ACUTE ORAL TOXICITY STUDY OF AMRUTADI GUGGUL IN MICE

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ABSTRACT

Objective: The aim of present study was to evaluate the acute toxicity of Amrutadi Guggul in mice.

Material and Method: In this study the three doses 2.6 mg/20 g, 13 mg/20 g and 26 mg/20 g of Amrutadi Guggul were administered orally for 14 days.

Result: The oral administration of Amrutadi Guggul at the highest dose (10 times) of Therapeutic dose resulted in no mortalities or evidence of adverse effects implying that Amrutadi Guggul is non toxic. Throughout 14 days of the treatment no hyperactivity, depression or abnormal behavior was seen. Also, there was no cyanosis, blanching or Inflammation of nasal tips, paws, eyes, ears, No abnormal secretion from mouth, eyes & nose was seen. Autopsy study showed that, there was no enlargement of any organ. There was no swelling or inflammation of the organs and no external or internal bleeding was seen.

Conclusion: Amrutadi Guggul was administered to mice in three different doses. These doses were 2.6 mg/ 20gm, 13 mg/ 20gm, & 26 mg/ 20gm. The equivalent human doses are 1.0 gm, 5.0 gm & 10.0 gm respectively. The maximum dose administered was 10 times the therapeutic dose. There were no signs and symptoms of toxicity observed even for 10 times the therapeutic dose. There was no mortality. The result of the study indicates that Amrutadi Guggul is safe.

Keywords: Amrutadi Guggul, cyanosis, Acute Toxicity, body weight, depression etc.