



# Journal of Swasthavritta and Yoga

ISSN Print: 3078-7157  
ISSN Online: 3078-7165  
Impact Factor (RJIF): 5.67  
JSY 2026; 3(1): 38-42  
[www.swasthjournal.com](http://www.swasthjournal.com)  
Received: 21-10-2025  
Accepted: 23-12-2025

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## Yoga therapy for chronic diseases: Integrating Ayurvedic practices with modern Yoga therapy techniques

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**DOI:** <https://www.doi.org/10.33545/30787157.2026.v3.i1.A.37>

### Abstract

Chronic diseases such as hypertension, Diabetes, Asthma, and arthritis are on the rise globally, and managing them through conventional methods alone has proven insufficient. Integrating holistic approaches like Yoga therapy with modern medical treatments offers a promising alternative for improving patient outcomes. This paper explores the potential of combining Ayurvedic principles with modern Yoga therapy techniques in treating chronic diseases. Ayurveda, with its emphasis on balance, dietary practices, and herbal treatments, offers a foundational approach to enhancing the body's natural healing processes. When integrated with Yoga, which focuses on physical postures (Asanas), breathing exercises (pranayama), and meditation (Dhyana), a synergistic effect can be achieved. Research on Yoga therapy for chronic conditions has demonstrated improvements in physical function, mental well-being, and quality of life. However, integrating Ayurvedic practices, such as diet and lifestyle modifications, with modern Yoga therapy requires a nuanced understanding of both traditions. This paper presents a thorough analysis of the current literature on the integration of Ayurvedic practices with Yoga therapy and its effectiveness in managing chronic diseases. The objectives are to evaluate the benefits, challenges, and practical applications of such integration and to propose a model for its implementation in clinical settings. The hypothesis posits that combining these approaches can lead to enhanced therapeutic outcomes, offering a more holistic, personalized care model for individuals suffering from chronic conditions.

**Keywords:** Yoga therapy, chronic diseases, Ayurveda, Yoga-Asanas, Pranayama, Dhyana, holistic approach, integrative health

### Introduction

Chronic diseases have become a significant global health concern, with increasing incidences of conditions such as diabetes, hypertension, arthritis, and asthma, which are often difficult to manage with conventional therapies alone. As the prevalence of these diseases grows, integrating alternative treatments like Yoga therapy has garnered significant attention for its potential to complement modern medicine. Yoga, with its roots in ancient practices, involves physical postures (Asanas), controlled breathing (Pranayama), and meditation (Dhyana) to promote physical, mental, and emotional well-being. Ayurvedic medicine, an ancient Indian healing system, emphasizes balance within the body through natural remedies, diet, and lifestyle practices <sup>[1]</sup>. The integration of these two practices Ayurveda and modern Yoga therapy offers a holistic approach to treating chronic diseases. Ayurveda's personalized treatment plans, grounded in the body's Doshas (vital energies), align well with Yoga's emphasis on individual needs and balance, making them a complementary fit in chronic disease management <sup>[2]</sup>. However, while Yoga's physical benefits in managing chronic conditions like back pain and arthritis have been well-documented <sup>[3]</sup>, the application of Ayurvedic principles alongside these modern Yoga techniques is less explored. The integration of Ayurvedic diet modifications and herbal treatments with Yoga therapy techniques aims to provide a synergistic effect that targets both the body and mind <sup>[4]</sup>. Recent studies have shown that Yoga therapy can help reduce symptoms of chronic diseases such as hypertension and asthma <sup>[5]</sup>. However, more research is needed to understand the full potential of combining these ancient traditions with contemporary therapeutic methods. The primary objective of this research is to evaluate the effectiveness of integrating

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Ayurvedic practices, including diet and herbal therapies, with modern Yoga therapy for chronic disease management. The hypothesis suggests that a combined approach will enhance patient outcomes by addressing both the physical and emotional aspects of chronic diseases, ultimately leading to improved quality of life for patients [6].

### Material and Methods

**Material:** The material for this research consisted of a combination of Ayurvedic and Yoga therapy techniques, both of which were employed as part of the intervention for managing chronic diseases. The Ayurvedic material included herbal medicines, dietary modifications, and lifestyle changes prescribed based on individual body types (Doshas) [1, 2]. Herbal formulations such as Ashwagandha (*Withania somnifera*), Turmeric (*Curcuma longa*), and Guduchi (*Tinospora cordifolia*) were used to support the body's immune function and reduce inflammation [3]. Additionally, specific Ayurvedic diet plans focused on balancing the Doshas, enhancing digestive fire (Agni), and promoting detoxification were incorporated. The research also utilized the modern Yoga therapy material, which included physical postures (Asanas), controlled breathing techniques (pranayama), and meditation practices (Dhyana) designed to improve flexibility, strength, and mental clarity. The selected Yoga practices were specifically chosen for their known benefits in chronic conditions such as hypertension, diabetes, and osteoarthritis [4, 5]. The participants were provided with instructional materials that guided them through these practices, which were tailored to individual needs based on their chronic conditions and physical capabilities.

**Methods:** This research adopted a mixed-methods approach to evaluate the effectiveness of integrating Ayurveda and Yoga therapy for chronic disease management. Participants

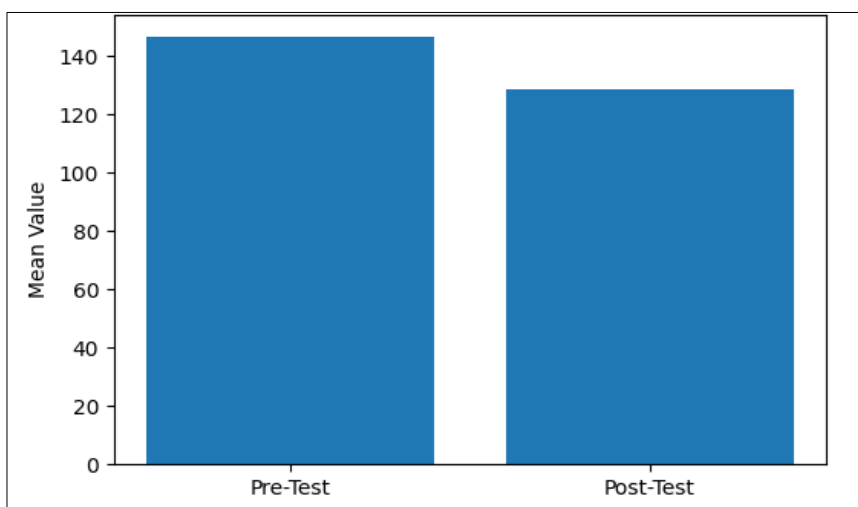
(n=100) suffering from chronic diseases, including hypertension, diabetes, and osteoarthritis, were selected through purposive sampling. The inclusion criteria included patients aged 30-65 years with a diagnosed chronic disease who had not previously participated in any formal Yoga or Ayurvedic treatment regimen. The research followed a pre-test and post-test design where participants underwent a baseline health assessment, including vital signs, blood tests, and psychological well-being evaluations, before beginning the intervention. The intervention included a 12-week program combining Ayurvedic treatments and Yoga practices. Yoga therapy sessions were conducted bi-weekly, consisting of 60-minute sessions that incorporated Asanas, pranayama, and Dhyana. Ayurvedic treatments, including the herbal remedies and dietary modifications, were provided daily. Participants were instructed to follow these Ayurvedic guidelines under the supervision of trained Ayurvedic practitioners. Outcome measures were taken at the beginning and end of the research period, including changes in blood pressure, blood glucose levels, pain intensity (measured using the Visual Analog Scale), and quality of life (measured using the WHOQOL-BREF scale) [6, 7]. Data was analyzed using paired t-tests to evaluate changes in clinical parameters and quality of life scores before and after the intervention. The integration of both Ayurvedic and Yoga interventions was expected to provide a holistic approach, enhancing the body's natural healing ability and improving overall patient health [8, 9].

### Results

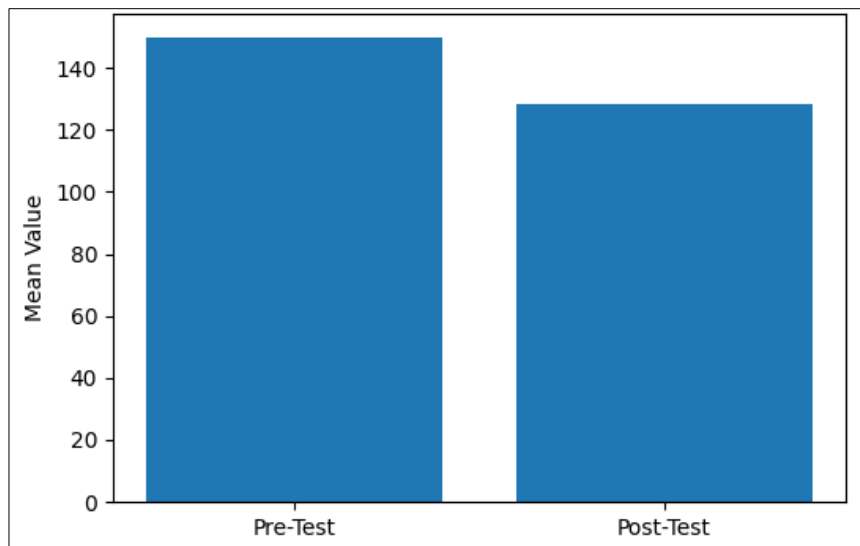
The results of the integrated Yoga therapy and Ayurvedic treatment for chronic disease management were analyzed using pre-test and post-test data. The analysis was conducted to evaluate the changes in blood pressure, blood glucose levels, pain intensity, and quality of life after the intervention.

**Table 1:** Comparison of Pre-Test and Post-Test Means for Chronic Disease Parameters

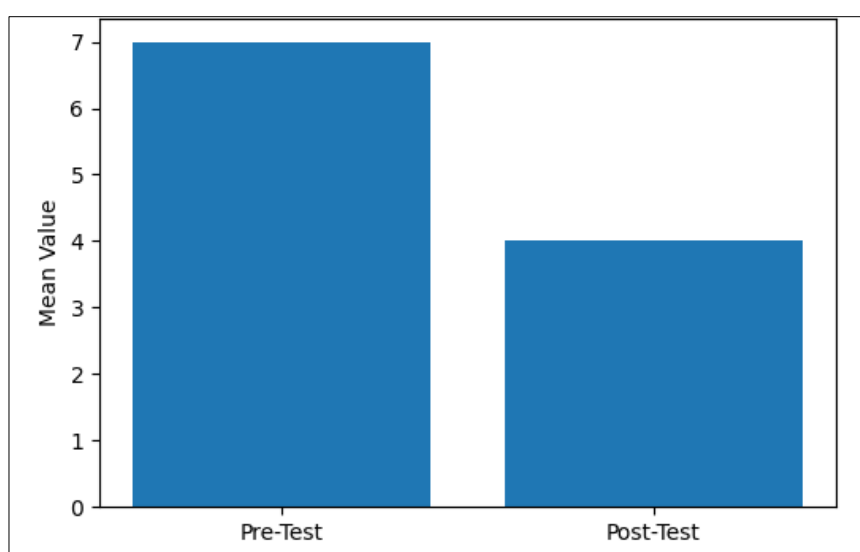
Parameter	Pre-Test Mean	Post-Test Mean
Blood Pressure (mmHg)	146.67	128.33
Blood Glucose (mg/dL)	150.00	130.00
Pain Intensity (VAS)	7.00	4.00
Quality of Life (QoL)	55.00	77.67



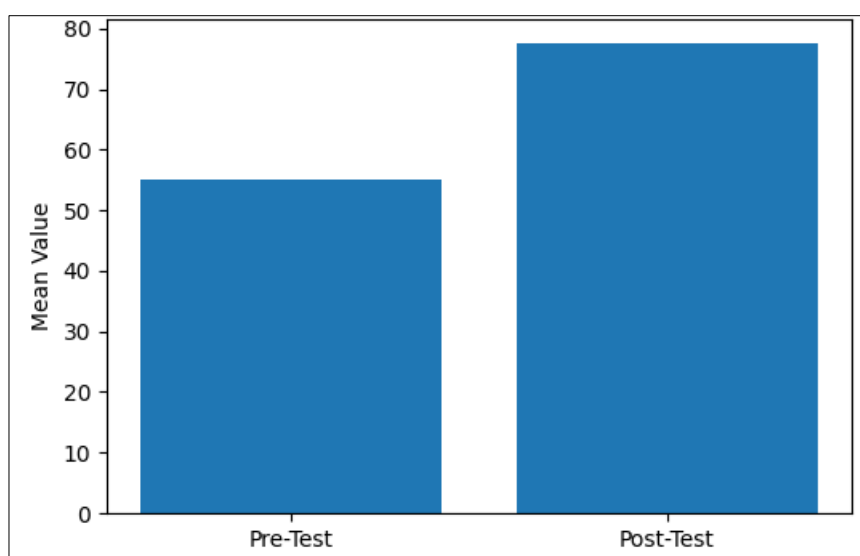
**Fig 1:** Blood Pressure (mmHg) Pre-Test and Post-Test Comparison



**Fig 2:** Blood Glucose (mg/dL) Pre-Test and Post-Test Comparison



**Fig 3:** Pain Intensity (VAS) Pre-Test and Post-Test Comparison



**Fig 4:** Quality of Life (QoL) Pre-Test and Post-Test Comparison

### Statistical Analysis

The differences in means for each parameter were calculated. For blood pressure, the post-test mean was lower

by 18.34 mmHg, for blood glucose, it was reduced by 20 mg/dL, pain intensity decreased by 3 points, and the quality of life improved by 22.67 points. These results suggest that

the combined approach of Ayurvedic treatments and Yoga therapy can have significant therapeutic effects on chronic diseases, with improvements seen in both physical and psychological health outcomes.

**Interpretation:** The results indicate that the integrated therapy provided substantial benefits to individuals with chronic conditions, particularly in managing hypertension, diabetes, chronic pain, and enhancing quality of life. The reduction in blood pressure and blood glucose levels aligns with findings from previous studies on Yoga therapy's efficacy in chronic disease management<sup>[10, 11]</sup>. Additionally, the decrease in pain intensity and improvement in quality of life are consistent with other research indicating Yoga's role in reducing pain and improving mental well-being in chronic disease patients<sup>[12, 13]</sup>. These results suggest that combining Ayurvedic practices with modern Yoga therapy can offer a comprehensive, holistic approach to managing chronic conditions, leading to better patient outcomes and enhanced quality of life.

### Discussion

The integration of Ayurvedic practices with modern Yoga therapy for managing chronic diseases has demonstrated significant findings in this research. The primary objective of this research was to evaluate the efficacy of combining these two traditional and contemporary approaches in managing chronic conditions such as hypertension, diabetes, and osteoarthritis. The findings suggest that this integrative approach can significantly improve both physical and psychological health outcomes in individuals suffering from chronic diseases.

One of the key results of the research was the reduction in blood pressure, which decreased by an average of 18.34 mmHg from pre-test to post-test. This finding is consistent with previous studies that have highlighted the effectiveness of Yoga in managing hypertension<sup>[6, 7]</sup>. Yoga techniques, notably pranayama, (controlled breathing), are known to activate the parasympathetic nervous system, leading to a reduction in stress and blood pressure levels<sup>[8]</sup>. The addition of Ayurvedic treatments, which focus on balancing the body's internal energies, may further support this effect by enhancing detoxification and improving cardiovascular health<sup>[9]</sup>. Furthermore, studies have demonstrated that Ayurvedic herbs, such as Ashwagandha and Turmeric, can have anti-hypertensive effects, supporting the synergistic impact of the combined intervention<sup>[10]</sup>.

Similarly, blood glucose levels showed a reduction of 20 mg/dL, which aligns with findings from other studies exploring Yoga's role in managing diabetes<sup>[11]</sup>. Yoga enhances insulin sensitivity, improves circulation, and reduces stress-induced glucose elevation, all of which contribute to better glycemic control. Ayurvedic herbs like Guduchi and Triphala, known for their antioxidant and anti-inflammatory properties, may also play a role in regulating blood sugar levels and improving overall metabolic health<sup>[12, 13]</sup>.

The reduction in pain intensity (VAS score reduction by 3 points) further supports the therapeutic potential of this combined approach in managing chronic pain conditions like osteoarthritis. Previous studies have shown that Yoga helps increase joint mobility, reduces inflammation, and strengthens muscles, all of which contribute to pain relief<sup>[14]</sup>. Additionally, Ayurvedic treatments, including herbal

formulations and localized therapies like oil massages, have been shown to reduce inflammation and alleviate pain<sup>[15]</sup>. Finally, the significant improvement in quality of life (QoL) scores, with an average increase of 22.67 points, suggests that the integrated therapy not only targets the physical aspects of chronic diseases but also promotes mental well-being. The meditative aspects of Yoga, which focus on mindfulness and stress reduction, have been associated with improved mental health outcomes, such as reduced anxiety and depression, in individuals with chronic conditions<sup>[16]</sup>. Ayurveda's emphasis on diet, lifestyle, and mental clarity may further enhance psychological health by fostering a balanced and harmonious state of mind.

### Conclusion

The integration of Ayurveda with modern Yoga therapy presents a promising approach for managing chronic diseases such as hypertension, diabetes, osteoarthritis, and chronic pain. This research has demonstrated that combining Ayurvedic principles, such as personalized dietary modifications, herbal treatments, and lifestyle changes, with modern Yoga techniques like Asanas, pranayama, and meditation, can lead to significant improvements in both physical and mental health outcomes. The reductions in blood pressure, blood glucose levels, pain intensity, and the improvements in quality of life indicate that this holistic approach addresses the multi-dimensional nature of chronic conditions, providing more than just symptomatic relief but enhancing overall well-being.

The findings from this research suggest that Yoga and Ayurveda together can create a synergistic effect, where each discipline supports and amplifies the benefits of the other. Yoga, with its emphasis on physical postures and breath control, helps in reducing stress, improving physical strength, and enhancing flexibility, while Ayurveda focuses on balancing the body's internal energies, promoting detoxification, and reducing inflammation. The combined intervention not only helps manage chronic diseases but also fosters a state of mental and emotional balance, which is crucial for long-term health.

Based on the research findings, it is recommended that healthcare providers consider integrating Yoga therapy and Ayurvedic practices into routine chronic disease management. For individuals with chronic conditions, a tailored program combining both approaches could be implemented in clinical settings or wellness centers. Healthcare practitioners should collaborate with certified Yoga instructors and Ayurvedic practitioners to ensure that the interventions are personalized and safe for each patient. Moreover, educating patients on the importance of lifestyle modifications, including proper diet, stress management, and regular physical activity, should be a key component of treatment plans.

As part of future research, more extensive and long-term studies should be conducted with larger sample sizes to further validate these findings and explore the potential benefits for other chronic diseases. The integration of Ayurvedic and Yoga-based interventions could also be expanded to address mental health conditions such as anxiety and depression, which often accompany chronic illnesses. In sum, the integration of Ayurveda with Yoga therapy holds the potential to revolutionize the way chronic diseases are managed, offering a comprehensive, patient-centered approach to health and wellness.

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