

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) Enhanced spinal excitation from ankle flexors to knee extensors during walking in stroke patients. Achache V, Mazevet D, Iglesias C, Lackmy A, Nielsen JB, Katz R, Marchand-Pauvert V. *Clin Neurophysiol*. 2010 Jun;121(6):930-8. Epub 2010 Feb 11. PMID: 20153246 [PubMed - in process]
<http://www.ncbi.nlm.nih.gov/pubmed/20153246>
- 2) Cortical excitability and interhemispheric inhibition after subcortical pediatric stroke: Plastic organization and effects of rTMS. Kirton A, Deveber G, Gunraj C, Chen R. *Clin Neurophysiol*. 2010 May 26. [Epub ahead of print] PMID: 20537584 [PubMed - as supplied by publisher]
<http://www.ncbi.nlm.nih.gov/pubmed/20537584>
- 3) Compensatory motor control after stroke: an alternative joint strategy for object-dependent shaping of hand posture. Raghavan P, Santello M, Gordon AM, Krakauer JW. *J Neurophysiol*. 2010 Jun;103(6):3034-43. Epub 2010 Mar 24. PMID: 20457866 [PubMed - in process]
<http://www.ncbi.nlm.nih.gov/pubmed/20457866>
- 4) Less could be more when it comes to diffusion imaging of acute stroke. Kosior RK, Hill MD, Frayne R. *Neurology*. 2010 May 19. [Epub ahead of print] No abstract available. PMID: 20484683 [PubMed - as supplied by publisher]
<http://www.ncbi.nlm.nih.gov/pubmed/20484683>
- 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 Jun;41(6):1237-42. Epub 2010 Apr 22. PMID: 20413741 [PubMed - indexed for MEDLINE]
<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 Jun;41(6):1229-36. Epub 2010 Apr 15. PMID: 20395612 [PubMed - indexed for MEDLINE] **Free PMC Article** [Free text](#)
<http://www.ncbi.nlm.nih.gov/pubmed/20395612>
- 7) Combining Theta Burst Stimulation With Training After Subcortical Stroke. Ackerley SJ, Steinar CM, Barber PA, Byblow WD. *Stroke*. 2010 May 20. [Epub ahead of print] PMID: 20489170 [PubMed - as supplied by publisher]
<http://www.ncbi.nlm.nih.gov/pubmed/20489170>

Section: Spinal Cord Injury

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

- 1) Exhaled nitric oxide levels are elevated in persons with tetraplegia and comparable to that in mild asthmatics.
Radulovic M, Schilero GJ, Wecht JM, La Fountaine M, Rosado-Rivera D, Bauman WA. Lung. 2010 Jun;188(3):259-62. Epub 2009 Dec 15.
- 2) Bladder Management After Spinal Cord Injury in the United States 1972 to 2005.
Cameron AP, Wallner LP, Tate DG, Sarma AV, Rodriguez GM, Clemens JQ. J Urol. 2010 May 15. [Epub ahead of print]
- 3) Clinical prospects for transplantation of OECs in the repair of brachial and lumbo-sacral plexus injuries: Opening a door.
Raisman G, Carlstedt T, Choi D, Li Y. Exp Neurol. 2010 May 17. [Epub ahead of print]
- 4) Chronic Pain after Spinal Cord Injury: Results of a Long-Term Study.
Modirian E, Pirouzi P, Soroush M, Karbalaee-Esmaeili S, Shojaei H, Zamani H. Pain Med. 2010 May 19. [Epub ahead of print]
- 5) Challenges, concerns and common problems: physiological consequences of spinal cord injury and microgravity.
Scott JM, Warburton DE, Williams D, Whelan S, Krassioukov A. Spinal Cord. 2010 May 25. [Epub ahead of print]
- 6) Recovery of motoneuron and locomotor function after spinal cord injury depends on constitutive activity in 5-HT_{2C} receptors.
Murray KC, Nakae A, Stephens MJ, Rank M, D'Amico J, Harvey PJ, Li X, Harris RL, Ballou EW, Anelli R, Heckman CJ, Mashimo T, Vavrek R, Sanelli L, Gorassini MA, Bennett DJ, Fouad K. Nat Med. 2010 Jun;16(6):694-700. Epub 2010 May 30.
- 7) Occurrence and predictors of pressure ulcers during primary in-patient spinal cord injury rehabilitation.
Verschuere JH, Post MW, de Groot S, van der Woude LH, van Asbeck FW, Rol M. Spinal Cord. 2010 Jun 8. [Epub ahead of print]
- 8) Patient preferences for next generation neural prostheses to restore bladder function.
Sanders PM, Ijzerman MJ, Roach MJ, Gustafson KJ. Spinal Cord. 2010 Jun 8. [Epub ahead of print]
- 9) Slope analysis of somatosensory evoked potentials in spinal cord injury for detecting contusion injury and focal demyelination.
Agrawal G, Sherman D, Maybhate A, Gorelik M, Kerr DA, Thakor NV, All AH. J Clin Neurosci. 2010 Jun 8. [Epub ahead of print] b 2009 Nov 3.

Section: Multiple Sclerosis

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

- 1) 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.
- 2) Predicting habitual walking performance in multiple sclerosis: relevance of capacity and self-report measures.
Gijbels D, Alders G, Van Hoof E *et al.*
Mult Scler 2010; 16:618-26.
- 3) Emerging multiple sclerosis oral therapies [review].
Rammohan KW, Shoemaker
J. Neurology 2010; 74(Suppl 1):S47-S53.
- 4) 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.
- 5) 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.
- 6) 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-.
- 7) Aging with multiple sclerosis [review].
Stern M, Sorkin L, Milton K, Sperber K.
Phys Med Rehabil Clin N Am 2010; 21:403-17.
- 8) Outcome measurement in multiple sclerosis: detection of clinically relevant improvement.
van Winsen L, Kragt JJ, Hoogervorst E, Polman CH, Uitdehaag B.
Mult Scler 2010; 16:604-10.

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) Prognosis of six-month functioning after moderate to severe traumatic brain injury: a systematic review of prospective cohort studies.
Husson EC, Ribbers GM, Willemsse-van Son AH, Verhagen AP, Stam HJ.
J Rehabil Med 2010;42:425-36.
- 2) Quality of Life after Brain Injury (QOLIBRI) - Scale Development and Metric Properties.
von Steinbuechel N, Wilson L, Gibbons H, Hawthorne G, Höfer S, Schmidt S, Bullinger M, Maas A, Neugebauer E, Powell J, von Wild K, Zitnay G, Bakx W, Christensen AL, Koskinen S, Sarajuuri J, Formisano R, Sasse N, Truelle JL.
J Neurotrauma 2010 May 20. [Epub ahead of print]
- 3) Rates of major depressive disorder and clinical outcomes following traumatic brain injury.
Bombardier CH, Fann JR, Temkin NR, Esselman PC, Barber J, Dikmen SS.
JAMA 2010 May 19;303:1938-45.
- 4) Are functional deficits in concussed individuals consistent with white matter structural alterations: combined FMRI & DTI study.
Zhang K, Johnson B, Pennell D, Ray W, Sebastianelli W, Slobounov S.
Exp Brain Res. 2010 May 23. [Epub ahead of print]
- 5) Aetiological differences in neuroanatomy of the vegetative state: insights from diffusion tensor imaging and functional implications.
Newcombe VF, Williams GB, Scoffings D, Cross J, Carpenter TA, Pickard JD, Menon DK. J Neurol Neurosurg Psychiatry 2010;81:552-61.
- 6) Neurological effects of blast injury.
Hicks RR, Fertig SJ, Desrocher RE, Koroshetz WJ, Pancrazio JJ.
J Trauma 2010;68:1257-63.
- 7) Sleep disturbance and melatonin levels following traumatic brain injury.
Shekleton JA, Parcell DL, Redman JR, Phipps-Nelson J, Ponsford JL, Rajaratnam SM.
Neurology 2010 25;74:1732-8.
- 8) Cerebrocerebellar hypometabolism associated with repetitive blast exposure mild traumatic brain injury in 12 Iraq war Veterans with persistent post-concussive symptoms.
Peskind ER, Petrie EC, Cross DJ, Pagulayan K, McCraw K, Hoff D, Hart K, Yu CE, Raskind MA, Cook DG, Minoshima S.
Neuroimage. 2010. [Epub ahead of print]