD; Firoz Miyanji, MD, FRCSC; Amer F. Samdani, MD; Harms Study Group
Friday 4:30-4:34pm Forum 5/6 [48th Scoliosis Research Society Annual Meeting and Course. September 18-21, 2013. Lyon, France.](#)

Podium presentations-topic

Neuromuscular Scoliosis and Neurodegenerative Adult Spinal Deformity: Pediatric to Adulthood Treatment Techniques Session

Case Presentations: The Treatment of Pediatric Neurogenic Deformity: How Do Techniques Differ Around the World? Moderator: Steven M. Mardjetko, MD Panel: Suken A. Shah, MD; Lawrence L. Haber, MD; Alain Dimeglio, MD; Sean Molloy, MBBS, MSc, FRCS

Wednesday 9:09-9:29 AM [48th Scoliosis Research Society Annual Meeting and Course. September 18-21, 2013. Lyon, France.](#)

Poster- paper

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260. Should Cerebral Palsy Patients Undergo Scoliosis Deformity Correction in the Winter Months? Burt Yaszay, MD; Paul D. Sponseller, MD; Suken A. Shah, MD; Amer F. Samdani, MD; Firoz Miyanji, MD, FRCSC; Jahangir Asghar, MD; Peter O. Newton, MD; Harms Study Group [20th International Meeting on Advanced Spine Techniques • July 10-13, 2013 Vancouver, British Columbia, Canada](#)

326. While Inconvenient, Baclofen Pumps Do Not Complicate Scoliosis Surgery in CP Patients Burt Yaszay, MD; James D. Bomar, MPH; Paul D. Sponseller, MD; Suken A. Shah, MD; Jahangir Asghar, MD; Amer F. Samdani, MD; Tracey Bastrom, MA; Peter O. Newton, MD; Harms Study Group [20th International Meeting on Advanced Spine Techniques • July 10-13, 2013 Vancouver, British Columbia, Canada](#)

329. Variations in Perioperative Care of Children with Cerebral Palsy Undergoing Surgery for Scoliosis: A Multi-Center Comparison of the Drivers of Cost and Outcome Brian Scannell, MD; Peter O. Newton, MD; Burt Yaszay, MD; Suken A. Shah, MD; Paul D. Sponseller, MD; Firoz Miyanji, MD, FRCSC; Mark F. Abel, MD; Harry L. Shufflebarger, MD; Harms Study Group [20th International Meeting on Advanced Spine Techniques • July 10-13, 2013 Vancouver, British Columbia, Canada](#)

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