عنوان مقاله:

Relationship between blood peroxidases activity and visfatin levels in metabolic syndrome patients

محل انتشار:

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خلاصه مقاله:

BACKGROUND: The observed relationships between visfatin, peroxidases activity, and metabolic syndrome (MetS) are inconsistent; therefore, this study was undertaken to understand these relationships. METHODS: This cross-sectional study was conducted as a part of the Isfahan Healthy Heart Program. A blood sample of ۹۰ MetS and non-MetS patients were used to estimate total cholesterol (TC), low-density lipoprotein cholesterol (LDL-C), and high-density lipoprotein cholesterol (HDL-C), triglycerides (TGs), fasting blood glucose (FBG), waist circumference (WC), systolic blood pressure (SBP) and diastolic blood pressure (DBP), visfatin and peroxidases activity. Data analysis for MetS group was carried out in two ways. (۱) MetS with three components and with >۳ components. (۲) MetS with hyperglycemia and without hyperglycemia. RESULTS: SBP, DBP, WC, FBG, TC, TG, LDL-C, and were higher and HDL-C levels was lower in MetS patients. There was a significant correlation between visfatin levels and peroxidases activity in MetS patients with three components. Levels of visfatin were significantly higher in male as compared to female subjects in the MetS with three components group. There was a significant decrease in peroxidases activity in >۴۵ years old subjects in the MetS with >۳ components group. A significant correlation was observed between serum visfatin levels and FBG in the MetS without hyperglycemia group. CONCLUSION: Peroxidases activities in MetS patients can be related to visfatin levels. Gender influences on peroxidases activity probably and was lower in female patients with MetS. Hyperglycemia does not influence peroxidases activities and visfatin levels. Keywords: Peroxidase, Metabolic Syndrome, Visfatin

کلمات کلیدی: