

WHO (WORLD HEALTH ORGANIZATION) GUIDELINES FOR STANDARDIZATION OF HERBAL DRUGS

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ABSTRACT

Herbal drugs are being used as medicines from ancient period. The increased use of herbal drugs, and concerns over their safety and efficacy have certainly augmented the need of standardization of these herbal drugs. WHO has set up guidelines for standardization of these drugs, which are used as a standard by the majority of countries. The standardization includes the external (macroscopy/microscopy) as well as internal examination/ash values, extractive values and many other parameters to identify, authenticate and study its chemical composition. Standardization of the medicinal plants will ensure indirectly that the plants are conserved for their medicinal and nutritive value. Standardization confirms the safety of the medicinal plant but efficacy has to be judged clinically or in the laboratory. There is a thin line between efficacy and the presence of chemical compounds in the drug. The major hurdle in standardization of the batch to batch variation in the plant compounds. Addition of finer analytical methods of the chemical compounds may help to minimize the variation and give a better resolution of the plant drug. Importance of toxicological examination has increased manifolds as contamination can occurs at various stages, from collection, storage, analysis or processing to extraction of active principles. These parameters should be recorded for years together; their database should be generated, recorded and analyzed statistically to see the difference in quality and quantity of the chemical compounds.

Keywords: Standardization, herbal drug, botanical, pharmacological, toxicological, parameters

INTRODUCTION

Medicinal plants are in use for the purpose of treatment of different ailments since centuries. There has been an immense increase in sales of herbal OTC (Over the counter drugs). This is growing to a billion dollar industry. The need for safety and efficacy has also escalated since the western interest has grown. Thus the need for standardization has come into view. The process of evaluation of the quality and purity of

crude drugs by means of various parameters like morphological, microscopical, physical, chemical and biological observations is called standardization.¹ Standardisation of the herbal drug begins from the collection of the herbal drug to its packaging/use as medicine. The impediments in standardization of herbal drugs:

- Variability in the chemical composition of the soil and changes in the climate in-

Who Guidelines For Standardization Of Herbal Drugs

C. K. Ong

Who Guidelines For Standardization Of Herbal Drugs:

Standardization and Utilization of Herbal Medicines J. O. Moody,1999

Quality Control and Regulatory

Compliance for Herbal Medication Raveesha Peeriga,Krishnaveni Manubolu,2025-06-30 This comprehensive book provides a detailed framework for the evaluation and standardization of herbal products promoting the safe and effective use of herbal medicines through rigorous testing and compliance with global regulatory requirements It begins with an overview of the fundamental tests for medicinal plant materials followed by an in depth look at World Health Organization WHO guidelines for quality control and the evaluation of commercial drugs The book explores quality assurance practices like cGMP GAP GMP and GLP with a focus on traditional medicine systems while also examining EU and ICH guidelines stability testing and the application of chromatographic techniques in product standardization Additionally it addresses the preparation of documents for new drug applications export registration and regulatory requirements as well as providing guidelines on Pharmacovigilance and comparisons between various herbal pharmacopoeias A valuable reference work for professionals in the pharmaceutical industries as well as researchers and students interested in this topic *Medicinal Plants, Their Bioactivity, Screening and Evaluation* ,1998 Papers presented at the International Workshop on Medicinal Plants their Bio activity Screening and Evaluation *Quality Control of Herbal Drugs* Pulok K. Mukherjee,2002

ASEAN

Common Guideline on Research of Traditional Medicine Products (herbal Medicine). ,2016 *Quality Control and Standardization of Herbal Drugs* Prof Knv Rao,Santhosh Illendula,Sudhakar Kommu,2024-06-13 Quality Control and Standardization of Herbal Drugs Principles and Practices is an essential guide for ensuring the safety and efficacy of herbal medicines Covering fundamental tests WHO guidelines regulatory standards and advanced analytical techniques this book offers valuable insights through real world case studies and practical examples It provides a comprehensive resource for students researchers and industry professionals bridging traditional practices with modern scientific approaches

Plant,

Health, and Man ,2008 *Bulletin of the World Health Organization* World Health Organization,2001 *WHO Global Atlas of Traditional, Complementary, and Alternative Medicine* C. K. Ong,2005 Through global and regional maps and tables the map volume provides a visual representation of topics such as the popularity of herbal traditional medicine Ayurveda Siddha Unani traditional Chinese medicine homeopathy acupuncture chiropractic osteopathy bone setting spiritual therapies and others national legislation and traditional medicine policy public financing legal recognition of traditional medicine practitioners by their area of therapy education and professional regulation conventional health care practitioners who are entitled to provide various traditional complementary and alternative therapies and many other aspects

The Journal of

Alternative and Complementary Medicine ,2009 *Rajya Sabha Committees-- a Profile* , 2006 ,2007 *Essentials of Herbal Drug Technology* Shanti Bhushan Mishra,2019-01-30 Essentials of Herbal Drug Technology is a unique attempt to arouse the interest of students in this fast developing branch of pharmacy i e Pharmacognosy and related fields like herbal

medicine natural products and their standardization because increasing interest in the field of herbal medicine and ayurvedic dosage forms their standardization is utmost required The Book provides in depth information about various guidelines of different regulatory bodies that are required in quality control of herbal drugs This book has been written with the object that the new syllabus of the Bachelor in Pharmacy Master in Pharmacy and doctorate in herbal medicines and their pharmacological efficacy as per PCI course curriculum is covered in reasonable detail to provide sound scientific knowledge of quality control and standardization

Indian Science Abstracts ,2012-03 **Medicinal & Aromatic Plants Abstracts** ,2007 *Studies in History of Medicine and Science* ,2002 **Horticultural Abstracts** ,1981 **Quality Standards of**

Indian Medicinal Plants A. K. Gupta,Neeraj Tandon,Dr. Madhu Sharma,2003 *Indigenous Knowledge and Sustainable Practice* Darlina Md. Naim,Mardiana Idayu Ahmad,2017 Indigenous knowledge plays a key role in sustainable practices and has been the fundamental part in many areas including agriculture health care education fisheries food preparation and conservation This book consists of six articles which deal with indigenous knowledge and local wisdom related to natural resources This book mainly discusses the use of natural resources as a source of food and economy and how the local communities use the resources for their survival Another aspect presented in this book is the integration of science and natural resources as well as its usefulness in facilitating human s life Besides presents the interconnectedness and dynamic relationship between humans biodiversity and environment including plants and animals this book also highlights the implementation of an appropriate technology in utilizing the natural resources for sustainable use Indigenous Knowledge and Sustainable Practice is definitely a resource for students researchers and academicians especially from the field of science and those who are interested in knowing and learning the local knowledge in natural sciences and technology with the focus in the Malaysian context Page 4 of cover

Herbal Medicines Joanne Barnes,Linda A. Anderson,John David Phillipson,2007 Written by experts in the fields of pharmacognosy phytochemistry phytopharmacy clinical herbal medicines phytopharmacovigilance and regulation of herbal medicinal products Herbal Medicines is an invaluable reference text for pharmacists and other healthcare professionals who require evidence based information on herbal medicines used for treatment and prevention of health problems *Quality Control and Standardization Of Herbals* Dr. Dillip Kumar Jena,Dr. Pankaj Pradhan,2021-04-14 Purchase the e Book version of Quality Control and Standardization of Herbals for B Pharm 8th Semester meticulously aligned with the PCI Syllabus Published by Thakur Publication this digital edition offers a comprehensive exploration of advanced instrumentation techniques at your fingertips Upgrade your learning experience with the convenience and portability of an e Book Dive into the world of cutting edge pharmaceutical instrumentation with ease Get your copy today and embark on a journey of enhanced understanding

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