Abstract

Anesthesia is a medical condition performed before surgery. It causes changes in the oxydant/ antioxydant statut. For several years, the study of anesthesic toxicity has attracted the intensity of several scientists to determine alternations in antioxidant activity under the influence of these drugs.

The objectif of this work is to evaluate the oxidative stress caused by anesthesia by the analysis of some prooxidative parameters (MDA) and other anti-oxidative (GSH, GPx, GST) in patients before and after the intervention surgical.

Our results show an increase in the level of malodialdéhyde (MDA) and GST activité in postopérative patients, wherease the concentration of GSH and the GPx enzymatic activity show a decrease in plasma and erythrocytes in postoperative patients, compared to preoperative.

In conclusion : Anesthesia as a xenobiotic, is associated with the imbalance of the oxidant/antioxidant balace.

Key words : anesthesia, antioxidants, lipid peroxidation oxidative stress.