

Certificate Course Details

Programme title:

“WHO Guidelines for the Quality Control of Herbal Drugs”

Year of Introduction: 2018

Course Code: VACCG02

About the certificate course:

There is increasing awareness and general acceptability of the use of herbal drugs in today's medical practice. Although, most of these applications are unorthodox, it is however a known fact that over 80% of the world population depends on herbal medicines and product for healthy living. This rise in the use of herbal product has also given rise to various forms of abuse and adulteration of the products leading to consumers' and manufacturers' disappointment and in some instances fatal consequences. The challenge is innumerable and enormous, making the global herbal market unsafe. Standardization of drug means “confirmation of its identity and determination of its quality and purity and detection of nature of adulterant by various parameters like morphological, microscopical, physical, chemical and biological observations.

The objective of this course is to cover the various WHO proposed guidelines for Quality Control of herbal drugs and these techniques and guidelines are useful for prescribing a set of standards or inherent characteristics, constant parameters, definitive qualitative and quantitative values that carry an assurance of quality, efficacy, safety and reproducibility in usage of herbal products.

Contents of the Programme:

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| 1. Introduction to WHO guidelines for the quality control of herbal drugs | 11. Loss on drying |
| 2. Botanical evaluation | 12. Water soluble extractive |
| 3. Sensory evaluation | 13. Ethanol soluble extractive |
| 4. Microscopic evaluation | 14. Volatile oil content |
| 5. Foreign organic matter | 15. Thin layer chromatography |
| 6. Physicochemical evaluation | 16. Toxicological evaluation |
| 7. Ash value | 17. Microbial content |
| 8. Determination of total ash | 18. Heavy metal content |
| 9. Determination of water soluble ash | 19. Determination of pesticide residues |
| 10. Determination of acid insoluble ash | 20. Pharmacological evaluation |

Programme Outcome (P.O.):

Student(s) who will completed the prescribed hours of certificate course were able understand the

P.O. (1): WHO proposed guidelines for the Quality Control of Herbal Drugs.

P.O. (2): Applications of various evaluation techniques like Botanical Evaluation, Sensory Evaluation, Physical Evaluation, Chemical Evaluation, Pharmacological Evaluation and Toxicological Evaluation for Quality Control of Herbal Drugs.

P.O. (3): Modern analytical tools in testing the various quality parameters for an effective quality control herbal product.

PROGRAMME SCHEDULE

Day I	Date:4th March, 2018
Time: 10.00 AM	
10.00 AM – 10.15 AM	Registration
10.15 AM – 10.25 AM	Welcome Address
10.25 AM – 10.40 AM	Inauguration of Training Programme
10.40 AM – 10.50 AM	Introduction of the Participants
10.50 AM – 11.50 AM	Session – 1: Mrs. S. Sarala Macroscopic guidelines for QC of herbal drugs
11.50 AM – 12.00 PM	Tea Break
12.00 PM – 1.00 PM	Session – 2: Dr. M. Ramaiah Microscopic guidelines for QC of herbal drugs
1.00 PM – 2.00 PM	Lunch Break
2.00 PM – 4.30 PM	Session – 3: Mrs. S. Sarala Identification of drugs by macro and microscopic techniques
4.30 PM – 5.00 PM	Tea & Snacks
Day II	Date:10th March, 2018
10.00 AM – 12.00 PM	Session – 4: Mrs. S. Sarala Physical guidelines for QC of herbal drugs
12.00 PM – 12.10 PM	Tea Break
12.10 AM – 1.00 PM	Session – 5: Dr. M. Ramaiah Introduction to Calculation of Ash value & extractive values of herbal drugs
1.00 PM – 2.00 PM	Lunch Break
2.00 PM – 4.00 PM	Session – 6: Mrs. S. Sarala Calculation of Ash value & extractive values of some herbal drug samples-Hands on training
4.00 PM – 4.30 PM	Tea & Snacks
4.30 PM – 5.00 PM	Interactive Session

Day III	Date:11th March, 2018
10.00 AM – 12.00 PM	Session – 7: Dr. M. Ramaiah Chemical guidelines for QC of herbal drugs
12.00 PM – 12.10 PM	Tea Break
12.10 AM – 1.00 PM	Session – 8: Mrs. S. Sarala Chemical guidelines for QC of herbal drugs
1.00 PM – 2.00 PM	Lunch Break
2.00 PM – 4.00 PM	Session – 9: Mrs. S. Sarala Live demonstration of WHO guidelines of chemical analysis of drugs
4.00 PM – 4.30 PM	Tea Break
4.30 PM – 5.00 PM	Interactive Session
Day IV	Date:18th March, 2018
10.00 AM – 12.00 PM	Session – 10: Dr. M. Ramaiah Biological guidelines for QC of herbal drugs
12.00 PM – 12.10 PM	Tea Break
12.10 AM – 1.00 PM	Session – 11: Mrs. S. Sarala Pharmacological Screening methods for natural products
1.00 PM – 2.00 PM	Lunch Break
2.00 PM – 4.30 PM	Session – 12: Dr. M. Ramaiah; Mrs. S. Sarala Live demonstration of WHO guidelines of Pharmacological Screening methods for natural products
4.30 PM – 5.00 PM	Interactive Session & Tea Break
Day V	Date:25th March, 2018
10.00 AM – 12.00 PM	Session – 13: Dr. M. Ramaiah Toxicological guidelines for QC of herbal drugs
12.00 PM – 12.10 PM	Tea Break
12.10 AM – 1.00 PM	Session – 14: Mrs. S. Sarala WHO parameters for Toxicological screening of natural products & Interactive Session
1.00 PM – 2.00 PM	Lunch Break
2.00 PM – 2.30 PM	Feedback
2.30 PM – 3.30 PM	Evaluation of the participants through question paper
3.30 PM – 4.30 PM	Vote of thanks & Certificate Distribution
4.30 PM – 5.00 PM	Photo Session, Tea & Snacks

Person In-charge:

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