

Anti-inflammatory evaluation of *Ficus carica* Linn. leaf extract on rats

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The fig tree (*Ficus carica* L.) is one of the unique *Ficus* species widely spread in tropical and subtropical countries which has edible fruits with high commercial value. Fig has been traditionally used for its medicinal benefits as metabolic, cardiovascular, respiratory, antispasmodic and anti-inflammatory remedy. The anti-inflammatory activity of *Ficus carica* extract was evaluated on carrageenin, serotonin, histamine and dextran-induced rat hind paw oedema models. The extract at doses of 300 and 600 mg/kg has been found to possess significant anti-inflammatory activity on the tested experimental models. The extract (600 mg/kg) exhibited maximum anti-inflammatory effect that is 31.13, 32.03, 33.73 and 31.85% at the end of 3 h with carrageenin, serotonin, histamine, dextran-induced rat paw oedema, respectively. In a chronic test the extract (600 mg/kg) showed 71.66% reduction in granuloma weight. The effect produced by the extract was comparable to that of Indomethacin, a prototype of a non-steroidal anti-inflammatory agent. The results obtained with ethanol extract were particularly significant. So we can conclude that the present study supports the claims by traditional medicine practitioners about the usefulness of *Ficus carica* in inflammatory diseases. More detailed phytochemical studies are, however, necessary to identify the active principle(s) and exact mechanism(s) of action.

Biography

Vikas V. Patil has completed his Ph.D. at the age of 32 years from North Maharashtra University, Jalgaon Maharashtra, India in the faculty of Medicine and Pharmacy. He is working as an Associate Professor and PG Guide in SND College of Pharmacy, Babhulgaon Yeola Dist. Nashik Affiliated to Pune University. He has published more than 25 papers in reputed journals and has been serving as an editorial board member of reputed journals. He is life Member of APTI and INPHARM Association.