

ASNR Journal Search

A selection of recent papers in the area of neurorehabilitation, not meant to be comprehensive, and not including the contents of *Neurorehabilitation and Neural Repair*. If you have suggestions for the next issue, please e-mail them to pnarayanan@som.umaryland.edu. Thanks!

George Wittenberg, M.D., Ph.D. Executive Editor, VAMHCS/GRECC, University of Maryland, Baltimore

Section: Stroke and General Research of Interest

Section Editor: Lauren Jones-Lush, PhD, Priya Narayanan, PhD , University of Maryland Baltimore

- 1) Riccio I, Iolascon G, Barillari MR, Gimigliano R, Gimigliano F. Mental practice is effective in upper limb recovery after stroke: a randomized single-blind cross-over study. *Eur J Phys Rehabil Med*. 2010 Mar;46(1):19-25.
<http://www.minervamedica.it/en/journals/europa-medicophysica/article.php?cod=R33Y2010N01A0019>
- 2) Brogårdh C, Lexell J. A 1-year follow-up after shortened constraint-induced movement therapy with and without mitt poststroke. *Arch Phys Med Rehabil*. 2010 Mar;91(3):460-4.
[http://www.archives-pmr.org/article/S0003-9993\(09\)00943-5/abstract](http://www.archives-pmr.org/article/S0003-9993(09)00943-5/abstract)
- 3) Wallace AC, Talelli P, Dileone M, Oliver R, Ward N, Cloud G, Greenwood R, Di Lazzaro V, Rothwell JC, Marsden JF. Standardizing the intensity of upper limb treatment in rehabilitation medicine. *Clin Rehabil*. 2010 Mar 17. [Epub ahead of print]
<http://cre.sagepub.com/cgi/content/abstract/0269215509358944v1>
- 4) Sabut SK, Sikdar C, Mondal R, Kumar R, Mahadevappa M. Restoration of gait and motor recovery by functional electrical stimulation therapy in persons with stroke. *Disabil Rehabil*. 2010 Mar 8. [Epub ahead of print]
<http://informahealthcare.com/doi/abs/10.3109/09638281003599596?journalCode=dre>
- 5) Hsu SS, Hu MH, Wang YH, Yip PK, Chiu JW, Hsieh CL. Dose-response relation between neuromuscular electrical stimulation and upper-extremity function in patients with stroke. *Stroke*. 2010 Apr;41(4):821-4. Epub 2010 Mar 4.
<http://stroke.ahajournals.org/cgi/content/short/STROKEAHA.109.574160v1>
- 6) Lin KC, Chung HY, Wu CY, Liu HL, Hsieh YW, Chen IH, Chen CL, Chuang LL, Liu JS, Wai YY. Constraint-induced therapy versus control intervention in patients with stroke: a functional magnetic resonance imaging study. *Am J Phys Med Rehabil*. 2010 Mar;89(3):177-85.
http://journals.lww.com/ajpmr/Abstract/2010/03000/Constraint_Induced_Therapy_Versus_Control.2.aspx

- 7) Sabut SK, Kumar R, Mahadevappa M. Design of a programmable multi-pattern FES system for restoring foot drop in stroke rehabilitation. *J Med Eng Technol*. 2010 Apr;34(3):217-23.
<http://informahealthcare.com/doi/abs/10.3109/03091900903580496>
- 8) Alaverdashvili M, Whishaw IQ. Compensation aids skilled reaching in aging and in recovery from forelimb motor cortex stroke in the rat. *Neuroscience*. 2010 Apr 28;167(1):21-30. Epub 2010 Feb 8.
<http://www.ncbi.nlm.nih.gov/pubmed/20149844>
- 9) Dovat L, Lambercy O, Salman B, Johnson V, Milner T, Gassert R, Burdet E, Leong TC. A technique to train finger coordination and independence after stroke. *Disabil Rehabil Assist Technol*. 2010 Apr 6. [Epub ahead of print]
<http://www.ncbi.nlm.nih.gov/pubmed/20370489>
- 10) Kakuda W, Abo M, Kaito N, Ishikawa A, Taguchi K, Yokoi A. Six-day course of repetitive transcranial magnetic stimulation plus occupational therapy for post-stroke patients with upper limb hemiparesis: A case series study. *Disabil Rehabil*. 2010;32(10):801-7.
<http://informahealthcare.com/doi/abs/10.3109/09638280903295474?journalCode=dre>
- 11) Januário F, Campos I, Amaral C. Rehabilitation of postural stability in ataxic/hemiplegic patients after stroke. *Disabil Rehabil*. 2010 Mar 29. [Epub ahead of print]
<http://informahealthcare.com/doi/abs/10.3109/09638281003734433>
- 12) Molier BI, Van Asseldonk EH, Hermens HJ, Jannink MJ. Nature, timing, frequency and type of augmented feedback; does it influence motor relearning of the hemiparetic arm after stroke? A systematic review. *Disabil Rehabil*. 2010 Mar 26. [Epub ahead of print]
<http://informahealthcare.com/doi/abs/10.3109/09638281003734359>
- 13) Wang L, Yu C, Chen H, Qin W, He Y, Fan F, Zhang Y, Wang M, Li K, Zang Y, Woodward TS, Zhu C. Dynamic functional reorganization of the motor execution network after stroke. *Brain*. 2010 Apr;133(Pt 4):1224-38. Epub 2010 Mar 30.
<http://brain.oxfordjournals.org/cgi/content/abstract/awq043>
- 14) Fridman EA, Crespo M, Gomez Argüello S, Degue L, Villarreal M, Bohlhalter S, Wheaton L, Hallett M. Kinematic improvement following Botulinum Toxin-A injection in upper-limb spasticity due to stroke. *J Neurol Neurosurg Psychiatry*. 2010 Apr;81(4):357

<http://jnnp.bmj.com/content/81/4/423.abstract>

- 15) Henson JW, Keogh BP. Patient Page. Plasticity: teaching an old brain new tricks. *Neurology*. 2010 Mar 30;74(13):e53-5.
<http://www.neurology.org/cgi/content/full/74/13/e53>
- 16) de Medeiros RC, Jaccard AP, Cliquet A Jr. Sagittal spinal alignment in paraplegics: a new paradigm for the rehabilitation under neuromuscular electrical stimulation. *Spinal Cord*. 2010 Mar;48(3):251-6. Epub 2009 Sep 29.
<http://www.nature.com/sc/journal/v48/n3/abs/sc2009123a.html>
- 17) Wu P, Mills E, Moher D, Seely D. Acupuncture in poststroke rehabilitation: a systematic review and meta-analysis of randomized trials. *Stroke*. 2010 Apr;41(4):e171-9. Epub 2010 Feb 18.
<http://stroke.ahajournals.org/cgi/content/short/41/4/e171?rss=1>

Section: Spinal Cord Injury

Section Editor: Keith Tansey, MD, PhD, Shepherd Center/Emory University

- 1) Assessment of disability in patients with acute traumatic spinal cord injury: A systematic review of the literature. Furlan JC, Noonan V, Singh A, Fehlings M. *J Neurotrauma*. 2010 Mar 31. [Epub ahead of print]
<http://www.liebertonline.com/doi/abs/10.1089/neu.2009.1148>
- 2) Stepping with an ankle foot orthosis re-examined: A mechanical perspective for clinical decision making. Nair PM, Rooney KL, Kautz SA, Behrman AL. *Clin Biomech (Bristol, Avon)*. 2010 Mar 31. [Epub ahead of print]
[http://www.clinbiomech.com/article/S0268-0033\(10\)00064-1/abstract](http://www.clinbiomech.com/article/S0268-0033(10)00064-1/abstract)
- 3) Shoulder joint kinetics during wheelchair propulsion on a treadmill at two different speeds in spinal cord injury patients. Gil-Agudo A, Del Ama-Espinosa A, Pérez-Rizo E, Pérez-Nombela S, Crespo-Ruiz B. *Spinal Cord*. 2010 Apr;48(4):290-6
<http://www.biomedsearch.com/nih/Shoulder-joint-kinetics-during-wheelchair/19773798.html>
- 4) ICF Core Sets for individuals with spinal cord injury in the early post-acute context. Kirchberger I, Cieza A, Biering-Sørensen F, Baumberger M, Charlifue S, Post MW, Campbell R, Kovindha A, Ring H, Sinnott A, Kostanjsek N, Stucki G. *Spinal Cord*. 2010 Apr;48(4):297-304.
<http://www.nature.com/sc/journal/v48/n4/abs/sc2009128a.html>
- 5) ICF Core Sets for individuals with spinal cord injury in the long-term context. Cieza A, Kirchberger I, Biering-Sørensen F, Baumberger M, Charlifue S, Post MW, Campbell R, Kovindha A, Ring H, Sinnott A, Kostanjsek N, Stucki G. *Spinal Cord*. 2010 Apr;48(4):305-12
<http://www.nature.com/sc/journal/v48/n4/abs/sc2009183a.html>

- 6) Task-specificity vs. ceiling effect: Step-training in shallow water after spinal cord injury. Keurzi J, Brown EH, Shum-Siu A, Siu A, Burke D, Morehouse J, Smith RR, Magnuson DS. *Exp Neurol*. 2010 Mar 17. [Epub ahead of print]
<http://www.ncbi.nlm.nih.gov/pubmed/20302862>
- 7) Bone Marrow Stromal Cell Transplantation for Treatment of Sub-acute Spinal Cord Injury in the Rat. Ide C, Nakai Y, Nakano N, Seo TB, Yamada Y, Endo K, Noda T, Saito F, Suzuki Y, Fukushima M, Nakatani T. *Brain Res*. 2010 Mar 19. [Epub ahead of print]
<http://www.ncbi.nlm.nih.gov/pubmed/20307513>

Section: Multiple Sclerosis

Section Editor: Victor W Mark, MD, University of Alabama at Birmingham

- 1) Bejaoui K, Rolak LA. What is the risk of permanent disability from a multiple sclerosis relapse? *Neurology* 2010; 74:900-2.
<http://www.neurology.org/cgi/content/short/74/11/900?rss=1>
- 2) Jongen P, Sindic C, Carton H, Zwanikken C, Lemmens W, Borm G. Improvement of health-related quality of life in relapsing remitting multiple sclerosis patients after 2 years of treatment with intramuscular interferon-beta-1a. *J Neurol* 2010; 257:584-9.
<http://www.springerlink.com/content/b662811024p77225/>
- 3) Schultheis MT, Weisser V, Ang J et al. Examining the relationship between cognition and driving performance in multiple sclerosis. *Arch Phys Med Rehabil* 2010; 91:465-73.
[http://www.archives-pmr.org/article/S0003-9993\(09\)00936-8/abstract](http://www.archives-pmr.org/article/S0003-9993(09)00936-8/abstract)
- 4) Starck M, Albrecht H, Pöllmann W, Dieterich M, Straube A. Acquired pendular nystagmus in multiple sclerosis: an examiner-blind cross-over treatment study of memantine and gabapentin. *J Neurol* 2010; 257:322-7.
<http://www.springerlink.com/content/nv36251m70029625/>
- 5) Steffensen LH, Mellgren SI, Kampman MT. Predictors and prevalence of low bone mineral density in fully ambulatory persons with multiple sclerosis. *J Neurol* 2010; 257:410-8.
<http://www.springerlink.com/content/m2541881p2734432/>

Section: Traumatic Brain Injury

Section Editors: Stuart Yablon, MD, Methodist Rehab Center, Jackson, MS;
Robert Ruff, MD, PHD, Louis B. Stokes Cleveland Veterans
Affairs Medical Center

- 1) Maller JJ, Thomson RH, Lewis PM, Rose SE, Pannek K, Fitzgerald PB. Traumatic brain injury, major depression, and diffusion tensor imaging: Making connections. *Brain Res Rev* 2010 Apr 10. [Epub ahead of print]
<http://www.ncbi.nlm.nih.gov/pubmed/20388528?dopt=Abstract>
- 2) Hymel KP, Stoiko MA, Herman BE, Combs A, Harper NS, Lowen D, Deye KP, Homa K, Blackman JA. Head injury depth as an indicator of causes and mechanisms. *Pediatrics* 2010; 125: 712-20.
<http://pediatrics.aappublications.org/cgi/content/abstract/125/4/712>
- 3) Monti MM, Vanhaudenhuyse A, Coleman MR, Boly M, Pickard JD, Tshibanda L, Owen AM, Laureys S. Willful modulation of brain activity in disorders of consciousness. *N Engl J Med* 2010; 362: 579-89.
<http://content.nejm.org/cgi/content/full/NEJMoa0905370>
- 4) AR Mayer, J Ling, MV Mannell, C Gasparovic, JP Phillips, D Doezema, R Reichard, RA Yeo. A prospective diffusion tensor imaging study in mild traumatic brain injury. *Neurology* 2010; 74: 643 - 650.
<http://www.neurology.org/cgi/content/abstract/WNL.0b013e3181d0ccddv1>
- 5) Carlile M, Nicewander D, Yablon SA, Brown A, Brunner R, Burke D, Chae H, Englander J, Flanagan S, Hammond F, Khademi A, Lombard LA, Meythaler JM, Mysiw WJ, Zafonte R, Diaz-Arrastia R. Prophylaxis for venous thromboembolism during rehabilitation for traumatic brain injury: a multicenter observational study. *J Trauma* 2010; 68: 916-23.
http://journals.lww.com/jtrauma/Abstract/2010/04000/Prophylaxis_for_Venous_Thromb_oembolism_During.26.aspx
- 6) M Pardini, F Krueger, V Raymont, J Grafman.. Ventromedial prefrontal cortex modulates fatigue after penetrating traumatic brain injury. *Neurology* 2010; 74: 749 - 754.
<http://www.neurology.org/cgi/content/abstract/74/9/749>
- 7) Matthew J. Meyer, Joseph Megyesi, Jay Meythaler, Manuel Murie-Fernandez, Jo-Anne Aubut, Norine Foley, Katherine Salter, Mark Bayley, Shawn Marshall, Robert Teasell. Acute management of acquired brain injury part I: An evidence-based review of non-pharmacological interventions. *Brain Inj* 2010; 24: 694-705.
<http://informahealthcare.com/doi/abs/10.3109/02699051003692118>
- 8) Matthew J. Meyer, Joseph Megyesi, Jay Meythaler, Manuel Murie-Fernandez, Jo-Anne Aubut, Norine Foley, Katherine Salter, Mark Bayley, Shawn Marshall, Robert Teasell. Acute management of acquired brain injury part II: An evidence-based review of pharmacological interventions. *Brain Inj* 2010; 24: 706-721.
<http://informahealthcare.com/doi/abs/10.3109/02699051003692126>
- 9) Matthew J. Meyer, Joseph Megyesi, Jay Meythaler, Manuel Murie-Fernandez, Jo-Anne Aubut, Norine Foley, Katherine Salter, Mark Bayley, Shawn Marshall, Robert Teasell.

Acute management of acquired brain injury Part III: An evidence-based review of interventions used to promote arousal from coma. *Brain Inj* 2010; 24: 722-729.
<http://informahealthcare.com/doi/abs/10.3109/02699051003692134>