SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES



Coimbatore -641035

COURSE NAME: QCSH(BP 806 ET)

YEAR/SEM : VIII SEM

TOPIC 4 : WHO GUIDELINES FOR THE QUALITY

CONTROL OF HERBALS

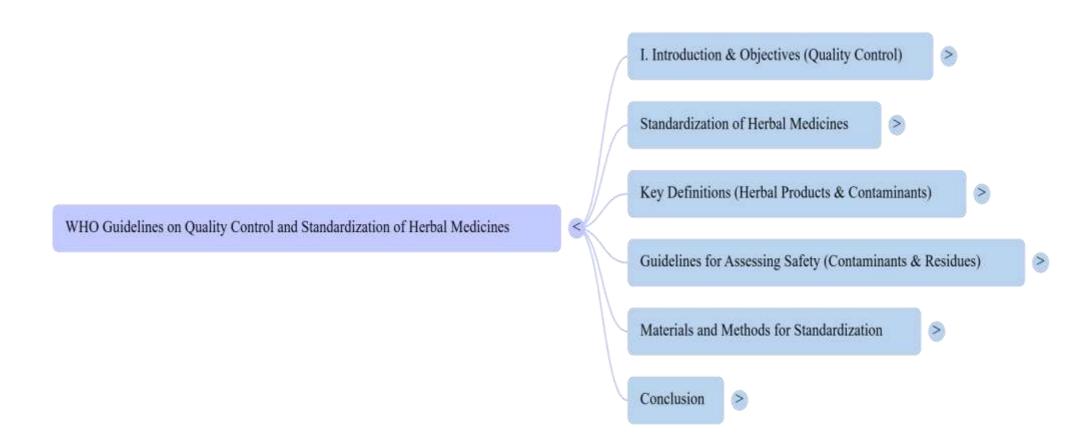


DESIGN THINKING IN WHO GUIDELINES FOR QUALITY CONTROL OF HERBALS

- > Empathize: Engage with herbal medicine users to understand challenges
- > **Define**: Clearly articulate the core problem as ensuring consistent, safe, and effective herbal quality
- ➤ **Ideate**: digital tools for real-time testing to implement WHO ash value, microbial limits, and pesticide residue checks.
- > **Prototype**: Develop low-cost, scalable prototypes like mobile apps for macroscopic examination
- > **Test**: Pilot the prototypes in real-world settings



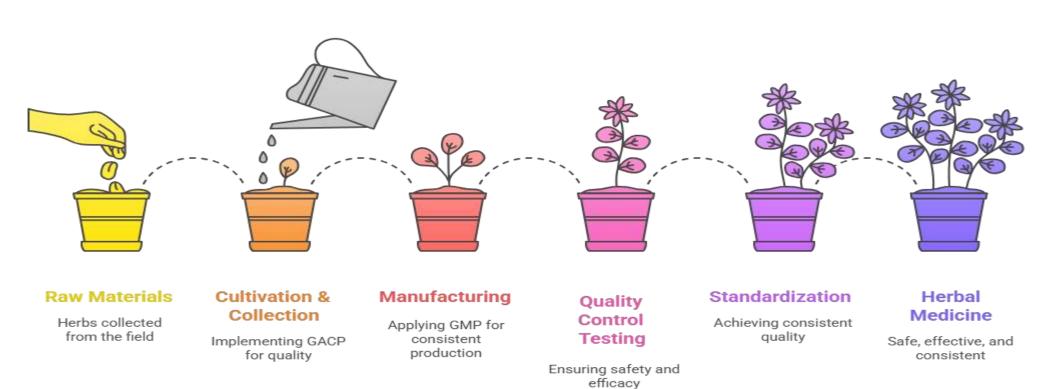
MIND MAP



INTRODUCTION



Quality Control of Herbal Drugs



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Quality control of herbal medicines aims to ensure their consistency, safety and efficacy.

Chemical fingerprinting has been demonstrated to be a powerful technique for the quality control of herbal medicines.

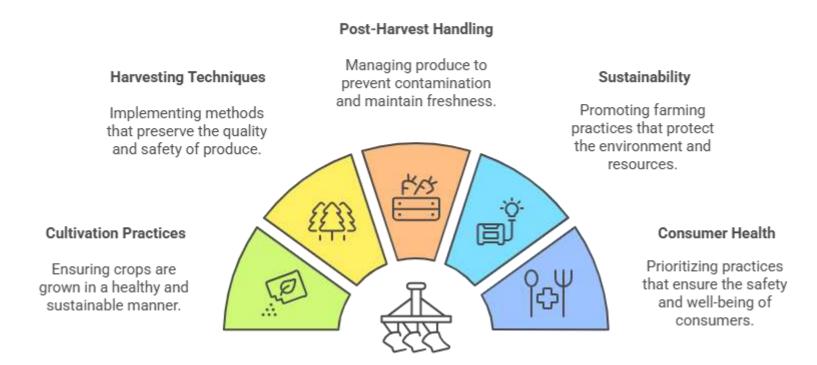


KEY PRINCIPLE



GOOD AGRICULTURAL AND COLLECTION PRACTICES (GACP)

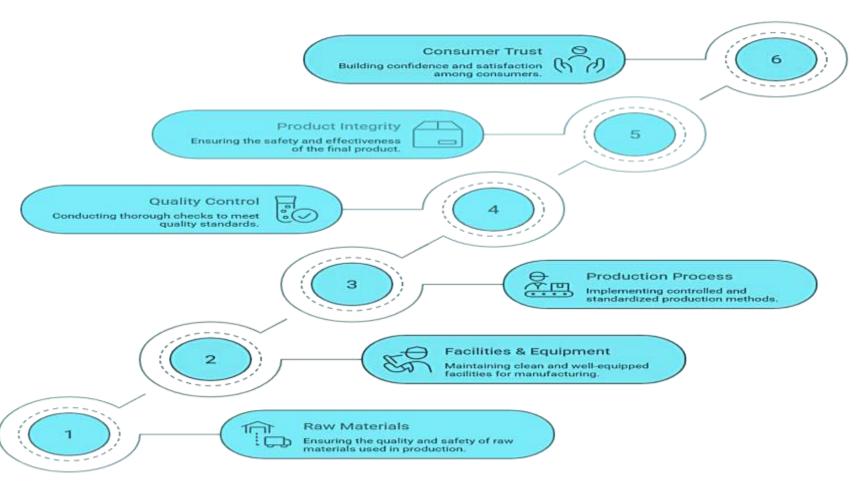
Foundations of Safe Agriculture



GOOD MANUFACTURING PRACTICES (GMP)



Achieving Product Quality through GMP

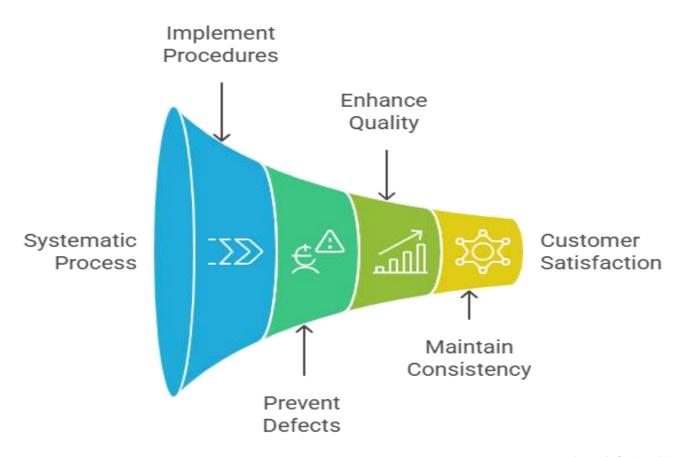


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QUALITY ASSURANCE



Quality Assurance Process



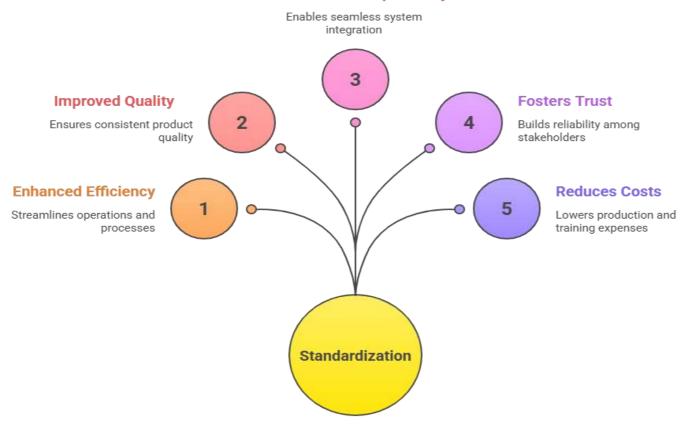
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STANDARDIZATION

Standardization Enhances Organizational Performance

Facilitated Interoperability

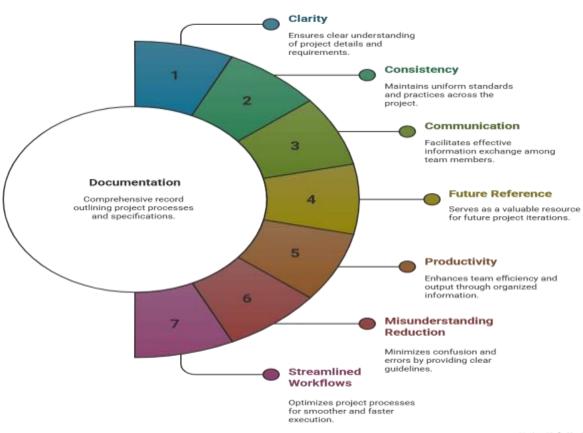


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DOCUMENTATION

Unveiling the Multifaceted Benefits of Documentation



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CLASS ASSESSMENTS



> Differentiate between total ash, acid-insoluble ash, and water-soluble ash.









SUMMARY

- The WHO guidelines for quality control of herbal drugs provide a comprehensive framework for ensuring the safety, efficacy, and quality of herbal medicines.
- > By implementing these guidelines, national regulatory authorities and manufacturers can contribute to the responsible use of herbal drugs and protect public health.
- Adherence to GACP, GMP, and rigorous quality control testing, coupled with comprehensive documentation, is essential for maintaining the integrity and consistency of herbal products.



REFERENCE

- 1. Pharmacognosy by Trease and Evans
- 2. Pharmacognosy by Kokate, Purohit and Gokhale
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- 7. Shinde M.V., Dhalwal K., Potdar K., Mahadik K. Application of quality control principles to herbal drugs. International Journal of Phytomedicine 1(2009); p. 4-8.

