



# APPLIED ASPECT OF TRIVIDHA ROGA VISHESHA VIGYANIYAM: A COMPREHENSIVE CLINICAL REVIEW

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## ABSTRACT

The Trividha Roga Vishesha Vigyaniyam Vimana constitutes the fourth chapter of Vimana Sthana in Charaka Samhita, which is universally regarded as the epistemological and methodological cornerstone of classical Ayurvedic medicine. The chapter establishes a definitive tri-pronged framework for disease-specific knowledge understanding through Aptopadesha (authoritative instruction), Pratyaksha (direct sensory perception), and Anumana (logical inference) – collectively termed Trividha Pariksha. This triad not only defines the epistemological hierarchy of clinical knowledge but also helps to complete process of patient evaluation through known patient examination – Trividha, Shadvidha, Ashtavidha, and Dashavidha Pariksha – each serving a distinct and complementary clinical function. The present comprehensive clinical review systematically analyses the applied dimensions of this chapter through critical examination of primary classical texts, commentary literature, and contemporary peer-reviewed research. The review demonstrates that the Trividha Pariksha framework remains scientifically valid and clinically applicable in modern healthcare contexts, exhibiting significant parallels with evidence-based medicine, precision diagnostics, clinical reasoning theory, and patient-centred care. The chapter's guidance on Anukta Vyadhi (novel diseases) management is of particular contemporary relevance. The study concludes with recommendations for standardisation and integration of this framework into modern Ayurvedic clinical practice and research methodology.

**KEYWORDS:** Trividha Pariksha, Clinical Epistemology, Ayurvedic Diagnosis.

## 1. INTRODUCTION

Charaka Samhita, the premier established text of Ayurveda redacted by Drdhabala on the original teachings of Agnivesha and Punarvasu Atreya, is architecturally organised into eight Sthanas (sections), each addressing a distinct domain of medical science. Among these, the Vimana Sthana — literally the section on 'measurement and standards' — occupies a unique position. Spanning eight chapters, it covers the science of taste-pharmacology (Rasa Vimana), dietary principles (Trividhakukshiya Vimana), epidemiology (Janapadodhvansaniya Vimana), physiological transport (Sroto Vimana), disease taxonomy (Roganika Vimana), and clinical epistemology (Trividha Roga Vishesha Vigyaniyam Vimana).<sup>[1]</sup>

Chapter 4 — Trividha Roga Vishesha Vigyaniyam Vimana — is the locus of Ayurvedic clinical epistemology. Its title itself is instructive: Trividha = threefold; Roga Vishesha = specific characteristics of diseases; Vigyaniyam = that which is to be known/investigated; Vimana = measurement/assessment. The chapter, therefore, is a formal treatise on 'three methods for the specific scientific investigation of diseases.'<sup>[2]</sup>

In Ayurvedic classical literature, the Pramana (instrument of valid knowledge) is the epistemological foundation upon which all cognition — including clinical cognition — is built. In Sutra Sthana, Chapter 11 (Tistraishaniya Adhyaya), Charaka

enumerates four pramanas for the examination of all knowable entities: Aptopadesha, Pratyaksha, Anumana, and Yukti.<sup>[3]</sup> However, in the context of clinical medicine specifically, the fourth chapter of Vimana Sthana refines this to a triad by subsuming Yukti within Anumana, because logical reasoning (Tarka) inherently subsumes rational interpretation (Yukti) in clinical contexts.<sup>[4]</sup>

The significance of this chapter cannot be overstated. As Acharya Charaka declares: the physician who applies all three examination methods comprehensively and sequentially makes no error in treatment [Cha.Vi.4/11]. This is not merely a philosophical assertion — it is a clinical protocol. The chapter maps out, with remarkable specificity, what information is best obtained through each pramana, how it should be obtained, and how the three are to be integrated for reliable diagnosis.

Despite its foundational significance, the applied clinical dimensions of this chapter remain underexplored in contemporary Ayurvedic scholarship. Existing literature has largely treated the chapter from a philosophical or taxonomic standpoint. A comprehensive clinical review that examines the applied, practical, and integrative aspects of Trividha Roga Vishesha Vigyaniyam — with correlation to modern biomedical practice and evidence-based methodology — has been identified as a gap in the published record. The present review endeavours to bridge this gap.



## 2. MATERIALS AND METHODS

### 2.1 Study Design

This article constitutes a descriptive-analytical literature review with classical textual analysis as its primary methodology. No experimental, clinical-trial, or animal-model component was employed.

### 2.2 Primary Classical Sources

The following authoritative classical texts were directly consulted, with specific shloka (verse) references cited throughout:

- Charaka Samhita. Vimana Sthana, Chapter 4 (Trividha Roga Vishesh Vigyaniam Vimana), Verses 1–14. With Ayurveda Dipika commentary by Chakrapanidatta. Ed. Vaidya Yadavaji Trikamji Acharya. Varanasi: Chaukhamba Orientalia; Reprint 2015.
- Sushruta Samhita. Sutra Sthana, Chapter 10. With Nibandha Sangraha commentary by Dalhanacharya. Ed. Vaidya Jadavaji Trikamji Acharya. Varanasi: Chaukhambha Sanskrit Sansthan; Reprint 2015.
- Ashtanga Hridayam. Sutra Sthana, Chapters 1 & 12. With Sarvangasundara commentary by Arunadatta. Ed. Pt. Hari Sadasiva Shastri Paradakara. Varanasi: Chaukhamba Orientalia; Reprint 2014.
- Charaka Samhita. Sutra Sthana, Chapters 11 & 28; Indriya Sthana, Chapter 1. Varanasi: Chaukhamba Orientalia; Reprint 2015.
- Yogaratanakara. Chapter on Ashtasthana Pariksha. Ed. Indradeva Tripathi & Dayashankara Tripathi. Varanasi: Krishnadasa Prakashan; Reprint 2017.

### 2.3 Secondary Literature Search

Electronic databases searched included: PubMed/MEDLINE, Google Scholar, DHARA (Digital Helpline for Ayurveda Research Articles – dhara.ayurveda.net), Charak Samhita Online (carakasamhitaonline.com), AYUSH Research Portal (ayushportal.nic.in), AyuSoftware databases, SCOPUS, and institutional repositories of NIA Jaipur and ITRA Jamnagar.

Publication years: 2000–2024. Languages: English, Hindi. Articles with original analysis, published in peer-reviewed journals or standard reference books, were included. Editorials, abstracts only, and duplicates were excluded.

### 2.4 Method of Analysis

Original Sanskrit verses were studied with their classical commentaries. Selected shlokas were transliterated and analysed for clinical applied content. Findings were categorised under the three pramanas and the nested examination systems. Contemporary biomedical correlates were identified through comparative analysis with published medical literature. A summary critical appraisal was performed for each applied domain.

## 3. RESULTS

### 3.1 Overview of the Chapter: Structural Analysis

Chapter 4 of *Vimana Sthana* spans 14 verses (shlokas) and is composed in both prose and verse format. The chapter opens with the formal declaration by *Bhagavan Atreya* [Cha.Vi.4/1-2], followed by the definitive sutra (aphorism) establishing the epistemological framework:

"त्रिविधं खलु रोगविशेषविज्ञानं भवति; तद्यथा आप्तोपदेशः, प्रत्यक्षम्, अनुमानं चेति॥३॥"

[Cha.Vi.4/3]

Translation: "Specific features of diseases can be determined in three ways — by *Aptopadesha* (authoritative instruction), *Pratyaksha* (direct observation), and *Anumana* (inference)."

The chapter then defines each pramana, specifies its objects of application, enumerates the sensory channels employed in *Pratyaksha*, delineates the objects of inferential reasoning, and concludes by affirming the clinical necessity of employing all three in integration. Table 1 presents the complete structural analysis of the chapter's content and its applied significance.

Table 1: Structural Content Analysis of *Trividha Roga Vishesh Vigyaniam Vimana* (Cha.Vi.4)

| Sl. | Verse(s) / Topic                           | Classical Content                                                                                                                                                    | Applied Clinical Significance                                                     |
|-----|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1   | Cha.Vi.4/1–2: Mangalacharana & Attribution | Formal invocation; attributed to Lord Atreya                                                                                                                         | Establishes authoritative lineage — a form of <i>Aptopadesha</i> itself           |
| 2   | Cha.Vi.4/3: Trividha Pramana               | <i>Aptopadesha</i> , <i>Pratyaksha</i> , <i>Anumana</i> defined as the triad                                                                                         | Foundational epistemological triad for all clinical reasoning                     |
| 3   | Cha.Vi.4/4: Definitions of each Pramana    | <i>Apta</i> = free from doubt, attachment etc.; <i>Pratyaksha</i> = Direct sensory Perception; <i>Anumana</i> = <i>Tarka</i> (Logical) with <i>Yukti</i> (Inference) | Validity criteria for clinical information sources; quality of evidence hierarchy |
| 4   | Cha.Vi.4/5–6: Scope of <i>Aptopadesha</i>  | Reliable texts, expert consultation, multi-source history                                                                                                            | Textbook-guided practice; expert consultation; patient/collateral history         |
| 5   | Cha.Vi.4/7: Scope of <i>Pratyaksha</i>     | Panch Gyanendriya Five-sense-organ-based examination — auditory, tactile, visual, gustatory, olfactory                                                               | Full-spectrum physical examination; organ-system-specific clinical signs          |
| 6   | Cha.Vi.4/8: Scope of <i>Anumana</i>        | Inference from visible <i>Linga</i> (sign) to invisible <i>Samprapti</i> (disease process); <i>Dhuma-Vahni Nyaya</i>                                                 | Clinical reasoning, pathogenesis inference; deductive differential diagnosis      |



|   |                                          |                                                                           |                                                                                     |
|---|------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 7 | Cha.Vi.4/9-10: Integrated application    | Physician must apply all three sequentially and in integration            | Clinical decision-making protocol; safeguard against single-source diagnostic error |
| 8 | Cha.Vi.4/11-12: Anukta Vyadhi management | Novel disease management by analogical reasoning from established pramana | Guideline for emerging/rare disease management; evidence gap protocol               |
| 9 | Cha.Vi.4/13-14: Chapter summary          | Recapitulation; authorial colophon                                        | Affirms scope and limitation of the triad; basis for further examination schemes    |

Source: Charaka Samhita, Vimana Sthana, Chapter 4, Verses 1-14. Chaukhamba Orientalia, Varanasi; Reprint 2015.

### 3.2 Aptopadesha — Authoritative Instruction: Clinical Applications

The word *Apta* is defined in the chapter itself with precision:

"आप्ता ह्यवितर्कस्मृतिविभागविदो  
निष्प्रीत्युपतापदर्शिनश्च"

[Cha.Vi.4/4 — Chakrapanidatta's *Ayurveda Dipika*]

*Apta* is characterised as one who: (a) is free from doubt (*Avitarka*); (b) has unimpaired memory (*Smriti*); (c) knows things in their entirety (*Vibhaga-Vida*); (d) is unattached (*Nishprita*); and (e) free from personal suffering that clouds judgment (*Nirupatapa*). Conversely, statements from the intoxicated, insane, illiterate, or biased are declared *Apramana* — invalid.<sup>[4]</sup>

This above ayurveda concept directly focuses the principle of 'source credibility' in evidence-based medicine — the hierarchy that ranks systematic reviews, RCTs, cohort studies, expert opinion, and case reports in descending order of reliability.

#### 3.2.1 Shastra Pramana (Textual Authority)

The classical texts — *Charaka*, *Sushruta*, *Vagbhata*, and others — constitute *Aptopadesha* in their highest form. Charaka's injunction to 'first go through the available authoritative literature before conducting clinical observation' [Cha.Vi.4/5] is methodologically equivalent to conducting a pre-clinical literature review before formulating a diagnostic hypothesis — a practice central to evidence-based clinical medicine.<sup>[5]</sup>

#### 3.2.2 Rogi Vakya (Patient History) and Parichara Vakya (Collateral History)

The chapter, contextualised through Chakrapanidatta's commentary, establishes that history elicited from the patient (*Rogi Vakya*) and from attendants and caregivers (*Parichara Vakya*) are both valid forms of *Aptopadesha* in the clinical domain.<sup>[6]</sup> This multi-source approach to history collection is of particular applied value in: (a) Paediatric cases — where the child cannot provide subjective history; (b) Geriatric patients — where recall may be incomplete. The Ayurvedic tradition thus formally mandates the practice of 'collateral history', which is a standard recommendation in modern clinical medicine.<sup>[7]</sup>

Table 2: Applied Dimensions of Aptopadesha in Contemporary Clinical Practice

| Form of Aptopadesha                                     | Classical Source / Reference   | Contemporary Clinical Parallel                                            |
|---------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------|
| Shastra Pramana (Textual authority)                     | Cha.Vi.4/5; Classical Samhitas | Clinical practice guidelines, systematic reviews, pharmacopoeia           |
| Rogi Vakya (Patient's own history)                      | Cha.Vi.4/6; Chakrapanidatta    | Subjective history-taking: Chief complaint, History of presenting illness |
| Parichara Vakya (Collateral history)                    | Cha.Vi.4/6; Chakrapanidatta    | Bystander/caregiver history in paediatric, psychiatric, geriatric cases   |
| Anukta Vyadhi guidance (Analogical reasoning from text) | Cha.Vi.4/12                    | Evidence gap protocols; off-label drug use based on mechanism of action   |

Cha.Vi. = Charaka Samhita, Vimana Sthana

### 3.3 Pratyaksha — Direct Sensory Perception: The Physical Examination Framework

*Pratyaksha* is defined in the chapter as 'that which is comprehensible by an individual through his own senses and mind' [Cha.Vi.4/4]. The chapter goes on to provide a systematic

enumeration of clinical information accessible through each of the five sensory modalities — making this the world's earliest documented sensory-organ-based clinical examination framework.<sup>[8]</sup>



**Table 3: Sense-Organ-Based Clinical Examination under Pratyaksha Pariksha [Cha.Vi.4/7–8]**

| Sense Organ            | Sanskrit Term               | Clinical Parameters Assessed (Classical)                                                                                                                 | Modern Examination Equivalent                                                                           |
|------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Vision                 | Chakshu / Darshana          | Varna (colour of skin, tongue, sclera, urine, faeces); Akriti (body habitus); Svaroop (general appearance); Netra (eyes)                                 | Inspection — icterus, pallor, cyanosis, central obesity; General Physical Examination                   |
| Touch / Palpation      | Tvak / Sparshana            | Ushna-Sheeta (temperature); Snigdha-Rooksha (skin texture/moisture); Mrudu-Kathina (consistency of swellings); Sphanda (pulsatile mass); Shotha (oedema) | Palpation — pyrexia, dry/moist skin, texture of lumps, oedema grading, pulse assessment                 |
| Hearing / Auscultation | Shrotra / Shravana / Shabda | Vak (voice quality); Kshavatu (sneezing sounds); Udgara (belching); Abnormal body sounds; Intestinal peristalsis                                         | Auscultation — vesicular/bronchial sounds; bowel sounds; cardiac murmurs; voice resonance tests         |
| Taste                  | Rasana                      | Taste of bodily secretions (sweat, urine) — assessed indirectly via observations such as attraction of insects to urine                                  | Glycosuria detection (Prameha/Madhumeha); ketonuria; uraemic fetor — modern biochemical tests           |
| Smell / Olfaction      | Ghrana / Gandha             | Mukha Gandha (oral fetor); Sveda Gandha (abnormal sweat odour); Mala/Mutra Gandha (faecal/urinary odour); Kshata Gandha (wound odour)                    | Fetor hepaticus; ketotic breath; uraemic breath; anaerobic wound infection — all clinically established |

Source: Charaka Samhita, Vimana Sthana 4/7–8; cross-referenced with Ashtanga Hridayam, Sutra Sthana 1/22.

Several applied observations merit special emphasis:

### 3.3.1 Gustatory Examination and Glycosuria

The classical description of detecting the sweet taste of urine — via the observation that insects (bees/ants) are attracted to the patient's urine — as a sign of *Madhumeha* (honey-like urine, equivalent to diabetes mellitus) represents one of the earliest documented methods of detecting glycosuria in world medical history.<sup>[9]</sup> This indirect gustatory observation is not merely of historical interest: the principle of detecting metabolic substrates in urine is the direct precursor of urine dipstick testing, which remains a cornerstone of point-of-care diabetes screening globally.

### 3.3.2 Olfactory Examination — Ancient Breath Analysis

Charaka's formal inclusion of *Gandha Pariksha* (olfactory examination) of breath, wound secretions, and bodily fluids anticipates the contemporary diagnostic practice of breath analysis, which is now an active field of biomedical research. The following correlations are well established in modern medicine: *Mukhagandha* in hepatic failure (fetor hepaticus); fruity/acetone breath in diabetic ketoacidosis; uraemic fetor in renal failure; putrid breath in anaerobic pulmonary infections.<sup>[10]</sup>

### 3.3.3 The Structural Completeness of Pratyaksha Pariksha

The five-sense-based examination framework of *Pratyaksha* corresponds structurally to the IPPA sequence of modern clinical examination (Inspection–Palpation–Percussion–Auscultation). What is notable is that Charaka's framework is *multi-sensory and organ-specific* — each sense is assigned its own clinical domain and specific parameters. This prevents the cognitive shortcuts and examination omissions that arise from

an unsystematic approach, a well-documented source of clinical error in contemporary medicine.<sup>[11]</sup>

### 3.4 Anumana — Logical Inference: The Art of Clinical Reasoning

**"अनुमानं खलु तर्को युक्त्यपेक्षः॥४॥"**

[Cha.Vi.4/4]

*Anumana* is defined as reasoning (*Tarka*) supported by logical interpretation (*Yukti*). Its operative principle is articulated through the *Dhuma-Vahni Nyaya* (the maxim of smoke and fire): just as the presence of smoke invariably indicates fire, the presence of a known clinical sign (*Linga*) indicates its invariably associated disease process (*Lingi*).<sup>[12]</sup> This is the classical Ayurvedic formulation of pathognomonic sign-to-disease inference — the bedrock of clinical diagnosis in all medical systems.

The applied scope of *Anumana* extends across four major clinical domains:

- (1) Pathogenesis Inference (Samprapti Anumana): From visible signs and symptoms, the Ayurvedic clinician infers the underlying sequence of Dosha vitiation, Dhatu involvement, and Srotas obstruction — reconstructing the full Samprapti (pathophysiology) from clinical evidence. This is analogous to modern pathophysiological reasoning from clinical signs to organ dysfunction.
- (2) Prognostic Inference (Sadhyasadyata Anumana): The physician infers prognosis — curable (*Sadhya*), palliable (*Yapya*), or incurable (*Asadhya*) — from observed clinical signs. This maps directly onto the modern concept of prognostic scoring systems that integrate clinical variables to generate risk stratification.





(3) Pharmacological Inference (Dravya Karma Anumana): From the known properties (Guna, Rasa, Vipaka, Virya) of a drug and the known pathophysiology of the disease, the clinician infers the drug's likely therapeutic effect. This mirrors the pharmacokinetic and pharmacodynamic reasoning that underlies rational prescribing in modern medicine.

(4) Anukta Vyadhi Management (Novel Disease Protocol): The chapter provides one of the earliest formal guidelines for managing diseases not described in classical texts [Cha.Vi.4/12] — directing the physician to apply reasoning by analogy from known pathophysiological principles.

**Table 4: Applied Domains of Anumana in Clinical Medicine**

| Domain of Anumana                        | Classical Application                                              | Contemporary Parallel                                                                      |
|------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Samprapti Anumana (Pathogenesis)         | Inferring Dosha-Dhatu-Sroto involvement from signs/symptoms        | Pathophysiological diagnosis; organ dysfunction inference from clinical examination        |
| Sadhyasadyata Anumana (Prognosis)        | Inferring prognosis from Arishta Lakshanas and physical signs      | APACHE II, SOFA, Child-Pugh scores; cancer staging; prognosis from imaging findings        |
| Dravya Karma Anumana (Pharmacology)      | Inferring drug action from Guna-Rasa-Virya on Dosha-Dushya         | Pharmacodynamic reasoning; off-label prescribing based on mechanism of action              |
| Anukta Vyadhi Anumana (Novel disease)    | Managing undescribed diseases by analogical reasoning from Pramana | COVID-19 management protocols; rare disease management based on pathophysiological analogy |
| Arishta Anumana (Death-predicting signs) | Inferring imminent death from observed signs [Cha.In.1/4]          | Clinical assessment of dying patients; withdrawal of futile treatment decisions            |

### 3.5 Integration of the Three Pramanas: The Clinical Imperative

"आप्ततश्चोपदेशेन प्रत्यक्षकरणेन च

अनुमानेन च व्याधीन् सम्यग्विद्याद्विचक्षणः॥९॥"

[Cha.Vi.4/9]

Translation: "A wise physician should thoroughly examine and understand diseases through three means: the instructions of authoritative sages (Aptopadesha), direct observation/perception (Pratyaksha), and logical inference (Anumana)."

The integrative application of all three pramanas is not optional in Charaka's framework — it is mandatory. The chapter explicitly warns that no single pramana is sufficient alone

[Cha.Vi.4/9]. This injunction is clinically profound: *Aptopadesha* without *Pratyaksha* produces armchair diagnosis unverified by clinical examination; *Pratyaksha* without *Aptopadesha* produces uninformed empiricism; and *Anumana* without both produces speculative reasoning disconnected from evidence. The prescribed sequence — *Aptopadesha* → *Pratyaksha* → *Anumana* — mirrors the modern clinical method: study the relevant literature → examine the patient → reason toward a diagnosis.<sup>[13]</sup>

### 3.6 Nested Examination Systems within the Trividha Pariksha Framework

The *Trividha Pariksha* framework of Ch.Vi.4 serves as the epistemological superstructure within which several nested clinical examination systems are operationalised. Each nested system addresses a specific level of clinical inquiry:

**Table 5: Nested Examination Systems within the Trividha Pariksha Framework**

| Examination System            | Components                                                                                               | Primary Pramana Utilised           | Clinical Domain / Purpose                                                             |
|-------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| Trividha Pariksha (3-fold)    | Aptopadesha, Pratyaksha, Anumana                                                                         | All three in integration           | Epistemological framework — 'How to know'; basis of all clinical cognition            |
| Shadvidha Pariksha (6-fold)   | Darshana, Sparshana, Prashna, Pariksha, Upashaya, Anupashaya [Su.Sa.Su.10/5]                             | Pratyaksha + Anumana               | Expanded clinical examination; Upashaya (therapeutic test) for differential diagnosis |
| Ashtavidha Pariksha (8-fold)  | Nadi, Mutra, Mala, Jihva, Shabda, Sparsha, Druk, Akriti [Yogaratanakara]                                 | Pratyaksha primarily               | Structured physical examination; Dosha-Dhatu functional assessment                    |
| Dashavidha Pariksha (10-fold) | Prakriti, Vikriti, Sara, Samhanana, Pramana, Satmya, Satva, Aharasakti, Vyayamasakti, Vaya [Cha.Vi.8/94] | Aptopadesha + Pratyaksha + Anumana | Comprehensive patient profiling; personalised treatment planning                      |

Su.Sa.Su. = Sushruta Samhita, Sutra Sthana; Cha.Vi. = Charaka Samhita, Vimana Sthana.



## 4. DISCUSSION

### 4.1 The Trividha Pariksha as a Complete Epistemological System

The framework of Trividha Pariksha is not merely a list of examination techniques — it is a complete epistemological system governing what can be known, how it can be known, and how different knowledge-claims can be validated and integrated. Its design reflects a sophisticated awareness of the limitations of each knowledge source and the errors that arise from over-reliance on any single method.

Charaka's insistence that the physician who is 'well versed in all three pramanas makes no error' [Cha.Vi.4/11] is epistemologically equivalent to Karl Popper's principle of triangulation in scientific method — the validation of a hypothesis through multiple independent methodological approaches.<sup>[14]</sup> In medicine, this translates to the integration of clinical history (*Aptopadesha*), physical examination (*Pratyaksha*), and clinical reasoning (*Anumana*) before reaching a diagnosis — a sequence that remains the gold standard of clinical method today.

### 4.2 Correlation with Evidence-Based Medicine (EBM)

The analogy between *Trividha Pariksha* and the three pillars of Evidence-Based Medicine (EBM) as defined by Sackett et al. (1996) is structurally precise:<sup>[15]</sup>

*Aptopadesha* ↔ Best Research Evidence: Both direct the clinician to begin with the best available authoritative knowledge before direct clinical engagement.

*Pratyaksha* ↔ Clinical Expertise: Both emphasise the irreplaceable role of trained direct observation and skilled physical examination in clinical decision-making.

*Anumana* ↔ Patient Values & Clinical Reasoning: Both integrate the specific context of the individual patient into the diagnostic and therapeutic decision — moving from general principles to particular application through reasoned inference.

### 4.3 Upashaya-Anupashaya: The Therapeutic Diagnostic Test

The *Shadvidha Pariksha* concept of *Upashaya* (therapeutic test) and *Anupashaya* (negative therapeutic test) is a uniquely applied Ayurvedic contribution to clinical diagnosis.<sup>[16]</sup> When standard examination fails to definitively differentiate between two disease conditions, the Ayurvedic physician administers a therapeutic agent whose action is known and observes the clinical response. Improvement confirms the hypothesis (*Upashaya*); worsening refutes it (*Anupashaya*). This is directly equivalent to the modern 'Ex-Juvantibus' approach — diagnosis by therapeutic response — employed in conditions such as: empirical PPI therapy for GERD diagnosis; anti-TB treatment response for smear-negative TB; empirical antifungal therapy in febrile neutropenia. The *Upashaya-Anupashaya* principle thus stands as one of Ayurveda's most clinically applicable and translationally significant contributions to diagnostic methodology.

### 4.4 Anumana and Bayesian Clinical Reasoning

The *Anumana* framework of *Dhuma-Vahni Nyaya* — inferring a disease process from its signs through the principle of invariable concomitance (*Vyapti*) — is structurally identical to

Bayesian diagnostic reasoning.<sup>[17]</sup> In Bayesian terms: the physician begins with a prior probability of a disease based on *Aptopadesha* (textual knowledge and prevalence data); updates this probability based on new clinical evidence from *Pratyaksha* (examination findings); and arrives at a posterior diagnosis through *Anumana* (inference from the combined evidence). The Bayesian updating process — where new evidence modifies the pre-test probability to yield a post-test probability — is formally equivalent to the *Linga-Lingi* relationship in Ayurvedic inference theory.

### 4.5 Pratyaksha and Modern Bedside Clinical Examination: A Recovering Art

A growing body of evidence in contemporary medicine documents the declining quality of bedside clinical examination skills — largely attributed to over-reliance on diagnostic technology. Studies show that 70–80% of diagnoses can be made from clinical history and physical examination alone in many clinical settings. Charaka's framework — by systematically organising examination by sensory modality and assigning specific clinical parameters to each sense — provides a structured, teachable, and reproducible physical examination protocol that could contribute meaningfully to a renaissance of bedside clinical skills.

The structured *Pratyaksha Pariksha* framework — encompassing all five senses and their specific clinical applications — is directly translatable into a structured clinical examination checklist, a format that modern clinical training uses extensively (e.g., Objective Structured Clinical Examination — OSCE stations are organised precisely on this principle).

### 4.8 Critical Appraisal and Limitations

While the *Trividha Pariksha* framework is epistemologically robust and clinically applicable, certain limitations must be acknowledged:

(i) Standardisation challenge: Unlike modern clinical examinations with validated reliability coefficients (e.g., kappa statistics for inter-examiner agreement), *Nadi Pariksha* and other *Pratyaksha*-based methods lack universally standardised protocols, limiting their reproducibility.

(ii) Subjectivity of *Anumana*: Inference is only as reliable as the quality of prior knowledge (*Aptopadesha*) and the accuracy of observation (*Pratyaksha*). In the absence of rigorous standardisation of these two antecedents, inferential errors can occur.

(iii) Evolving knowledge base: The *Aptopadesha* of modern medicine is a dynamic, continuously updated entity (systematic reviews, meta-analyses, RCTs). Classical Ayurvedic texts, while foundational, require continuous scholarly update and reinterpretation to maintain clinical relevance.

## 5. CONCLUSION

The *Trividha Roga Vishesh Vigyaniam Vimana* (Charaka Samhita, Vimana Sthana, Chapter 4) is a landmark chapter in the history of medical epistemology. Its framework of *Aptopadesha*, *Pratyaksha*, and *Anumana* constitutes a logically complete, practically implementable, and scientifically valid



system for the specific investigation of diseases. The nested examination systems embedded within this framework — Trividha, Shadvidha, Ashtavidha, and Dashavidha Pariksha — collectively span the entire clinical encounter, from epistemological foundation to personalised patient profiling.

The present comprehensive review demonstrates that the applied aspects of this chapter extend far beyond classical Ayurvedic clinical practice. They encompass: a structured, multi-sensory physical examination framework; a formal protocol for evidence-based clinical reasoning; a pioneering system of personalised medicine through Prakriti and Dashavidha Pariksha; a validated approach to diagnostic testing through Upashaya-Anupashaya; and a formal guideline for managing novel and emerging diseases through analogical inference. The chapter's striking convergence with evidence-based medicine, Bayesian reasoning, and precision medicine confirms that the principles of the Trividha Pariksha framework reflect universal features of sound clinical science.

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