

Quality Control and Standardization of Medicinal Plants & Herbal Medicines

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Abstract:

In spite of recent developments of antibiotics and newer synthetic drugs, a vast majority of people depend on traditional medicines for their primary health care needs and it can safely presumed that a major part of traditional therapy involves the use of plant extracts or their active principles. In the recent years with ever growing commercialization in the field of herbal medicines, there has been an instant demand for quality control of the drugs used in this system. The studies on the identity, purity and quality of the genuine drug will enhance information in checking the adulteration. A set of standards would not doubt be deterrent on substitution and adulteration and also an aid for 'Drug law Enforcement'. The present talk incorporates study from birth of the plant to its clinical application which is a dire need for all concerned to have a knowledge of GAP, GFCP, GLP, CGMP and the possible adulterations. All modern instrumentation used for quality control will be discussed with special reference to GC/MS for aromatic plants. Besides above protocols, this study deals with approaches towards establishing the Safety & Quality starting from preliminary examination of a medicinal plant, its morphoanatomical, pharmacognostic, physicochemical and analytical parameters, foreign organic matter, pesticide residue, radioactive and microbial contamination, chemical assay, finger printing of different extractives using modern extractors, Chromatographic and Spectroscopic techniques, phytochemical screening, quantitative analysis of inorganic constituents and standardization with special reference to marker compounds in plant species and their fingerprinting along with its modern perspectives. Different stages, i.e Quality Control Studies of Raw medicinal plant, Controlled Studies on Method of Processing, Quality Control Studies of Finished Phyto Medicines, Standardization Procedures at each stage from birth of the medicinal plant up to clinical application of herbal medicine will be described. An emphasis have been given on the protocols which are required for Registration of phytomedicines/Herbal Medicine.

Biography:

Professor Mohammad Kamil: Ph.D.; D.Sc. Chartered Chemist (London); Fellow of Royal Society of Chemistry London, is Head TCAM Research, Zayed Complex for Herbal Research & Trad.Medicine, DHL&ME- DOH, Abu Dhabi, UAE .A recipient of Common Wealth Award-London; Convention Award of Chemical Society-India; Association of Common Wealth Universities -London; and Global award on Unani Medicine and various other prestigious honors & awards Worked as in charge of Drug lab.MoH India, Professor at Jamia Hamdard University,. More than 350 papers and abstracts in reputed journals and international conferences are at his credit; chaired a no. of International Scientific sessions and presented invited talks as plenary and invited speaker at various International conferences / symposia. Associated with publication of many books; Author of a book besides five/six chapters in different books; Research work cited widely in books e.g. Advance in research, Chapman and Hall, London, New York;Melbourne; Studium Press,USA,UNIDO-Italy.