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Deep brain stimulation in substance use disorders

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Brain stimulation therapies play a role in treating certain mental disorders such as depression, psychosis and addiction. Repetitive transcranial Magnetic Stimulation (rTMS) first developed in 1985 and in 2008 approved for use of treatment of major depression patients who did not respond to at least one antidepressant in current episode. The mechanisms of rTMS therapeutic in treating addictions are poorly understood but the recent studies showed the potential of TMS as a cost-effective and tolerable treatment for some substance use disorders. Drugs of abuse activate the mesolimbic dopamine system that originates from ventral tegmental area and projects to nucleus accumbens, amygdala and hippocampus. For this reason, dopaminergic neurotransmission might serve as a potential target for treating addiction. Recent studies had showed that insula have a great role in craving. Deep TMS that can stimulate the deeper areas such as insula and deep prefrontal cortex can be hypothesized as effective in addiction. There are studies about the efficacy of deep TMS for treatment of smoking, cocaine and alcohol use disorders. Safe and non-invasive treatment deep transcranial magnetic is used in the treatment of substance use disorders in our clinic. This randomized open label study aims to evaluate efficacy of deep TMS among alcohol and other drug use disordered patients. For alcohol 3 weeks and 5 sessions for each week was the target treatment. For alcohol and nicotine use disorders 3 weeks is the optimal treatment period.

Biography

Nesrin Dilbaz has graduated from Anadolu University Faculty of Medicine in 1984. The Adult Psychiatric Doctor in 1991. Between 1991-2004, in Ankara Numune Hospital she was in charge of Psychiatry Expert, Associate Professor, 2nd Psychiatric Clinic Supervisor and lastly Director of AMATEM. She has been managing Npistanbul Brain Hospital Addiction Center since 2012.

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