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ABSTRACT BOOK

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1.1. ORAL PRESENTATIONS

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➢ **ORAL PRESENTATION**

The effect of bitter melon on brain of rats in bile duct ligation

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Abstract

Liver diseases can lead to various neurological disorders. Hepatic encephalopathy is a neuropsychiatric syndrome that can be seen frequently in these patients. Studies have reported that cirrhosis increases free radical production in the organism. The bile duct ligation (BDL) is a preferred model for examining cirrhosis and damages of various organs related to cirrhosis in rats. Studies with this model show that increased free radicals and inflammation damage tissues
Momordica charantia (Bitter Melon) is a plant which used for medicinal purposes in traditional folk culture in Turkey, especially in western Anatolia. It has been reported that this plant is an antioxidant and contains mucin, momordicin, resin, saponin glycoside, alkaloids, polysaccharides and carotenoids.

In this study, we investigated possible antioxidant effects of bitter melon on brain damage in rats with BDL induced cirrhosis model. Brain glutathione levels decreased significantly in the BDL group compared to the control group. The glutathione levels significantly increased on giving bitter melon and reached the levels of control group. Brain tissues were also examined histologically.

Keywords: Bitter melon, brain, bile duct ligation model