

Scientific Foundations and Theoretical Frameworks of Homoeopathy: A Critical Review

Sundaresan. J^{1&2*}, Alex Pandi M¹, Thirugnasambantham R³, Umesh Mohan C.S⁴, Ginu D Mohan⁵,
Edwin Anto Raj James⁶

¹Department of Human Anatomy, Dr. Hahnemann Homoeopathy Medical College & Research Centre, Koneripatti, Rasipuram, Tamilnadu, India – 637408

²Sri Sakthi Homeo Clinic, New Green Park Avenue, Near New Bus Stand, Salem, Tamilnadu, India – 636016

³Department of Organon of Medicine, Dr. Hahnemann Homoeopathy Medical College & Research Centre, Koneripatti, Rasipuram, Tamilnadu, India – 637408

⁴Department of Practice of Medicine, Yenapoya Homoeopathic Medical College, Deralakatte, Mangaluru, India

⁵Department of Repertory, Maria Homoeopathic Medical College, Thiruvattar, Kanniyakumari District, Tamilnadu, India

⁶Department of Materia Medica, Dr. Hahnemann Homoeopathy Medical College & Research Centre, Koneripatti, Rasipuram, Tamilnadu, India – 637408

Corresponding Author:

Sundaresan. J,

¹Department of Human Anatomy, Dr. Hahnemann Homoeopathy Medical College & Research Centre, Koneripatti, Rasipuram, Tamilnadu, India – 637408

²Sri Sakthi Homeo Clinic, New Green Park Avenue, Near New Bus Stand, Salem, Tamilnadu, India – 636016

Email ID: sakthisundar.87@gmail.com

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ABSTRACT

Background: Homoeopathy, developed by Samuel Hahnemann in 1796, is an alternative medical system grounded in the principle of “similia similibus curentur”, use of potentized remedies, and a holistic view of health. Despite widespread use, especially in countries like India and parts of Europe, its scientific validity remains contested due to its divergence from established biomedical paradigms.

Objective: This review critically examines the theoretical foundations, scientific evidence, and philosophical paradigms underpinning Homoeopathy, with an aim to evaluate its credibility and explore recent advancements in its scientific validation.

Methods: The paper analyzes key homoeopathic principles such as the law of similars, potentization, vital force, and miasm theory. It reviews findings from randomized controlled trials (RCTs), meta-analyses, observational studies, and mechanistic research including nanoparticle analysis and systems biology. It also discusses epistemological considerations and recent technological integrations like AI and network pharmacology.

Results: Findings suggest that while some clinical studies report therapeutic benefits of Homoeopathy, high-quality trials often equate its efficacy to placebo. Mechanistic explanations, such as “water memory” and nanoparticle presence, remain scientifically controversial. Challenges include lack of reproducibility, methodological variability, and difficulties in applying standardized RCT frameworks to individualized homoeopathic treatments. However, pragmatic trials and integrative models show promise in capturing real-world effects.

Conclusion: Homoeopathy occupies a unique position in integrative medicine. Though it lacks universal scientific acceptance, emerging research and evolving methodologies may bridge gaps in understanding its effects. Ethical concerns persist regarding its use in serious conditions without conventional support. A balanced approach acknowledging both scientific rigor and holistic care perspectives is vital for its future integration.

Key Words: *Homoeopathy, Similia Principle, Potentization, Vital Force, Nanoparticles, Randomized Controlled Trials, Integrative Medicine, Alternative Therapies*

1. INTRODUCTION

Homoeopathy, a system of alternative medicine established by the German physician Samuel Hahnemann in 1796, has continued to attract both practitioners and patients worldwide for over two centuries. It is predicated on a distinct philosophical and therapeutic approach that emphasizes the principles of "similia similibus curentur" (like cures like), the use of potentized remedies, and an individualized, holistic understanding of health and disease. According to Hahnemann, diseases are manifestations of a disturbance in the vital force, and healing is achieved by stimulating the body's self-regulating mechanisms through substances that produce similar symptoms in healthy individuals (Hahnemann, 1810).

Homoeopathy enjoys substantial popularity in regions such as India, where it is institutionalized through the Ministry of AYUSH and practiced by over 200,000 registered practitioners (AYUSH, 2020). Similarly, it remains integrated into the healthcare systems of several European countries including Switzerland, Germany, and France, where a significant proportion of the population reports using homoeopathic remedies (Relton et al., 2017).

Despite its widespread use, Homoeopathy remains one of the most polarizing domains in medicine. Its foundational concepts and claimed mechanisms of action often conflict with established principles of chemistry, biology, and pharmacology. This divergence has sparked intense debate between proponents advocating its holistic benefits and skeptics citing a lack of empirical evidence and biological plausibility (Ernst, 2002).

This review aims to examine the theoretical principles and philosophical underpinnings of Homoeopathy, evaluate the current scientific literature regarding its clinical efficacy and mechanistic plausibility and present a balanced critique that integrates historical, cultural, and biomedical perspectives.

THEORETICAL FRAMEWORKS IN HOMOEOPATHY

Homoeopathy is rooted in a set of foundational concepts that set it apart from conventional biomedicine. These theoretical frameworks are not merely therapeutic protocols but represent a distinct worldview about the origin of disease and the principles of healing.

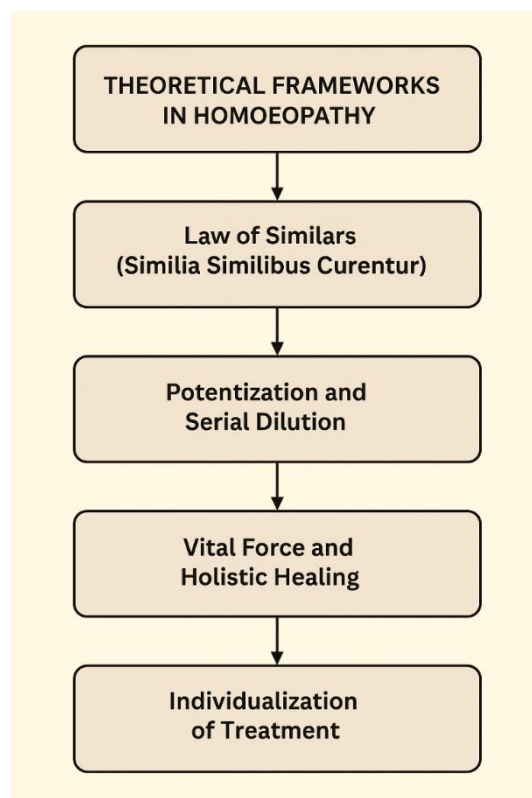


Figure 1: Theoretical Frameworks

Law of Similars (Similia Similibus Curentur)

The cornerstone of Homoeopathy, the law of similars, suggests that a substance capable of inducing symptoms in a healthy person can be used to treat similar symptoms in a diseased individual. This principle is demonstrated through "provings," where healthy volunteers take a substance and document resultant symptoms, forming the basis for its therapeutic use. This idea echoes earlier concepts found in Hippocratic writings and was systematized by Hahnemann in his *Organon of Medicine* (Hahnemann, 1810).

Potentization and Serial Dilution

Homoeopathic remedies are prepared through a process of serial dilution and succussion (vigorous shaking). Each dilution step, especially when done in centesimal (C) or decimal (X) scales, is believed to enhance the remedy's energetic imprint while eliminating its material toxicity. For instance, a 30C dilution corresponds to a 10^{-60} concentration, effectively surpassing Avogadro's limit. Homeopaths argue that despite the lack of measurable molecules, the remedy retains a 'memory' or energetic signature capable of triggering a therapeutic response (Bell *et al.*, 2013).

Vital Force and Holistic Healing

Central to Homoeopathy is the concept of the vital force — an immaterial energy that maintains physiological harmony. Disease arises when this force is disturbed, and homoeopathic treatment aims to restore balance. Unlike allopathic medicine, which often targets symptoms or pathogens, Homoeopathy focuses on stimulating the body's innate healing capacity. This perspective aligns with holistic philosophies that regard health as a dynamic equilibrium between mind, body, and environment (Vithoulkas, 2009).

Individualization of Treatment

One of the defining features of Homoeopathy is its emphasis on individualized treatment. Remedies are selected not solely based on a diagnosed disease but by considering the patient's complete symptom profile — physical, emotional, and psychological. As a result, two patients with the same clinical diagnosis might receive different remedies depending on their unique presentations. This individualization is seen as a strength, allowing for deeply personalized care (Mathie & Clausen, 2014).

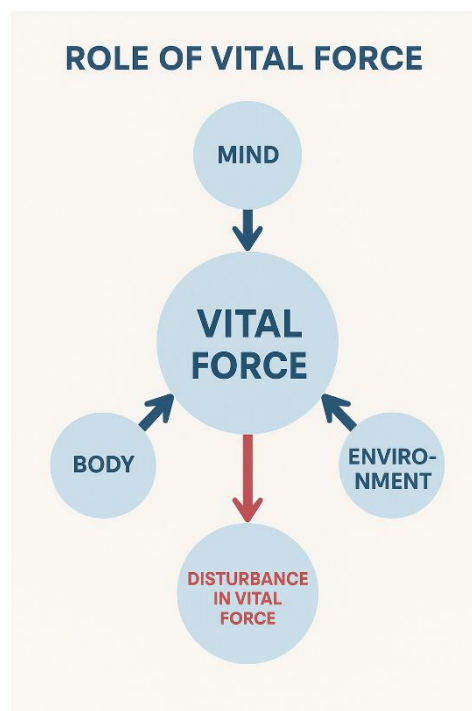


Figure 2: Role of Vital Force

Miasm Theory

Hahnemann introduced the concept of miasms as chronic disease predispositions, which he believed underpinned most deep-seated illnesses. He classified them primarily into psora, sycosis, and syphilis — each representing a different energetic blockage. Treatment involves identifying and addressing these underlying miasmatic influences, particularly in chronic cases

(Hahnemann, 1828).

These frameworks constitute the backbone of classical Homoeopathy and continue to guide both theoretical discourse and clinical practice. However, their lack of empirical validation remains a significant hurdle in achieving widespread acceptance in scientific communities.

SCIENTIFIC EVALUATION AND EVIDENCE BASE

Clinical Trials and Meta-Analyses

A growing body of research has evaluated Homoeopathy using conventional scientific methodologies, including randomized controlled trials (RCTs) and meta-analyses. One of the most cited meta-analyses, conducted by Linde et al. (1997), assessed 89 clinical trials and concluded that homoeopathic remedies had effects that were significantly different from placebo. However, the study also acknowledged variability in study quality and called for more rigorous trials. In contrast, a later high-profile study by Shang *et al.*, (2005), published in The Lancet, performed a comparative analysis of 110 placebo-controlled trials of Homoeopathy and 110 of conventional medicine. Their findings suggested that, when only high-quality trials were considered, the effects of Homoeopathy were compatible with placebo.

Methodological Challenges

Several challenges complicate the evaluation of Homoeopathy through standard RCT frameworks. Blinding is particularly difficult due to the highly individualized nature of treatments, which may not conform to uniform intervention models. Furthermore, the therapeutic encounter in Homoeopathy often involves extensive patient interaction, which could enhance placebo effects and confound outcome measures. The lack of standardized outcome measures and inconsistency in remedy selection also contribute to the difficulty in comparing studies. Additionally, publication bias—where positive results are more likely to be published than negative findings—further skews the available literature (Ernst, 2002).

Mechanistic Explanations and Basic Science

A critical point of contention lies in the mechanism of action of homoeopathic remedies. Given that most high-potency remedies are diluted beyond Avogadro's number, traditional pharmacological models fail to explain their effects. Several hypotheses have emerged to bridge this gap, including the controversial “memory of water” theory, which posits that water retains a structural imprint of substances once dissolved in it. More recently, research by Chikramane *et al.*, (2010) reported the presence of nanoparticles in ultra-dilute solutions, suggesting a possible material basis for homoeopathic action. Despite such findings, these theories remain speculative and are not widely accepted within mainstream science.

Table 1: Comparison Table: Homoeopathy vs Allopathy

Feature	Homoeopathy	Allopathy
Principle	Similia Similibus Curentur	Opposites cure
Remedy Preparation	Serial dilution + succussion	Synthetic or natural drugs
Mechanism of Action	Vital force stimulation	Pharmacological/biochemical
Personalization	High (individualized)	Moderate (protocol-driven)
Scientific Acceptance	Limited	High

Observational and Pragmatic Studies

Beyond controlled trials, observational studies and real-world evidence offer additional insights into the effectiveness of Homoeopathy. For example, the EPI3 study conducted in France examined over 6,000 patients in primary care settings and found that those receiving homoeopathic treatment experienced comparable clinical outcomes with fewer side effects and less reliance on conventional medications (Relton *et al.*, 2017). While such studies lack the control of RCTs, they better reflect real-world usage and patient experiences. Some evidence supports the clinical efficacy of Homoeopathy, especially in individualized and holistic care contexts, the lack of consistent reproducibility and mechanistic clarity continues to fuel skepticism in the broader scientific community.

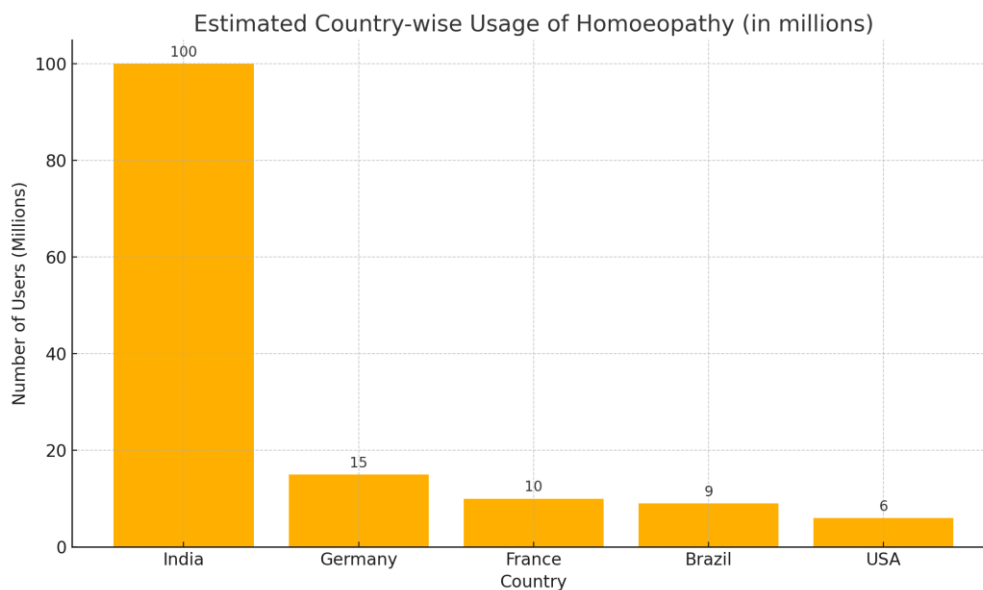


Figure 3: Estimated Country-Wise Usage of Homoeopathy (In Millions)

PHILOSOPHICAL AND EPISTEMOLOGICAL CONSIDERATIONS

Divergent Paradigms of Healing

Homoeopathy operates within a fundamentally different philosophical paradigm from that of conventional biomedicine. While modern medicine is grounded in empirical reductionism, materialism, and the scientific method, Homoeopathy draws from vitalistic and holistic worldviews. It posits that healing arises from the stimulation of a vital force—an immaterial life energy—rather than the direct biochemical alteration of physiological processes. This conceptual divergence creates an epistemological barrier that makes Homoeopathy difficult to assess within the prevailing biomedical framework (Vithoulkas, 2009).

Challenges in Scientific Validation

The epistemological foundation of Homoeopathy often leads to clashes with evidence-based medicine, which relies on reproducible outcomes and measurable biological mechanisms. Homoeopathy's emphasis on individualized care, subjective symptomatology, and dynamic healing processes defies the standardization required by randomized controlled trials (RCTs). This has led to criticisms that Homoeopathy lacks scientific validity. However, advocates argue that its empirical efficacy, observed through clinical practice and patient satisfaction, warrants alternative methods of validation that embrace complexity and personal variability (Bell *et al.*, 2013).

Role of Context and Narrative

In Homoeopathy, the patient narrative is central to diagnosis and remedy selection. The therapeutic process often involves a lengthy consultation aimed at understanding the totality of the patient's symptoms, lifestyle, and emotional state. This stands in contrast to the often fragmented and time-constrained approach in conventional medicine. The relational and narrative-based aspects of Homoeopathy resonate with postmodern critiques of biomedicine, which argue for a more patient-centered and humanistic approach to healing (Relton *et al.*, 2017).

Integration in Pluralistic Health Systems

Despite philosophical differences, Homoeopathy has found a place in pluralistic health systems around the world. In countries like India, Brazil, and Switzerland, it coexists with allopathic medicine and is integrated into national healthcare policies. This coexistence reflects broader societal and cultural preferences for diverse healing modalities. It also challenges the notion that scientific legitimacy is the sole determinant of therapeutic value, highlighting the importance of social, historical, and cultural factors in shaping health practices (AYUSH, 2020). The understanding Homoeopathy requires an appreciation of its unique philosophical and epistemological underpinnings. Rather than dismissing it solely on the basis of biomedical standards, a more nuanced approach would acknowledge its distinct paradigm and explore complementary frameworks for evaluating its therapeutic value.

CRITICISMS AND INCREDULITY

Lack of Scientific Plausibility

One of the most enduring criticisms of Homoeopathy lies in its foundational implausibility from the standpoint of modern science. The principle of potentization, which involves extreme dilutions far beyond Avogadro's limit, suggests that most homoeopathic remedies contain no molecules of the original substance. This contradicts established knowledge in chemistry and pharmacology, where dose-response relationships are central to understanding therapeutic action. Critics argue that the concept of water memory or energy imprint lacks reproducible empirical support and violates principles of molecular science and thermodynamics (Shang *et al.*, 2005).

Reproducibility and Methodological Limitations

Skeptics highlight the poor reproducibility of positive results in Homoeopathy research. While some trials show beneficial outcomes, they are often small, poorly designed, or statistically underpowered. When rigorous methodology is applied, such as in high-quality randomized controlled trials (RCTs), the evidence tends to converge with placebo effects. Meta-analyses such as the one conducted by Shang *et al.*, (2005) concluded that there is no robust evidence to support Homoeopathy's efficacy beyond placebo when only high-quality trials are considered. This raises concerns about publication bias and the cherry-picking of favorable results.

Ethical Concerns in Clinical Practice

The use of Homoeopathy as a sole or primary mode of treatment for serious medical conditions raises ethical issues. Medical authorities warn against substituting homoeopathic remedies for proven therapies in life-threatening or progressive diseases, such as cancer, diabetes, or infectious diseases. The World Health Organization (WHO) has expressed concern over the promotion of Homoeopathy for diseases like HIV/AIDS, tuberculosis, and malaria, citing a lack of evidence and potential harm due to delayed or absent conventional treatment (WHO, 2009).

Regulatory and Educational Issues

Homoeopathy's integration into national healthcare systems and medical education has provoked debate regarding its scientific legitimacy. Critics argue that publicly funded homoeopathic institutions or insurance coverage could mislead patients into believing the practice is evidence-based. Moreover, inclusion of Homoeopathy in medical curricula without critical appraisal may promote pseudoscientific thinking among health professionals. Calls have been made to reevaluate the role of Homoeopathy in public health policy and ensure that its practice is aligned with ethical and scientific standards (Ernst, 2002).

Public Perception and Misinformation

Public support for Homoeopathy is often based on anecdotal evidence, cultural beliefs, and dissatisfaction with conventional healthcare rather than critical evaluation of scientific data. The rise of wellness trends and social media has further amplified the spread of misinformation regarding homoeopathic efficacy. This environment can lead to misinformed health decisions and resistance to evidence-based interventions, especially in vulnerable or chronically ill populations. It continues to enjoy popularity in various parts of the world, it faces sustained scrutiny from the scientific community due to its implausible mechanisms, inconsistent evidence base, and potential ethical risks. A nuanced dialogue is essential to balance respect for patient autonomy with the imperative of scientific rigor and public safety.

Venn Diagram: Evidence-Based Medicine vs Homoeopathy

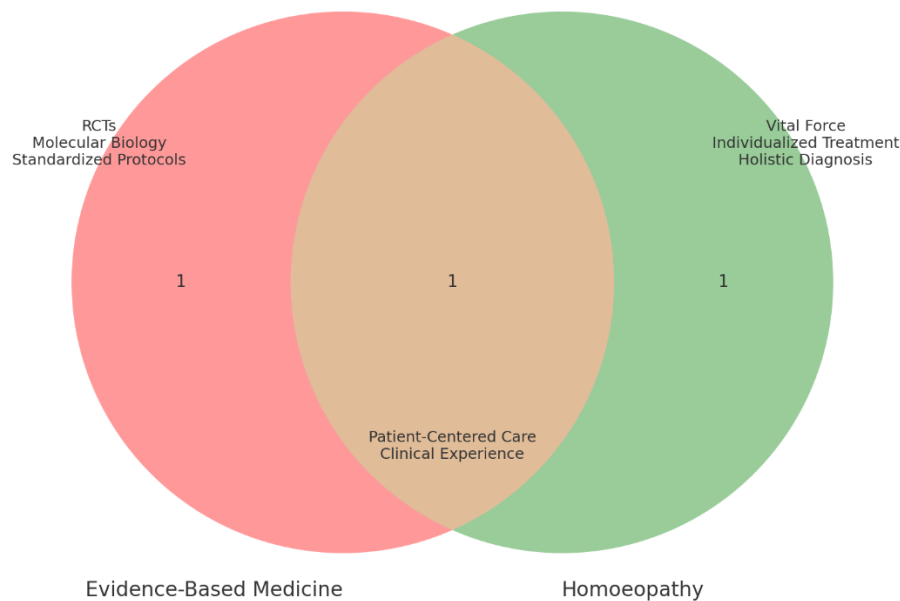


Figure 4: Evidence-Based Medicine and Homoeopathy

RECENT ADVANCES AND RESEARCH DIRECTIONS

Nanotechnology and Physical Chemistry Approaches

Recent studies have attempted to explain the mechanism of action of homoeopathic remedies through nanotechnology and physical chemistry. Research led by Chikramane et al. (2010) demonstrated the presence of nanoparticles of the source material even in high-potency homoeopathic dilutions. This finding challenges the assumption that these solutions are chemically inert and suggests a possible material basis for therapeutic action. Advanced imaging techniques such as transmission electron microscopy (TEM) and dynamic light scattering (DLS) have been used to detect and characterize these nanoparticles, offering a new avenue for understanding remedy effects at the nanoscale level.

Systems Biology and Network Pharmacology

Another significant advancement is the integration of systems biology and network pharmacology to explore the complex interactions of homoeopathic remedies within the human biological system. These frameworks aim to model the effects of ultra-dilute substances on gene expression, cellular signaling, and metabolic pathways. The holistic philosophy of Homoeopathy aligns well with systems biology, which considers the dynamic interplay between multiple biological components. Preliminary in-vitro studies have shown changes in gene expression following homoeopathic treatment, although these results are still under scrutiny due to reproducibility challenges (Bell et al., 2013).

Advances in Clinical Research Methodology

The design of clinical trials in Homoeopathy has evolved to address long-standing criticisms. There is a growing trend toward using pragmatic trials and real-world evidence approaches that better reflect clinical practice. Adaptive trial designs, stratified randomization, and the use of validated patient-reported outcome measures are being employed to enhance the methodological quality of studies. Additionally, collaborative efforts such as the CORE-Hom database have improved access to Homoeopathy research and facilitated meta-analytic assessments with more rigorous inclusion criteria (Mathie et al., 2014).

Artificial Intelligence and Data Analytics

Emerging technologies such as artificial intelligence (AI) and big data analytics are beginning to play a role in Homoeopathy research. These tools are being used to analyze large datasets of patient cases, remedy responses, and symptom profiles to identify patterns and optimize remedy selection. Machine learning algorithms can assist in refining the process of individualization and may help standardize data collection in clinical settings. Although still in early stages, AI holds the potential to bridge the gap between traditional practice and evidence-based analytics.

International Collaboration and Regulatory Frameworks

There is an increasing call for global collaboration to develop standardized regulatory frameworks and quality control measures for homeopathic medicines. Organizations such as the European Coalition on Homeopathic and Anthroposophic Medicinal Products (ECHAMP) and India's Central Council for Research in Homoeopathy (CCRH) are working toward harmonizing standards, promoting pharmacovigilance, and supporting multicenter clinical trials. International guidelines and pharmacopeial standards are critical to ensuring the safety, efficacy, and reproducibility of homeopathic remedies in diverse healthcare systems. Many challenges remain, recent advancements in nanotechnology, systems biology, clinical trial design, and data science offer promising directions for strengthening the scientific foundation of Homoeopathy. Continued interdisciplinary research, supported by rigorous methodologies and open scientific dialogue, will be essential for integrating Homoeopathy more meaningfully within the broader landscape of complementary and integrative medicine.

2. CONCLUSION

Homoeopathy remains a subject of profound scientific, philosophical, and clinical interest, attracting both passionate advocacy and sharp criticism. It occupies a unique position within the broader landscape of integrative and complementary medicine, grounded in principles that diverge significantly from conventional biomedicine. Despite the longstanding controversy surrounding its mechanisms of action and clinical efficacy, Homoeopathy continues to be used by millions globally, supported by anecdotal reports, practitioner observations, and some empirical studies.

The review of scientific literature indicates that while some clinical trials and observational studies suggest beneficial effects of homoeopathy, the results are often limited by methodological inconsistencies, small sample sizes, and biases. Furthermore, the extreme dilutions and reliance on non-material explanations challenge mainstream scientific paradigms, contributing to skepticism and resistance within the biomedical community. Nonetheless, emerging research in nanoscience, systems biology, and clinical methodology is beginning to offer novel perspectives that may bridge this divide.

Philosophically, homoeopathy emphasizes individualized care, patient-centered consultation, and holistic healing, which align with modern trends toward personalized medicine. However, ethical concerns about its use in lieu of evidence-based treatment for serious conditions underscore the need for clear regulatory frameworks, informed consent, and integration within multidisciplinary care models.

To reconcile the epistemological and empirical divides, the future of Homoeopathy research must embrace interdisciplinary collaboration, scientific rigor, and open-minded inquiry. Further investigations leveraging advanced tools such as nanotechnology, genomics, and artificial intelligence may uncover new insights into its underlying mechanisms and optimize its therapeutic applications.

Ultimately, the continued evolution of Homoeopathy will depend not only on resolving scientific debates but also on respecting diverse cultural practices, supporting patient autonomy, and maintaining a commitment to safety, transparency, and evidence-based care

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