IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 2, December 2022
Impact Factor: 6.252

Evaluation of Gastro-Protective Activity of Ethanolic Extract of Roots of Vernonia Cinerea Less

Omkar Sheelvanth[1], Prof. Rajshekar Bhande[2], Dr. Md Farooq Ahmed[3], Dr. K. Sreenivasa Rao[4]
Department of Pharmacology, RRK's College of Pharmacy, Bidar, Karnataka, India[1,2,3,4]
omkarsheelvanth11@gmail.com[1]

Abstract: ***Background***: *Vernonia cinerea Less is a little shrub that belongs to the Asteraceae family and is found all throughout India. It grows to a height of 0.5 to 3 feet and has purple or pink flowers that bloom during the rainy season. Vernonia cinerea root has been reported to be useful against stomach acidity.*
Aim: *To evaluate gastro-protective activity of ethanolic extract of roots of vernonia cinerea less.*
Method: *The gastro-protective activity of ethanolic fraction of root of Vernonia cinerea less plant was tested by using screening technique of anti-ulcer activity.*
Results and Conclusion: *Administration of ethanolic extract of Vernonia cinerea less shows significant Anti-ulcer activity in a dose dependent manner (100mg/kg and 200mg/kg), when compared to control which is evident by decrease inulcer index. When compared to the control, the ethanolic extract of Vernonia cinerea roots exhibits less substantial anti-ulcer action in a dose-dependent manner, as evidenced by a drop in ulcer index. The ulcer index of Vernonia cinerea roots ethanolic extract is 3.16 0.600 at 100 mg/kg and 1.91 0.396 at 200 mg/kg. In comparison, the standard (Lansoprozole) mean ulcer index is 1.83 0.459.This result suggests that ethanolic extract of root of Vernonia cinerea less plant possess gastro protective(anti-ulcer) activity..*

Keywords: Gastro protective activity, Vernonia cinerea Less, Aspirin, lansoprazole, peptic ulcers

REFERENCES

[1]. Bafina P.A., R.Balaram. Antiulcer and antioxidant activity of peptic care, a herbomineral formulation. Phytomedicine. 2005:12:264-270
[2]. Laura S.Favier, Alejandra, O.M.Maria, Graciel H., Wwndal et al. Anti-ulcerogenic activity of xanthanolide sesqueterpenes from xanthium carvanillesi in rats. J.Ethanopharmacol. 2005:100:260-267.
[3]. Gupta M, Uk. Mazumber, L. Manikandan., S. Bhattacharya, GP. Senthikumar, R. Suresh. Anti ulcer activity of ethanolic extract of terminalia pallid Brandis. In swiss albino rats. J. Etanopharmacology. 2005:97:405-408.
[4]. Rujjanawate CD., Kanjanapothi D., Amomlerdpison S., Pojanagaron Anti-ulcer effect of Kaempferia parviflora. J Ethanopharmacol. 2005:102:120-122.
[5]. Akah PA., Onyirioha CA., Nworu CS., Ndu O. Gastro-protective effects of the leaf extracts and fraction of Fleurya aestuans L (Urticaceae). Int J Health Res, 2009:32:259-263.
[6]. Ilhan Gurbuz., Erdem Yesilada. In vivo Anti-ulcerogenic activity of Equisteum telmateia Enrh. Extract used in Turkish folk Medicine. Turk J. Biol. 2008:32:259-263.
[7]. Francesca Borrelli and Angelo A. Izzo. The plant kingdom as a source of Remedies. Phytother Res J. 2000:14:581-591.
[8]. Poonam Dharmani, Pushppesh Kumar Mishra, Rakesh Maurya, Vinay Singh Chauhan, Gautham Patil. Allophulus serratus: A plant with potential anti-ulcerogenic activity. J. Ethanopharmacol. 2005:99:361-366.
[9]. Mishra, Sandeep Arora, Rajiv Gupta, Manvi, Rajesh kumar, and Ashish Kumar Anurag, Effect of Feronia elephanum (Corr), fruit pulp extract on indomethacin induced gastric ulcer in albino rats. Trop J Pharma Res. 2009:8(6):509-514.
[10]. Jyoti TM, Shankariah MM, Prabhu K. et. al Heptatoprotective and antioxidant activity of euphorbia tirucali. Iranian J. pharmacology and therapeutics. 2007;(1):25-30.
[11]. Kulkarni SK. Hand book of experimental pharmacology. 2005:3:148-50.

IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 2, December 2022
Impact Factor: 6.252

[12]. Dashputre NL, Naikwade NS. Evaluation of Anti-Ulcer Activity of Methanolic Extract of Abutilon indicum Linn Leaves in Experimental Rats. Int.J.Phar. Sci and Drug. Res. 2011:3(2):97-100.

[13]. Kulkarni SK. Hand book of experimental 3rd edition, New Delhi, Vallbha prakastan 1999:128-131.

[14]. Unnati G, abdulkadir M, Priyaneshee G. Aspirin induced Asthma. Global. J. of Pharmacology. 2010; 4(1):19-30.