

ABSTRACT

Background & Objectives:

Gmelina arborea commonly known as ‘Gambhari’ tree or ‘Shriparni’ tree in Sanskrit is cultivated throughout India mainly for its edible leaves and bark. The objective of the present work is to study the effect of hydroalcoholic extract of leaves of *Gmelina arborea* on gastric ulcers.

Methods:

The effect of hydroalcoholic extracts of leaves of *Gmelina arborea* on gastric ulcers was evaluated by using different experimental models such as aspirin induced ulcer, pylorus ligation induced ulcers, ethanol induced ulcers and cold restrain stress induced ulcers. In all these models the common parameter determined was ulcer index. **Results:**

The hydroalcoholic leaf extracts of *Gmelina arborea* (286 mg/kg and 667 mg/kg) showed a significant effect on ulcer induced by different ulcer induced models. **Interpretation & Conclusion:**

The leaf extract of *Gmelina arborea* was effective in ulcer healing. It was concluded that leaves of *Gmelina arborea* increases healing of gastric ulcers and also prevent the development of gastric ulcers in rats.

Key words: *Gmelina arborea*; gastric ulcer; gastric secretion; gastric cytoprotection.