

Remediation of cognitive deficit in neuropsychiatric disorders using virtual carousel task and episodic memory task

I Fajnerova, K Sedlakova, V Vorackova, A Dorazilova, L Hejtmanek,
A Plechata, M Rodriguez, K Vlcek

National Institute of Mental Health (NIMH),
Topolová 748, 250 67 Klecany, CZECH REPUBLIC

iveta.fajnerova@nudz.cz

www.nudz.cz/en/

ABSTRACT

The impairment of cognitive functioning represents a characteristic manifestation in various neuropsychiatric disorders, such as schizophrenia (SZ). Previous studies demonstrated mild to severe deficit almost in all cognitive domains. Our results obtained in the virtual analogue of the Carousel maze also demonstrate impairment of spatial memory and cognitive flexibility in schizophrenia patients. In addition, results of the Episodic-like memory task (EMT) also support the hypothesis of episodic memory deficit in schizophrenia. The aim of the presented study is to improve these impaired cognitive functions using remediation methods based on similar methods in a complex virtual environment. The remediation plan will be presented together with preliminary data obtained in a small group of schizophrenia patients.

Full papers will be published in the Conference Proceedings and will be freely available to delegates at the conference and online on September 20, 2016.