

عنوان مقاله:

Oxidative stress and its role in insulin resistance in polycystic ovary syndrome

محل انتشار:

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خلاصه مقاله:

The production of reactive oxygen species (ROS) can alter macromolecules in living organisms and can result in a wide range of injuries. Recently, oxidative stress has been known as a key mechanism in insulin resistance. Today, oxidative stress (OS) status assessment is performed using circulating markers such as malondialdehyde (MDA), superoxide dismutase (SOD) and glutathione peroxidase (GPX). Polycystic ovary syndrome (PCOS) with a prevalence of ۴-۱۲ % is the most common endocrine-metabolic disorder in the reproductive age of women. PCOS is now recognized as an important metabolic disorder. Insulin resistance (IR) independent of obesity in PCO women has been identified as a predisposing factor for type۲ diabetes and cardiovascular disease (CVD). Oxidative stress index is strongly associated with PCOS. The role of oxidative stress is very important but not considered but it plays an important role in the development of IR. In this mini review, we presented a viewpoint about the key role of brain's IR/OS in the brain-ovarian axis in the women with PCOS. These review articles helps us to better understanding of the PCO etiology.

کلمات کلیدی:

(Oxidative stress, Insulin resistance, polycystic ovary syndrome (PCOS

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