

عنوان مقاله:

Serum ferritin concentration in early pregnancy and risk of subsequent development of gestational diabetes: A prospective study

محل انتشار:

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خلاصه مقاله:

Background: Elevated serum ferritin concentration is associated with insulinresistance and diabetes. Recently it has also been described in gestational diabetesmellitus (GDM).Objective: A prospective study was done to determine whether there was arelationship between serum ferritin concentration in early pregnancy and the risk ofGDM.Materials and Methods: A study was performed on 1,384 pregnant women withgestational age of 12-16 weeks. A blood sample was obtained for measurement offerritin in the first trimester. Diagnosis of GDM was done by 75 gr oral glucosetolerance test between 24-28 wk.Results: Women who developed GDM had a higher concentration of serum ferritinthan women who did not develop GDM ($p=0.01$). A ferritin concentration of 45ng/ml was calculated to be the 75th percentile for healthy pregnant women.Considering this level 32% in the GDM group and 25.2%of normal subjectsexhibited high ferritin levels ($p=0.01$). The risk of GDM with these high levels offerritin was 1.4-fold higher than that for subjects with lower concentrations. TheOdds Ratio was 1.4 (95% CI= 1-1.87) ($p=0.01$). After adjusted for age Odds Ratiowas 1.38 (95% CI=1.02-1.86) ($p=0.03$) and after adjustment for pre-pregnancy BodyMass index, the adjusted odds ratio was 1.31 (CI= 0.96-1.79) ($p=0.08$). Aftermultivariable adjustment (age and body mass index), the adjusted odds ratio was 1.3(0.95-1.8) ($p=0.09$).Conclusion: High serum ferritin can be regarded as a significant risk .factor for thedevelopment of gestational diabetes

کلمات کلیدی:

Ferritin, Gestational Diabetes

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