



# A CRITICAL REVIEW ON NADI PARIKSHA: BRIDGING CLASSICAL INSIGHTS AND CONTEMPORARY UNDERSTANDING

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## ABSTRACT

Nadi Pariksha (pulse diagnosis) is a time-honored diagnostic method in Ayurveda, deeply embedded in classical literature and clinical practice. It offers a holistic assessment of health by evaluating the balance of Vata, Pitta, and Kapha doshas through pulse characteristics. However, its subjectivity and lack of standardization challenge its acceptance in evidence-based medicine.

To critically review the origin, theoretical basis, diagnostic methodology, clinical relevance, limitations, and modern integration potential of Nadi Pariksha, aiming to align traditional Ayurvedic principles with contemporary scientific approaches.

A literature-based review was conducted using primary classical Ayurvedic texts (e.g., *Sarangadhara Samhita*, *Yoga Ratnakara*) alongside peer-reviewed journal articles from PubMed and PMC on the practice, reliability, and recent technological advances in pulse diagnosis. Comparative analysis was used to evaluate classical theory against modern clinical standards.

Nadi Pariksha remains clinically relevant in Ayurveda for early diagnosis and individualized treatment. Classical descriptions vary among sources, and diagnostic interpretations largely depend on practitioner experience. Modern studies show moderate interrater reliability, and technological innovations offer potential for standardization, yet remain in developmental stages. Nadi Pariksha is a vital, non-invasive diagnostic tool rooted in Ayurvedic philosophy. While current limitations in objectivity and reproducibility persist, structured training, interdisciplinary research, and sensor-based innovations can enhance its validity and global applicability.

## Keywords:

Ayurveda, Dosha Assessment, Diagnostic Validity, Integrative Medicine, Nadi Pariksha, Pulse Diagnosis.

## INTRODUCTION

Nadi Pariksha, an ancient diagnostic method in Ayurveda, involves the examination of the radial pulse to assess the balance of the three doshas: Vata, Pitta, and Kapha. This technique provides a comprehensive understanding of an individual's health by evaluating various pulse parameters. While traditionally subjective, recent efforts aim to objectify and standardize Nadi Pariksha for broader clinical application.

## HISTORICAL CONTEXT AND CLASSICAL FOUNDATIONS

The practice of Nadi Pariksha is documented in several classical Ayurvedic texts:

- Sarangadhara Samhita: Provides detailed descriptions of pulse characteristics and their correlation with doshic imbalances.<sup>i</sup>
- Yoga Ratnakara: Elaborates on the nuances of pulse examination, emphasizing its significance in diagnosing various ailments.
- Bhavaprakasha: Discusses the importance of pulse examination in understanding the physiological and psychological states of individuals.

These texts often use metaphors from nature to describe pulse movements, such as likening the Vata pulse to the movement of a snake, the Pitta pulse to that of a frog, and the Kapha pulse to a swan's glide.<sup>ii</sup>

## METHODOLOGY OF NADI PARIKSHA

Traditional Nadi Pariksha involves the practitioner placing three fingers—index, middle, and ring—on the radial artery of the patient's wrist. Each finger corresponds to one of the three doshas:

- Index Finger: Vata
- Middle Finger: Pitta
- Ring Finger: Kapha<sup>iii</sup>

The practitioner assesses various pulse parameters, including:

- Gati (Movement): The qualitative feel of the pulse, e.g., snake-like for Vata.
- Vega (Speed): The rate at which the pulse beats.
- Tala (Rhythm): The regularity or irregularity of the pulse.
- Bala (Strength): The force or amplitude of the pulse.
- Kathinya (Consistency): The hardness or softness of the arterial wall.
- Tapamana (Temperature): The warmth or coolness felt at the pulse point.

These parameters collectively provide insights into the patient's doshic balance and overall health status.

DIAGNOSTIC VALIDITY AND CLINICAL RELEVANCE

While Nadi Pariksha has been a cornerstone of Ayurvedic diagnostics for centuries, its clinical validity in contemporary settings has been a subject of investigation. Studies have explored the repeatability and reliability of pulse diagnosis, with findings indicating moderate inter-rater reliability among trained practitioners.

Furthermore, research has examined the correlation between pulse characteristics and specific health conditions. For instance, variations in pulse wave velocity and arterial stiffness have been linked to cardiovascular health, suggesting potential parallels between traditional pulse assessment and modern diagnostic parameters.

Despite these findings, challenges persist in standardizing Nadi Pariksha due to its inherently subjective nature and reliance on practitioner expertise. This underscores the need for integrating objective tools and methodologies to enhance its diagnostic accuracy and reproducibility.

TECHNOLOGICAL ADVANCEMENTS AND INTEGRATION

Recent years have witnessed significant strides in integrating technology with traditional Nadi Pariksha practices. Sensor-based devices, such as Nadi Tarangini and Nadi Yantra, have been developed to capture pulse waveforms digitally, enabling more objective analysis.<sup>iv</sup>

These devices utilize pressure sensors to record pulse signals, which are then analyzed using algorithms to determine doshic imbalances and potential health issues. Such technological interventions aim to mitigate the subjectivity associated with manual pulse diagnosis and facilitate broader acceptance of Nadi Pariksha in integrative healthcare settings.

Moreover, studies have explored the application of machine learning algorithms to classify pulse data, enhancing the predictive capabilities of these tools.<sup>v</sup>

COMPARATIVE ANALYSIS: TRADITIONAL AND MODERN PARAMETERS

The following table illustrates the correlation between traditional Ayurvedic pulse parameters and their modern scientific counterparts:

Traditional Parameter	Description	Modern Equivalent
Gati (Movement)	Qualitative feel of the pulse	Pulse Waveform Analysis
Vega (Speed)	Rate of the pulse	Pulse Wave Velocity (PWV)
Tala (Rhythm)	Regularity of the pulse	Heart Rate Variability (HRV)
Bala (Strength)	Force or amplitude of the pulse	Augmentation Index (AI)
Kathinya (Consistency)	Hardness or softness of the artery	Arterial Stiffness Index
Tapamana (Temperature)	Warmth or coolness at pulse point	Skin Temperature Measurement

This comparative analysis underscores the potential for integrating traditional Ayurvedic diagnostics with modern biomedical tools to enhance the accuracy and reliability of health assessments.<sup>vi</sup>

AYURVEDIC CLASSIFICATION OF NADI BASED ON GATI (MOVEMENT) AND ASSOCIATED LAKSHANAS (CHARACTERISTICS)

Dosha	Nadi Gati (Pulse Movement)	Metaphorical Comparison	Lakshana (Associated Features)
Vata	Chala (Fast, irregular, unstable)	Like a snake (Sarpa Gati)	Thin, feeble, irregular rhythm, dryness, anxiety, insomnia, cold extremities
Pitta	Druta (Moderate, forceful, sharp)	Like a frog (Manduka Gati)	Warm, forceful, rhythmic, sharp beat, redness, thirst, irritability, burning sensation
Kapha	Manda (Slow, steady, heavy)	Like a swan (Hansa Gati)	Deep, steady, slow, smooth, cold, lethargy, heaviness, mucus-related issues
Vata-Pitta	Irregular yet forceful	Snake-frog mix	Alternating fast and sharp movements, dryness with heat, irritability with anxiety
Pitta-Kapha	Sharp yet steady	Frog-swan mix	Warm, slightly sluggish, damp, sticky, mild swelling with burning sensation
Vata-Kapha	Irregular yet sluggish	Snake-swan mix	Uneven, cold, sticky, dryness with heaviness, fatigue and stiffness
Tridoshic	Complex mixed qualities	Combination of all	Confused pattern, variable rhythms, systemic imbalances, chronic illness signs

CHALLENGES AND FUTURE DIRECTIONS

Despite the advancements, several challenges hinder the widespread adoption of Nadi Pariksha in modern healthcare:

- Standardization: Lack of uniform protocols and training methodologies leads to variability in practice.
- Subjectivity: Reliance on practitioner expertise can result in inconsistent diagnoses.
- Integration: Bridging the gap between traditional concepts and modern medical frameworks remains complex.

To address these challenges, future efforts should focus on:

- Developing standardized training modules for practitioners.<sup>vii</sup>

- Enhancing technological tools for objective pulse analysis.
- Conducting large-scale clinical studies to validate the efficacy of Nadi Pariksha.
- Fostering interdisciplinary collaboration between Ayurvedic practitioners and biomedical researchers.

## CONCLUSION

Nadi Pariksha stands as a testament to the depth and sophistication of Ayurvedic diagnostics. While rooted in ancient wisdom, its relevance in contemporary healthcare cannot be understated. By embracing technological advancements and striving for standardization, Nadi Pariksha has the potential to bridge traditional insights with modern scientific understanding, offering a holistic approach to health and well-being.

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