

**EVALUATION OF HEMATINIC ACTIVITY OF ABHRALOHA® TABLET IN EXPERIMENTAL MODEL OF IRON DEFICIENCY ANEMIA**

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**ABSTRACT**

**Background:** Abhraloha is a herbomineral ayurvedic proprietary medicine, which is extremely effective as a Raktavardhak and Balya as it increases Rasa and Raktadhatvagni.

**Purpose:** To study effect of Abhraloha Tablets in experimental model of Iron Deficiency Anemia.

**Method:** Animals were randomized before acclimatization and divided into four groups as follows: 24 female Wistar rats were divided into four treatment groups that received the following treatments during a 42 day period. Group I receive Normal diet, Group II receive iron deficient diet, group III received Test formulation i.e Abhraloha (13.5 mg/kg p.o ) and Group IV received standard treatment i.e. Ferrous sulphate (13.5 mg/kg p.o.). For initial 21 days, **Group 1** rats received normal diet while **Group 2, Group 3 & Group 4** rats received iron deficient diet, essentially no iron (to induce iron deficiency). From day 22 onwards, **Group 3 & Group 4** rats were treated with iron supplements (Abhraloha or Ferrous sulphate) till 42 day. Blood samples were analyzed on 1<sup>st</sup> day, 22<sup>nd</sup> day, 29<sup>th</sup> day, 35<sup>th</sup> and 42<sup>nd</sup> day for different blood parameters.

**Result:** Abhraloha exhibited a higher rise in hemoglobin formation on the day 14th and RBCs on day 7th, 14th and 21st indicating rapid recovery from anemia. Abhraloha exhibited a higher rise in serum iron content on the day 14th & 21st and exhibited more decrease in serum iron binding capacity on day 7th and 21st as compared to standard ferrous sulphate treated animals. It was also observed during the study that the animals treated with Abhraloha did not show hard stool as was seen ferrous sulphate treated animals.

**Conclusion:** Both Abhraloha and Ferrous sulphate were found to be equipotent in the treatment of iron deficiency anemia. Abhraloha exhibited faster recovery as far as Hb / RBCs formation and an increase in serum iron content were considered. Also Abhraloha is free from constipation as commonly observed in ferrous sulphate.

**Keywords:** Abhraloha, Herbo-mineral, Iron deficient anemia, Serum iron content, hemoglobin.

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