

The side effects study of metronidazole (Flagel) in experimental mice

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By

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Abstract

The study was carried out to assess the side effects of metronidazole (Flagel) in experimental animals. A total of 70 Blab/c mice aged between two months and average weight of 22.0 gm were divided into four groups. The first group used as a control group, second, third and fourth groups were injected with 500 mg/kg of metronidazole at interval time of one, three and six months respectively.

Histological examination of liver, spleen, kidney, lung and brain related to injected animals showed many changes, this included necrosis, degeneration fibroses, conjunction and infiltration with inflammatory cells. All these changes were more distinct at the period of six months injection.

Histological study was made to determine the distribution of glycogen and lipid in the hepatocytes. In treated animals the liver appeared to have high glycogen concentration, while the lipid appeared to aggregated near the cell membrane when it compare to control group.

Also, the study confirmed the effectiveness of the drug on the activity of GOT and GPT enzymes. There were no significant difference was found at six months injected animals compare to control group.

The effect of the drug on body weight and pregnancy also assessed in treated animals statically there were significant difference in body weight between control and treated animals, where during pregnancy no change were detected.