## EFFECT OF THE AQUEOUS EXTRACT OF MATRICARIA CHAMOMILLA ON STRESS-ETHANOL INDUCED ACUTE GASTRIC ULCERATION IN RABBITS

## Abstract

The anti-ulcer effect of the aqueous extract of Matricaria chamomilla flowers (chamomile extract, CE) had been tested on stress-ethanol induced gastric ulceration in rabbits. The first part of the study was to induce acute gastric ulceration by stress or stress-ethanol combinations. Stress alone was unable to produce gastric ulcerations while ulcer was induced in the group of rabbits exposed to stress in the presence of ethanol (5ml/kg) with a mean value of ulcer index of 108.3mm  $\pm 29$  (n=8). Histopathological examination was done to confirm the effect of stress-ethanol combination on gastric mucosa. The second part of the study was performed to investigate the pharmacological effect of various concentrations of the aqueous extract of chamomile (1%, 4% and 8%) on gastric ulceration. The extract was given 15 minutes before ethanol administration. The results have shown a significant anti ulcer effect of chamomile extract with mean values of ulcer index of 76.  $4mm \pm 14.2$  (P< 0.01);  $11mm \pm 14.2$ (P<0.005) and  $53mm\pm27.9$  (P<0.01) for the concentrations 1%, 4% and 8% respectively as compared to the control value of 133.25 mm±46.2 (n=8). It is concluded that the extract of Matricaria chamomilla flowers has anti ulcer effect.