

**Standardization, quality control and biological evaluation of selected medicinal plants used in AYUSH system of medicines****Renu Arya**

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Traditional system of medicines has become significantly more popular all over the globe because of the effective and curative nature for chronic disease with less toxicity. Herbal medicines are not a simple task since many factors influence the biological efficacy and reproducible therapeutic effect. India is a mother hub for development of Ayurveda, Unani, Siddha; Homoeopathy and other natural herbs-based health sciences. Ministry of AYUSH which is abbreviated as. (Ayurveda, Yoga & Naturopathy, Unani, Siddha, Sowa-rigpa and Homoeopathy) is purposed with developing education, research and propagation of indigenous alternative medicine systems in India for improving healthcare access and also for enabling its penetration to the rural masses. Standardization of drug comprises the confirmation of its identity, quality and purity throughout all phases of its by various parameters. The quality product is the only key for the safety and therapeutic efficacy. Considering the complexity of plant, it is quintessential to establish its standardization and quality control following the WHO guidelines for the same. Currently, world wide, there is an increase in diseases especially infectious diseases (recently COVID-19 pandemic) that requires efficient body defense mechanisms to control them through the process of immunomodulation. Govt. Of India constantly supported the Ministry of AYUSH to develop or repurpose the medicines for the treatment of Covid infections and post Covid complications including improvement of respiratory systems, immunity boosters, cardiovascular diseases, Diabetes (due to the steroids given as the treatment regime), anxiety, hair loss, weakness etc. reported in post Covid cases. The role of immunity boosters/ immunomodulators have played the major role curb from above mentioned complications. Govt. of India has launched the repurposed medicine Ayush-64 (Ayurvedic medicine), Kabasura kudineer (Sidha medicine) Bryonia alba, Arnica, Gelsemium (Homoeopathic medicine) and Tiryag-e-Arba (Unani medicines) for the treatment of Covid patients some of which were used for the treatment of malaria and later on used for the treatment of ILI-6. These polyherbal drug that has shown antiviral, immune-modulator and antipyretic properties. These medicines were approved only after analysing the clinical data on Covid patients with significant results of research. This is how Alternative medicines (AYUSH) have played a crucial role in India to counter this deadly disease.

**Biography**

Renu has completed her Masters in Pharmaceutical Science at the age of 24 years from Guru ambheshwar 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.

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