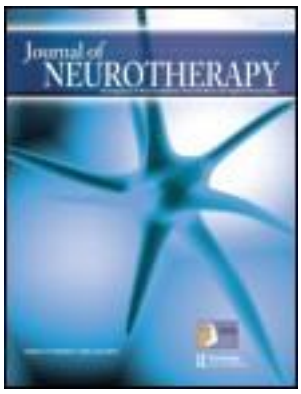

Journal of Neurotherapy: Investigations in Neuromodulation, Neurofeedback and Applied Neuroscience

News from Other Journals and Websites

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NEWS FROM OTHER JOURNALS AND WEBSITES

David A. Kaiser, PhD, Editor

Clinical Neuroscience has not been added to National Institute of Health's Medline dictionary (MeSH), but the term and field are growing in popularity. To submit preprints, reprints, or reviews contact David Kaiser at dakaiser@skiltopo.com.

NEUROTHERAPY

Rossiter, T. (2004). The effectiveness of neurofeedback and stimulant drugs in treating AD/HD: Part II. Replication. *Applied Psychophysiology and Biofeedback, 29,* 233-243.

Neurofeedback produced patient outcomes equivalent to those obtained with stimulant drugs (n = 31 matched groups).

ELECTROENCEPHALOGRAPHY

Fein, G., & Allen, J. (2005). EEG spectral changes in treatment-naive, actively drinking alcoholics. *Alcoholism, Clinical and Experimental Research, 29,* 538-546.

Increased EEG power across theta to high beta bands distinguishes treatment-naive alcoholics from controls.

Manchanda, R., Norman, R., Malla, A., Harricharan, R., Takhar, J., & Northcott, S. (2005). EEG abnormalities and two year outcome in first episode psychosis. *Acta Psychiatric Scandinavica, 111,* 208-213.

doi:10.1300/J184v09n04_04

Patients with normal EEG show more reduction in positive and negative symptoms of psychoses over two years.

Sammer, G., Blecker, C., Gebhardt, H., Kirsch, P., Stark, R., & Vaitl, D. (2005). (2005). Acquisition of typical EEG waveforms during fMRI: SSVEP, LRP, and frontal theta. *Neuroimage, 24,* 1012-1024.

MRI images could be acquired during EEG recording without significant distortion.

Schutter, D. J., Peper, J. S., Koppeschaar, H. P., Kahn, R. S., & van Honk, J. (2005). Administration of testosterone increases functional connectivity in a cortico-cortical depression circuit. *Journal of Neuropsychiatry & Clinical Neurosciences, 17,* 372-377.

One dose of testosterone in depressed women increased functional connectivity (EEG coherence) between left prefrontal and right parietal cortex, a posited depression circuit.

Sutton, S. K., Burnette, C. P., Mundy, P. C., Meyer, J., Vaughan, A., Sanders, C., et al. (2005). Resting cortical brain activity and social behavior in higher functioning children with autism. *Journal of Child Psychology and Psychiatry, 46,* 211-222.

High functioning autistics with right frontal EEG asymmetry were more socially impaired than a left asymmetry group, but the latter reported more social anxiety and stress, and less satisfaction with interpersonal relations.

CLINICAL NEUROSCIENCE AND OTHERS

Back, S. E., Brady, K. T., Jackson, J. L., Salstrom, S., & Zinzow, H. (2005). Gender differences in stress reactivity among cocaine-depending individuals. *Psychopharmacology (Berlin), 180,* 169-176.

Mechanisms linking stress and substance abuse may be gender specific.

Bermpohl, F., Fregni, F., Boggio, P. S., Thut, G., Northoff, G., Otachi P. T., et al. (2005). Left prefrontal repetitive transcranial magnetic stimulation impairs performance in affective go/no-go task. *Neuroreport, 16,* 615-619.

A picture-based affective go/no-go task was impaired by left prefrontal repetitive transcranial magnetic stimulation compared with right prefrontal or occipital stimulation.

Bufkin, J. L., & Luttrell, V. R. (2005). Neuroimaging studies of aggressive and violent behavior: Current findings and implications for criminology and criminal justice. *Trauma & Violence Abuse, 6,* 176-191.

Reviews 17 neuroimaging studies. Compromise in prefrontal cortex and medial temporal regions are implicated in aggressive or violent histories.

Derakhshan, I. (2005). Laterality of motor control revisited: directionality of callosal traffic and its rehabilitative implications. *Topics in Stroke Rehabilitation, 12,* 76-82.

Interesting argument against non-dominant hemispheric input to motor control. If it turns out to be true, it would be very useful for assessment and treatment issues.

Greene, J., & Cohen, J. (2004). For the law, neuroscience changes nothing and everything. *Philosophical Transactions of the Royal Society London Biological Sciences, 359,* 1775-1785.

Review and speculation of the promise cognitive neuroscience holds for explaining the operations of the mind and misbehavior.

Haist, F., Adamo, M., Westerfield, M., Courchesne, E., & Townsend, J. (2005). The functional neuroanatomy of spatial attention in autism spectrum disorder. *Developmental Neuropsychology, 27,* 425-458.

Autism spectrum disorders exhibit a dysfunctional cerebello-frontal spatial attention system.

Heiden, A., Kettenbach, J., Fischer, P., Schein, B., Ba-Ssalamah, A., Frey, R., et al. (2005). White matter hyperintensities and chronicity of depression. *Journal of Psychiatric Research, 39,* 285-293.

White matter hyperintensities was associated with greater depression ratings, severity courses, and lower MMSE scores.

Irle, E., Lange, C., & Sachsse, U. (2005). Reduced size and abnormal asymmetry of parietal cortex in women with borderline personality disorder. *Biological Psychiatry, 57,* 173-182.

Smaller hippocampal size is found in BPD and PTSD, possibly reflecting a neurodevelopmental deficit of the right hemisphere in BPD.

Johansson, B. B. (2004). Brain plasticity in health and disease. *Keio Journal of Medicine, 53,* 231-246.

Frequent participation in challenging and stimulating activities is associated with reduced cognitive decline during aging.

Kamarajan, C., Porjesz, B., Jones, K. A., Chorlian, D. B., Padmanabhapillai, A., Rangaswamy, M., et al. (2005). Spatial-anatomical mapping of NoGo-P3 in the offspring of alcoholics: Evidence of cognitive and neural disinhibition as a risk for alcoholism. *Clinical Neurophysiology, 116,* 1049-1061.

Dysfunctional neural and response inhibition in offspring of alcoholics may provide an endophenotypic marker of risk.

Kessels, R. P., Hendriks, M., Schouten, J., Van Asselen, M., & Postma, A. (2004). Spatial memory deficits in patients after unilateral selective amygdalohippocampectomy. *Journal of International Neuropsychology Society, 10,* 907-912.

Left amygdalohippocampectomy patients perform poorly on binding together object information to coordinate spatial locations. Right amygdalohippocampectomy patients are impaired in coordinate positional memory.

Koshino, H., Carpenter, P. A., Minshew, N. J., Cherkassky, V. L., Keller, T. A., & Just, M. A. (2005). Functional connectivity in an fMRI working memory task in high-functioning autism. *Neuroimage, 24,* 810-821.

Activity in prefrontal regions was more correlated with left parietal regions for controls and the right parietal regions for the autism group.

Li, C. S., Kosten, T. R., & Sinha, R. (2005). Sex differences in brain activation during stress imagery in abstinent cocaine users: a functional magnetic resonance imaging study. *Biological Psychiatry, 57,* 487-494.

Females show more activation in left middle frontal, anterior cingulate, and inferior frontal cortices and insula during stress imagery, possibly because they use a more verbal coping strategy than males.

Mackowiak, M., Chocyk, A., Markowicz-Kula, K., & Wedzony, K. (2004). Neurogenesis in the adult. *Polish Journal of Pharmacology, 56,* 673-687.

Impairment of adult neurogenesis may be one of the culprits behind certain brain diseases, like depression, epilepsy, and neurodegenerative disorders.

Moeller, F. G., Hasan, K. M., Steinberg, J. L., Kramer, L. A., Dougherty, D. M., Santos, R. M., et al. (2005). Reduced anterior corpus callosum white matter integrity is related to increased impulsivity and re-

duced discriminability in cocaine-dependent subjects: Diffusion tensor imaging. *Neuropsychopharmacology, 30,* 610-617.

Reduced integrity of anterior corpus callosum white matter in cocaine users is related to impaired impulse control.

Parker, J. S., & Benson, M. J. (2004). Parent-adolescent relations and adolescent functioning: Self-esteem, substance abuse, and delinquency. *Adolescence, 39,* 519-530.

High parental support and parental monitoring were related to greater self-esteem and lower risk behaviors.

Sinha, D., & Efron, D. (2005). Complementary and alternative medicine use in children with attention deficit hyperactivity disorder. *Journal of Paediatric Child Health, 41,* 23-26.

Australian families used a total of 23 different therapies for ADHD, the most common were modified diet, vitamins or minerals, dietary supplements, aromatherapy and chiropractics.

Strangman, G., O'Neil-Pirozzi, T. M., Burke, D., Cristina, D., Goldstein, R., Rauch, S. L., et al. (2005). Functional neuroimaging and cognitive rehabilitation for people with traumatic brain injury. *American Journal of Physical Medicine & Rehabilitation, 84,* 62-75.

Reviews current literature on functional neuroimaging after traumatic brain injury, relating these findings to cognitive rehabilitation.

Thompson-Schill, S. L., Bedny, M., & Goldberg, R. F. (2005). The frontal lobes and the regulation of mental activity. *Current Opinion in Neurobiology, 15,* 219-224.

Discusses the implications of possibly specific or modular frontal lobe mechanisms compared to general regulatory mechanisms.

ONLINE RESOURCES

Google's newest info tools: http://www.google.com/intl/en/options/

Two popular tools are keyword news searches and email alerts (here, for "EEG").

News search:	http://news.google.com/news?q=eeg
E-mail alert:	http://www.google.com/alerts?q=eeg

Psychology in the News:	http://www.psychwatch.com/news.htm
Health & Medicine News:	http://www.sciencedaily.com/news/health_summaries.php
Newspapers and Magazines:	http://www.metagrid.com/ http://www.onlinenewspapers.com/

Two of my favorite Science sections:

Los Angeles Times:	http://www.latimes.com/news/science/
Boston Globe:	http://www.boston.com/news/science/

What's New in Neurofeedback:	http://start.eegspectrum.com/Newsletter/

Monthly webzine edited by David Kaiser in its eighth year!