Gait-Specific Publications

**Gait Analysis of the Triceps Surae in Cerebral Palsy: A Preoperative and Postoperative Clinical and Electromyographic Study**

PERRY, J., HOFFER, M. M., Giovan, P. E. T. E. R., ANTONELLI, D., & GREENBERG, R. (1974). Gait analysis of the triceps surae in cerebral palsy: a preoperative and postoperative clinical and electromyographic study. *JBJS*, *56*(3), 511-520.

**Pattern Recognition of Multiple EMG Signals Applied to the Description of Human Gait**

Bekey, G. A., Chang, C. W., Perry, J., & Hoffer, M. M. (1977). Pattern recognition of multiple EMG signals applied to the description of human gait. *Proceedings of the IEEE*, *65*(5), 674-681.

**Surgical Correction of Gait Abnormalities Following Stroke**

WATERS, R. L., PERRY, J., & GARLAND, D. (1978). Surgical correction of gait abnormalities following stroke. *Clinical Orthopaedics and Related Research (1976-2007)*, *131*, 54-63.

**Footswitch Definition of Basic Gait Characteristics**

Perry, J., Bontgrager, E., & Antonelli, D. (1979). Footswitch definition of basic gait characteristics. In *Disability: Proceedings of a seminar on rehabilitation of the disabled in relation to clinical and biomechanical aspects, costs and effectiveness, held at the University of Strathclyde, Glasgow, in August, 1978* (pp. 131-135). London: Palgrave Macmillan UK.

**Stiff-Legged Gait in Hemiplegia: Surgical Correction**

Waters, R. L., Garland, D. E., Perry, J., Habig, T., & Slabaugh, P. (1979). Stiff-legged gait in hemiplegia: surgical correction. *JBJS*, *61*(6), 927-933.

**Dynamic Gait Electromyography Study in Duchenne Muscular Dystrophy (DMD) Patients\***

Melkonian, G. J., Cristofaro, R. L., Perry, J., & Hsu, J. D. (1980). Dynamic Gait Electromyography Study in Duchenne Muscular Dystrophy (DMD) Patients∗. *Foot & ankle*, *1*(2), 78-83.

**Electromyographic Gait Analysis Before and After Operative Treatment for Hemiplegic Equinus and Equinovarus Deformity**

Waters, R. L., Frazier, J. O. H. N., Garland, D. E., Jordan, C. H. R. I. S. T. O. P. H. E. R., & Perry, J. (1982). Electromyographic gait analysis before and after operative treatment for hemiplegic equinus and equinovarus deformity. *JBJS*, *64*(2), 284-288.

**An Analysis of Posture and Gait Following Spinal fusion with Harrington Instrumentation**

Wasylenko, M., SKINNER, S. R., Perry, J., & ANTONELLI, D. J. (1983). An analysis of posture and gait following spinal fusion with Harrington instrumentation. *Spine*, *8*(8), 840-845.

**Gait Abnormalities Arising from Latrogenic Loss of Lumbar Lordosis Secondary to Harrington Instrumentation in Lumbar Fractures**

HASDAY, C. A., PASSOFF, T. L., & Perry, J. (1983). Gait abnormalities arising from latrogenic loss of lumbar lordosis secondary to Harrington instrumentation in lumbar fractures. *Spine*, *8*(5), 501-511.

**Gait and Functional Analysis of Patients Following Patellectomy**

Hill, J. A., Moynes, D. R., Yocum, L. A., Perry, J., & Jobe, F. W. (1983). Gait and functional analysis of patients following patellectomy. *Orthopedics*, *6*(6), 724-728.

**Lower Extremity Electromyographic Analysis of Running Gait**

SCHWAB, G. H., MOYNES, D. R., Jobe, W., & Perry, J. (1983). Lower extremity electromyographic analysis of running gait. *Clinical Orthopaedics and Related Research (1976-2007)*, *176*, 166-170.

**Pathodynamics of Gait Alterations in Cerebral Palsy and the Significance of Kinetic Electromyography in Evaluating Foot and Ankle Problems**

Hoffer, M. M., & Perry, J. (1983). Pathodynamics of gait alterations in cerebral palsy and the significance of kinetic electromyography in evaluating foot and ankle problems. *Foot & Ankle*, *4*(3), 128-134.

**Ankle and Subtalar Motion During Gait in Arthritic Patients**

Locke, M., Perry, J., Campbell, J., & Thomas, L. (1984). Ankle and subtalar motion during gait in arthritic patients. *Physical therapy*, *64*(4), 504-509.

**Predictive Value of Manual Muscle Testing and Gait Analysis in Normal Ankles by Dynamic Electromyography**

Perry, J., Ireland, M. L., Gronley, J., & Hoffer, M. M. (1986). Predictive value of manual muscle testing and gait analysis in normal ankles by dynamic electromyography. *Foot & ankle*, *6*(5), 254-259.

**Pelvic Exercise and Gait in Hemiplegia**

Trueblood, P. R., Walker, J. M., Perry, J., & Gronley, J. K. (1989). Pelvic exercise and gait in hemiplegia. *Physical Therapy*, *69*(1), 18-26.

**Below-Knee Amputee Gait with Dynamic Elastic Response Prosthetic Feet: A Pilot Study**

Torburn, L., Perry, J., Ayyappa, E., & Shanfield, S. L. (1990). Below-knee amputee gait with dynamic elastic response prosthetic feet: a pilot study. *J Rehabil Res Dev*, *27*(4), 369-84.

**Effect of an Unrestricted Knee-Ankle-Foot Orthosis on the Stance Phase of Gait in Healthy Persons**

Cerny, K., Perry, J., & Walker, J. M. (1990). Effect of an unrestricted knee-ankle-foot orthosis on the stance phase of gait in healthy persons. *Orthopedics*, *13*(10), 1121-1127.

**GAIT-ER-AID: An Expert System for Analysis of Gait with Automatic Intelligent Pre-Processing of Data**

Bontrager, E. L., Perry, J., Bogey, R., Gronley, J., Barnes, L., Bekey, G., & Kim, J. W. (1990, November). GAIT-ER-AID: An expert system for analysis of gait with automatic intelligent pre-processing of data. In *Proceedings of the Annual Symposium on Computer Application in Medical Care* (p. 625). American Medical Informatics Association.

**Instrumented Gait Analysis After Selective Dorsal Rhizotomy**

Cahan, L. D., Adams, J. M., Perry, J., & Beeler, L. M. (1990). Instrumented gait analysis after selective dorsal rhizotomy. *Developmental Medicine & Child Neurology*, *32*(12), 1037-1043.

**Computer Algorithms to Characterize Individual Subject EMG Profiles During Gait**

Bogey, R. A., Barnes, L. A., & Perry, J. (1992). Computer algorithms to characterize individual subject EMG profiles during gait. *Archives of Physical Medicine and Rehabilitation*, *73*(9), 835-841.

**GAIT-ER-AID: An Expert System for Diagnosis of Human Gait**

Bekey, G. A., Joung-woo, J. K., Gronley, J. K., Bontrager, E. L., & Perry, J. (1992). GAIT-ER-AID: An expert system for diagnosis of human gait. *Artificial Intelligence in Medicine*, *4*(4), 293-308.

**The Rancho EMG Analyzer: A Computerized System for Gait Analysis**

Perry, J., Bontrager, E. L., Bogey, R. A., Gronley, J. K., & Barnes, L. A. (1993). The Rancho EMG analyzer: a computerized system for gait analysis. *Journal of biomedical engineering*, *15*(6), 487-496.

**The Relationship of Lower Extremity Strength and Gait Parameters in Patients with Post-Polio Syndrome**

Perry, J., Mulroy, S. J., & Renwick, S. E. (1993). The relationship of lower extremity strength and gait parameters in patients with post-polio syndrome. *Archives of physical medicine and rehabilitation*, *74*(2), 165-169.

**The Effect of Five Prosthetic Feet on the Gait and Loading of the Sound Limb in Dysvascular Below-Knee Amputees**

Snyder, R. D., Powers, C. M., Fountain, C., & Perry, J. (1995). The effect of five prosthetic feet on the gait and loading of the sound limb in dysvascular below-knee amputees. *Journal of rehabilitation research and development*, *32*, 309-315.

**Concurrent Validity of Observational Gait Analysis Using the Vicon Motion Analysis**

Greenberg, M. B., Gronley, J. A., Perry, J., & Lewthwaite, R. (1996). Concurrent validity of observational gait analysis using the vicon motion analysis system. *Gait & Posture*, *2*(4), 167-168.

**The Influence of Lower Extremity Muscle Force on Gait Characteristics in Individuals with Below-Knee Amputations Secondary to Vascular Disease**

Powers, C. M., Boyd, L. A., Fontaine, C. A., & Perry, J. (1996). The influence of lower-extremity muscle force on gait characteristics in individuals with below-knee amputations secondary to vascular disease. *Physical therapy*, *76*(4), 369-377.

**Lower Extremity Strength and Gait Performance in the Acute Stroke Patient**

Gronley, J. K., Mulroy, S. J., Newsam, C. J., & Perry, J. (1997). Lower extremity strength and gait performance in the acute stroke patient. *Gait & Posture*, *2*(5), 159.

**Assessment of Rearfoot Motion: Passive Positioning, One-Legged Standing, Gait**

Torburn, L., Perry, J., & Gronley, J. K. (1998). Assessment of rearfoot motion: passive positioning, one-legged standing, gait. *Foot & ankle international*, *19*(10), 688-693.

**Knee Kinetics in Trans-Tibial Amputee Gait**

Powers, C. M., Rao, S., & Perry, J. (1998). Knee kinetics in trans-tibial amputee gait. *Gait & posture*, *8*(1), 1-7.

**Neuropathic Diabetic Patients Do Not Have Reduced Variability of Plantar Loading During Gait**

Cavanagh, P. R., Perry, J. E., Ulbrecht, J. S., Derr, J. A., & Pammer, S. E. (1998). Neuropathic diabetic patients do not have reduced variability of plantar loading during gait. *Gait & Posture*, *7*(3), 191-199.

**The Influence of Patellofemoral Pain on Lower Limb Loading During Gait**

Powers, C. M., Heino, J. G., Rao, S., & Perry, J. (1999). The influence of patellofemoral pain on lower limb loading during gait. *Clinical Biomechanics*, *14*(10), 722-728.

**The Use of Gait Analysis for Surgical Recommendations in Traumatic Brain Injury**

Perry, J. (1999). The use of gait analysis for surgical recommendations in traumatic brain injury. *The Journal of Head Trauma Rehabilitation*, *14*(2), 116-135.

**Comparison of Across-Subject EMG Profiles Using Surface and Multiple Indwelling Wire Electrodes During Gait**

Bogey, R. A., Perry, J., Bontrager, E. L., & Gronley, J. K. (2000). Comparison of across-subject EMG profiles using surface and multiple indwelling wire electrodes during gait. *Journal of Electromyography and Kinesiology*, *10*(4), 255-259.

**Use of Cluster Analysis for Gait Pattern Classification of Patients in the Early and Late Recover Phases Following Stroke**

Mulroy, S., Gronley, J., Weiss, W., Newsam, C., & Perry, J. (2003). Use of cluster analysis for gait pattern classification of patients in the early and late recovery phases following stroke. *Gait & posture*, *18*(1), 114-125.

**Effect of Ankle ROM on Gait Characteristics for Individuals with CVA**

Weiss, W. B., Eberly, V. J., Mulroy, S. J., Gronley, J. K., Newsam, C. J., & Perry, J. (2004). EFFECT OF ANKLE ROM ON GAIT CHARACTERISTICS FOR INDIVIDUALS WITH CVA. *Journal of Neurologic Physical Therapy*, *28*(4), 187.

**Energy Expenditure and Gait Characteristics of a Bilateral Amputee Walking with C-leg Prostheses Compared with Stubby and Conventional Articulating Prostheses**

Perry, J., Burnfield, J. M., Newsam, C. J., & Conley, P. (2004). Energy expenditure and gait characteristics of a bilateral amputee walking with C-leg prostheses compared with stubby and conventional articulating prostheses. *Archives of physical medicine and rehabilitation*, *85*(10), 1711-1717.

**An EMG-to-Force Processing Approach for Determining Ankle Muscle Forces During Normal Human Gait**

Bogey, R. A., Perry, J., & Gitter, A. J. (2005). An EMG-to-force processing approach for determining ankle muscle forces during normal human gait. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, *13*(3), 302-310.

**Gait Parameters Associated with Responsiveness to a Task-Specific and/or Strength Training Program Post-Stroke**

Klassen, T., Mulroy, S. J., & Sullivan, K. J. (2005). GAIT PARAMETERS ASSOCIATED WITH RESPONSIVENESS TO A TASK-SPECIFIC AND/OR STRENGTH TRAINING PROGRAM POST-STROKE. *Journal of Neurologic Physical Therapy*, *29*(4), 198.

**Upper Extremity Kinetics During Lofstrand Crutch-Assisted Gait**

Requejo, P. S., Wahl, D. P., Bontrager, E. L., Newsam, C. J., Gronley, J. K., Mulroy, S. J., & Perry, J. (2005). Upper extremity kinetics during Lofstrand crutch-assisted gait. *Medical engineering & physics*, *27*(1), 19-29.

**Gait Parameters Associated with Responsiveness to Treadmill Training with Body-Weight Support After Stroke: An Exploratory Study**

Mulroy, S. J., Klassen, T., Gronley, J. K., Eberly, V. J., Brown, D. A., & Sullivan, K. J. (2010). Gait parameters associated with responsiveness to treadmill training with body-weight support after stroke: an exploratory study. *Physical therapy*, *90*(2), 209-223.

**Joint Moment Contributions to Swing Knee Extension Acceleration During Gait in Children with Spastic Hemiplegic Cerebral Palsy**

Goldberg, E. J., Requejo, P. S., & Fowler, E. G. (2010). Joint moment contributions to swing knee extension acceleration during gait in children with spastic hemiplegic cerebral palsy. *Journal of biomechanics*, *43*(5), 893-899.

**Stepping Forward with Gait Rehabilitation**

Eng, J. J., & Mulroy, S. J. (2010). Stepping forward with gait rehabilitation. *Physical therapy*, *90*(2), 146-148.

**Joint Moment Contributions to Swing Knee Extension Acceleration During Gait in Individuals with Spastic Diplegic Cerebral Palsy**

Goldberg, E. J., Requejo, P. S., & Fowler, E. G. (2011). Joint moment contributions to swing knee extension acceleration during gait in individuals with spastic diplegic cerebral palsy. *Gait & Posture*, *33*(1), 66-70.

**A Personalised Exercise Programme for Individuals with Lower Limb Amputation Reduce Falls and Improves Gait Biomechanics: A Block Randomised Controlled Trial**

Schafer, Z. A., Perry, J. L., & Vanicek, N. (2018). A personalised exercise programme for individuals with lower limb amputation reduces falls and improves gait biomechanics: A block randomised controlled trial. *Gait & Posture*, *63*, 282-289.

**Sex-Specific Sagittal and Frontal Plane Gait Mechanics in Persons Post-Hip Arthroscopy for Femoroacetabular Impingement Syndrome**

Brown‐Taylor, L., Schroeder, B., Lewis, C. L., Perry, J., Hewett, T. E., Ryan, J., & Di Stasi, S. (2020). Sex‐specific sagittal and frontal plane gait mechanics in persons post‐hip arthroscopy for femoroacetabular impingement syndrome. *Journal of Orthopaedic Research®*, *38*(11), 2443-2453.