

Journal of Experimental and Clinical Medicine



Poster

doi: 10.5835/jecm.omu.31.02.029

Effects of leptin on histomorphometry of liver in high-fat diet fed obese rats

Elfide Gizem Kıvrak^{*}, Işınsu Aydın, Gamze Tümentemur, Berrin Zuhal Altunkaynak, Süleyman Kaplan

^a Department of Histology and Embryology, Faculty of Medicine, Ondokuz Mayıs University, Samsun, Turkey

c obesity and it plays a key role in regulating stable body weight and I released by the fat cells in adipose tissue. So leptin has used for obe- ie aim of this study; to detect effects of high fat diet induced obesity er by using physical disector and Cavalieri methods. This study was oups: Non-obese control, obese control, non-obese Leptin and obese- ver of all animals were prepared and stained with hematoxylin eosin and light microscopical analyses. The volume of liver was calculated
one of the most important adipose-derived hormones and among the best-known hor- mone markers for obesity and it plays a key role in regulating stable body weight and is synthesized and released by the fat cells in adipose tissue. So leptin has used for obe- sity treatment. The aim of this study; to detect effects of high fat diet induced obesity and leptin on liver by using physical disector and Cavalieri methods. This study was including four groups: Non-obese control, obese control, non-obese Leptin and obese- Leptin groups. Liver of all animals were prepared and stained with hematoxylin eosin for stereological and light microscopical analyses. The volume of liver was calculated by Cavalieri methods and the number of hepatocyte was analyzed by physical dissector. Liver volumes of control and obese groups were significantly different from the each other. The mean numerical density of hepatocytes for the obese group was significantly
control and obese groups were significantly different from the each
r e