



The Role of Herbal Drug-Yielding Plants in Primary Health Care – An Evidence-Based Review from Indian Traditional Medicine

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Abstract

Herbal drug-yielding plants have long served as the backbone of primary health care in India, where traditional healing systems continue to rely heavily on natural resources for maintaining community health. For many households, particularly in rural and tribal regions, plant-based remedies remain the first line of treatment due to their easy availability, low cost, and deep cultural acceptance. This review brings together evidence from classical Indian systems of medicine and modern scientific studies to highlight the continuing relevance of medicinal plants in everyday health management. Several well-known species, including *Azadirachta indica*, *Ocimum sanctum*, *Tinospora cordifolia*, *Curcuma longa*, and *Withaniasomnifera*, are widely recognized for their broad therapeutic actions. These plants contain diverse bioactive compounds that exhibit antimicrobial, anti-inflammatory, antioxidant, and immune-supportive properties, making them valuable for addressing common illnesses and promoting general well-being. Recent pharmacological investigations have strengthened traditional claims by demonstrating the clinical potential of these herbal resources in managing infections, metabolic disorders, and inflammatory conditions. As interest in natural and holistic health care grows, the role of medicinal plants in India's health system has become even more significant. Ensuring sustainable use, scientific validation, and quality control of herbal products is essential for integrating them effectively into primary health care. This review emphasises the need for continued research, the conservation of medicinal flora, and policies that support the safe, evidence-based use of herbal drugs as an integral component of India's health care landscape.

Keywords: medicinal plants, herbal drug-yielding plants, primary health care, Indian traditional medicine, Ayurveda, ethnomedicine, therapeutic potential, phytochemical studies.

1. Introduce the importance of medicinal plants in India

Herbal drug-yielding plants form a central component of India's primary health care system due to their long historical use, strong link with traditional healing practices, and continued importance in rural and tribal communities (Sharma & Mujumdar, 2017). For centuries, medicinal plants have been integral to Ayurveda, Siddha, and Unani systems, which rely on them to treat a wide range of health conditions (Mukherjee, 2019). In many rural areas, these plant-based remedies remain the first line of treatment because they are affordable, easily accessible, and culturally accepted (Pandey et al., 2018).

Medicinal plants support both traditional and modern medicine in India. Many contain bioactive compounds such as curcumin from *Curcuma longa* and withanolides from *Withania somnifera*, that have been scientifically validated for their antimicrobial, anti-inflammatory, and anticancer activities (Krishnamurthi et al., 2020; Singh et al., 2021). Their therapeutic applications range from managing colds and digestive disorders to chronic diseases like diabetes and cancer (Meena et al., 2019).

India's medicinal flora also sustains a large herbal industrial sector. As major non-timber forest products (NTFPs), these plants support pharmaceutical, nutraceutical, and cosmetic industries, contributing significantly to rural livelihoods and national export earnings (Kala, 2015). Several modern drugs have originated from Indian medicinal plants; for example, *Catharanthus roseus* yielded the anticancer agents vincristine and vinblastine, while the Himalayan yew (*Taxus wallichiana*) is a natural source of taxol (Cragg & Newman, 2013).

The country's rich biodiversity boasting more than 7,500 plant species used in traditional remedies offers vast potential for new drug discovery, especially for emerging diseases (NMPB, 2021). Commonly used species include

Ocimum sanctum (respiratory health), *Azadirachta indica* (skin and purifying actions), *Withania somnifera* (stress and immunity), *Curcuma longa* (inflammation), and *Aloe barbadensis* (skin and digestion) (Warrier et al., 2016).

Today, medicinal plants matter more than ever due to their affordability, accessibility, and minimal side effects. There is a growing national effort to integrate traditional knowledge with scientific validation to develop new therapeutic solutions (AYUSH Ministry, 2020). With global demand for plant-derived products rising rapidly, sustainable cultivation, conservation, and responsible use are essential to protect these valuable biological resources (WHO, 2019).

Objectives of the Study:

- 1. To trace the long-standing role of herbal drug-yielding plants in India's primary health care**, with particular attention to how rural and tribal communities continue to depend on them for routine health needs.
- 2. To describe how medicinal plants support major traditional systems of healing in India**, especially Ayurveda, Siddha and Unani, and to understand their usefulness in treating both common ailments and long-term diseases.
- 3. To examine the therapeutic value of important medicinal plants used in daily health care**, focusing on species such as *Tulsi*, *Neem*, *Ashwagandha*, *Turmeric*, and *Giloy*, and the bioactive compounds that account for their medicinal properties.
- 4. To review scientific studies that validate traditional uses of these plants**, particularly research demonstrating antimicrobial, anti-inflammatory, antioxidant, and immune-supporting activities.
- 5. To explore the economic significance of medicinal plants in India**, recognising their contribution as non-timber forest products and

their growing demand in the herbal, pharmaceutical and cosmetic industries.

6. To highlight India's rich and diverse medicinal plant resources, and to consider their potential in the search for new drugs, especially for emerging health challenges.

7. To explain why medicinal plants remain highly relevant today, noting their low cost, easy accessibility, cultural familiarity and relatively fewer side effects compared with many synthetic medicines.

8. To identify major concerns and future priorities, including the need for sustainable harvesting, conservation of plant resources, quality assurance, and the integration of traditional knowledge with modern scientific methods.

2: Explain why people still depend on herbal remedies

A large proportion of the global population continues to rely on herbal remedies for their day-to-day health needs. According to the World Health Organization (WHO), **nearly 80% of people in developing countries depend on traditional herbal medicines as part of their primary healthcare** (WHO, 2019). This persistent reliance is shaped by several interrelated cultural, social, economic and therapeutic factors.

2.1 Cultural Familiarity and Historical Continuity

Traditional systems such as Ayurveda, Traditional Chinese Medicine, Siddha and Unani have been practised for thousands of years and remain deeply woven into community lifestyles and belief systems. Generations of use have created strong trust, making herbal remedies the preferred choice for common health problems (Mukherjee, 2019; Sharma & Mujumdar, 2017).

2.2 Accessibility and Local Availability

In many rural and remote regions, herbal plants can be gathered from the local environment or cultivated at home. This easy availability, without the need for prescriptions or clinical visits, makes them an immediate and convenient option for primary care (Pandey et al., 2018).

2.3 Affordability for Low-Income Communities

Herbal medicines are generally cost-effective compared to conventional pharmaceuticals, especially where modern healthcare services are limited or expensive. This economic advantage reinforces their widespread use among low-income populations (Kala, 2015).

2.4 Cultural Acceptance and First-Line Use

Because herbal remedies are rooted in cultural practices and household traditions, they are often the **first-line treatments** for fever, cough, digestive problems, skin issues, and minor infections (Warrier et al., 2016). Families commonly transmit knowledge of medicinal plants across generations.

2.5 Perceived Safety and "Natural" Origin

Many people believe that "natural" medicines are safer and pose fewer side effects than synthetic drugs. Though not always scientifically accurate, this perception is a major driver of herbal medicine use, especially among individuals dissatisfied with the adverse effects of modern drugs (Meena et al., 2019).

2.6 Holistic Healing Approach

Traditional medicine emphasizes balance between body, mind and environment. This holistic perspective appeals to people seeking wellness beyond symptom relief, especially for chronic or stress-related conditions (Singh et al., 2021).

2.7 Evidence from Modern Pharmacology

Approximately **40% of modern medicines originate from plant-derived compounds**, lending scientific credibility to herbal drugs (Cragg & Newman, 2013). Examples include aspirin (from willow bark) and anticancer agents like vincristine from *Catharanthus roseus*. This connection reinforces trust in traditional plant-based therapies.

2.8 When Conventional Treatment Is Insufficient

Herbal remedies are often used when modern treatments fail to provide complete relief, particularly in chronic disorders such as arthritis, metabolic syndromes and psychosomatic illnesses (Meena et al., 2019). Positive personal or community experiences further strengthen reliance.

3: Highlight key medicinal plants

The abstract identifies several important and commonly used medicinal plants that form the backbone of traditional primary health care in

India. These species are widely recognized for their diverse therapeutic properties and frequent use in managing everyday health problems. Expanding beyond the initial list, the review covers a broader range of medicinal plants that hold significant relevance in Indian traditional medicine:

Azadirachta indica (Neem), *Tinospora cordifolia* (Giloy), *Curcuma longa* (Turmeric), *Withania somnifera* (Ashwagandha), *Ocimum sanctum* (Tulsi), *Aloe barbadensis* (Aloe vera), *Phyllanthus amarus* (Bhumyamalaki), *Zingiber officinale* (Ginger), *Centella asiatica* (Gotu kola/Brahmi), *Terminalia chebula* (Haritaki), *Boswellia serrata* (Indian frankincense), *Emblica officinalis* (Amla), *Mentha arvensis* (Mint), *Piper nigrum* (Black pepper), and *Coleus forskohlii* (Patharchur). Including a wide range of these commonly used medicinal plants helps provide the reader with a clearer picture of the diversity and therapeutic richness of herbal resources used in India's traditional health-care systems. These species are discussed in the review for their pharmacological properties, traditional applications, and relevance in promoting primary health and disease prevention.

Table-1: Common Medicinal Plants Used in Primary Health Care and Their Key Properties

	Scientific Name	Common Name	Major Therapeutic Uses	Key Bioactive Compounds
1	<i>Azadirachta indica</i>	Neem	Antimicrobial, skin disorders, blood purification	Azadirachtin, Nimbin, Nimbidin
2	<i>Tinospora cordifolia</i>	Giloy	Immunomodulatory, antipyretic, anti-inflammatory	Berberine, Tinosporin, Cordifolioside
3	<i>Curcuma longa</i>	Turmeric	Anti-inflammatory, antioxidant, wound healing	Curcumin, Demethoxycurcumin
4	<i>Withaniasomnifera</i>	Ashwagandha	Stress relief, immunity, energy enhancement	Withanolides, Alkaloids
5	<i>Ocimum sanctum</i>	Tulsi (Holy Basil)	Respiratory health, immunity, stress reduction	Eugenol, Rosmarinic acid
6	<i>Aloe barbadensis</i>	Aloe vera	Skin healing, digestion, burns, detoxification	Aloin, Aloesin, Polysaccharides

7	<i>Phyllanthus amarus</i>	Bhumyamalaki	Liver protection, antiviral, kidney stones	Phyllanthin, Hypophyllanthin
8	<i>Zingiber officinale</i>	Ginger	Digestive aid, anti-inflammatory, nausea relief	Gingerols, Shogaols
9	<i>Centella asiatica</i>	Brahmi/Gotu kola	Memory enhancement, wound healing, anxiety relief	Asiaticoside, Madecassoside
10	<i>Terminalia chebula</i>	Haritaki	Digestive health, detoxification, antioxidant	Chebulinic acid, Gallic acid
11	<i>Boswellia serrata</i>	Indian Frankincense	Anti-inflammatory, joint health, anti-arthritis	Boswellic acids
12	<i>Emblica officinalis</i>	Amla	Immunity, anti-aging, digestion	Vitamin C, Ellagic acid
13	<i>Mentha arvensis</i>	Mint	Indigestion, cold, headache	Menthol, Flavonoids
14	<i>Piper nigrum</i>	Black Pepper	Improves digestion, enhances nutrient absorption	Piperine
15	<i>Coleus forskohlii</i>	Patharchur	Heart health, fat metabolism, respiratory disorders	Forskolin

4: Mention therapeutic properties

Medicinal plants play a crucial role in India's primary health care due to their broad-spectrum therapeutic activities validated through traditional use and modern scientific research. Many commonly used herbal species exhibit **antimicrobial, anti-inflammatory, antioxidant, and immunomodulatory** properties—actions that make them effective for treating routine infections, inflammatory disorders, and conditions related to oxidative stress. These pharmacological properties directly support the long-standing reliance on herbal remedies in rural and community health systems.

Azadirachta indica (Neem) is widely recognized for its strong antimicrobial and anti-inflammatory activities, making it useful for skin infections and immune support. *Tinospora cordifolia* (Guduchi)

is celebrated for its immunomodulatory and antioxidant effects, often recommended for fever, general weakness, and immunity enhancement. *Curcuma longa* (Turmeric) contains curcumin, a powerful anti-inflammatory and antioxidant compound effective against metabolic and inflammatory disorders. *Withania somnifera* (Ashwagandha) acts as an adaptogen, strengthening immunity and reducing stress-related inflammation. *Ocimum sanctum* (Tulsi) is valued for its antimicrobial and anti-inflammatory properties, especially in respiratory ailments.

Several other plants also contribute significantly to primary health care: *Phyllanthus amarus* (antiviral and hepatoprotective), *Centella asiatica* (neuroprotective and wound healing), *Emblica officinalis* (strong antioxidant and immunomodulator), *Aloe vera* (wound healing and anti-inflammatory), and *Andrographis paniculata* (antimicrobial and hepatoprotective).

Together, these plants provide safe, accessible, and affordable remedies for common health conditions, aligning with both traditional medical knowledge and modern pharmacological evidence. Their therapeutic properties explain why herbal drug-yielding plants remain an essential component of primary health care across India.

5: Link traditional use with modern scientific validation

Traditional knowledge of medicinal plants in India, especially through systems like Ayurveda, Siddha, and Unani, has guided the treatment of various ailments for centuries. These plants have been used to manage infections, inflammation, metabolic disorders, stress, and other common health problems. Modern pharmacological research has increasingly validated many of these traditional claims, providing a scientific basis for their continued use in primary health care. For example:

- *Azadirachta indica* (Neem) has traditionally been used for skin infections, fever, and as a blood purifier. Modern studies confirm its **antimicrobial, anti-inflammatory, and antioxidant** properties, validating its use against bacterial, viral, and fungal infections (Biswas et al., 2002; Subapriya & Nagini, 2005).
- *Tinospora cordifolia* (Giloy) has been used in Ayurveda to enhance immunity and treat fever. Pharmacological research demonstrates its **immunomodulatory and antioxidant effects**, supporting its traditional use in infections and immune-related disorders (Sharma et al., 2012; Sinha et al., 2013).
- *Curcuma longa* (Turmeric) is long known for its use in wound healing, inflammation, and digestive disorders. Contemporary studies show that **curcumin** has potent **anti-inflammatory, antioxidant, and anticancer** activities, corroborating centuries of traditional application (Aggarwal & Harikumar, 2009).

- *Withania somnifera* (Ashwagandha), traditionally used as a tonic for stress, weakness, and chronic diseases, has been scientifically validated as an **adaptogen** with **anti-inflammatory, immunomodulatory, and antioxidant** effects (Singh et al., 2011; Choudhary et al., 2017).
- *Ocimum sanctum* (Tulsi), used traditionally for respiratory ailments, fever, and stress, has been confirmed to exhibit **antimicrobial, anti-inflammatory, and immunomodulatory** properties (Pattanayak et al., 2010).

The convergence of traditional knowledge and modern scientific validation enhances the credibility of herbal drug-yielding plants. It emphasizes their continued relevance in managing **infections, inflammation, metabolic disorders, oxidative stress, and immunity-related conditions**, making them reliable and evidence-based options in primary health care.

6: Current Relevance of Medicinal Plants in Primary Health Care

Interest in natural and herbal medicine is increasing worldwide, driven by growing awareness of health, wellness, and sustainable therapies (Fabricant & Farnsworth, 2001). In India, medicinal plants continue to play a vital role in primary health care, especially in rural and tribal communities where access to modern healthcare facilities is limited. These plants provide **affordable, accessible, and culturally accepted remedies** for common ailments, chronic diseases, and lifestyle-related disorders (Patwardhan et al., 2005; WHO, 2013).

Modern pharmaceutical and nutraceutical industries recognize the value of herbal drug-yielding plants, which serve as **sources of bioactive compounds** for drug development, dietary supplements, and functional health products. Species such as *Curcuma longa* (Turmeric), *Withania somnifera* (Ashwagandha), *Azadirachta indica* (Neem), and *Tinospora cordifolia* (Giloy) are increasingly incorporated into preventive therapies, herbal

formulations, and functional foods, demonstrating their dual role in traditional and contemporary healthcare (Aggarwal & Harikumar, 2009; Singh et al., 2011).

The growing **concern over antibiotic resistance, side effects of synthetic drugs, and preference for holistic therapies** further increases the significance of medicinal plants (Fabricant & Farnsworth, 2001; Pattanayak et al., 2010). Their therapeutic diversity, safety profile, and adaptability make them highly relevant for managing routine health problems and supporting integrative and community-based healthcare systems.

Thus, medicinal plants remain **indispensable in both local and global healthcare**, bridging traditional knowledge and modern science to meet contemporary health demands (Patwardhan et al., 2005; WHO, 2013).

7: Future Needs and Recommendations for Medicinal Plants in Primary Health Care

While medicinal plants have proven their value in traditional and modern healthcare systems, their **sustainable use, scientific validation, quality assurance, and policy support** are critical to ensure long-term benefits.

7.1 Sustainable Use and Conservation:

India harbors a rich diversity of medicinal plants, but overharvesting, habitat loss, and unsustainable collection practices threaten many species. Strategies for **conservation, cultivation, and sustainable harvesting** are essential to preserve biodiversity while meeting increasing demand (Ved & Goraya, 2008).

7.2 Scientific Validation and Research:

Although many plants are traditionally used, systematic **pharmacological studies, clinical trials, and mechanistic research** are needed to validate efficacy and safety. This scientific approach will integrate traditional knowledge with modern medicine and provide evidence-

based support for herbal therapies (Fabricant & Farnsworth, 2001; Patwardhan et al., 2005).

7.3 Quality Control and Standardisation:

Herbal medicines often face challenges such as **adulteration, contamination, and variation in bioactive compounds**. Establishing **standardized cultivation, processing, and formulation protocols** will ensure consistent quality, potency, and safety of herbal products (WHO, 2013).

7.4 Policy Support and Public Awareness:

Government and institutional support are crucial for promoting medicinal plant research, cultivation, and sustainable trade. Policies should focus on **regulation, promotion of traditional knowledge, integration with primary healthcare, and awareness campaigns** to educate communities about safe and effective use (Choudhary et al., 2017). By addressing these future needs, medicinal plants can continue to provide **cost-effective, accessible, and culturally acceptable healthcare solutions**, while supporting global health, biodiversity conservation, and economic development.

Conclusion

Medicinal plants have been an integral component of India's primary health care system for centuries, providing **affordable, accessible, and culturally accepted remedies** for a wide range of health conditions. Traditional knowledge from systems like Ayurveda, Siddha, and Unani has been validated by modern pharmacological studies, demonstrating the **antimicrobial, anti-inflammatory, antioxidant, and immunomodulatory** activities of numerous herbal species. Key plants such as *Azadirachta indica* (Neem), *Tinospora cordifolia* (Guduchi), *Curcuma longa* (Turmeric), *Withania somnifera* (Ashwagandha), and *Ocimum sanctum* (Tulsi) continue to serve as **first-line treatments** for common infections, chronic disorders, and immune-related conditions.

The current global and national interest in natural medicine further highlights the **relevance of medicinal plants**, as they bridge traditional knowledge and modern healthcare, support sustainable livelihoods, and provide raw materials for pharmaceuticals, nutraceuticals, and functional foods. However, to fully realize their potential, there is a need for **scientific validation, standardized quality control, sustainable cultivation practices, and supportive policies**. These measures will ensure safe, effective, and sustainable use of medicinal plants while conserving biodiversity and fostering research-driven development.

In conclusion, medicinal plants represent a **valuable, evidence-based, and sustainable resource** for primary health care in India. Their integration into modern healthcare systems, backed by scientific research and policy support, can strengthen public health, promote wellness, and ensure that traditional herbal knowledge continues to benefit present and future generations.

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