

Comparing Troponin I Level between Women with Preeclampsia and Gestational Hypertension and Pregnant Women with Normal Blood Pressure

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(Received February 24, 2016 ; Accepted December 20, 2016)

Abstract

Background and purpose: Hypertensive disorders of pregnancy are still one of the major issues in obstetrics. So far, few studies are conducted on the troponin I level of pregnant women and preeclampsia but their results are not conclusive. In this study the troponin levels were compared between patients with severe preeclampsia, mild preeclampsia, gestational hypertension, and normal blood pressure.

Materials and methods: A case control study was conducted in four groups of pregnant women (n=35 per group) with severe preeclampsia, mild preeclampsia, gestational hypertension, and normal blood pressure attending Kosar Center, Qazvin, Iran 2014-2015. The troponin I level in the groups were studied. Data was analyzed in SPSS V.19 applying ANOVA, Chi-square, and T-test.

Results: The mean age of patients was 29.1±6.6. The level of troponin was lower than 0.01 ng/ml in patients with severe preeclampsia, mild preeclampsia, gestational hypertension and normal blood pressure. But in one case with severe preeclampsia this level was 0.15. The findings indicated no significant difference between the groups (P=0.4)

Conclusion: The level of troponin was not different in patients with severe preeclampsia, mild preeclampsia, gestational hypertension, and normal blood pressure.

Keywords: troponin I, severe preeclampsia, mild preeclampsia, gestational hypertension, normal blood pressure