

Phytotherapy leads in the abatement of peptic ulcer and healing of dermal wounds in albino mice

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Abstract

The present paper reports the anti-ulcer potential of extract of the plant *Azadirachta indica* A. Juss and dermal wound healing potential of *Aloe vera* Tourn ex Linn. Studies were carried out partly at the animal experimental laboratory of Mahavir Cancer Institute and Research Centre, Patna by obtaining clearance from Institutional Animal Ethics committee. Swiss albino mice were selected as experimental material because of their physiological activities and 90% genes similar to humans. In one set of experiment, ranitidine and different doses of leaf extract (20mg, 40mg, 80mg) of *Azadirachta indica* were administered in ulcer induced albino mice and observations were noted at different intervals in each treatment. The parameters considered were gastric secretion (GS), ulcer index (UI) and ulcer number (UN). It was interesting to note that higher doses of leaf extract significantly reduced ulceration even surpassing the efficacy of ranitidine. Further the synergistic effect of ranitidine and even lower doses of the leaf extract significantly inhibited the ulcerogenesis. Thus leaf extract of *Azadirachta indica* possesses unique power of abating peptic ulcer. In the other set of experiment, surgically created dermal excision in albino mice were treated separately with chemical drug betadine and varying doses of *Aloe vera* juice (1.0 %, 5.0%, 10.0%) and observations were noted at different intervals in each treatment.



Biography:

Prof Nandjee Kumar completed his Ph D in 1984 and appointed Professor of Botany in 1987 at Magadh University, Bodhgaya, India. Further he was appointed Director, Institute of Biochemistry in the same organization. He has been actively engaged in research with publication of over 70 research papers and reviews in reputed national and international journals and four standard books. He has been serving as Vice-President of EMSI, EC member of AICGG and IBS. publications in international journals and several research abstracts / research posters to her credit.

.Speaker Publications:

- 1 "Assessment of Mito-inhibitory and Genotoxic effects of two Organophosphate Pesticides in the root tip cells of *Allium cepa* L", Nandjee Kumar, 2014, Annals of Plant Sciences.
- 2 "Impact Of Leaf Extract Of Neem (*Azadirachta Indica*) On Gastric Acid Secretion In Albino Mice". Nandjee Kumar, 2015, Indo American Journal of Pharmaceutical Research.
3. "The Effect Of Aloe Vera Juice On Dermal Wound Healing In Albino Mice", Nandjee Kumar, 2014, Indo American Journal of Pharmaceutical Research.
4. "A comparative study of alkaloids of root extract of *Melilotus alba* (l) and *Psoralea corylifolia*", Nandjee Kumar, 2015, International Journal of Bioassays.
5. "Detection of Anthocyanins of Flower Extracts of *Desmodium Gangeticum* (L) Dc", Nandjee Kumar, 2019, Indian journal of scientific research.



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