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Study of the diuretic activity in aqueous extract of roots of *Anacyclus pyrethrum* in albino Wistar rats

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Objective: The aim of the study is to evaluate the diuretic activity of aqueous extract of roots of *Anacyclus pyrethrum*.

Methodology: Albino Wistar rats weighing 200-250 gm of either sex were randomly selected from Central animal facility, JSS Medical College, Mysore. They were divided into 3 groups of 6 rats each (n=6). The animals were fasted overnight. Next day group-1 which is control-received normal saline (25 ml/kg p.o.), group-2 which is standard-Furosemide 20 mg/kg body weight, group-3 which is test received 100 mg/p.o., aqueous extract of roots of *Anacyclus Pyrethrum*. The experiment was carried out in a diuretic cage. The results were analyzed by One Way Analysis of Variance (ANOVA). There was a significant diuretic activity compared to that of control. P value of less than 0.05 was considered significant.

Results: There was significant increase in urine volume by the aqueous extract of roots of *Anacyclus Pyrethrum* when compared to the control group, while the excretion of urinary electrolyte concentration revealed diluted urine in the test group signifying the diuretic activity of the extract.

Conclusion: Aqueous extract of *Anacyclus pyrethrum* have a significant diuretic activity in Albino Wistar rats. Further tests are to isolate the active principles responsible for the activity suggested and also required to evaluate diuretic property in human subjects.

Biography

Divya Reddy K has completed her MBBS from Mahadevappa Rampure Medical College, Gulbarga. Presently she is pursuing her Post-graduation course in Pharmacology at JSS Medical College, Mysore. Her dissertation work is on "Herbal plant for its anti-cancer activity on lung cancer cell lines (*In vitro* study)". She has given a poster presentation at Carcinogenesis 2015-Mumbai on EAC cell lines and she has 2 publications to her credit.

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