

## The analgesic effects of the medicinal plant *Portulaca oleracea* seed extract

Supported by: GREEN, IAS, AIC

### Background

There are many plant extracts which can modulate pain response. The aim of this study was to investigate the effects of *Portulaca oleracea* seed hydroalcoholic extract on pain threshold in male mice.

### Methods

In this laboratory experimental study, animals were randomly divided to control and groups receiving low, moderate and high doses of *Portulaca oleracea* seed extract. Following intraperitoneally administration of extract, pain threshold was measured using tail flick test and data were analyzed using ANOVA.

### Results

The results indicated that 6mg/kg/body weight of hydroalcoholic *Portulaca oleracea* grain extract has anti-stabilizing activity on RBC membrane stability in male. Increased pain threshold was observed 30 minutes and 1 hour after administration of moderate dose of extract ( $P < 0.05$  and  $P < 0.01$ , respectively), and also 30 minutes and 1 hour after administration of high dose of extract ( $P < 0.001$ ).

### Conclusion

The findings indicate that appropriate doses of *Portulaca oleracea* seed extract has pain reducing effects..