

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) Robot-assisted therapy for long-term upper-limb impairment after stroke.
<http://www.ncbi.nlm.nih.gov/pubmed/20400552>
Lo AC, Guarino PD, Richards LG, Haselkorn JK, Wittenberg GF, Federman DG, Ringer RJ, Wagner TH, Krebs HI, Volpe BT, Bever CT Jr, Bravata DM, Duncan PW, Corn BH, Maffucci AD, Nadeau SE, Conroy SS, Powell JM, Huang GD, Peduzzi P.
N Engl J Med. 2010 May 13;362(19):1772-83. Epub 2010 Apr 16.
PMID: 20400552 [PubMed - indexed for MEDLINE]
- 2) Lesion load of the corticospinal tract predicts motor impairment in chronic stroke.
<http://www.ncbi.nlm.nih.gov/pubmed/20378864>
Zhu LL, Lindenberg R, Alexander MP, Schlaug G.
Stroke. 2010 May;41(5):910-5. Epub 2010 Apr 8.
PMID: 20378864 [PubMed - indexed for MEDLINE]
- 3) Slow (1 Hz) repetitive transcranial magnetic stimulation (rTMS) induces a sustained change in cortical excitability in patients with Parkinson's disease.
<http://www.ncbi.nlm.nih.gov/pubmed/20350836>
Filipović SR, Rothwell JC, Bhatia K.
Clin Neurophysiol. 2010 Jul;121(7):1129-37. Epub 2010 Mar 28.
PMID: 20350836 [PubMed - indexed for MEDLINE]
- 4) Impaired neuronal synchrony after focal ischemic stroke in elderly patients.
<http://www.ncbi.nlm.nih.gov/pubmed/20591730>
Wu W, Sun J, Jin Z, Guo X, Qiu Y, Zhu Y, Tong S.
Clin Neurophysiol. 2010 Jun 28,
PMID: 20591730 [PubMed - as supplied by publisher]
- 5) What Works in Falls Prevention After Stroke?. A Systematic Review and Meta-Analysis.
<http://www.ncbi.nlm.nih.gov/pubmed/20616328>
Batchelor F, Hill K, Mackintosh S, Said C.
Stroke. 2010 Jul 8,
PMID: 20616328 [PubMed - as supplied by publisher]
- 6) Improvement in aphasia scores after stroke is well predicted by initial severity.
<http://www.ncbi.nlm.nih.gov/pubmed/20538700>
Lazar RM, Minzer B, Antonello D, Festa JR, Krakauer JW, Marshall RS.
Stroke. 2010 Jul;41(7):1485-8. Epub 2010 Jun 10.
PMID: 20538700 [PubMed - in process]

- 7) Does spasticity itself raise the cost of stroke care 4-fold?
<http://www.ncbi.nlm.nih.gov/pubmed/20522812>
Dobkin BH.
Stroke. 2010 Jul;41(7):e470; author reply e471. Epub 2010 Jun 3. No abstract available.
PMID: 20522812 [PubMed - in process]
- 8) Effectiveness of virtual reality using wii gaming technology in stroke rehabilitation: a pilot randomized clinical trial and proof of principle.
<http://www.ncbi.nlm.nih.gov/pubmed/20508185>
Saposnik G, Teasell R, Mamdani M, Hall J, McIlroy W, Cheung D, Thorpe KE, Cohen LG, Bayley M; Stroke Outcome Research Canada (SORCan) Working Group.
Stroke. 2010 Jul;41(7):1477-84. Epub 2010 May 27.
PMID: 20508185 [PubMed - in process]
- 9) Combining theta burst stimulation with training after subcortical stroke.
<http://www.ncbi.nlm.nih.gov/pubmed/20489170>
Ackerley SJ, Stinear CM, Barber PA, Byblow WD.
Stroke. 2010 Jul;41(7):1568-72. Epub 2010 May 20.
PMID: 20489170 [PubMed - in process]
- 10) Preswing Knee Flexion Assistance Is Coupled With Hip Abduction in People With Stiff-Knee Gait After Stroke.
<http://www.ncbi.nlm.nih.gov/pubmed/20576947>
Sulzer JS, Gordon KE, Dhaher YY, Peshkin MA, Patton JL.
Stroke. 2010 Jun 24,
PMID: 20576947 [PubMed - as supplied by publisher]
- 11) Effects of a Community-Based Intensive Motor Training Program Combined With Early Supported Discharge After Treatment in a Comprehensive Stroke Unit. A Randomized, Controlled Trial.
<http://www.ncbi.nlm.nih.gov/pubmed/20558830>
Askim T, Mørkved S, Engen A, Roos K, Aas T, Indredavik B.
Stroke. 2010 Jun 17,
PMID: 20558830 [PubMed - as supplied by publisher]

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

- 1) A population-based study comparing traumatic spinal cord injury and non-traumatic spinal cord injury using a national rehabilitation database.
New PW, Simmonds F, Stevermuer T.
Spinal Cord. 2010 Jul 6,
- 2) Differential development of sensory hypersensitivity and a measure of spinal cord hyperexcitability following whiplash injury.
Sterling M.
Pain. 2010 Jun 29,
- 3) Effect of spinal cord injury and its lesion level on stretch reflex modulation by cold stimulation in humans.
Ogata H, Sayenko DG, Yamamoto E, Kitamura T, Yamamoto S, Miyoshi T, Kamibayashi K, Nakazawa K.
Clin Neurophysiol. 2010 Jun 24,
- 4) Impaired transmission in the corticospinal tract and gait disability in spinal cord injured persons.
Barthélemy D, Willerslev-Olsen M, Lundell H, Conway BA, Knudsen H, Biering-Sorensen F, Nielsen JB.
J Neurophysiol. 2010 Jun 16,
- 5) A systematic review of wheelchair skills tests for manual wheelchair users with a spinal cord injury: towards a standardized outcome measure.
Fliess-Douer O, Vanlandewijck YC, Manor GL, Van Der Woude LH.
Clin Rehabil. 2010 Jun 16,
- 6) Functional recovery in children and adolescents with spinal cord injury.
Choksi A, Townsend EL, Dumas HM, Haley SM.
Pediatr Phys Ther. 2010 Summer;22(2):214-21.
- 7) Electrical stimulation plus progressive resistance training for leg strength in spinal cord injury: a randomized controlled trial.
Harvey LA, Fornusek C, Bowden JL, Pontifex N, Glinsky J, Middleton JW, Gandevia SC, Davis GM.
Spinal Cord. 2010 Jul;48(7):570-5. Epub 2010 Jan 12.
- 8) Prediction of severe neurogenic bowel dysfunction in persons with spinal cord injury.
Liu CW, Huang CC, Chen CH, Yang YH, Chen TW, Huang MH.
Spinal Cord. 2010 Jul;48(7):554-9. Epub 2010 Jan 12.
- 9) A systematic review of the therapeutic interventions for heterotopic ossification after spinal cord injury.
Teasell RW, Mehta S, Aubut JL, Ashe MC, Sequeira K, Macaluso S, Tu L; SCIRE Research Team.
Spinal Cord. 2010 Jul;48(7):512-21. Epub 2010 Jan 5.
- 10) Outcome parameters in spinal cord injury research: a systematic review using the International Classification of Functioning, Disability and Health (ICF) as a reference.
Post MW, Kirchberger I, Scheuringer M, Wollaars MM, Geyh S.
Spinal Cord. 2010 Jul;48(7):522-8. Epub 2010 Jan 5.

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

- 1) Oral fingolimod (FTY720) improves performance of daily activities compared with intramuscular interferon beta- 1A: patient-reported indices for multiple sclerosis (PRIMUS activities) results from the TRANSFORMS phase 3 trial. Cohen J, Khatri B, Barkhof F et al. *Int J MS Care* 2010; 12(Suppl 1):3-4.
- 2) A combination of robot-assisted and body weight-supported treadmill training improves gait in people with multiple sclerosis. Fawcett JA, Labas MP, Triche EW, Lo AC. *Int J MS Care* 2010; 12(Suppl 1):26-7.
- 3) Impact of resistance training on balance and gait in multiple sclerosis. Filipi ML, Leuschen MP, Huisinga J et al. *Int J MS Care* 2010; 12:6-12.
- 4) Effect of a single bout of intermittent versus continuous walking on perceptions of fatigue in people with multiple sclerosis. Karpatkin H. *Int J MS Care* 2010; 12(Suppl 1):8.
- 5) Estimating cerebral atrophy in multiple sclerosis patients from various MR pulse sequences. Leigh R, Ostuni J, Pham D et al. *Mult Scler* 2002; 8:420-9.
- 6) The measurement of upper-extremity learned nonuse in multiple sclerosis. Mark VW., Taub E, Cutter GC et al. *Int J MS Care* 2010; 12(Suppl 1):49 .
- 7) Physical activity predicts progression of mobility impairments in multiple sclerosis. Motl RW, McAuley E, Wynn D. *Int J MS Care* 2010; 12(Suppl 1):9-10.
- 8) Safety and feasibility of autologous bone marrow cellular therapy in relapsing-progressive multiple sclerosis. Rice CM, Mallam EA, Whone AL et al. *Clin Pharmacol* 2010; 87:679-85.
- 9) Black holes in multiple sclerosis: definition, evolution, and clinical correlations [review]. Sahraian MA, Radue EW, Haller S, Kappos L. *Acta Neurol Scand* 2010; 122:1-8.
- 10) Dalfampridine improves walking in multiple sclerosis patients pooled data from three clinical trials. Schapiro RT, Goodman AD, Brown TR, Marinucci LN, Cohen R, Blight AR. *Int J MS Care* 2010; 12(Suppl 1):60-1.
- 11) Living with multiple sclerosis: longitudinal changes in employment and the importance of symptom management. Simmons RD, Tribe KL, McDonald EA. *J Neurol* 2010; 257:936-. Chiaravalloti N, DeLuca J.
- 12) Intellectual enrichment lessens the effect of brain atrophy on learning and memory in multiple sclerosis. Sumowski JF, Wylie GR, *Neurology* 2010; 74:1942-5.
- 13) The impact of gait disability on the calibration of accelerometer output in adults with multiple sclerosis. Weikert ML, Dlugonski D, Suh Y, Brian S, Motl RW. *Int J MS Care* 2010; 12(Suppl 1):73-4.
- 14) Accelerometry: free-living measure of ambulatory impairments in multiple sclerosis. Weikert ML, Suh Y, Sandroff B et al. *Int J MS Care* 2010; 12(Suppl 1):73.

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) A meta-analytic review of the emotional symptoms associated with mild traumatic brain injury.
Panayiotou A, Jackson M, Crowe SF.
J Clin Exp Neuropsychol 2010;32:463-73.
- 2) Mild traumatic brain injury tissue texture analysis correlated to neuropsychological and DTI Findings.
Holli KK, Wäljas M, Harrison L, Liimatainen S, Luukkaala T, Ryymin P, Eskola H, Soimakallio S, Ohman J, Dastidar P.
Acad Radiol 2010 Jun 2,
- 3) Medscape. Blood-brain barrier breakdown as a therapeutic target in traumatic brain injury.
Shlosberg D, Benifla M, Kaufer D, Friedman A;
Nat Rev Neurol 2010 Jun 15,
- 4) Electroencephalogram in children with minor traumatic brain injury.
Oster I, Shamdeen GM, Gottschling S, Gortner L, Meyer S.
J Paediatr Child Health 2010 Jun 8,
- 5) Resting CBF alterations in chronic traumatic brain injury: An arterial spin labeling perfusion fMRI study.
Kim J, Whyte J, Patel S, Avants B, Europa E, Wang J, Slattery J, Gee JC, Coslett HB, Detre JA.
J Neurotrauma 2010 Jun 7,
- 6) The nature of processing speed deficits in traumatic brain injury: is less brain more?
Hillary FG, Genova HM, Medaglia JD, Fitzpatrick NM, Chiou KS, Wardecker BM, Franklin RG Jr, Wang J, DeLuca J.
Brain Imaging Behav 2010;4:141-54.
- 7) Tracking recovery of vestibular function in individuals with blast-induced head trauma using vestibular-visual-cognitive interaction tests.
Gottshall KR, Hoffer ME.
J Neurol Phys Ther 2010;34:94-7.
- 8) Effect of Growth Hormone Replacement Therapy on Cognition after Traumatic Brain Injury.
High WM, Briones-Galang M, Clark JA, Gilkison C, Mossberg KA, Zgaljardic DJ, Masel BS, Urban RJ.
J Neurotrauma 2010 Jun 25,