Evaluation of gastroprotective effects of the ethanolic extract of Peperomia pellucida (L) Kunth

ABSTRACT

This work was carried out to investigate the anti-ulcerogenic activity of Peperomia pellucida (L.) Kunth in necrotizing agent ie (ethanol, sodium chloride, sodium hydroxide and hydrochloric acid) and indomethacin-induced models in rats. The 70% of ethanolic extract of aerial part of Peperomia pellucida (PPE) was prepared. Four doses ie 10, 30, 100 and 300 mg/kg were selected for further study. Ulcer effects were determined by counting the total surface area of lesion in mm2. Results showed that PPE provided significant protection in various experimental models used. Pretreatment with the PPE at all doses (10,30,100 and 300 mg/kg) has produced significant inhibition of gastric mucosal damage induced by 80% EtOH, 25% NaCl, 0.6 M HCl, 0.2 M NaOH and 30 mg/kg indomethacin. The result suggests that PPE possesses anti-ulcer properties.

Keyword: Peperomia pellucida; Anti-ulcer; Ethanol-induced ulcer; Indomethacin-induced ulcer; Necrotizing agents