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Evaluation the effect of amitriptyline and/or ashwagandha on body weight in male rats

ABSTRACT

study aims to examine and compare the effects of amitriptyline and ashwagandha on body weight in male rats by measurement weight for 4 weeks after their exposure to these two compound. **Materials and Methods:** This study used twenty healthy adult male albino rats that were 8-10 weeks old and weighed 200-250g. The animals were randomly divided to 4 groups (n= 5 /group), Group 1: were served as a control group received distilled water orally (1.0ml/kg) group 2: were administered amitriptyline (10mg/kg/ orally) group 3: were administered (200mg/kg) of ashwagandha root extract and group 4: were co-administered amitriptyline (10mg/kg) and ashwagandha (200mg/kg). After 30 days of administration, The body weight was measured every week starting from the first day of administration to last week of experimental for all rats. **Results:** According to the one-way analysis of variance(ANOVA) showed significant differences in growth value in the co-administered Amitriptyline and ashwagandha group (1.48±0.09) significantly increased in comparison with control group (1.27 ± 0.04) at week 4, otherwise, there is no significant differences in growth among groups at other periods at p value ≤0.05. **Conclusion:** Amitriptyline induced oxidative stress causing increased in body weight during experimental periods. Administration ashwagandha alone non-significant effect on body weight but when co-administration with amitriptyline significantly increase in body weight.