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Abstract

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Lithotriptic Activity of Polyherbal Formulation, Beikh E Karafs (*Apium graveolens*), Rewandchini (*Rheum emodi*), Namak E Turb (*Raphanus sativus* Linn) with Lithogenic Diet Induced (*Hasathul mirarah*) Cholelithiasis in Mice



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ABSTRACT

The word Cholelithiasis derived from Greek word (chol =bile,lith=stone iasis=process)¹.Gall stone are the most common biliary pathology. Over 95% of biliary tract diseases are attributed to Cholelithiasis (gallstones). It is estimated that gallstones are present in 10–15% of the adult population in the USA. They are asymptomatic in the majority (>80%). Approximately 1-2 % of asymptomatic patients will develop symptoms requiring cholecystectomy per year². Gallstones are form when bile contains either insufficient bile salts or lecithinor excessive cholesterol, the cholesterol may crystallize to form gallstones. As they grow in size and number, gallstones may cause minimal, intermittent, or complete obstruction to the flow of bile from the gallbladder into the duodenum³.When bile is supersaturated with cholesterol or bile acid concentrations are low, unstable unilamellar phospholipid vesicles form, from which cholesterol crystal may nucleate and stones may form. The process of gallstone formation is complex. Obesity, high calorie diets and certain medications can increase the secretion of cholesterol and supersaturate the bile, increasing the lithogenicity of bile. Abnormal emptying of the gallbladder may promote the aggregation of nucleated cholesterol crystals⁴. In light of current situation and need of time an experimental study will conduct in animal model mice in which gall stone were induced in mice using lithogenic diet for a period of 12 weeks and after 8 weeks test drugs or UCF (Unani Compound Formation) will be given for 4weeks and after 4 weeks of treatment that is at the end of 12 weeks mice will sacrificed and biochemical parameters assessment will be done and histopathological studies were performed and all the result were evaluated using one way -ANOVA at the end of 8weeks and 12 weeks.,the present work is expected to contribute substantially to the fulfillment of this experiment⁵. The unani system of medicine provides timetested and effective remedies. As this Unani compound formulation has lithotriptic^{6,7,8} diuretic^{6,7,8} deobstruent^{6,7}, anti inflammatory⁷, resolvent⁷, antidiyslipidemic,⁹ hepatoprotective action¹⁰ etc, in nature. Thus this UCF can decrease the incidence of stone formation and improves the biochemical parameters, which may be one of the mechanism in the treatment and prevention of gallstone formation.



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