ANTIULCER EFFECT OF COMBINATION OF TURMERIC (
\textit{Curcuma domestica} Val) AND PROPOLIS EXTRACTS ON
ACETOSAL-INDUCED ULCER IN MALE WISTAR RAT

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ABSTRACT

Turmeric (\textit{Curcuma domestica} Val) and propolis showed antiulcer activity as well as gastroprotective effect on the gastric mucosa. The combination of both extracts is suggested to show a better antiulcer activity. This study aimed to determine antiulcer activity of turmeric and propolis extracts combination on acetosal-induced ulcerative rat model. Male Wistar rats were randomly distributed into 7 groups, each group consist of 5 rats. All of the animals were fasted from food for 18 hours before ulcer induction. Ulceration was induced by giving acetosal orally for 7 days. After induction performed, each group was treated with tragacanth (positive and negative control), ranitidine (comparator), combination of turmeric and propolis extracts (formula 1 and 2), turmeric extract and propolis extract alone for 7 days. The rats were sacrificed at day 15\textsuperscript{th}, and the gastric organ was taken. The number of lesions and ulcer severity were determined through macroscopic and microscopic observation. Group treated with combination formula 1 showed significant decrease in number of lesions compared to positive control group, ranitidine group, and group treated with propolis extract only (p <0.05). In conclusion, combination of turmeric and propolis extracts has a better antiulcer effect than propolis extract alone or ranitidine.

Keywords : antiulcer, turmeric, propolis, lesion, acetosal