

عنوان مقاله:

The Possible Protective Effect of Resveratrol on Diazinon-Induced Oxidative Stress and Hepatic Injury

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خلاصه مقاله:

Diazinon, one of the most known organophosphate pesticides (OPs), has harmful effects on human organs. Acetylcholinesterase inhibition, oxidative stress, and inflammation are the major mechanisms of diazinon toxicity. Diazinon has several toxic effects on the liver. Resveratrol (RES) is a natural polyphenol compound with antitumor, anti-diabetic, anti-obesity, anti-oxidant, anti-aging, and anti-inflammatory effects. This compound can inhibit lipid peroxidation, protein oxidation, and DNA damage. Moreover, it can induce sirt-1, PI3K/AKT, and HO-1 pathways (negative regulators of inflammatory pathways). A large body of evidence indicated that resveratrol can attenuate liver damage by organophosphates. In this short review, we discuss the significant role of this phytoestrogen and antioxidant against the hepatotoxic effect of diazinon as an OP. With elucidation of the role of this supplement in reducing harmful effects of diazinon, it can be used as a protective agent in people at risk of adverse effects of diazinon.

کلمات کلیدی:

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