The influence of some Egyptian vegetables on feed intake, body weight and blood serum glucose of white rats

Abstract:

Abstract The present investigation was carried on cabbage, carrot and radish to clarify their influence on feed intake, body weight and blood glucose of rats. The blood glucose was determined in the serum of rats after feeding with the vegetables as well as in the control diets. Ninety adult male rats weighing between (100 and 120 gm) were fed on the hyperlipidemic diet. Body weight gain and feed intake were calculated through the experiment. The rats were marked, randomly allocated into (11) main groups of (6) rats each with extra 24 rats. Daily administrations were continued for two successive periods (6) weeks each. In the first period one group used as control was fed the basal diet, while the other ten groups were fed the hyperlipidemic diet. Thereafter, in second period, one group of the hyperlipidemic rats was fed on hyperlipidemic diet, while the other groups were fed on hyperlipidemic diets supplemented with different levels of vegetables. Data revealed that all radish groups recorded a marked increment in blood serum glucose level, however no significant differences were noted in cabbage groups, except that for treated group fed on hyperlipidemic diet plus 1ml juice and 0.048gm dried bulk residue of cabbage / rat resulted in a significant decrease in blood glucose level of rats. However, the carrot groups did not reveal significant decrease in blood serum glucose of the rats.

Keywords:

Key words: - cabbage, carrot, radish - feed intake  body weight  blood serum glucose

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