Effect of Fortified Diet with Avocado Fruits and Zinc Chloride of Rats Suffering from Diabetes and Osteoporosis

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Abstract

This study aimed to investigate the effect of fortified diet with avocado fruits and zinc chloride of rats suffering from diabetes and osteoporosis. awley rats were divided into two main D-Forty eight female Sprague rats fed on basal diet, as a ³groups as follows: The first main group rats) injected with $\xi\gamma$) control negative group. The second main group mg/kg body weight to induced hyperglycemia. 9. alloxan monohydrate ys serum glucose was determined in the first and second main da ^VAfter groups to insure the induction. Rats in the second main group (diabetic ml/kg body weight/day twice a $(.\circ)$ rats) received oral prednisone acetate this period, the rats in week) for two weeks to induce osteoporosis. After rats) as 7the second main group were divided into seven subgroups (n= fed on basal diet (control positive group). :(1)follows: Subgroup %[\]oand %[\]owere fed on basal diet containing :([\]and [\])Subgroup were fed on basal diet :(\circ and ϵ)ely. Subgroup avocado fruits, respectiv g zinc chloride in the mineral mixture, respectively. ξ g and γ containing avocado %^V.°)were fed on basal diet containing :(^Vand ^V)Subgroup o avocad %¹°)g zinc chloride in the mineral mixture) and ⁷fruits and g zinc chloride in the mineral mixture), respectively. During [£] fruits and the experimental period, the diets consumed and body weights were recorded twice weekly. The results showed that, the highest improvement ich were treated with diet in lipid profile recorded for the groups wh g zinc chloride in the mineral mixture), [£]avocado and %¹°)containing %) \circ g zinc chloride in the mineral mixture and Yavocado and %V. \circ avocado, respectively. The highest levels of avocado fruits and zinc g zinc chloride) recorded the best [£]ocado and av %¹°)chloride together results in bone status. Serum glucose improved in groups which were g zinc chloride together), followed by [£]avocado and %^(o)treated with g zinc chloride together), γ avocado and %^V.°)the groups treated with g zinc chloride, respectively. Serum and liver zinc increased [£]nd a gradually with increasing the levels of avocado and zinc chloride in the diets. From these results, it could be concluded that, the fortified diet with ved the nutritional and biochemical avocado fruits and zinc chloride impro .parameters of diabetic rats suffering from osteoporosis