

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 jlush@som.umaryland.edu. Thanks!

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

Section: Stroke and General Research of Interest

Section Editor: Lauren Jones-Lush, PhD, University of Maryland, School of Medicine

- 1) Responsiveness and Validity of 3 Outcome Measures of Motor Function After Stroke Rehabilitation. Middel B, van Sonderen E. Stroke. 2010 May 13. PMID: 20466993
<http://www.ncbi.nlm.nih.gov/pubmed/20466993>
- 2) Upper Limb Function as an Outcome Predictor in Acute Stroke. Corea F, Scarponi F, Zampolini M. Stroke. 2010 May 13. PMID: 20466992
<http://www.ncbi.nlm.nih.gov/pubmed/20466992>
- 3) Force control and degree of motor impairments in chronic stroke. Lodha N, Naik SK, Coombes SA, Cauraugh JH. Clin Neurophysiol. 2010 Apr 30. PMID: 20435515
<http://www.ncbi.nlm.nih.gov/pubmed/20435515>
- 4) Top-cited articles in rehabilitation. Shadgan B, Roig M, Hajghanbari B, Reid WD. Arch Phys Med Rehabil. 2010 May;91(5):806-15. PMID: 20434622
<http://www.ncbi.nlm.nih.gov/pubmed/20434622>
- 5) Randomized Trial of Treadmill Walking With Body Weight Support to Establish Walking in Subacute Stroke. The MOBILISE Trial. Ada L, Dean CM, Morris ME, Simpson JM, Katrak P. Stroke. 2010 Apr 22. PMID: 20413741
<http://www.ncbi.nlm.nih.gov/pubmed/20413741>
- 6) Using Transcranial Direct-Current Stimulation to Treat Stroke Patients With Aphasia. Baker JM, Rorden C, Fridriksson J. Stroke. 2010 Apr 15. PMID: 20395612
<http://www.ncbi.nlm.nih.gov/pubmed/20395612>
- 7) Stroke Centers. Proof of Concept and the Concept of Proof. Alberts MJ. Stroke. 2010 Apr 15. PMID: 20395604
<http://www.ncbi.nlm.nih.gov/pubmed/20395604>
- 8) Repetitive transcranial magnetic stimulation (rTMS) of the dorsolateral prefrontal cortex (DLPFC) during capsaicin-induced pain: modulatory effects on motor cortex excitability. Fierro B, De Tommaso M, Giglia F, Giglia G, Palermo A, Brighina F. Exp Brain Res. 2010 May;203(1):31-8. Epub 2010 Mar 16. PMID: 20232062
<http://www.ncbi.nlm.nih.gov/pubmed/20232062>

- 9) Task-dependent modulation of inputs to proximal upper limb following transcranial direct current stimulation of primary motor cortex. Bradnam LV, Stinear CM, Lewis GN, Byblow WD. *J Neurophysiol.* 2010 May;103(5):2382-9. Epub 2010 Mar 10. PMID: 20220073
<http://www.ncbi.nlm.nih.gov/pubmed/20220073>
- 10) Stroke-related differences in axial body segment coordination during preplanned and reactive changes in walking direction. Hollands KL, van Vliet P, Zietz D, Wing A, Wright C, Hollands MA. *Exp Brain Res.* 2010 May;202(3):591-604. Epub 2010 Jan 28. PMID: 20107979
<http://www.ncbi.nlm.nih.gov/pubmed/20107979>
- 11) Therapeutic role of rTMS on recovery of dysphagia in patients with lateral medullary syndrome and brainstem infarction. Khedr EM, Abo-Elfetoh N. *J Neurol Neurosurg Psychiatry.* 2010 May;81(5):495-9. Epub 2009 Oct 14. PMID: 19828479
<http://www.ncbi.nlm.nih.gov/pubmed/19828479>

Section: Spinal Cord Injury

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

- 1) Demographic characteristics after traumatic and non-traumatic spinal cord injury: a retrospective comparison study. Cosar SN, Yemisci OU, Oztop P, Cetin N, Sarifakioglu B, Yalbuздag SA, Ustaomer K, Karatas M. *Spinal Cord.* 2010 May 4.
<http://www.ncbi.nlm.nih.gov/pubmed/20440301>
- 2) A systematic review of pharmacologic treatments of pain after spinal cord injury. Teasell RW, Mehta S, Aubut JA, Foulon B, Wolfe DL, Hsieh JT, Townson AF, Short C; Spinal Cord Injury Rehabilitation Evidence Research Team. *Arch Phys Med Rehabil.* 2010 May;91(5):816-31.
<http://www.ncbi.nlm.nih.gov/pubmed/20434623>
- 3) A randomized, double-blinded, crossover pilot study assessing the effect of nabilone on spasticity in persons with spinal cord injury. Pooyania S, Ethans K, Szturm T, Casey A, Perry D. *Arch Phys Med Rehabil.* 2010 May;91(5):703-7.
<http://www.ncbi.nlm.nih.gov/pubmed/20434606>
- 4) Positive effect of balance training with visual feedback on standing balance abilities in people with incomplete spinal cord injury. Sayenko DG, Alekhina MI, Masani K, Vette AH, Obata H, Popovic MR, Nakazawa K. *Spinal Cord.* 2010 Apr 20.
<http://www.ncbi.nlm.nih.gov/pubmed/20404833>
- 5) Ankle motor skill is intact in spinal cord injury, unlike stroke: implications for rehabilitation. van Hedel HJ, Wirth B, Curt A. *Neurology.* 2010 Apr 20;74(16):1271-8.
<http://www.ncbi.nlm.nih.gov/pubmed/20404308>

- 6) SCIREhab: a model for rehabilitation research using comprehensive person, process and outcome data. Whiteneck G, Gassaway J. *Disabil Rehabil.* 2010 Apr 14. <http://www.ncbi.nlm.nih.gov/pubmed/20392171>
- 7) Spontaneous motor rhythms of the back and legs in a patient with a complete spinal cord transection. Nadeau S, Jacquemin G, Fournier C, Lamarre Y, Rossignol S. *Neurorehabil Neural Repair.* 2010 May;24(4):377-83. Epub 2009 Dec 17. <http://www.ncbi.nlm.nih.gov/pubmed/20019383>
- 8) A systematic review of the evidence supporting a role for vasopressor support in acute SCI. Ploumis A, Yadlapalli N, Fehlings MG, Kwon BK, Vaccaro AR. *Spinal Cord.* 2010 May;48(5):356-62. Epub 2009 Nov 24. <http://www.ncbi.nlm.nih.gov/pubmed/19935758>
- 9) Outcome after incomplete spinal cord injury: central cord versus Brown-Sequard syndrome. Wirz M, Zörner B, Rupp R, Dietz V. *Spinal Cord.* 2010 May;48(5):407-14. Epub 2009 Nov 10. <http://www.ncbi.nlm.nih.gov/pubmed/19901956>
- 10) Using the Spinal Cord Independence Measure III to measure functional recovery in a post-acute spinal cord injury program. Ackerman P, Morrison SA, McDowell S, Vazquez L. *Spinal Cord.* 2010 May;48(5):380-7. Epub 2009 Nov 3. <http://www.ncbi.nlm.nih.gov/pubmed/19884897>

Section: Multiple Sclerosis

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

- 1) Dalgas U, Stenager E, Jakobsen J *et al.* Fatigue, mood and quality of life improve in MS patients after progressive resistance training. *Mult Scler* 2010; 16:480-90.
- 2) Halper J, Ross AP. Challenges in the treatment of mobility loss and walking impairment in multiple sclerosis. *Int J MS Care* 2010; 12:13-6.
- 3) Ingram G, Colley E, Ben-Shlomo Y *et al.* Validity of patient-derived disability and clinical data in multiple sclerosis. *Mult Scler* 2010; 16:472-9.
- 4) 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.
- 5) Marriott JJ, Miyasaki JM, Gronseth G, O'Connor PW. Evidence Report: the efficacy and safety of mitoxantrone (Novantrone) in the treatment of multiple sclerosis. Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. *Neurology* 2010; 74:1463-70.

- 6) Noonan CW, Kathman SJ, White MC. Prevalence estimates for MS in the United States and evidence of an increasing trend for women. *Neurology* 2002; 58:136-8.
- 7) Pope GC, Urato CJ, Kulas ED, Kronick R, Gilmer T. Prevalence, expenditures, utilization, and payment for persons with MS in the insured populations. *Neurology* 2002; 58:37-43.
- 8) Prosperini L, Leonardi L, De Carli P, Mannocchi ML, Pozzilli C. Visuo-proprioceptive training reduces risk of falls in patients with multiple sclerosis. *Mult Scler* 2010; 16:491-9.
- 9) Rocca MA, Valsasina P, Absinta M *et al.* Default-mode network dysfunction and cognitive impairment in progressive MS. *Neurology* 2010; 74:1252-9.
- 10) Río J, Comabella M, Montalban X. Predicting responders to therapies for multiple sclerosis [review]. *Nat Rev Neurol* 2009; 5:553-60.
- 11) Tallantyre EC, Bø L, Al-Rawashdeh O *et al.* Clinico-pathological evidence that axonal loss underlies disability in progressive multiple sclerosis. *Mult Scler* 2010; 16:406-11.

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) Morganti-Kossmann MC, Yan E, Bye N. Animal models of traumatic brain injury: Is there an optimal model to reproduce human brain injury in the laboratory? *Injury* 2010; Apr 21.
- 2) Newcombe VF, Williams GB, Scoffings D, Cross J, Carpenter TA, Pickard JD, Menon DK. Aetiological differences in neuroanatomy of the vegetative state: insights from diffusion tensor imaging and functional implications. *J Neurol Neurosurg Psychiatry* 2010;81:552-61.
- 3) Evans RW. Persistent post-traumatic headache, postconcussion syndrome, and whiplash injuries: the evidence for a non-traumatic basis with an historical review. *Headache* 2010;50:716-24.
- 4) Bansal V, Costantini T, Ryu SY, Peterson C, Loomis W, Putnam J, Elicieri B, Baird A, Coimbra R. Stimulating the central nervous system to prevent intestinal dysfunction after traumatic brain injury. *J Trauma* 2010;68:1059-64.

- 5) Katz-Leurer M, Rotem H, Keren O, Meyer S. The immediate effect of treadmill walking on step variability in boys with a history of severe traumatic brain injury and typically-developed controls. *Dev Neurorehabil* 2010;13:170-4.
- 6) Rapoport MJ, Mitchell RA, McCullagh S, Herrmann N, Chan F, Kiss A, Feinstein A, Lancôt KL. A randomized controlled trial of antidepressant continuation for major depression following traumatic brain injury. *J Clin Psychiatry* 2010; Apr 20.
- 7) Senathi-Raja D, Ponsford J, Schönberger M. Impact of age on long-term cognitive function after traumatic brain injury. *Neuropsychology* 2010;24:336-44.
- 8) Kharatishvili I, Pitkänen A. Association of the severity of cortical damage with the occurrence of spontaneous seizures and hyperexcitability in an animal model of posttraumatic epilepsy. *Epilepsy Res* 2010; Apr 30.
- 9) Datta A, Bikson M, Fregni F. Transcranial direct current stimulation in patients with skull defects and skull plates: High-resolution computational FEM study of factors altering cortical current flow. *Neuroimage* 2010; May 6 .