



Photobiostimulation of the brain of patients with Alzheimer's disease

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Speaker: Vladislav Sursaev works as a MD at the Department of Nervous Diseases at Sechenov University in Moscow. In 2021 he graduated from the Medical University by I.M. Sechenov, then specialized in neurology. He is currently conducting research as part of his PhD thesis on 'The impact of sleep disturbances on cognitive function in Alzheimer's disease: a clinical and neurophysiological study'. He is the author and co-author of articles in journals such as the "S.S. Korsakov Journal of Neurology and Psychiatry" and "Effective Pharmacotherapy".

Abstract: A prospective randomized study of photobiostimulation of the brain of patients with Alzheimer's disease is being conducted on the basis of the Sechenov University Clinic of Nervous Diseases.

During the study, patients are given PET\CT with 18F-FDG at the outpatient stage, followed by neurocognitive testing, EEG on the first day of hospitalization. For 10 days, patients receive photostimulation therapy for 30 minutes a day in a preset mode. After the therapy, the neurocognitive status, EEG, and PET are re-evaluated.\CT scan with 18F-FDG. According to preliminary data, patients showed a statistically significant improvement during neurocognitive tests, an increase in the amplitudes of EEG activity in the temporal and parietal lobes, and an increase in glucose metabolism during repeated PET\CT scan with 18F-FDG.

Keywords: photobiostimulation, Alzheimer's disease, cognitive functions.