

Marianjoy Research Authorship Accomplishments for 2011 and 2012

At Marianjoy, our research mission is to facilitate an agenda in Physical Medicine and Rehabilitation comprised of traditional and alternative medical models. We see this as complementary to our overall institutional mission of being “committed to living out the healing ministry of Jesus, by providing exceptional and compassionate healthcare services that promotes the dignity and well-being of the people we serve.” Our goal is to be recognized as a national leader in the field of Physical Medicine and Rehabilitation, where evidence-based best practices are translated into a culture of quality and excellence at all levels of the organizational structure.

During 2011 and 2012, Marianjoy Physiatry Physicians and Associates authored 33 articles in peer-reviewed journals related to the field of Physical Medicine and Rehabilitation. These research articles focused on a wide variety of important topics for acute inpatient rehabilitation, including:

- Stroke Recovery in Post-Acute Rehabilitation
- Postural Control
- Gait and Balance Disorders
- Ankle Foot Orthosis Applications
- Compelled Body Weight Shift Techniques
- Speech Language Pathology Diagnostics
- Swallowing Disorder Assessments
- Dysphagia Treatment Innovations
- Traumatic Brain Injury Prevalence and Recovery
- Therapy Innovations and Treatments
- Clinical and Health Services Outcomes,
- Diagnostic Assessment Scales, and
- Healthcare Policy and Strategic Planning

We have referenced all 33 articles with PubMed hyperlinks to the published abstracts in the pages that follow. To learn more about research activities conducted at Marianjoy, please contact [Dr. Kathleen Ruroede](#), Vice President for Research and Quality, at (630) 909-7142.

Research Articles on Stroke Rehabilitation, Postural Control, Gait and Balance Disorders and Interventions, Ankle Foot Orthosis Applications, and Compelled Body Weight Shift Techniques

1. Mohapatra S, **Aruin AS**. [Static and dynamic visual cues in feed-forward postural control](#). Exp Brain Res. 2013 Jan, 224(1):25-34. Epub 2012 Oct 14.
2. **Aruin AS, Rao N, Sharma A, Chaudhuri G**. [Compelled body weight shift approach in rehabilitation of individuals with chronic stroke](#). Top Stroke Rehabil. 2012, 19(6):556-563
3. Panwalkar N, **Aruin AS**. [Role of ankle foot orthoses in the outcome of clinical tests of balance](#). Disabil Rehabil Assist Technol. 2012 Oct 19. [Epub ahead of print]
4. Nunes PM, de Oliveira DG, **Aruin AS**, Santos MJ. [Relationship between hand function and grip force control in individuals with hand osteoarthritis](#). J Rehabil Res Dev. 2012, 49(6):855-866.
5. Krishnan Vennila, Kanekar Neeta, **Aruin AS**. [Feedforward postural control in individuals with multiple sclerosis during load release](#). Gait Posture. 2012, 36(2):225-30. Impact Factor 2.135
6. Mohapatra S, Eviota AS, Ringquist KL, Muthukrishnan SR, **Aruin AS**. [Compelled body weight shift technique to facilitate rehabilitation of individuals with acute stroke](#). ISRN Rehabilitation. Vol. 2012 (2012), ID 328018, 7 pages.
7. Krishnan Vennila, Kanekar Neeta, **Aruin AS**. [Anticipatory postural adjustments in individuals with multiple sclerosis](#). Neurosci Lett. 2012 Jan 11, 506 (2):256-60. Epub 2011 Nov 20. Impact Factor 2.18
8. Mohapatra S, Krishnan V, **Aruin AS**. [Postural control in response to an external perturbation: effect of altered proprioceptive information](#). Exp Brain Res. 2012 Mar; 217(2):197-208. Epub 2011 Dec 25. Impact Factor 2.256
9. Mohapatra S, Krishnan V, **Aruin AS**. [The effect of decreased visual acuity on control of posture](#). Clin Neurophysiol. 2012, 123(1): 173–182. Impact Factor 3.122
10. Krishnan V, Latash ML, **Aruin AS**. [Early and late components of feed-forward postural adjustments to predictable perturbations](#). Clin Neurophysiol. 2012 May, 123(5):1016-26. Epub 2011 Oct 7. Impact Factor 3.122

11. Rao N, Zielke D, Keller S, Burns M, Sharma A, Krieger R, Aruin AS. [Pregait balance rehabilitation in acute stroke patients](#). Int J Rehabil Res. 2012 Oct 7. [Epub ahead of print]
12. Evans, C., Hanke, T., Zielke, D., Keller, S, Ruroede, K. [Monitoring community mobility with global positioning system technology after stroke: a case study](#). June 2012, J Neurol Phys Ther. 36(2):68-78.
13. Girolami GL, Shiratori T, Aruin AS. [Anticipatory postural adjustments in children with hemiplegia and diplegia](#). J Electromyogr Kinesiol. 2011, 21:988-97. Epub 2011 Oct 7. Impact Factor 1.995
14. de Oliveira DG, Nunes PM, Aruin AS, Santos MJ. [Grip force control in individuals with hand osteoarthritis](#). J Hand Therapy. 2011, 24:345-55. Epub 2011 Aug 6. Impact Factor 1.164
15. Krishnan V, Aruin AS. [Postural control in response to a perturbation: role of vision and additional support](#). Exp Brain Res. 2011, 212, 47-63. Epub 2011 Jun 4. Impact Factor 2.256
16. Krishnan V, Aruin AS, Latash ML. [Two stages and three components of the postural preparation to action](#). Exp Brain Res. 2011 Jul; 212(1):47-63. Epub 2011 May 3. Impact Factor 2.256
17. Rao N, Aruin AS. [Auxiliary sensory cues improve automatic postural responses in individuals with diabetic neuropathy](#). Neurorehabil Neural Repair. 2011 Feb, 25:110-7. Impact Factor 5.4.
[The Journal has been ranked #1 of 30 rehab journals for 5 years, and is among the top 10% of 167 neurology-related journals.]
18. Aruin A, Rao N. [Ankle-foot orthoses: proprioceptive inputs and balance implications](#). J Prosthet Orthot. 2010, 10:34-37.
[#1 Journal in Prosthetics and Orthotics.]
19. Girolami GL, Shiratori T, Aruin AS. [Anticipatory postural adjustments in children with typical motor development](#). Exp Brain Res. 2010 Aug, 205(2):153-65. Epub 2010 Jul 20.
20. Rao N, Nashner L, Aruin AS. [Perceived body position in standing individuals with recent stroke](#). Clin Neurophysiol. 2010 Nov, 121(11):1934-8. Epub 2010 May 15.

Research Articles on Speech Language Pathology Diagnostics, Swallowing Disorder Assessments, and Dysphagia Treatment Innovations in Post-Acute Rehabilitation

21. **Brady SL, Donzelli JJ, Wesling MA, Kaszuba SK.** Swallowing Frequency: Impact of accumulated oropharyngeal secretion levels & gustatory stimulation. *Ear, Nose, & Throat Journal*, 2013 in press.
22. Needham DM, Davidson J, Cohen H, Hopkins RO, Weinert C, Wunsch H, Zawistowski C, Bemis-Dougherty A, Berney SC, Bienvenu OJ, **Brady SL**, et al [Improving long-term outcomes after discharge from ICU: report from a stakeholders' conference](#). *Crit Care Med*. 2012, 40(2):502-9.
23. **Stewart RJ, Brady SL, Krieger R, Manypenny C, Quill A, & Ng K.** [Dysphagia outcomes for patients with feeding tubes undergoing inpatient rehabilitation](#). (Abstract). 2012, *Dysphagia*, 27(4):615.
24. **Brady SL, Ruroede KE.** [How to conduct dysphagia research in the work setting: practical tips for the clinician](#). ASHA Special Interest Division 13 – Perspectives in Swallowing and Swallowing Disorders. June 2011, 20(2):42-45.
25. **Brady S, Pape TLB.** [Swallowing evaluation and treatment for individuals with disordered consciousness: the role of the speech-language pathologist](#). ASHA Leader, May 17, 2011.
26. **Krieger RJ, Brady S, Stewart RJ, Terry A, Brady JJ.** [Predictors of returning to oral feedings after feeding tube placement for patient post-stroke during inpatient rehabilitation](#). *Top Stroke Rehabil*. 2010, 17(3):197-293,

Research Articles on Traumatic Brain Injury Prevalence, Treatment, Outcomes, and Diagnostic Assessments Scales

27. Evans CT, St Andre JR, **Pape TL**, Steiner ML, Stroupe KT, Hogan TP, Weaver FM, Smith BM. [An evaluation of the Veterans Affairs traumatic brain injury screening process among operation enduring freedom and/or operation Iraqi Freedom Veterans.](#) PM&R. 2013 Jan 29. [Epub ahead of print]
28. **Pape TL**, Rosenow JM, Harton BC, Patil, V, **Guernon A**, Parrish T, Froehlich K, Burress C, McNamee S, Herrold AA, Weiss B, Wang X. [Preliminary framework for a familiar auditory sensory training task \(FAST\) provided during coma recovery.](#) J Rehabil Res Dev. 2012, 49(7):1137-52.
29. Stiers W, Carlozzi N, Cernich A, Velozo C, **Pape TL**, Hart T, Gulliver S, Gordon S, , Villareal E, Rogers M, Whiteneck G, Gordon W. [Measurement of social participation outcomes in rehabilitation of veterans with traumatic brain injury.](#) J Rehabil Res Dev. 2012, 49(1):139-54.
30. Patil V., Evans C., Crisan E., Smith B., Steiner M., **Pape TL**. [Prevalence & treatment of headaches in veterans with mild traumatic brain injury.](#) Headache. 2011, 51:1112-21.
31. Saban K., Smith B., Collins E., **Pape TL**. [Sex differences in perceived life satisfaction and functional status one year after severe traumatic brain injury.](#) J Womens Health (Larchmt). 2011, 20(2):179-86.
32. Seel RT. Sherer M. Whyte J. Katz DI. Giacino JT. Rosenbaum A. Hammond FM. Kalmar K. **Pape TL**. Zafonte R. Biester RC. Kaelin D. Kean J. Zasler N. [Assessment scales for disorders of consciousness: evidence-based recommendations for clinical practice and research.](#) Arch Phys Med Rehabil. 2010, 91(12):1795-1813.

Research Article on Strategic Planning and Rehabilitation Leadership

33. **Brady J**. Charting a Course for Value Innovation: Applying Blue Ocean Strategy in a Post-Acute Setting. AMRPA Magazine. 2013 Feb, 13(2):13-5.