

Herbal Medicine in Modern Healthcare: Bridging Ancient Remedies

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Key points:

- Introduction
- Efficacy of herbal medicine
- Clinical Efficiency and Accessibility
- Common Uses and Therapeutic Applications of herbal medicine
- Conclusion

Herbal medicine, also known as phytotherapy, refers to the use of plant-based substances for therapeutic and healing purposes. This practice dates back to ancient civilizations, where various cultures, including those practicing Ayurveda, Traditional Chinese Medicine (TCM), and Native American healing systems, relied heavily on the medicinal properties of plants.



Figure 1: Herbal Medicines ⁷

Today, herbal medicine remains an essential component of global primary healthcare. It is estimated that 80% of the world's population utilizes herbal products for their therapeutic benefits. The COVID-19 pandemic further amplified interest in these natural remedies, as

growing concerns over the side effects of conventional pharmaceuticals led many individuals to seek alternative treatment options. In addition, rising rates of chronic illnesses and a steadily increasing global population have significantly contributed to the expansion of the herbal medicine market, which continues to grow at a rapid pace. ¹

Efficacy of Herbal Medicine

For centuries, herbal medicine has played a fundamental role in human health and cultural traditions, with knowledge passed down through generations. While its long-standing use highlights its therapeutic potential, modern science increasingly demands evidence-based validation. The efficacy of herbal remedies is now being critically examined through rigorous clinical research to ensure their reliability and safety. Bridging the gap between traditional wisdom and contemporary healthcare practices is essential to fully integrate herbal medicine into modern medical frameworks. ¹

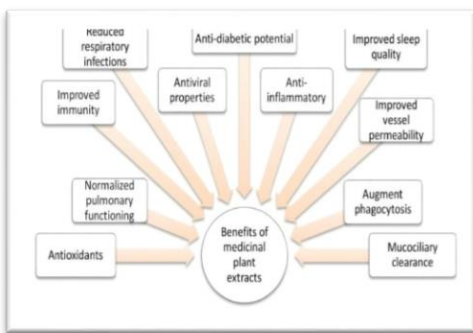
Clinical Efficiency and Accessibility

Herbal medicine offers several practical advantages that contribute to its widespread use, particularly in resource-limited settings. With over 400,000 identified

plant species, many have demonstrated therapeutic potential, leading to the development of numerous plant-based treatments for both acute and chronic conditions. In recent years, natural remedies — including those rooted in Ayurveda — have gained recognition from regulatory bodies such as the Food and Drug Administration (FDA) for their bioactive compounds and clinical promise.

Herbal formulations are often more accessible, cost-effective, and associated with fewer side effects compared to conventional pharmaceuticals. This makes them especially valuable in rural and underserved communities, where access to professional healthcare may be limited. However, despite their many benefits, unsupervised or unregulated use of herbal remedies can pose health risks, emphasizing the need for qualified guidance and proper standardization. ²

Common Uses and Therapeutic Applications:



Figure

Figure 2: Uses of Herbal Medicines ⁶

Herbal medicine is widely used for its accessibility, affordability, and broad therapeutic potential. It supports both acute and chronic conditions, particularly in settings where conventional care may be limited ^{1,2}. Common uses include:

- **Anti-inflammatory support**

Turmeric (*Curcuma longa*), rich in curcumin, is used for joint pain, menstrual cramps, and digestive issues¹.

- **Cognitive enhancement**

Ginkgo biloba has shown modest benefits in memory and daily function in patients with mild cognitive decline ³.

- **Stress and anxiety relief**

Ashwagandha (*Withania somnifera*) and Chamomile are used for reducing stress and promoting relaxation. Recent trials confirm Ashwagandha's effectiveness in lowering cortisol and anxiety symptoms.^{4,5}

- **Antimicrobial action**

Herbs like neem, Tulsi, and clove are traditionally used for infections, oral hygiene, and wound care due to their antimicrobial properties^{1,3}. While herbal remedies are well-tolerated, proper dosing and quality control are essential for safe use. ^{1,2}

Conclusion

In conclusion, herbal medicine underscores the importance of integrating traditional knowledge with modern scientific validation. As research continues to explore the bioactive potential of medicinal plants, herbal therapies are increasingly aligning with the evolving preferences of individuals seeking safe, holistic, and natural approaches to health and well-being.¹

References

1. Balkrishna A, Sharma N, Srivastava D, Kukreti A, Srivastava S, Arya V. Exploring the safety, efficacy, and bioactivity of herbal medicines: Bridging traditional wisdom and modern science in healthcare. *Future Integrative Medicine*. 2024 Mar 25;3(1):35-49.
2. Singh MP, Gohil KJ. Therapeutic efficacy and cost effectiveness of herbal drugs—A reasonable approach. *Pharmacological Research-Natural Products*. 2024 Mar 1; 2:100009.
3. National Center for Complementary and Integrative Health (NCCIH). Dietary Supplements and Cognitive Function, Dementia, and Alzheimer's Disease: What the Science Says. *NCCIH Clinical Digest*. 2022 Jul.

4. Akhgarjand C, Asoudeh F, Bagheri A, Djafarian K. Does Ashwagandha supplementation have a beneficial effect on the management of anxiety and stress? A systematic review and meta-analysis of randomized controlled trials. *Explore (NY)*. 2024 Nov–Dec;20(6):103062.
5. Gopukumar K, Thanawala S, Somepalli V, et al. Efficacy and safety of Ashwagandha root extract on cognitive functions in healthy, stressed adults: A randomized, double-blind, placebo-controlled study. *Evid Based Complement Alternat Med*. 2021;2021:8254344.
6. <https://images.app.goo.gl/tiTak2npMRJGUaGB6>
7. https://www.news-medical.net/image-handler/ts/20210823101848/ri/673/picture/2021/8/shutterstock_656977798.jpg