

Title:

Evaluation of the activity of Nitric oxide synthase, peroxiredoxin 2 enzymes in erythrocytes of mice with chronic exposure to bisphenol A.

Abstract:**Intruduction:**

Bisphenol A is a polymer compound that is used in meny plastic products.It induces oxidative stress in red blood cells and reduces antioxidant activities.

Result:

The obtained result showed that the induction of chronic bisphenol poisoning during the study period led to anemia in such a wey that RBC and HB values showed a significant decrease .This decrease is significant in the group suffering from bisphenol poisoning .Also the activity values of NOS and PRX2 enzymes and nitrit oxid values in the Bisphenol A poisoning group showed a significant increase compared to the control group.

Discussion and conclusion:

Bisphenol A poisoning can cause an increase in the activity of the nitric oxide enzyme and increase the production of nitric oxid in the induced blood cells and thus cause anemia .The increase in the activity of the peroxiredoxin deuterine enzyme in the blood is also a protective compensatory mechanism against the oxidative stress induced by It is bisphenol.

Keywords:

Bisphenol A, Oxidative stress, SOD, MDA, ROS.