

Research Presentations, Abstracts & Publications

An Evaluation of the Loading Forces Across the Hip and Knee Contributing to Early Knee Joint Degeneration; Virginia Orthopaedic Society and Virginia Physical Therapy Association, 2009. William Nordt, M.D.; Susan Blair, MS, PT; Katherine E. Webb M.Ed, ATC; Gary Sutton, PT, MS, SCS, OCS, ATC, CSCS; Leah Taylor, PT; George Masiello, BSEET

Using Motion-Capture Technology to Guide Treatment in Cerebral Palsy; March 2008 Issue of Cerebral Palsy Magazine; Kimberly Wesdock, PT, MS, PCS, BioMotion of America LLC

Sorting Out Dystonia and Spasticity in Cerebral Palsy Using 3-D Gait Analysis: Implications for Stiff-Knee Gait, Toe Walking, and Rhizotomy Candidates

Wesdock K, Blair S, Rasnake EB, Masiello G, Monasterio E, Sharps C
American Academy for Cerebral Palsy and Developmental Medicine 61st Annual Meeting
Vancouver, Canada October 2007 (Poster presentation)

Alternatives to KAFOs and Crutches in L4 Myelomeningocele: Thinking (Anatomically) Outside the Box

Wesdock K, Blair S, Masiello G, Sharps C
Gait and Clinical Movement Analysis Society 12th Annual Meeting
Springfield, MA April 2007 (Podium presentation)

Dystonia and Spasticity in Cerebral Palsy: Expanding the Treatment Plan to Optimize Gait Efficiency

Wesdock K, Blair S, Masiello G, Sharps C
Gait and Clinical Movement Analysis Society 12th Annual Meeting
Springfield, MA April 2007 (Poster presentation)

Upper Limb Motion Analysis for Surgical Decision-Making in Brachial Plexus Palsy: A Challenging Case Study

Wesdock K, Blair S, Masiello G, Sharps C
Gait and Clinical Movement Analysis Society 12th Annual Meeting
Springfield, MA April 2007 (Poster presentation)

Validation of a Clinically Useful Kinematic Model for Upper Limb Motion Analysis in Hemiplegic Cerebral Palsy and Brachial Plexus Palsy

Wesdock K, Masiello G, Rasnake EB, Blair S, Sharps C
Joint European Movement Analysis Conference (ESMAC + GCMAS 11th Annual Meeting)
Amsterdam September 2006

Improving Hand Function in Childhood Scleroderma Using Continuous Passive Motion

Wesdock K, Gewanter H, Shah S, Masiello G, Sharps C
Arthritis College of Rheumatology Annual Conference (ACR/ARHP)
Washington, DC November 2006

Brachial Plexus Birth Palsy: Pre- and Post-Operative Upper Limb Motion Analysis - A Case Report

Wesdock K, Withers C, Rasnake E, Masiello G, Monasterio E, Sharps C
Virginia Physical Therapy Association 2005 Annual Conference
Portsmouth, Virginia: October 2005 (Poster presentation)

[Comprehensive Upper Limb Motion Analysis for Treatment Planning and Outcome Documentation in Individuals with Cerebral Palsy and Traumatic Brain Injury](#)

Wesdock K, Kott K, Rasnake E, Masiello G, Monasterio E, Sharps C
III STEP: Linking Movement Science and Intervention (Summer Institute)
Salt Lake City, Utah: July 2005 (Poster presentation)

[Comprehensive Upper Limb Motion Analysis: Surgical Decision-Making for Individuals with Cerebral Palsy, Traumatic Brain Injury & Brachial Plexus Palsy](#)

Sharps C, Blank J, Tuten HR, Wesdock K, Rasnake ER, Masiello G
Virginia Orthopaedic Society 58th Annual Meeting
Hot Springs, Virginia May 2005 (Podium presentation)

[Upper Extremity Motion Analysis in Cerebral Palsy](#)

Sharps C, Wesdock K, Masiello G
Virginia Orthopaedic Society 57th Annual Meeting
Norfolk, Virginia May 2004 (Podium presentation)

[Upper Extremity Motion Analysis in Cerebral Palsy](#)

Wesdock K, Masiello G, Sharps C
Gait and Clinical Movement Analysis Society 9th Annual Meeting
Lexington, Kentucky April 2004 (Poster presentation)

Wesdock K, Edge A. [Effects of Wedged Shoes and Ankle-Foot Orthoses on Standing Balance and Knee Extension in Children with Cerebral Palsy who Crouch.](#) *Pediatric Physical Therapy* 2003;15:221-231

Wesdock K, Dominguez M. [Backpack Impact on Musculoskeletal Pain: Using Evidence to Make Changes.](#) *Orthopaedic Physical Therapy Practice* 2003;15(3):21-25

[Psychogenic Gait: When It Is and When It Isn't Correlating the Physical Exam with Dynamic Gait Data](#)

Wesdock K, Blair S, Masiello G, Nogi J
Gait and Clinical Movement Analysis Society 8th Annual Meeting Wilmington, Delaware - May 2003 (Poster presentation)

[The Relationship of Backpacks, Body Type, and Physical vs. Sedentary Activity with Musculoskeletal Pain in School Children](#)

Wesdock K *Pediatr Phys Ther* 2003;15:64-65
American Physical Therapy Association Combined Sections Meeting
Tampa, Florida February 2003 (Poster presentation)

[The Effects of Backpack Use on Posture and Gait in School-Age Children A Pilot Study](#)

Wesdock K, Henley J, Masiello G, Nogi J *Gait Posture* 2002;16(S1):S43-44
Gait and Clinical Movement Analysis Society 7th Annual Meeting Chattanooga, Tennessee April 2002 (Poster presentation)

[A New Three-Segment Foot Model for Gait Analysis in Children and Adults*](#)

Henley J, Wesdock K, Masiello G, Nogi J *Gait Posture* 2001;13(3):284-285
Gait and Clinical Movement Analysis Society 6th Annual Meeting Sacramento, California April 2001 (Poster presentation)

* *Won Poster Award for GCMAS 2001 Conference*

Anteromedial Rotatory Instability of the Knee in Cerebral Palsy: A Phenomenon after Rhizotomy?

Wesdock K, Masiello G, Henley J, Nogi J *Gait Posture* 2000;11(2):145
Gait and Clinical Movement Analysis Society 5th Annual Meeting
Mayo Clinic - Rochester, Minnesota April 2000 (Poster presentation)

The Influence of Rootlets Sectioned for Rhizotomy on Gait and Physical Findings

Wesdock K, Wheeler C, Masiello G, Ward J, Nogi J *Dev Med Child Neurol* 1999;41(S80):27
American Academy for Cerebral Palsy & Developmental Medicine 53rd Annual Meeting
Washington, DC September 1999 (Poster presentation)

To Brace or Not to Brace in CP? Question Answered Using Gait Analysis

Wesdock K, Blair S, Masiello G, Nogi J
Association of Childrens Prosthetic-Orthotic Clinics Annual Meeting
St. Petersburg Beach, Florida May 1999 (Poster presentation)

Orthosis Change in Myelomeningocele: Kinematic and Kinetic Analysis

Wesdock K, Masiello G, Nogi J
Association of Childrens Prosthetic-Orthotic Clinics Annual Meeting
St. Petersburg Beach, Florida May 1999 (Poster presentation)

Effects of Wedged Shoes and Ankle Foot Orthoses on Standing Balance and Knee Alignment in Children with Cerebral Palsy

Wesdock K, Nogi J
Association of Childrens Prosthetic-Orthotic Clinics Annual Meeting
St. Petersburg Beach, Florida May 1999 (Podium presentation)

Does Rhizotomy Lead to Crouched Gait in Cerebral Palsy?

Wesdock K, Wheeler C, Masiello G, Ward J, Nogi J *Gait Posture* 1999;9(2):109-110
Gait and Clinical Movement Analysis Society 4th Annual Meeting
Dallas, Texas March 1999 (Podium presentation)

Two Case Studies: 7 and 9 Years After Rhizotomy

Wesdock K, Mayhew J, Blair S, Masiello G, Ward J, Nogi J *Gait Posture* 1999;9(2):143
Gait and Clinical Movement Analysis Society 4th Annual Meeting
Dallas, Texas March 1999 (Poster presentation)

Test-Retest Reliability of Timed Standing Balance and Knee Alignment in Children with Cerebral Palsy Who Crouch

Wesdock K *Pediatr Phys Ther* 1996; 8(4):178
American Physical Therapy Association Combined Sections Meeting
Dallas, Texas - February 1997 (Podium presentation)