

PDF - THE EFFECT OF QUININE AND TRIPLE ANTIRETROVIRAL REGIMEN ON THE HISTOLOGY OF THE FETAL CEREBELLUM OF ALBINO WISTAR RATS - researchcub.info **ABSTRACT**

This research work evaluated "the Histomorphological Effects of Quinine and Triple Antiretroviral Regimen on fetal cerebellum of Albino Wistar Rats". Forty female wistar rats weighing between 180-220g were sorted into eight groups with 5 rats each whose estrous cycles were monitored. Sexually active male of the same strain was added into each group to ensure fertilization. Vaginal smear from each of the females was collected following overnight mating by putting few drops of saline in vagina and recollecting and checks for spermatozoa under microscope. The presence of sperm in the vaginal smear indicated day zero of pregnancy and administration started on day 7. Group 1 was taken as the control group and was administered with distilled water. Group 2-8 were the experimental, Group 2-4 were given 10mg/kg, 20mg/kg and 30mg/kg body weight of quinine hypochloride injections intraperitoneally respectively eight (8) hourly for seven days. Group 5 animals were administered 17.1mg/kg body weight of the triple antiretroviral regimen orally respectively for 7 days. Groups 6-8 were administered concomitantly 17.1mg/kg triple antiretroviral regimen daily + Quinine 10mg/kg 8 hourly, 17.7mg/kg of triple antiretroviral regimen daily + quinine 20mg/kg body weight 8 hourly and 17.7mg/kg of triple antiretroviral regimen + quinine 30mg/kg body weight 8 hourly for 7 days respectively. At the end of the experiment, the rats were euthanized to remove the fetuses and each fetus was sacrificed to harvest the cerebellum for histological analysis. The result revealed a significant ($p > 0.05$) reduction in the fetal body weight and placental weight following administration of quinine, antiretroviral combination drugs and more significant ($p > 0.05$) reduction was observed in quinine and antiretroviral combination drugs co-administration treated groups dose dependently compared with the control group. This is suggestive of intrauterine growth retardation caused by these drugs. In these results, it was observed that the administration of quinine and antiretroviral combination drug produced notable distortions to the cytoarchitecture of the fetal cerebellum within the experimental groups with the quinine and antiretroviral drugs co-administration treated groups showing a more severe degeneration dose dependently.

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