

Physical Therapy Faculty Peer Reviewed Publications/Presentations
(prior ten years; revised 2-2016)

Santos-Pontelli, T.E.G., Rimoli, B.P., Favretto, D.B., Mazin, S.C., Truong, D.Q., Leite, J.P., Pontes-Neto, O.M., **Babyar, S.R.**, Reding, M., Bikson, M., Edwards, D.J. Polarity-Dependent Misperception of Subjective Visual Vertical During and After Transcranial Direct Current Stimulation (tDCS). PLOS ONE. In Press.

Babyar, S.R., Peterson, M.G.E., Reding, M. Time to Recovery from Lateropulsion Dependent on Key Stroke Deficits. Neurorehabilitation and Neural Repair. 2015; 29(3): 207-213.

Herbold, J.A., Bonistall, K., Blackburn, M., Agolli, J., Gaston, S., Gross, C., Kuta, A. **Babyar, S.** A Randomized Controlled Trial of the Effectiveness of Continuous Passive Motion Following Total Knee Replacement. Archives of Physical Medicine and Rehabilitation. 2014; 95(7): 1240-1245.

Babyar, S.R., Pivko, S., Rosen, E. Pedagogical Tools to Develop Clinical Reasoning: Physical Therapy Students' Perspective. Journal of Allied Health. 2010 Fall; 39(3): e-97-104.

Babyar, S.R., Peterson, M.G.E., Bohannon, R., Pérennou, D., Reding, M. Clinical Examination Tools for Lateropulsion or Pusher Syndrome Following Stroke: A Systematic Review of the Literature. Clinical Rehabilitation. 2009; 23(7): 639-650.

Babyar, S.R., White, H., Shafi N., Reding, M. Outcomes with Stroke and Lateropulsion: A Case-Matched Controlled Study. Neurorehabilitation and Neural Repair. 2008; 22: 415-423.

Babyar, S.R., Hildebrand McCloskey, K.H., Reding, M. Surface Electromyography of Lumbar Paraspinal Muscles During Seated Passive Tilting of Patients with Lateropulsion Following Stroke. Neurorehabilitation and Neural Repair. 2007; 21(2): 127-36.

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Holland, T. (2006). Instructors Manual: Integrating Physical Agents in Rehabilitation. Upper Saddle River, NJ: Prentice Hall.

Mehreteab, T.A., **Holland, T.** (2006). Effect of electrical stimulation on nerve and muscle. In: Hecox B, Mehreteab TA, Weisberg J, Sanko J, eds. Integrating Physical Agents in Rehabilitation. 2nd edition Upper Saddle River, NJ: Prentice Hall.

Mehreteab, T.A., **Holland, T.** (2006). Iontophoresis. In: Hecox, B., Mehreteab, T.A., Weisberg J, Sanko J, eds. Integrating Physical Agents in Rehabilitation. 2nd edition Upper Saddle River, NJ: Prentice Hall.

Mehreteab, T.A., **Holland, T.** (2006). Clinical uses of electrical stimulation. In: Hecox, B., Mehreteab, T.A., Weisberg, J., Sanko, J. eds. Integrating Physical Agents in Rehabilitation. 2nd edition, Upper Saddle River, NJ: Prentice Hall.

Mehreteab, T.A., **Holland, T.** (2006). Therapeutic electricity. In: Hecox, B., Mehreteab, T.A., Weisberg, J., Sanko, J., eds. Integrating Physical Agents in Rehabilitation. 2nd edition Upper Saddle River, NJ: Prentice Hall.

Karpatkin, H., Cohen, E.T., Rzetelny, A., Parrot, J.S., Breismeister, B., Hartman, R., Luu, R., Napolione, D. Comparing the Effects of Intermittent and Continuous Walking on Distance Walked and Fatigue in Persons with Multiple Sclerosis: A Randomized Crossover Trial. *Journal of Neurologic Physical Therapy*. Vol. in press: (2015)

Cohen, E.T., Czisa, L.A., **Karpatkin, H.I.** (2014). Multiple Sclerosis Clinical Summary. *PT Now* (Online journal).
<http://www.ptnow.org/ClinicalSummaries/QuickDetail.aspx?cid=343ee67d-7ea5-494c-92f2-95959b7c6781>

Karpatkin, H. I., Napolione, D., & Siminovich-Blok, B. (2014). Acupuncture and Multiple Sclerosis: A Review of the Evidence. *Evidence-Based Complementary and Alternative Medicine, 2014*.

Karpatkin, H., Cohen, E. T., Rzetelny, A., Erlandsson, K., Gibbons, S., Griffith, H., & Isham, L. B. (2013). Performance on the Berg Balance Scale in Fatigued Versus Nonfatigued States in People with Multiple Sclerosis. *Critical Reviews™ in Physical and Rehabilitation Medicine, 25*(3-4), 223-230

Karpatkin, H.I., & Rzetelny, A. Effect of a Single Bout of Intermittent vs. Continuous Walking on Perceptions of Fatigue in Persons with Multiple Sclerosis. *International Journal of Multiple Sclerosis Care*.

Hutchinson, B., Forwell, S.J., Bennett, S., Brown, T., **Karpatkin, H.**, Miller, D. (2009). Toward a consensus on rehabilitation outcomes in MS: Gait and fatigue. Report of a CMSC Consensus Conference. *Int J MS Care. 11*:67–78.

Karpatkin, H. (2008). Clinical point of view: Respiratory changes in Multiple Sclerosis. *J Neurol Phys Ther. 32*(2):105.

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Salem, Y., Scott, A. H., **Karpatkin, H.**, Concert, G., Haller, L., Kaminsky, E., ... & Spatz, E. (2011). Community-based group aquatic programme for individuals with multiple sclerosis: a pilot study. *Disability and rehabilitation, 33*(9), 720-728.

Salem, Y., Scott, A.H., **Karpatkin, H.**, Concert, G., Haller, L., Kaminsky, E., Weisbro, R., Spatz, E. (2010). Community-based group aquatic programme for individuals with multiple sclerosis: A pilot study. *Disabil Rehabil.*

Hutchinson, B., Forwell, S. J., Bennett, S., Brown, T., **Karpatkin, H.**, & Miller, D. (2009). Toward a Consensus on Rehabilitation Outcomes in MS: Gait and Fatigue: Report of a CMSC Consensus Conference, November 28-29, 2007. *International Journal of MS Care*, 11(2), 67-78.

Karpatkin, H. Clinical Point of View: Respiratory Changes in Multiple Sclerosis.. *J Neurol Phys Ther.* 32(2):105, June 2008.

Karpatkin H (2005) Multiple Sclerosis and Exercise. *International Journal of MS Care: Summer 2005, Vol. 7, No. 2*, pp. 36-41.

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Mehreteab, T.A., **Krasilovsky, G.**, et al. (2008). Impaired peripheral nerve integrity and muscle performance associated with peripheral nerve injury (Pattern F). In: Moffat, M. Ed. Neuromuscular Essentials: Applying the Preferred Physical Therapist Practice Pattern. Thorofare, NJ: Slack.

Krasilovsky, G. (2012). Nerve Conduction Testing and Electromyography for the Physical Therapist: Techniques, Interpretation and Differential Diagnosis. Westport, CT: Gary Krasilovsky.

Lipovac, M.N., Lipovac, S., & Holland, T. (2012). Prevention and Treatment of Wounds. Deer Park, NY: Linus Publications.

Lipovac, S., **Lipovac, M.N.**, Grimaldi, G. (2012). Pocket Guide to Basic Rehabilitation. Deer Park, NY: Linus Publications.

Sziraki, I., Hashim, A., Serhsen, H., Allen, D., Cooper, T., **Lipovac, M.**, Lajtha, A. (2003). Differences in sensitivity of central dopamine systems to nicotine in Lewis and Fischer 344 rats. In Monitoring Molecules In Neuroscience, Eds: Jan Kehr, Kjell Fuxe, Urban Ungerstedt, Torgny Svensson. Karolinska Institute, Stockholm Sweden, Proceedings of the 10th International Conference on In Vivo Methods, 143-145.

Rosen, E.R., Rusnak Smith, S.E. (2006). Practice Pattern B, Impaired Posture in Rosen, E.R., Rusnak Smith, S.E. Musculoskeletal Essentials: Preferred Physical Therapy Practice Patterns, Slack Publishers.

Rosen, E.R., Rusnak Smith, S.E. (2006). Editors: Musculoskeletal Essentials: Preferred Physical Therapy Practice Patterns, Slack Publishers.

King, L., **Rosen, E.R.** Rusnak Smith, S.E. (2006). Practice Pattern F: Spinal Disorders in **E. Rosen, S.Rusnak Smith** (Eds). Musculoskeletal Essentials: Preferred Physical Therapy Practice Patterns, Slack Publishers.

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Gross, J., Fetto, J., **Rosen, E.** (2015). Musculoskeletal Examination 4th Edition, Cambridge: Wiley-Blackwell Publishers.

Moffat, M., Bohmert, J., Hulme, J. (Associate Editors) **Rosen, E**, Rusnak Smith, S. (Assistant Editors) (2008). Neuromuscular Essentials: Applying the Preferred Physical Therapy Practice Patterns. Thorofare: NJ, Slack Publishers

Silberman, N., Litwin, B., Panzarella, K., Fernandez-Fernandez, A. High Fidelity Human Simulation Improves Physical Therapist Student Self-Efficacy for Acute Care Clinical Practice. *Journal of Physical Therapy Education*. 2016, 30 (1): 14-24.

Silberman, N., Litwin, B., Panzarella, K., Fernandez-Fernandez, A. Student Clinical Performance in Acute Care Enhanced through Simulation Training. *Journal of Acute Care Physical Therapy*. 2016, 7 (1): 25-36.

Silberman, N., Panzarella, K., Melzer, B. Using High Fidelity Human Simulation to Prepare Physical Therapy Students for Acute Care Clinical Practice. *Journal of Allied Health*, Spring 2013, 42 (1): 25-32.

Published Abstracts

Babyar, S.R., Peterson, M.G.E., Daniel, K., Reding, M. Impairments and Demographics Associated with Lateropulsion after Stroke: A Logistic Regression Analysis. [Abstract]. Neurorehabilitation and Neural Repair. 2014; 28(9): 918-919.

Babyar, S.R., Peterson, M.G.E., Reding, M. Time to Recovery from Lateropulsion Dependent on Key Stroke Deficits. [Abstract]. Archives of Physical Medicine and Rehabilitation. 2014; 95(10): e62.

Babyar, S.R., White, H., Shafi, N., Reding, M. FIM™ Efficiency Lower in Patients with Stroke and Lateropulsion: A Case-Matched Controlled Study [Abstract]. Stroke. 2007; 38(2): 519.

Presentations

Polarity-dependent misperception of visual vertical during and after transcranial Direct Current Stimulation (tDCS). Taiza E.G. Santos-Pontelli, Brunna P.Rimoli, Diandra B. Favoretto, Suleimy C.Mazin, Denis Q.Truong, João P. Leite, Octavio M. Pontes,

Suzanne R. Babyar, Michael Reding, Marom Bickson, Dylan Edwards,. VII International Symposium on Neuromodulation [VII Simpósio Internacional em Neuromodulação] 2015, Sao Paulo, Brazil., September 3, 2015

Impairments and Demographics Associated with Lateropulsion after Stroke: A Logistic Regression Analysis. **Suzanne Babyar**, Margaret Peterson, Krupa Daniel, Michael Reding. School of Health Sciences and School of Nursing 9th Annual Evidence-Based Practice Poster Day. Hunter College, New York, New York. April 29, 2015. Poster Presentation.

Time to Recovery from Lateropulsion Dependent on Key Stroke Deficits. **Suzanne Babyar**, Margaret Peterson, Michael Reding. School of Health Sciences and School of Nursing 9th Annual Evidence-Based Practice Poster Day. Hunter College, New York, New York. April 29, 2015. Poster Presentation.

Parietal-Insular-Vestibular tDCS for Treatment of Lateropulsion following Stroke. Michael Reding, **Suzanne Babyar**, Taiza Santos-Pontelli, Tennyson Lemos, Dylan Edwards. NYC 2015 Neuromodulation Conference. The City College of New York, New York, New York. January 10, 2015. Poster Presentation.

Impairments and Demographics Associated with Lateropulsion after Stroke: A Logistic Regression Analysis. **Suzanne Babyar**, Margaret Peterson, Krupa Daniel, Michael Reding. American Society of Neurorehabilitation 2014 Annual Meeting. Washington, DC. November 13, 2014. Poster Presentation.

Time to Recovery from Lateropulsion Dependent on Key Stroke Deficits. **Suzanne Babyar**, Margaret Peterson, Michael Reding. American Congress of Rehabilitation Medicine 91st Annual Conference. Toronto, Ontario. October 9, 2014. Poster Presentation.

Reliability of Two Goniometric Techniques for Analysis of Glenohumeral Horizontal Abduction. **Suzanne Babyar**. Invited Presentation to Doctor of Physical Therapy candidate of Columbia University, New York, New York. Guest Lecturer in Evidence-Based Practice I course, January 2013, 2014.

Compiling the Evidence about Lateropulsion Following Stroke. **Suzanne R. Babyar**. Presentation to Physicians and Researchers at Clinical Research Forum. Burke Rehabilitation Hospital, White Plains, New York. January 23, 2013.

Lateropulsion Following Stroke. **Suzanne R. Babyar**. Presentation of In-patient Rehabilitation Staff at New York Presbyterian Hospital, Weill Cornell Medical College. New York, New York. March 14, 2012.

3-Minute Step Test Versus Shuttle Run: Measuring Cardiovascular Endurance in Children and Adolescents with Obesity. Lauren King, Heather Kleinman, Nataliya Kukil, Shira Marvit, **Suzanne Babyar**, & Eric Schwabe. School of Health Sciences and School

of Nursing Research Day. Hunter College, New York, New York. May 11, 2011. Poster Presentation.

Construct Validity of a Battery for Fitness Assessment of Children and Teenagers with Obesity. **Suzanne Babyar Rothbart**, Eric Schwabe, Kate Magram, Natalie Horowitz, Christine Papincak, & Elianna Kohn. American Physical Therapy Association Combined Sections Meeting, New Orleans, LA. February 10, 2011. Platform Presentation.

Developing a Battery for Fitness Assessment for Children and Teenagers with Obesity. Christynne Papincak, Elianna Kohn, Kate Magram, Natalie Horowitz, Eric Schwabe, **Suzanne Babyar**, Maura Frank. School of Health Sciences and School of Nursing Research Day. Hunter College, New York, New York. May 5, 2010. Poster Presentation.

Physical Therapy Students' Perceptions of Pedagogical Tools for Learning Clinical Decision-Making. **Suzanne R. Babyar**, Susan Pivko, Elaine Rosen. School of Health Sciences and School of Nursing Research Day. Hunter College, New York, New York. May 5, 2010. Poster Presentation.

Physical Therapy Students' Perceptions of Pedagogical Tools for Learning Clinical Decision-Making. **Suzanne R. Babyar**, Susan Pivko, Elaine Rosen. New York Physical Therapy Association Annual Conference. Saratoga Springs, New York. October 24, 2009. Poster Presentation.

Intervention Strategies for "Pusher Syndrome" Following Stroke. **Suzanne R. Babyar**, Richard Bohannon, Cynthia Danells. American Congress of Rehabilitation/American Society of Neurorehabilitation Joint Annual Conference, Denver, Colorado. October 10, 2009. Symposium Coordinator and Presenter.

Subjective Postural Vertical in Patients with Lateropulsion Following Stroke: A Pilot Comparison Study. **Suzanne R. Babyar**, Michael Reding. American Academy of Neurology 60th Annual Meeting, Chicago, Illinois. April 16, 2008.

Lateropulsion Following Stroke: Where the Evidence Is and Where It Needs to Go. **Suzanne R. Babyar** (Course Coordinator), Dominic Perénnou, Richard Bohannon, Michael Reding. ACRM-ASNR Joint Conference. Washington, DC. October 4, 2007. Invited Presentation.

Lateropulsion Following Stroke, a.k.a. "Pusher Syndrome:" Updating Our Knowledge Base. **Suzanne R. Babyar** (Course Coordinator), Dominic Perénnou, Richard Bohannon, Michael Reding. Burke Rehabilitation Hospital, White Plains, New York. September 30, 2007. Clinical Instructor Meeting.

FIM™ Efficiency Lower in Patients with Stroke and Lateropulsion: A Case-Matched Controlled Study. (2007, Stroke). **Suzanne R. Babyar**, Halina White, Neelofer Shafi, Michael Reding. International Stroke Conference. San Francisco, California. February 7-9, 2007. Poster Presentation.

Karpatkin, HI, et al. PTNow and MSEDGE: Using APTA's translational Knowledge . resources to manage the patient with MS. American Physical Therapy Association Combined Sections Meeting, Anaheim, CA, Feb 20, 2016

Karpatkin, HI et al. MS Rehab Interventions Across the Spectrum of Disability and Continuum of Age. Presented at 2015 CMSC annual meeting, Indianapolis, IN, May 29, 2016

Karpatkin, HI Strategies to improve gait and balance in MS: New research . Presented at AthCare MS Rehabilitation Professionals' Network Event. APTA Combined Sections Meeting, Indianapolis, IN, Feb4, 2015

Karpatkin, HI et al, Foot drop in Multiple Sclerosis: Evaluation and treatment. Consortium of Multiple Sclerosis Centers Annual Meeting, Houston TX, May 30, 2014

Karpatkin, HI et al. Increasing Volume and Intensity in Multiple Sclerosis Gait Training Consortium of Multiple Sclerosis Centers Annual Meeting. Houston TX, May 30 2014

Karpatkin, HI. Multiple Sclerosis Physical Therapy: Update on Evidence Based Practice Grand rounds presentation at Jacobi Hospital. Bronx, NY May 6, 2014

Karpatkin, HI et al. Shoulder pathology in Multiple Sclerosis: Etiology, evaluation and treatment. Consortium of Multiple Sclerosis Centers Annual meeting. Orlando FL, May 1, 2013

Karpatkin, HI et al. Multiple Sclerosis From Diagnosis to Intervention: Translating Science Into Clinical Practice. A 2-day preconference course. American Physical Therapy Association, Combined Sections Meeting, San Diego, CA January 20-21, 2013

Karpatkin, HI. Maximizing Function: The Role of Rehabilitation in Multiple Sclerosis. Presented at the Mount Sinai Hospital Patient Symposium, New York, NY, October 26, 2012

Karpatkin, HI et al. Multiple Sclerosis: Physical Therapy Examination and Intervention Across the Spectrum of Disability. American Physical Therapy Association Combined Sections Meeting, Chicago, Ill. Feb 9, 2012

Karpatkin, HI, and Bennett. S. Multiple Sclerosis: Improving Physical Therapy Outcomes by Minimizing Neurogenic Fatigue and Maximizing Neuroplasticity, American Physical Therapy Association. Combined Sections Meeting, New Orleans, LA, Feb 10, 2011

Karpatkin, HI, et al. Evaluation of Falls Risk in Multiple Sclerosis, American Physical Therapy Association, Combined Sections Meeting, New Orleans, LA, February 10, 2011

Karpatkin, HI, Multiple Sclerosis: New Perspectives on Rehabilitation, Methodist Hospital, Neuroscience Grand Rounds, Brooklyn, NY, January 14, 2011

Karpatkin, HI, Falls Prevention in Multiple Sclerosis: A Course for Nurses
National Multiple Sclerosis Society, New York Chapter. June 9, 2009

Karpatkin, H. National Multiple Sclerosis Society 2011 Research Symposium:
Advances in Multiple Sclerosis Rehabilitation. Expert Rehabilitation Panelist.
September, 2011.

Karpatkin, H.I., Briesmeister, B., Hartman, R., Napolione, D., Luu, R., &
Rzetelney, A. "Intermittent walking results in greater distance and less fatigue
than continuous walking in MS." American Physical Therapy Association
Combined Sections Meeting, February, 2012. Chicago, IL.

Karpatkin, H.I., Griffith, H., Gibbons, S., Isham, L., & Erlandson, K. "Berg Balance
scale scores in persons with multiple sclerosis are different in fatigued vs. nonfatigued
conditions." Consortium of Multiple Sclerosis Centers Annual Meeting, 2012. San
Diego, CA.

Krasilovsky, G., Dickman, D., Vining, L. & Weinrauch, W. "The Prevalence of Ulnar
and Median Neuropathy Symptoms in Indoor and Outdoor Cyclists." Poster
Presentation, NYPTA Annual Conference, Rye Brook, NY, October 29, 2011.

Lipovac, M.N., Reith, M.E.A., and Lajtha, A. (2006). Metaphit induced seizures and
transport of GABA across the blood-brain barrier. Neurochemistry International
Conference.

Pivko, S., **Silberman, N.**, De Masi, I., Taylor, M., Jain, A. (2006). The prerequisites,
performance and perceptions of the Academic Coordinator of Clinical Education/Director
of Clinical Education in emerging Doctor of Physical Therapy programs. National
Education Leadership Conference, Arlington VA.

Pivko, S., **Silberman, N.**, DeMasi, I., Taylor, M., Jain, A. (2007). The prerequisites,
performance and perceptions of the Academic Coordinator of Clinical Education/Director
of Clinical Education in emerging Doctor of Physical Therapy programs: Tenure and
promotion. World Conference of Physical Therapy, Vancouver, B.C. American Physical
Therapy Association Convention, Denver, CO.

Pivko, S., **Silberman, N.**, DeMasi, I., Taylor, M., Jain, A. (2007). The prerequisites,
performance and perceptions of the Academic Coordinator of Clinical Education/Director
of Clinical Education in emerging Doctor of Physical Therapy programs: Academic fit.

Silberman N, Litwin B, Panzarella K, Fernandez-Fernandez A: Can Simulation
Improve Physical Therapy Student Acute Care Clinical Performance?(Platform
Presentation) 2015 APTA Combined Sections Meeting. Indianapolis, IN. February, 2015.

Silberman N, Litwin B, Panzarella K, Fernandez-Fernandez A: High Fidelity Human Simulation Improves Physical Therapy Student Self-Efficacy for Acute Care Clinical Experiences (Platform Presentation) Widener University Interprofessional Simulation Conference. Philadelphia, PA. July, 2015

Riopel, MA, Litwin, B, Fernandez-Fernandez A, **Silberman, N**. Inter-rater Reliability of the Modified Standardized Patient Satisfaction Questionnaire for Rating Professional Behaviors of Student Physical Therapists. APTA Combined Sections Meeting, Anaheim, CA, 2016.