

Effects of *Strobilanthes crispus* juice on wound healing and antioxidant enzymes in normal and streptozotocin-induced diabetic rats.

ABSTRACT

The objective of this study is to determine the effect of *Strobilanthes crispus* Juice (SCJ) on wound healing and antioxidative enzymes activity in normal and streptozotocin-induced rats. A total of 48 male albino Sprague dawley rats, weight 150-200 g were used. The rats were divided into 8 groups with 6 rats in each group. The healing of 2 cm linear incisions created on the back of each rat was monitored by measuring the length of the wounds daily. The result showed a significant increase ($p < 0.05$) in the percentage of wound healing at day 3 and 7 in the treated group especially treated with 140 mg kg⁻¹ b.wt. of *S. crispus* juice in diabetic and normal rats compared with the control. *Strobilanthes crispus* juice increased significantly $p (< 0.05)$ of glutathione peroxidase (GPx) and superoxide dismutase (SOD) activity in treated group in diabetic rats. Significant correlation was found between wound healing, GPx and SOD enzymes. In conclusion, *S. crispus* juice enhanced wound healing in normal and diabetic rats.

Keyword: *Strobilanthes crispus* juice; Wound healing; Glutathione peroxidase; Superoxide dismutase.