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### Hepatoprotective activity of *Morus alba* (linn). leaves extract against paracetamol induced hepatotoxicity in rats

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**Aim:** To investigate the hepatoprotective activity of *Morus alba* Linn. leaves extracts against paracetamol induced hepatotoxicity.

**Materials and methods:** Leaves powder of *Morus alba* was successively extracted with petroleum ether extract (PEE), chloroform extract (CHE), alcoholic extract (ALE) and water extract (AQE) against paracetamol induced hepatotoxicity and using Standard drug Liv-52. Preliminary phytochemical tests were done.

**Results:** The ALE showed presence of alkaloids, flavonoides, carbohydrates, tannins and steroids, while carbohydrates, flavonoides, alkaloids were present with AQE. The PEE, CHE, ALE did not produce any mortality. Carbon tetrachloride produced significant changes in biochemical parameters (increases in serum glutamate pyruvate transaminase (SGPT), serum glutamate oxaloacetate transaminase (SGOT), alanine phosphatase (ALP) and serum bilirubin.), histological (damage to hepatocytes), using Standard drug Liv-52. Pretreatment with ALE and AQE extracts significantly prevented the biochemical and histological changes induced by paracetamol in the liver.

**Conclusion:** The present study that shows the ALE and AQE extracts possessed hepatoprotective activity.

#### Biography

Hogade Maheshwar G has completed his MPharmacy at the age of 25 years from KLES's College of Pharmacy, Belgaum and pursuing PhD from Shri Jagdish Prasad Jhabarmal Tibrewala University, Vidyanagari, Jhunjhunu, Rajasthan, India. He has published more than 22 papers in reputed journals and serving as an editorial board member of reputed.

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