ABSTRACT

INVESTIGATION of THE ENDOPLASMIC RETICULUM STRESS

MARKERS IN PLACENTAS and FETUS of DIABETIC

PREGNANT MICE

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In my thesis study, it was aimed to find out if diabetes cause differences in fetal liver and

placenta about ER stress markers. For this purpose, experimental design is created which

consist of four groups. These groups are; zero control group, pregnant control group, diabetic

pregnant group and pregnant citrate group. As investigate the markers, both

immunohistochemical techniques and western blot technique were used. According to the

results of experimental studies, no statistically significant difference was found (p>0.05) fort

he markes that we use; Nrf2, GADD 153, BIP, Xbp1 and Herpud, in fetal liver tissue of the

diabetic group compared to the other groups. As a result of western blot done with BIP, Xbp1

and Herpud antibodies in placenta, decreased expression of theese markers was seen in

diabetic group compared to the other groups. When we compared the weight of the fetus and

placenta between groups, we have found statistically significant decreased weight in diabetic

group compared to the other groups (p<0.05).

Key words: ER stress, diabetes, fetus, placenta.

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