

**PATHOLOGICAL EVALUATION OF REPEATED DOSE ORAL TOXICITY STUDY OF BRUHAT VATA CHINTAMANI IN WISTAR RATS.**

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**ABSTRACT**

**Ethnopharmacological Relevance:** Bruhat Vata Chintamani Rasa is an Ayurvedic formulation, indicated for the treatment of Vata Dosha imbalance diseases such as paralysis, hemiplegia, facial palsy, tremors etc. This Ayurvedic formulation is composed of heavy metal ingredients.

**Objective:** To study pathological evaluation of repeated dose of Bruhat Vata Chintamani Rasa (BVC) in rats

**Method:** Two treatment group animals were given with Therapeutic Dose (TD) and twice of Therapeutic Dose (2TD) for consecutive days, which were 1 and 2 times the proposed human therapeutic dose (HTD). The 3rd group or control group, receive Carboxy Methyl Cellulose (CMC). The rats were fasted overnight prior to the terminal necropsy and their body weights were recorded. Blood samples were obtained for laboratory investigations from all the animals before necropsy. Weights of certain organs were recorded. Histopathological evaluation was performed on brain, heart, kidney, lung, spleen, liver, adrenals, uterus and ovaries in all rats from all groups.

**Results:** Animals were evaluated using functional observation battery (FOB), and no remarkable changes were observed in gross and clinical symptoms throughout the study period. Body weights, feed, water intake in all treated animals were not significant as compare to control group animals. In present study no treatment related gross pathological changes were observed in animals from different treatment groups.

**Conclusion:** Based on these outcomes of the present chronic study, the *NOEL (No Observed Effect Level)* for BVC in Wistar rats could be concluded at that of doubled of human dose.

**Keywords:** Bruhat Vata Chintamani Rasa, Heavy metals, Ayurvedic Formulation, Chronic toxicity study, *No observed effect level (NOEL)* etc

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