TDCS and Cognition in Schizophrenia

Search Strategy:

(DE "Cognition" OR DE "Mental Lexicon" OR DE "Mind Wandering") OR (AB Cognition or cognitive or attenti* or executive or verbal or memory or intelligence or “Negative symp*”)
AND

(DE "Schizophrenia" OR DE "Acute Schizophrenia" OR DE "Catatonic Schizophrenia" OR DE "Childhood Schizophrenia" OR DE "Paranoid Schizophrenia" OR DE "Process Schizophrenia" OR DE "Schizoaffective Disorder" OR DE "Schizophrenia (Disorganized Type)" OR DE "Schizophreniform Disorder" OR DE "Undifferentiated Schizophrenia") OR (AB "schizo*")
AND

(DE "Transcranial Direct Current Stimulation") OR (AB "Transcranial Direct Current Stimulation") OR (AB tdc)

Limits: English Language

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A pilot study investigating the effect of transcranial direct current stimulation on the electrophysiological correlates of working memory in patients with schizophrenia.

Moon, Sun-Young; Kim, Minah; Hwang, Wu Jeong; Lee, Tae Young; Kwon, Jun Soo; Psychiatry Research: Neuroimaging, Vol 284, Feb 28, 2019 pp. 9-12. Publisher: Elsevier Science; [Journal Article]

Subjects: Cognition; Evoked Potentials; Schizophrenia; Short Term Memory; Transcranial Direct Current Stimulation

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Subjects: Auditory Hallucinations; Electrical Stimulation; Frontal Lobe; Schizophrenia; Temporal Lobe; Adulthood (18 yrs & older); Male; Female

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Lindenmayer, J. P.; Kulsa, Mila Kirstie C.; Sultana, Tania; Kaur, Amandeep; Yang, Ran; Ljuri, Isidora; Parker, Benedicto; Khan, Anzalee; Brain Stimulation, Vol 12(1), Jan-Feb, 2019 pp. 54-61. Publisher: Elsevier Science; [Article]

Subjects: Auditory Hallucinations; Cognitive Ability; Electrical Brain Stimulation; Schizophrenia; Treatment Resistant Disorders; Adulthood (18 yrs & older); Young Adulthood (18-29 yrs); Thirties (30-39 yrs); Middle Age (40-64 yrs); Aged (65 yrs & older); Male; Female

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Mehta, Urvakhsh Meherwan; Schizophrenia Research, Vol 202, Dec, 2018 pp. 46-47. Publisher: Elsevier Science; [Comment/Reply]

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Subjects: Electrical Brain Stimulation; Prefrontal Cortex; Schizophrenia; Short Term Memory; Adulthood (18 yrs & older); Male; Female

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Subjects: Schizophrenia; Severity (Disorders); Spatial Memory; Transcranial Direct Current Stimulation; Adulthood (18 yrs & older); Young Adulthood (18-29 yrs); Thirties (30-39 yrs); Middle Age (40-64 yrs); Male; Female

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Chang, Chuan-Chia; Tzeng, Nian-Sheng; Chao, Che-Yi; Yeh, Chin-Bin; Chang, Hsin-An; International Journal of Neuropsychopharmacology, Vol 21(11), Nov, 2018 pp. 979-987. Publisher: Oxford University Press; [Journal Article]
Subjects: Schizophrenia; Transcranial Magnetic Stimulation; Treatment Effectiveness Evaluation; Adulthood (18 yrs & older); Young Adulthood (18-29 yrs); Thirties (30-39 yrs); Middle Age (40-64 yrs); Aged (65 yrs & older); Male; Female

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Subjects: Cognitive Ability; Major Depression; Schizophrenia; Symptoms; Transcranial Magnetic Stimulation; Adulthood (18 yrs & older); Male; Female
Moderate effects of noninvasive brain stimulation of the frontal cortex for improving negative symptoms in schizophrenia: Meta-analysis of controlled trials. Open Access Academic Journal

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Subjects: Electrical Brain Stimulation; Schizophrenia; Transcranial Magnetic Stimulation

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Gupta, Tina; Kelley, Nicholas J.; Pelletier-Baldelli, Andrea; Mittal, Vijay A.; Frontiers in Behavioral Neuroscience, Vol 12, May 28, 2018 ArtID: 94. Publisher: Frontiers Media S.A.; [Journal Article]

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Subjects: Prefrontal Cortex; Schizophrenia; Transcranial Magnetic Stimulation; Adulthood (18 yrs & older); Male; Female

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Enhancing neuroplasticity to augment cognitive remediation in schizophrenia.

Stimulating thought: A functional MRI study of transcranial direct current stimulation in schizophrenia.
Can repetitive transcranial magnetic stimulation improve neurocognition in schizophrenia when combined with cognitive remediation?
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Subjects: Cognitive Mediation; Schizophrenia; Short Term Memory; Brain Training; Neuromodulation

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Subjects: Memory; Schizophrenia; Transcranial Magnetic Stimulation; Transcranial Direct Current Stimulation; Adulthood (18 yrs & older); Male; Female

'Does a combination of virtual reality, neuromodulation and neuroimaging provide a comprehensive platform for neurorehabilitation? — A narrative review of the literature':
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Mervis, Joshua E.; Capizzi, Riley J.; Boroda, Elias; MacDonald, Angus W. III; Frontiers in Human Neuroscience, Vol 11, Feb 2, 2017 ArtID: 44. Publisher: Frontiers Media S.A.; [Journal Article]
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Smith, Robert C.; Boules, Sylvia; Mattiuz, Sanela; Youssef, Mary; Tobe, Russell H.; Sershen, Henry; Lajtha, Abel; Nolan, Karen; Amiaz, Revital; Davis, John M.; Schizophrenia Research, Vol 168(1-2), Oct, 2015 pp. 260-266. Publisher: Elsevier Science; [Journal Article]

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The effect of transcranial Direct Current Stimulation on gamma activity and working memory in schizophrenia.
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Subject: Prefrontal Cortex; Schizophrenia; Short Term Memory; Transcranial Magnetic Stimulation; Gamma Rhythm; Adulthood (18 yrs & older); Male; Female

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Kurimori, Milton; Shiozawa, Pedro; Bikson, Marom; Aboseria, Mohamed; Cordeiro, Quirino; Schizophrenia Research, Vol 166(1-3), Aug, 2015 pp. 362-363. Publisher: Elsevier Science; [Letter]

Subject: Positive and Negative Symptoms; Schizophrenia; Adulthood (18 yrs & older); Male; Female

**Synchronizing theta oscillations with direct-current stimulation strengthens adaptive control in the human brain.**
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Subject: Brain; Schizophrenia; Oscillatory Network; Transcranial Direct Current Stimulation

**The effect of transcranial direct current stimulation on social cognition in schizophrenia: A preliminary study.**
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Rassovsky, Yuri; Dunn, Walter; Wynn, Jonathan; Wu, Allan D.; Iacoboni, Marco; Hellemann, Gerhard; Green, Michael F.; Schizophrenia Research, Vol 165(2-3), Jul, 2015 pp. 171-174. Publisher: Elsevier Science; [Journal Article]

Subject: Neurocognition; Schizophrenia; Social Cognition; Transcranial Magnetic Stimulation; Transcranial Direct Current Stimulation; Adulthood (18 yrs & older); Male; Female

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Subject: Cognitive Rehabilitation; Intervention; Schizophrenia; Transcranial Magnetic Stimulation; Transcranial Direct Current Stimulation; Adulthood (18 yrs & older); Young Adulthood (18-29 yrs); Thirties (30-39 yrs); Male; Female
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Subjects: Neurotransmission; Schizophrenia; Tobacco Smoking; Transcranial Direct Current Stimulation; Adulthood (18 yrs & older); Young Adulthood (18-29 yrs); Thirties (30-39 yrs); Middle Age (40-64 yrs); Male; Female

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Subjects: Animal Models; Electrical Brain Stimulation; Major Depression; Treatment Effectiveness Evaluation; Transcranial Direct Current Stimulation

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Hoy, Kate E.; Arnold, Sara L.; Emonson, Melanie R. L.; Daskalakis, Zafiris J.; Fitzgerald, Paul B.; Schizophrenia Research, Vol 155(1-3), May, 2014 pp. 96-100. Publisher: Elsevier Science; [Journal Article]

Subjects: Brain Stimulation; Cognitive Ability; Electrical Stimulation; Schizophrenia; Transcranial Direct Current Stimulation; Adulthood (18 yrs & older); Male; Female

Can transcranial direct current stimulation (tDCS) alleviate symptoms and improve cognition in psychiatric disorders?

Academic Journal


Subjects: Mental Disorders; Psychopharmacology; Transcranial Magnetic Stimulation; Transcranial Direct Current Stimulation
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Subjects: Hallucinations; Schizophrenia; Transcranial Magnetic Stimulation; Transcranial Direct Current Stimulation; Adulthood (18 yrs & older); Male; Female

Working memory improvement with non-invasive brain stimulation of the dorsolateral prefrontal cortex: A systematic review and meta-analysis.
Academic Journal
Subjects: Prefrontal Cortex; Reaction Time; Short Term Memory; Transcranial Magnetic Stimulation; Dorsolateral Prefrontal Cortex

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Subjects: Auditory Hallucinations; Electrical Brain Stimulation; Neural Plasticity; Pathophysiology; Schizophrenia

Prefrontal transcranial direct current stimulation (tDCS) changes negative symptoms and functional connectivity MRI (fcMRI) in a single case of treatment-resistant schizophrenia.
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Subjects: Memory; Schizophrenia; Sleep; Transcranial Magnetic Stimulation; Transcranial Direct Current Stimulation; Adulthood (18 yrs & older)

Neuroplasticity-based brain stimulation interventions in the study and treatment of schizophrenia. A review.
Academic Journal

Subjects: Brain Stimulation; Schizophrenia; Transcranial Magnetic Stimulation

Can noninvasive brain stimulation enhance cognition in neuropsychiatric disorders?
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Subjects: Brain Stimulation; Cognition; Mental Disorders

Developing treatments for impaired cognition in schizophrenia.
Academic Journal
Minzenberg, Michael J.; Carter, Cameron S.; Trends in Cognitive Sciences, Vol 16(1), Jan, 2012 pp. 35-42. Publisher: Elsevier Science; [Journal Article]

Subjects: Cognitive Impairment; Psychiatric Symptoms; Schizophrenia; Treatment

Improving working memory: Exploring the effect of transcranial random noise stimulation and transcranial direct current stimulation on the dorsolateral prefrontal cortex.
Academic Journal

Subjects: Auditory Stimulation; Electrical Stimulation; Prefrontal Cortex; Short Term Memory; Adulthood (18 yrs & older); Male; Female
Transcranial direct current stimulation influences probabilistic association learning in schizophrenia.

Academic Journal

Vercammen, Ans; Rushby, Jacqueline A.; Loo, Colleen; Short, Brooke; Weickert, Cynthia S.; Weickert, Thomas W.; Schizophrenia Research, Vol 131(1-3), Sep, 2011 pp. 198-205. Publisher: Elsevier Science; [Journal Article]

Subjects: Prefrontal Cortex; Probability Learning; Schizophrenia; Transcranial Direct Current Stimulation; Adulthood (18 yrs & older); Male; Female