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Topic of Research: Quality standard, In-Vivo Bio-efficacy and Toxicity Studies of Kushta e Gaudanti

Keywords: Gypsum, Kushta, Anti-inflammatory, Unani, Standardization

Findings

Kushta Gaodanti was prepared by classical method and a thermogram was developed by recording the temperature changes during calcination to prepare the drug by Furnace methods. Further, a multidisciplinary approach using modern analytical techniques with classical tests was done in assessing the quality of Kushta Gaodanti prepared by classical and Furnace methods. The advanced analytical techniques used in this study grants an applicable correlation between the traditional information on characterization and processing of Kustha. Evaluation of acute oral toxicity with 2000mg/kg test drugs in Wistar rats, reported no death or any toxicity signs throughout the study duration. Evaluation of anti-inflammatory effects of higher and lower doses of three samples of Kushta Gaodanti was carried out in Wistar rats by Carrageenan induced paw edema model. Acetylsalicylic acid was used as standard. Analysis of pro-inflammatory cytokines, TNF- α , IL-6, and L-1 β , by estimation of malondialdehyde concentration, catalase activity and total antioxidant activity and histopathological analysis were done. The groups of animals pretreated with Acetylsalicylic acid, higher dose of KGC and KGF exhibited significant improvement in all the tested parameters with different significant levels and also the histopathological analysis.