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Formulation and Evaluation of Herbal Antitussive Ash Syrup of *Allium Sativum*

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Abstract

Plant-derived medicine plays an important role in the management of various disorders. These drugs are highly effective and have none or very few side effects. Many newer formulations are developed with the use of herbal drugs. The herbs ash is highly valued in the Ayurvedic system of medication for antitussive activity. The present work has been carried out on the ash of fresh bulb of *Allium sativum* syrup for their antitussive effect of ammonium hydroxide induced cough model in mice. *Allium sativum* belongs to the Liliaceae family. Traditional data revealed certain pharmacological actions like flavouring agent, carminative, atherosclerosis, antiviral properties, antifungal properties, antiprotozoal properties, antimicrobial activity, antibacterial, hepatotoxicity, cardiovascular diseases, and antitumour activities were carried out. But not much work is carried out on an antitussive activity. The main objective of this research was to develop a formulation of the ash of fresh bulb of *Allium sativum* syrup and subjected to evaluate its physicochemical and pharmacological parameters. The result of antitussive ash syrup suggests that it exhibited significant antitussive activity in a dose-dependent manner against the standard drug diphenhydramine HCL. It has been observed that the extract has produced 55%, 75%, and 80% reduction in cough bouts at the dose level of 1, 2, and 3 respectively after one hour of drug administration. The dose of 3 ml was found to be very effective and it was found that antitussive activity produced by the herbal formulation in the minimum dose was comparable as compared to the standard drug.

Key words: Antitussive agent, *Allium sativum*, Ammonium hydroxide, Citric acid, Diphenhydramine HCL

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