**A STUDY OF ANALGETIC EFFECT AND SUBACUT TOXICITY OF KITOLOD LEAF (*Isotomalongiflora*L*.)* ETHANOLIC EXTRACT IN MALE WHITE MICE**

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**ABSTRACT**

A study on the analgesic effect and subacut toxicity of kitolod leaf (*Isotomalongiflora* L. Presl.*)* ethanolic extract in male white mice has been done. The experiment was conducted on 30 mice which divided into 6 groups i.e. negative control, positive control, comparison (mefenamat acid 65 mg/kg BW), and the ethanolicextract of kitolod leaf dose 1, 2 and 4 g/kg BW. The extract was given orally for 15 days. Analgesic activity was tested on day 1st, 5th, 10th and 15th. Pain was induced by acetic acid 1% b/v iply 1% BW. The parameters observed was that the number of stretching animals with writhing test method..Subacut toxicity parameters were SGPT activity and serum creatinine level.The experimental animals were divided into 4 groups i.e. control group given Na CMC and ethanolic extracts of kitolod leaf groups with a dose of 1, 2, 4 g/KgBW, given orally for 15 days. The activity of SGPT and serum creatinine level were measured on day 1st, 5th, 10th and 15thusing a spectrophotometer.

The research conducted found that kitolod leaf extract was proved effective as analgesic seen from the decrease in the number of strains of animals tested compared with the control. The greater the dose and the duration of administration, the analgesic activity of this extract is better. The ethanolic extract of kitolod leaf showed no effect on the activity of SGPT and serum creatinine level. This was seen in the absence of significant differences in the activity of SGPT and serum creatinine levels of the test group compared with the control group.Ethanolic extract of kitolod leaf has been proven active as analgesic and safe in use for 15 days.

**Keywords** :Kitolod(*Isotomalongiflora* L. Presl.),analgesic activity, subacut toxicity