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ACCEPTED ABSTRACTS

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Dietary modification with high salt attenuates obesity and hyperlipidemia in high fat induced obese mice

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he prevalence of obesity is an alarming condition for mortality and morbidity leading to other lifestylerelated diseases worldwide. Finding out the new way to combat obesity is the most warrant. The aim of the present study was to investigate the effect of a modified diet with high-salt (4% NaCl) on fat deposition in high-fat diet induced obese mice. Forty healthy Swiss Albino mice (Sex: Female) were taken and divided equally into two groups named as a nonobese group and obese group. In the case of a non-obese group, mice were fed a normal

diet, normal diet along with high-salt, high-fat diet, and high-fat diet along with highsalt for 6 weeks. On another hand, to induce obesity, mice were fed high-fat for 2weeks and then treated with highfat diet along with high-salt, normal diet, normal diet along with high-salt again for 6weeks. a significant declination in The effects of these treatments body weight (p<0.05), Lee on body weight, feed intake. Lee index, organs weight and levels of serum triglycerides (TGs), total cholesterol (TC), high density lipoproteincholesterol (HDL-C), low density lipoprotein-cholesterol (LDL-C), SGOT and SGPT, and atherogenic index of plasma (AIP) were analysed. In case of non-obese group, treatment with high-fat diet along with high-salt showed a significant decrease in body weight (p<0.05), organs weight (liver, heart, and abdominal fat) (p<0.05), serum TG, TC, LDL-C (p<0.05) levels, AIP (p<0.05) value and SGOT and

SGPT levels ($p \le 0.05$) whereas significant elevation was noticed in HDL-C (p<0.05) level compared to the HFD group. Furthermore, in case of obese group treatment with high-fat diet along with high-salt and normal diet along with high-salt showed index (p<0.05), organs weight (liver, heart, and abdominal fat) (p<0.05), serum TG, TC, LDL-C (p<0.01) levels, AIP (p<0.01), SGOT and SGPT levels (p<0.05) whereas significant elevation was noticed in HDL-C (p<0.01) level compared to the Obese control group. From the observations of the study performed, it could be predicted that high salt (4% NaCl) diet has an inhibitory action on fat absorption which may be effective to attenuate the obesity and obesity-related parameters.

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