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Anti-Hepatocarcinogenic activity of hydroethanolic leaf extract of *Ctenolepis garcinii* against Aflotoxin-B1 induced Male Wister Rats.

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Abstract: Hepatocellular carcinoma (HCC) most common liver cancer prevailing among people is due to Aflotoxin B1 (AFB1), a powerful mycotoxin. The current study was undertaken to evaluate the 50% hydroethanolic leaf extract of *Ctenolepis garicnii* Burm. against HCC which was induced in male wistar rats 250µg of AFB1/kg/*i.p*) for 7 days. The administration of the hydroethanolic leaf extract at a dose of 250mg/kg and 500 mg/kg were given orally for a period of 14 days. The levels of antioxidants nucleic acids and LPO were measured. Elevated levels of nucleic acids were observed in cancer induced male wistar rats when compared to the control rats. The administration of the herbal extract to the AFB1 treated group restored the normal quantity of DNA and RNA contents. Lipid peroxidation was found to be decreased near normal whereas of antioxidant enzymes activity were increased in treated group when compared to the AFB1 group. From the present study, it is concluded that the antioxidant potential of the hydroethanolic leaf extract was responsible for its anti-neoplastic potential. **Keywords**: *Ctenolepis garcinii*, Aflotoxin B1, Enzymic antioxidants, Nucleic acids.

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