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(54) Title of the invention : DEVELOPMENT OF HERBAL FORMULATION OF ACHYRANTHES ASPERA FOR WOUND HEALING AND TREATMENT OF INFLAMMATION

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(57) Abstract :
 The present invention relates to the in-vivo wound healing and anti-inflammatory activities of solvent fractions from the 80% methanol leaf extract of Achyranthes aspera. The extract was fractionated using chloroform, n-butanol, and water. Wound healing was assessed using excision and incision wound models, while anti-inflammatory activity was evaluated through paw edema and cotton pellet-induced granuloma models. Fractions were applied topically (5% and 10% ointments) and administered orally (100, 200, and 400 mg/kg). The 10% chloroform fraction ointment showed the highest wound contraction and reduced epithelialization time (p < 0.01). It also exhibited the strongest anti-inflammatory effects, inhibiting edema (52.50%) and chronic inflammation components (37.52% and 52.81%) compared to indomethacin.

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