

NUMERICAL REASONING SKILLS BETWEEN SCHIZOPHRENIA SPECTRUM, ALCOHOLISM AND HEALTHY GROUP: the importance about care with brain maturation

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Abstract

The Schizophrenia Spectrum causes many types of losses in the brain over the years. It begins insidiously and when it is perceptet, many types of cognitive impairments already happened, it is possible to perceive it when the behavioral and mood changes. But then, the encephalon is already danified. Alcoholism begins insidiously too. Every day and at each dose, the encephalon modify it biochemical metabolism and some or many brain circuits are modified about it functionality, like as reason, judgment, speech control, willingness to work, affectivity and self steem. Believing in yourself is very difficult for both: schizophrenia spectrum and alcoholism. All them need treatment, more than one if is necessary and multidisciplinary treatments are better to both. A cognitive comparison between a group of patients with schizophrenia, a group of patients in treatment for dependence on alcohol and a healthy group is the aim of this study. It reports the results of a research realized in a hospital that does treatment for Schizophrenia spectrum and dependence on alcohol. A survey was conducted by applying a psychological test of numeric reasoning, in three groups of volunteers, being a group composed of 9 patients with schizophrenia, organized and owners of their mental faculties; a other group of 15 volunteers, hospitalized for the treatment of alcohol dependence having passed the detoxification period and the third group of the 16 healthy volunteers outside of hospital. The mean age is 40.22; 45.93; 36,87; years respectively. Schooling are considered. All tests were applied and corrected by a qualified and accredited professional in accordance with the rules in force in the country. The Figure 1, by boxplot analysis, shows the performances between all the volunteers groups. The results of Schizophrenia Spectrum Group and the Alcoholism Treatment Group draws attention, because the difference is very small between them, and is possible to perceive that the performance for the group undergoing treatment for alcohol dependence has fallen short of the performance of subjects with the disorder of schizophrenia spectrum, with 95% confidence interval and p-value 0,173, characterizing high similarity between the groups. All alcoholism volunteers began with to alcohol consumption between twelve to twenty years old, that is, before the finalization of the maturation stage of the brain. In despite of be a small sample, it is a important warning sign. It is very important to instruct and educate the young people to respect his brain maturation stage, for the in the tomorrow, it be healthy and addiction free.

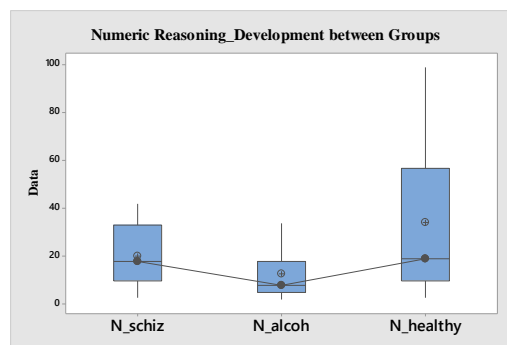


Figure 1: Comparison between groups

Keywords: schizophrenia, numeric reasoning, brain, alcoholism, neurology, neuroscience



Biography

Bernadete has completed his University undergraduate at Electrical Engineering and MSc in Biomedical Engineering studies from Technological Federal University of Parana, Curitiba, Brazil. She is a MBA student of the Information and Communication Management in the same school, where she is professor. She has published six papers in six Congress.

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