

Influence of Alcohol Consumption on Attention in Wistar Albino Rats

Authors : Adekunle Adesina, Dorcas Adesina

Abstract : This Research investigated the influence of alcohol consumption on attention in Wistar albino rats. It was designed to test whether or not alcohol consumption affected visual and auditory attention. The sample of this study comprise of 3males albino rats and 3 females albino rats which were randomly assigned to 3 (male/female each) groups, 1, 2 and 3. The first group which was experimental Group 1 received 4ml of alcohol ingestion with cannula twice daily (morning and evening). The second group which was experimental group 2 received 2ml of alcohol ingestion with cannula twice daily (morning and evening). Third group which was the control group only received water (placebo), all these happened within a period of 2 days. Three hypotheses were advanced and tested in the study. Hypothesis 1 stated that there will be no significant difference between the response speed of albino rats that consume alcohol and those that consume water on visual attention using 5-CSRTT. This was confirmed ($DF (2, 9) = 0.72, P < .05$). Hypothesis 2 stated that albino rats who consumed alcohol will perform better than those who consume water on auditory accuracy using 5-CSRTT. This was also tested but not confirmed ($DF (2, 9) = 2.10, P < .05$). The third hypothesis which stated that female albino rats who consumed alcohol would not perform better than male albino rats who consumed alcohol on auditory accuracy using 5-CSRTT was tested and not confirmed. ($DF (4) = 0.17, P < .05$). Data was analyzed using one-way ANOVA and T-test for independent measures. It was therefore recommended that government policies and programs should be directed at reducing to the barest minimum the rate of alcohol consumption especially among males as it is detrimental to the human auditory attentional organ.

Keywords : alcohol, attention, influence, rats, Wistar

Conference Title : ICADHDT 2018 : International Conference on Attention Deficit Hyperactivity Disorder and Treatment

Conference Location : Sydney, Australia

Conference Dates : January 29-30, 2018