

Assessment of Relation Between Migraine and Hypertensive Disorders in Pregnancy

Abstract

Background:

Preeclampsia is a pregnancy-specific syndrome , due to spasm of the vascular and endothelium activation, organ blood flow is reduced. Migraine is a syndrome of benign recurrent headaches, nausea, vomiting, or other signs of neurologic dysfunction. Some studies have shown that women who have a history of migraines during pregnancy are at high risk of preeclampsia.

Material & Methods:

In this case- control study, 100 patient affected by PE & eclampsia with 100 normotensive pregnant women that were hospitalized in Alavi Ardebil hospital during the year (91-1390) was evaluated for migraine and questionnaires to be filled. They recruited by a nonrandomized consecutive sampling method. The two groups were matched for confounding factors. The data were collected by questionnaire including demographic, medical, obstetrics, and migraine assessment sections. Data were analyzed using SPSS software.

Results:

100 person of case group with age 28.12 ± 6.50 and 100 person of control group with age 25.2 ± 5.75 took part in the study. Majority of persons in the study, were 16 to 35 years old, high school graduates & School education, housewives and Iranian. Their mean BMI, was 24.8. T and chi-square test showed that the two groups confounding factors are equal. In this study, 11% of people were suffering from migraine. Migraine with aura prevalence was 2%, there was no difference in the type of migraine between the groups. The results demonstrated

that the migraine history in the case group is 16% and in control group is 6%.Odds Ratio calculation showed that a history of migraine headaches in patients with hypertensive disorders of pregnancy are 2.65 multiply controls. (p <0.05) in this study was observed that in the patients with migraine, the prevalence of severe preeclampsia are more than mild preeclampsia.

Conclusion:

Migraine headaches appear to be associated with gestational hypertension and history of migraine as a risk factor for PE /gestational hypertension(GH).

Keywords:

Preeclampsia, gestational hypertension, migraine