

# Anodal Transcranial Direct Current Stimulation Transiently Increases Visual Cortex Activation and Normalizes Visual Cortex Activation in Individuals

Neurorehabilitation and Neural Repair

27, 760-769

DOI: [10.1177/1545968313491006](https://doi.org/10.1177/1545968313491006)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Transcranial Direct Current Stimulation Enhances Recovery of Stereopsis in Adults With Amblyopia. <i>Neurotherapeutics</i> , 2013, 10, 831-839.	2.1	86
2	Improvement of uncorrected visual acuity and contrast sensitivity with perceptual learning and transcranial random noise stimulation in individuals with mild myopia. <i>Frontiers in Psychology</i> , 2014, 5, 1234.	1.1	51
3	Neuroimaging of amblyopia and binocular vision: a review. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 62.	1.0	55
4	Origins of strabismus and loss of binocular vision. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 71.	1.0	59
5	Binocular vision in amblyopia: structure, suppression and plasticity. <i>Ophthalmic and Physiological Optics</i> , 2014, 34, 146-162.	1.0	138
6	Efficiency of electronically monitored amblyopia treatment between 5 and 16 years of age: New insight into declining susceptibility of the visual system. <i>Vision Research</i> , 2014, 103, 11-19.	0.7	62
7	A 1-Year Review of Amblyopia and Strabismus Research. <i>Asia-Pacific Journal of Ophthalmology</i> , 2014, 3, 379-387.	1.3	3
8	Plasticity of the Visual Cortex and Treatment of Amblyopia. <i>Current Biology</i> , 2014, 24, R936-R940.	1.8	51
9	The Effects of tDCS Across the Spatial Frequencies and Orientations that Comprise the Contrast Sensitivity Function. <i>Frontiers in Psychology</i> , 2015, 6, 1784.	1.1	17
10	What Is Next in Amblyopia Treatment?. <i>Ophthalmology</i> , 2015, 122, 871-873.	2.5	12
11	Binocular versus standard occlusion or blurring treatment for unilateral amblyopia in children aged three to eight years. <i>The Cochrane Library</i> , 2015, , CD011347.	1.5	21
12	Transcranial direct current stimulation can selectively affect different processing channels in human visual cortex. <i>Experimental Brain Research</i> , 2015, 233, 1213-1223.	0.7	10
13	Contrasting effects of transcranial direct current stimulation on central and peripheral visual fields. <i>Experimental Brain Research</i> , 2015, 233, 1391-1397.	0.7	17
14	Retinal Origin of Electrically Evoked Potentials in Response to Transcorneal Alternating Current Stimulation in the Rat. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 1711-1718.	3.3	38
15	The role of early stages of cortical visual processing in size and distance judgment: A transcranial direct current stimulation study. <i>Neuroscience Letters</i> , 2015, 588, 78-82.	1.0	9
16	Amblyopia and the binocular approach to its therapy. <i>Vision Research</i> , 2015, 114, 4-16.	0.7	171
17	Stimulating the aberrant brain: Evidence for increased cortical hyperexcitability from a transcranial direct current stimulation (tDCS) study of individuals predisposed to anomalous perceptions. <i>Cortex</i> , 2015, 69, 1-13.	1.1	14
18	Steady-State Contrast Response Functions Provide a Sensitive and Objective Index of Amblyopic Deficits. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 1208-1216.	3.3	17

#	ARTICLE	IF	CITATIONS
19	Dichoptic training improves contrast sensitivity in adults with amblyopia. <i>Vision Research</i> , 2015, 114, 161-172.	0.7	51
20	Electrical Stimulation of Visual Cortex Can Immediately Improve Spatial Vision. <i>Current Biology</i> , 2016, 26, 1867-1872.	1.8	64
21	The application of online transcranial random noise stimulation and perceptual learning in the improvement of visual functions in mild myopia. <i>Neuropsychologia</i> , 2016, 89, 225-231.	0.7	39
22	Monocular perceptual learning of contrast detection facilitates binocular combination in adults with anisometropic amblyopia. <i>Scientific Reports</i> , 2016, 6, 20187.	1.6	24
23	The effect of transcranial direct current stimulation on contrast sensitivity and visual evoked potential amplitude in adults with amblyopia. <i>Scientific Reports</i> , 2016, 6, 19280.	1.6	58
24	Practical Management of Amblyopia. , 2016, , 81-100.		0
25	Using magnetic resonance imaging to assess visual deficits: a review. <i>Ophthalmic and Physiological Optics</i> , 2016, 36, 240-265.	1.0	65
26	Transcranial direct current stimulation improves visual acuity in amblyopic Long-Evans rats. <i>Brain Research</i> , 2017, 1657, 340-346.	1.1	10
27	Use of video games for the treatment of amblyopia. <i>Current Opinion in Ophthalmology</i> , 2017, 28, 276-281.	1.3	30
28	Neuroplasticity and amblyopia: vision at the balance point. <i>Current Opinion in Neurology</i> , 2017, 30, 74-83.	1.8	23
29	Transcranial direct-current stimulation modulates offline visual oscillatory activity: A magnetoencephalography study. <i>Cortex</i> , 2017, 88, 19-31.	1.1	26
30	Aerobic Exercise Effects on Ocular Dominance Plasticity with a Phase Combination Task in Human Adults. <i>Neural Plasticity</i> , 2017, 2017, 1-7.	1.0	21
31	Visual Plasticity in Adults. <i>Neural Plasticity</i> , 2017, 2017, 1-2.	1.0	1
32	Differential effects of high-frequency transcranial random noise stimulation (hf-tRNS) on contrast sensitivity and visual acuity when combined with a short perceptual training in adults with amblyopia. <i>Neuropsychologia</i> , 2018, 114, 125-133.	0.7	48
33	Beyond Rehabilitation of Acuity, Ocular Alignment, and Binocularity in Infantile Strabismus. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 29.	1.2	9
34	Unilateral Application of Cathodal tDCS Reduces Transcallosal Inhibition and Improves Visual Acuity in Amblyopic Patients. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 109.	1.0	24
35	Altered Spontaneous Brain Activity of Children with Unilateral Amblyopia: A Resting State fMRI Study. <i>Neural Plasticity</i> , 2019, 2019, 1-10.	1.0	17
36	Long-term enhancement of visual responses by repeated transcranial electrical stimulation of the mouse visual cortex. <i>Brain Stimulation</i> , 2019, 12, 1421-1428.	0.7	2

#	ARTICLE	IF	CITATIONS
37	The Effect of Combined Patching and Citalopram on Visual Acuity in Adults with Amblyopia: A Randomized, Crossover, Placebo-Controlled Trial. <i>Neural Plasticity</i> , 2019, 2019, 1-10.	1.0	12
38	Older Adults Exhibit Greater Visual Cortex Inhibition and Reduced Visual Cortex Plasticity Compared to Younger Adults. <i>Frontiers in Neuroscience</i> , 2019, 13, 607.	1.4	20
39	A new counterintuitive training for adult amblyopia. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 274-284.	1.7	66
40	The treatment of amblyopia: current practice and emerging trends. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2019, 257, 1061-1078.	1.0	57
41	tDCS recovers depth perception in adult amblyopic rats and reorganizes visual cortex activity. <i>Behavioural Brain Research</i> , 2019, 370, 111941.	1.2	8
42	No effects of anodal transcranial direct current stimulation on contrast sensitivity function. <i>Restorative Neurology and Neuroscience</i> , 2019, 37, 109-118.	0.4	11
43	Reevaluating hMT+ and hv4 functional specialization for motion and static contrast using fMRI-guided repetitive transcranial magnetic stimulation. <i>Journal of Vision</i> , 2019, 19, 11.	0.1	5
44	Non-invasive current stimulation in vision recovery: a review of the literature. <i>Restorative Neurology and Neuroscience</i> , 2020, 38, 239-250.	0.4	16
45	Binocular treatment in adult amblyopia is based on parvocellular or magnocellular pathway. <i>European Journal of Ophthalmology</i> , 2020, 30, 658-667.	0.7	7
46	Preconditioning cathodal transcranial direct current stimulation facilitates the neuroplastic effect of subsequent anodal transcranial direct current stimulation applied during cycling in young adults. <i>Neuroscience Letters</i> , 2020, 714, 134597.	1.0	4
47	tRNS effects on visual contrast detection. <i>Neuroscience Letters</i> , 2020, 717, 134696.	1.0	15
48	Perspectives: Hemianopiaâ€”Toward Novel Treatment Options Based on Oscillatory Activity?. <i>Neurorehabilitation and Neural Repair</i> , 2020, 34, 13-25.	1.4	4
49	Rethinking amblyopia 2020. <i>Vision Research</i> , 2020, 176, 118-129.	0.7	75
50	Visual motion perception improvements following direct current stimulation over V5 are dependent on initial performance. <i>Experimental Brain Research</i> , 2020, 238, 2409-2416.	0.7	12
51	Does physical exercise and congruent visual stimulation enhance perceptual learning?. <i>Ophthalmic and Physiological Optics</i> , 2020, 40, 680-691.	1.0	6
52	Anodal transcranial direct current stimulation reduces collinear lateral inhibition in normal peripheral vision. <i>PLoS ONE</i> , 2020, 15, e0232276.	1.1	14
53	Anodal and cathodal tDCS modulate neural activity and selectively affect GABA and glutamate syntheses in the visual cortex of cats. <i>Journal of Physiology</i> , 2020, 598, 3727-3745.	1.3	36
54	Vision modulation, plasticity and restoration using non-invasive brain stimulation â€” An IFCN-sponsored review. <i>Clinical Neurophysiology</i> , 2020, 131, 887-911.	0.7	48

#	ARTICLE	IF	CITATIONS
55	Anodal Occipital Transcranial Direct Current Stimulation Enhances Perceived Visual Size Illusions. <i>Journal of Cognitive Neuroscience</i> , 2021, 33, 528-535.	1.1	7
56	Amblyopia. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2021, 178, 13-30.	1.0	1
57	Visual cortex cTBS increases mixed percept duration while a-tDCS has no effect on binocular rivalry. <i>PLoS ONE</i> , 2021, 16, e0239349.	1.1	8
58	Repetitive visual cortex transcranial random noise stimulation in adults with amblyopia. <i>Scientific Reports</i> , 2021, 11, 3029.	1.6	13
59	Visual Cortex Transcranial Direct Current Stimulation for Proliferative Diabetic Retinopathy Patients: A Double-Blinded Randomized Exploratory Trial. <i>Brain Sciences</i> , 2021, 11, 270.	1.1	2
60	Monocular and Binocular Visual Function Deficits in Amblyopic Patients with and without Fusion Maldevelopment Nystagmus. <i>Eye and Brain</i> , 2021, Volume 13, 99-109.	3.8	8
61	The initial visual performance modulates the effects of anodal transcranial direct current stimulation over the primary visual cortex on the contrast sensitivity function. <i>Neuropsychologia</i> , 2021, 156, 107854.	0.7	12
62	Binocular Integration of Perceptually Suppressed Visual Information in Amblyopia. , 2021, 62, 11.		3
64	Transcranial electrical stimulation and visual function modulation. <i>Advances in Psychological Science</i> , 2018, 26, 1632.	0.2	0
70	Evaluation of retinal nerve fiber layer thickness using optical coherence tomography in unilateral anisometropic amblyopic patients. <i>OrtadoÄŸu TÄ±p Dergisi</i> , 2019, 11, 326-332.	0.1	1
72	Binocular versus standard occlusion or blurring treatment for unilateral amblyopia in children aged three to eight years. <i>The Cochrane Library</i> , 2022, 2022, CD011347.	1.5	5
73	Neurochemical and functional interactions for improved perceptual decisions through training. <i>Journal of Neurophysiology</i> , 2022, 127, 900-912.	0.9	7
74	Altered Spontaneous Brain Activity Patterns in Children With Strabismic Amblyopia After Low-Frequency Repetitive Transcranial Magnetic Stimulation: A Resting-State Functional Magnetic Resonance Imaging Study. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 790678.	1.0	1
75	Management of Abnormal Visual Developments. , 0, , .		0
76	Scope of neuroimaging in amblyopia. , 2022, 16, 1.		0
77	Perspectives on the Combined Use of Electric Brain Stimulation and Perceptual Learning in Vision. <i>Vision (Switzerland)</i> , 2022, 6, 33.	0.5	3
78	Perceptual learning with dichoptic attention tasks improves attentional modulation in V1 and IPS and reduces interocular suppression in human amblyopia. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
79	Vision recovery with perceptual learning and non-invasive brain stimulation: Experimental set-ups and recent results, a review of the literature. <i>Restorative Neurology and Neuroscience</i> , 2022, 40, 137-168.	0.4	4

#	ARTICLE	IF	CITATIONS
80	Amblyopia: progress and promise of functional magnetic resonance imaging. Graefe's Archive for Clinical and Experimental Ophthalmology, 0, , .	1.0	0
81	Low frequency repetitive transcranial magnetic stimulation promotes plasticity of the visual cortex in adult amblyopic rats. Frontiers in Neuroscience, 0, 17, .	1.4	1
82	Combined therapy of bilateral transcranial direct current stimulation and ocular occlusion improves visual function in adults with amblyopia, a randomized pilot study. Frontiers in Human Neuroscience, 0, 17, .	1.0	0
83	Suppression of top-down influence decreases both behavioral and V1 neuronal response sensitivity to stimulus orientations in cats. Frontiers in Behavioral Neuroscience, 0, 17, .	1.0	0