**Abstract:**

Jigrine a polypharmaceutical herbal formulation containing aqueous extracts of 14 medicinal plants developed on the principles of unani system of medicine is used for liver ailments. The hepatoprotective potential of jigrine post-treatment at the dose of 0.5 ml/kg per day p.o. for 21 days was evaluated against thiocetamide induced liver damage in rats. Biochemical parameters like AST, ALT in serum and TBARS and glutathione in tissues were estimated to assess liver function. Data on the biochemical parameters revealed hepatoprotective potential of jigrine post-treatment against thioacetamide induced hepatotoxicity in rats. Silymarin used as reference standard also exhibited significant hepatoprotective activity on post-treatment against thioacetamide-induced hepatotoxity in rats. The biochemical observations were supplemented with histopathological examination of rat liver sections.