

EVALUATION OF 180-DAY REPEATED DOSE ORAL TOXICITY STUDY OF VASANT KUSUMAKAR RASA (STANDARD) IN WISTAR RATS.

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ABSTRACT

Ethnopharmacological Relevance: The word Rasashastra literally denotes the “Science of Mercury”. It is a specialized branch of Ayurveda dealing mainly with materials which are kened as ‘Rasa dravyaas’. The products dealt under this discipline are a consequential component of Ayurvedic therapeutics.

Objective: The main Objective of the present study was to evaluate safety of Vasant Kusumakar Rasa (Standard)

Method: A total 70 males and 70 females were randomly divided into five groups, namely, group I Vehicle control (0.1 % CMC), Group II (67.5 mg/kg B. W.), Group III (202.5 mg/kg B.W.), Group IV (337.5 mg/kg B.W.) and Group V- Satellite group (337.5 mg/kg B.W.) consisting 15 male and 15 female in first four groups and 10 male and 10 female in satellite group.

Results: There was a significant decrease body weight in males in the group II animals on 2nd week of study; however, there was no significant effect in food consumption and body weights in females. Some hematology and serum biochemistry parameters showed significant changes in males and females in different groups of at various weeks were observed, but these findings were well within the normal ranges. In histopathological examination, lung congestion involving leukocytic infiltration, and MNC infiltration in and around the bronchiolar lumen, alveolar hemorrhage were observed in treated and control groups.

Conclusion: The results of present study demonstrated that, Vasant Kusumakar Rasa (Standard) does not cause any observable toxicity at doses used in the study when administered for the period of 180 days and was found to be safe.

Keywords: *Rasashatra*, Vasant Kusumakar Rasa (Standard), Chronic toxicity study, *No observed effect level* (NOEL), etc.

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