

- stimulation in Parkinson's disease: Exploiting crossroads of cognition and mood. *Neurosci Biobehav Rev*. 2017; 75: 407-418.
10. Hoogendam JM, Ramakers GM, Di Lazzaro V. Physiology of repetitive transcranial magnetic stimulation of the human brain. *Brain Stimul*. 2010; 3(2): 95-118.
 11. Lenz M, Vlachos A. Releasing the Cortical Brake by Non-Invasive Electromagnetic Stimulation? rTMS Induces LTD of GABAergic Neurotransmission. *Front Neural Circuits*. 2016; 10: 96.
 12. Nitsche MA, Paulus W. Excitability changes induced in the human motor cortex by weak transcranial direct current stimulation. *J Physiol*. 2000; 527(Pt3): 633-639.
 13. Nitsche MA, Nitsche MS, Klein CC, et al. Level of action of cathodal DC polarisation induced inhibition of the human motor cortex. *Clin Neurophysiol*. 2003; 114(4): 600-604.
 14. Gandiga PC, Hummel FC, Cohen LG. Transcranial DC stimulation (tDCS): a tool for double-blind sham-controlled clinical studies in brain stimulation. *Clin Neurophysiol*. 2006; 117(4): 845-850.
 15. Zimmerman M, Hummel FC. Non-Invasive Brain Stimulation: Enhancing Motor and Cognitive Functions In Healthy Old Subjects. *Front Aging Neurosci*. 2010; 2: 149.
 16. Loo CK, McFarquhar TF, Mitchell PB. A review of the safety of repetitive transcranial magnetic stimulation as a clinical treatment for depression. *Int J Neuropsychopharmacol*. 2008; 11(1): 131-147.
 17. Dobek CE, Blumberger DM, Downar J, et al. Risk of seizures in transcranial magnetic stimulation: a clinical review to inform consent process focused on bupropion. *Neuropsychiatr Dis Treat*. 2015; 11:2975-2987.
 18. Fregni F, Boggio PS, Lima MC, et al. A sham-controlled, phase II trial of transcranial direct current stimulation for the treatment of central pain in traumatic spinal cord injury. *Pain*. 2006; 122(1-2): 197-209.
 19. Vestito L, Rosellini S, Mantero M, et al. Long-Term Effects of Transcranial Direct-Current Stimulation in Chronic Post-Stroke Aphasia: A Pilot Study. *Front Hum Neurosci*. 2014; 8: 785.
 20. Medeiros LF, de Souza IC, Vidor LP, et al. Neurobiological effects of transcranial direct current stimulation: A review. *Front Psychiatry*. 2012; 3: 110.
 21. Purpura DP, McMurty JG. Intracellular activities and evoked potential changes during polarization of motor cortex. *J Neurophysiol*, 1965; 28: 166-185
 22. Chan CY, Hounsgaard J, Nicholson C. Effects of electric fields on transmembrane potential and excitability of turtle cerebellar Purkinje cells in vitro. *J Physiol*. 1988; 402: 751-771.
 23. Bindman LJ, Lippold OC, Redfearn JW. The action of brief polarizing currents on the cerebral cortex of the rat (1) during current flow and (2) in the production of long-lasting after-effects. *J Physiol*. 1964; 172(3): 369-382.
 24. Bikson M, Grossman P, Thomas C, et al. Safety of Transcranial Direct Current Stimulation: Evidence Based Update 2016. *Brain Stimul*. 2016; 9(5): 641-661.
 25. Poreisz C, Boros K, Antal A, et al. Safety aspects of transcranial direct current stimulation concerning healthy subjects and patients. *Brain Res Bull*. 2007; 72(4-6):208-214.
 26. Furubayashi T, Terao Y, Arai N, et al. Short and long duration transcranial direct current stimulation (tDCS) over the human hand motor area. *Exp Brain Res*. 2008; 185(2): 279-286.
 27. Brunoni AR, Amadera J, Berbel B, et al. A systematic review on reporting and assessment of adverse effects associated with transcranial direct current stimulation. *Int J Neuropsychopharmacol*. 2011; 14(8): 1133-1145.
 28. Matsumoto H, Ugawa Y. Adverse events of tDCS and tACS: A review. *Clin Neurophysiol Pract*. 2017; 2: 19-25.
 29. Palm U, Keeser D, Schiller C, et al. Skin lesions after treatment with transcranial direct current stimulation (tDCS). *Brain Stim*. 2008; 1(4): 386-387.
 30. Frank E, Wilfurth S, Landgrebe M, et al. Anodal skin lesions after treatment with transcranial direct current stimulation. *Brain Stim*. 2010; 3(1): 58-59.
 31. Antal A, Alekseichuk I, Bikson M, et al. Low intensity transcranial electric stimulation: Safety, ethical, legal regulatory and application guidelines. *Clin Neurophysiol*. 2017; 128(9):1774-1809.
 32. Zhao H, Qiao L, Fan D, et al. Modulation of Brain Activity with Noninvasive Transcranial Direct Current Stimulation (tDCS): Clinical Applications and Safety Concerns. *Front Psychol*. 2017; 8:685.
 33. Nitsche MA, Niehaus L, Hoffmann KT, et al. MRI study of human brain exposed to weak direct current stimulation of the frontal cortex. *Clin Neurophysiol*. 2004; 115(10): 2419-2423.
 34. Iyer MB, Mattu U, Grafman J, et al. Safety and cognitive effect of frontal DC brain polarization in healthy individuals. *Neurology*. 2005; 64(5): 872-875.
 35. Yu X, Li Y, Wen H, et al. Intensity-dependent effects of repetitive anodal transcranial direct current stimulation on learning and memory in a rat model of Alzheimer's disease. *Neurobiol Learn Mem*. 2015; 123: 168-178.
 36. Nik-Mohd-Afizan NAR, Watanabe Y, Takashima I. Safety of the anodal direct current stimulation on the permeability of the rat blood-brain barrier. *Curr Neurobiol*. 2017; 8(2): 34-39.
 37. Liebetanz D, Koch R, Mayenfels S, et al. Safety limits of cathodal transcranial direct current stimulation in rats. *Clin Neurophysiol*. 2009; 120(6): 1161-1167.
 38. Wallez Y, Huber P. Endothelial adherens and tight junctions in vascular homeostasis, inflammation and angiogenesis. *Biochim Biophys Acta*. 2008; 1778(3): 794-809.
 39. Peruzzotti-Jametti L, Cambiaghi M, Bacigaluppi M, et al. Safety and efficacy of transcranial direct current stimulation in acute experimental ischemic stroke. *Stroke*. 2013; 44(11): 3166-3174.
 40. Yilmaz G, Granger DN. Leukocyte recruitment and ischemic brain injury. *Neuromolecular Med*. 2010; 12(2): 193-204.
 41. Abbott NJ, Patabendige AA, Dolman DE, et al. Structure and function of the blood-brain barrier. *Neurobiol Dis*. 2010; 37(1): 13-25.
 42. Rapoport SI. Osmotic opening of the blood-brain barrier: principles, mechanism, and therapeutic applications. *Cell Mol Neurobiol*. 2010; 20(2): 217-230.
 43. Liu LB, Xue YX, Liu YH. Bradykinin increases the permeability of the blood-tumor barrier by the caveolae-mediated transcellular pathway. *J Neurooncol*. 2010; 99(2): 187-194.
 44. Choi M, Ku T, Chong K, et al. Minimally invasive molecular delivery into the brain using optical modulation of vascular permeability. *Proc Natl Acad Sci U S A*. 2011; 108(22): 9256-9261.
 45. Carpentier A, Canney M, Vignot A, Clinical trial of blood-brain barrier disruption by pulsed ultrasound. *Sci Transl Med*. 2016; 8(343): 343re2.
 46. Pulgar VM. Direct electrical stimulation to increase cerebrovascular function. *Front Syst Neurosci*. 2015; 9: 54.
 47. Shin DW, Khadka N, Fan J, et al. Transcranial direct current stimulation transiently increases the blood-brain barrier solute permeability in vivo. *Proc SPIE Medical Imaging*. 2016; 97881X.
 48. Montagne A, Toga AW, Zlokovic BV. Blood-brain Barrier Permeability and Gadolinium: Benefits and Potential Pitfalls in Research. *AMA Neurol*. 2016; 73(1): 13-14.

49. Kapural M, Krizanac-Bengez Lj, Barnett G et al. Serum S-100 β as a possible marker of blood-brain barrier disruption. *Brain Research*. 2002; 940(1-2): 102-104.
50. Kazmierski R, Michalak S, Wencel-Warot A, et al. Serum tight-junction proteins predict hemorrhagic transformation in ischemic stroke patients. *Neurology*. 2012; 79(16): 1677-1685.