

SUMMARY

Effects of the leaves suspension of *Cassia occidentalis* on the elimination of excess iron from the artificially iron overloaded rabbits has been studied. Since the overloading of iron in higher amount becomes toxic, as it affects heart, liver, and kidney functions.

Leaves suspension of *Cassia occidentalis* suspension (@250mg/kg) has been used in the elimination of iron from iron overloaded rabbits. Rabbits were divided into three groups. Group I included normal control rabbits. Group II included iron overloaded control rabbits and this group was iron overloaded for five weeks and then left untreated with the herb and Group III included iron overloaded for five weeks and then treated with herb for four weeks.

Iron concentrations in serum and body organs like heart, liver and kidneys were assayed in all groups of rabbits after iron overloading with jectosol plus injections as per dose of 0.3 ml (15 mg iron) per pound intramuscularly daily for 5 weeks. There was significant increase in iron concentrations in the sera and organs studied. Due to iron overloading, changes like loss of weight, loss of hair, loss of activity and increased heart rate were observed.

After four weeks of herbal treatment (@250mg/kg), there was significant decrease in iron concentrations in serum and organs like heart, liver and kidneys of iron overloaded rabbits as compared to iron overloaded left untreated with herb group. This decrease was more significant in kidneys and liver as compared to the heart. The rabbits seem to eliminate excess iron from their body to some extent without the assistance of any drug and the leaves suspension of *C. occidentalis* eliminated excess iron (artificially loaded) at a faster rate and considerably and significantly more amounts.