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Standardization, quality control and immunomodulatory activity of medicinal plat hygrophila spinosa

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Hygrophila auriculata (Schumach.) Heine known as Hygrophilla spinosa in homoeopathic system of medicine belongs to the family Acanthaceae. It is native of India, which widely distributed from Himalayas regions to Nepal, Ceylon, Burma, Malaysia, and Srilanka1. Traditionally plant is useful for the treatment of urogenital tract, hyperdipsia, diarrhea, dysentery, leucorrhoea, blood diseases, and immunity boosters etc. The upliftment of immune responses of body is the cutting edge in thwarting the viruses to stay healthy. The traditional Indian medicines network is one of the oldest health modules since the human existence and plays a crucial role in combating and fulfilling the needs of the global healthcare Standardization is a significant tool for ensuring the quality of herbal drugs. This study explores the potentiality of H. spinosa in terms of immunomodulatory activity associated with COVID-19.The aim of this study was to examine the macroscopical, microscopical, powdered microscopic studies, quality control, HPTLC and immunomodulatory activity of H. spinosa of raw drug and in-house homeopathic mother tincture. The study includes quality control standardization as per the standard methods provided in World Health Organization for standardization of medicinal plants. Pharmacognostic study, phytochemical screening of in house mother tincture, quantification of some phytoconstituents with HPTLC and in-vivo immunomodulatory activity was also carried out. The Immunomodulatory activity was carried out by experimental animal models namely (i) Humoral immunity (ii) Cellular immunity and (iii) Non-specific immunity. The diagnostic characters of H. spinosa were evaluated on the basis of diagonistic characters. Physicochemical parameters were evaluated such as loss on drying with; ash values, Extractive values. Phytochemical screening showed the presence of phytosterols, fatty acids, polyphenols, alkaloids, carbohydrates, flavonoids, terpenoids and glycosides by various tests and the mother tincture was assessed by HPTLC analysis. The results of experimental animal models used in the study for immunomodulator activity showed the statistically significant which reveals the potential immunostimulant activity of H. spinosa mother tincture.

Biography

Renu has completed her Masters in Pharmaceutical Science at the age of 24 years from Guru Jambheshwar University of Science and Technology, Hisar and doctoral studies from Jaipur National University (JNU). She is in teaching profession (Pharmacy) in Department of Technical Education, Govt. of Haryana since 9.6 years. She has published 52 publications consists of 34 research/review papers in reputed journals including 13 books & book chapters and 05 Monographs and has been serving as an reviewer of reputed Journals, had convened total 67 technical meetings, coordinated the 33 projects under drug Standardization Program, International experiences with 13 organizations/countries in terms of Scientific sessions in conferences, seminars and forums and interacted with 32 countries in terms of administrative, policy issues and scientific work as well and coordinated/conducted/represented more than 65 national and international level conferences, seminars and webinars.