INTERNATIONAL MEETING ON EDUCATION AND RESEARCH IN HEALTH SCIENCES

(IMER-HS)

ABSTRACT BOOK

3-5 November 2017

Istanbul, Turkey

MARMARA UNIVERSITY 1883

Institute of Health Sciences

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Acknowledgement: *This international meeting was supported by Marmara University Scientific Project Commission -BAPKO (Project number: SAG-L - 120917-0499).*

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OP-23

Ghrelin treatment improves lipid metabolism and hepatic degeneration in ovariectomized rats

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Metabolic disorders occurring in post-menopausal period increase the risk for development of fatty liver disease in women. Aim of the study was to evaluate possible effects of ghrelin on metabolic biomarkers and hepatic morphology in ovariectomized (OVX) rats. Under ketamine-chlorpromazine anesthesia (100 mg/kg, 0.75 mg/kg), female Sprague-Dawley rats (n=12) underwent bilateral OVX, while control group had sham-surgery (n=6). Four weeks after surgery, half of OVX rats were treated orally with ghrelin (0.1 µg/l/day) for 4 weeks, while others were not treated. Rats were euthanized by cardiac puncture at the end of 8th weeks, and serum levels of glucose, insulin, aspartate aminotransferase (AST), high-density lipoprotein (HDL), low-density lipoprotein (LDL), very low-density lipoprotein (VLDL), triglycerides, estradiol and progesterone were measured by an automated analyzer. Increased body weights in OVX rats ($p<0.001$) recorded at the end of 2 months was not changed with ghrelin. Serum estradiol and progesterone levels were reduced ($p<0.05$) verifying altered gonadal hormone status, but insulin and glucose levels were not changed. Reduced HDL and increased LDL levels ($p<0.05$) were evident in non-treated OVX rats, while ghrelin treatment depressed LDL levels ($p<0.05$), but did not change HDL levels. However, ghrelin in OVX rats depressed triglycerides, VLDL and AST levels significantly ($p<0.05$). were present in livers of ghrelin-treated rats. In conclusion, mild dyslipidemia and hepatic degeneration in early post-menopausal period appear to be attenuated by ghrelin treatment, and require further investigation.