

Effect of Bark Extract and Gum Exudate of *Commiphora Caudata* on Aspirin Induced Ulcer in Rats

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ABSTRACT

Commiphora caudata is used in Indian folk medicine as an antiulcerogenic agent. Despite of its promising use, there has been no scientific report present regarding its antiulcer activity. Therefore, this study was designed to evaluate the antiulcer activity of bark extract and gum exudate of *commiphora caudata* on aspirin induced ulcer in rats. Acute toxicity study was performed and 200 mg/kg was selected as an effective dose. Four groups of Albino Swiss rats were included in this study. Aspirin suspended in 0.5 % carboxymethyl cellulose (CMC) was given orally to group 1 rats as a negative control group. Group 2 and group 3 animals received methanolic extract and gum exudate of *commiphora caudata* respectively. Sucralfate was given orally to group 4 animals as a positive control. The methanolic extract of *commiphora caudata* has been found to reduce total acidity as much as by sucralfate. However, it has not changed the fluid secretion. The gum preparation not only reduced the total acidity but also considerably reduce the gastric fluid secretion. In case of ulcer score sucralfate, methanolic extract and the gum have produced the low ulcer score compared to aspirin. Increased gastric mucosal protective mechanism by bark extract and gum exudate is probably due to the presence of some active principles present in the plant. However, further investigations are required to elucidate their exact mechanism of anti-ulcer activity.

KEYWORDS

Commiphora caudata . bark extract . gum exudate . antiulcer . sucralfate . aspirin

REFERENCES

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