

CONCEPTUAL STUDY OF *DOOSHI VISHA* AND ITS
CORRELATION WITH ALLERGIC SKIN DISEASES: A
COMPREHENSIVE REVIEW

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Article Received on 15 Feb. 2026,
Article Revised on 05 March 2026,
Article Published on 16 March 2026,
<https://doi.org/10.5281/zenodo.19082056>

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How to cite this Article: Dr. Krishna Jeevan Tiwari¹, Dr Pooja Soni^{2*} (2026). Conceptual Study Of Dooshi Visha And Its Correlation With Allergic Skin Diseases: A Comprehensive Review. World Journal of Pharmaceutical Research, 15(6), 1428–1437.

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ABSTRACT

Background: *Dooshi Visha*, described in *Ayurvedic* classics as cumulative low-potency toxins from *Viruddha Ahara*, *Agnimandya*, and environmental factors, correlates with chronic allergic skin disorders like urticaria and eczema by disrupting *Rakta Dhatu* and immunity. **Objective:** This review examines the conceptual framework of *Dooshi Visha* and its pathogenesis in relation to allergic skin manifestations, integrating *Ayurvedic* and modern immunological perspectives. **Methods:** Comprehensive analysis of classical texts (*Charaka*, *Sushruta*) and contemporary literature on *Dooshi Visha*'s role in hypersensitivity reactions, including *Nija/Bahya Gara Visha* effects on *Twak Vikara*. **Results:** *Dooshi Visha* induces *Kapha-Pitta* vitiation, *Ojas kshaya*, and IgE-mediated inflammation, manifesting as edema, pruritus, and dermatitis; parallels modern allergen-induced mast cell degranulation. **Conclusion:** *Shodhana* and *Shamana* therapies offer holistic detoxification,

bridging *Ayurveda* with allergen avoidance strategies. Empirical validation is recommended for clinical application.

KEYWORDS: *Dooshi Visha*, Allergic, Skin manifestation, *Visha*, *Viruddhahara*.

INTRODUCTION

Dooshi Visha is a distinct subtype of *Visha* described in classical *Ayurvedic* literature, characterized by its low potency, cumulative nature, and delayed manifestation. Unlike acute poisoning, it remains latent within the body due to incomplete elimination or repeated exposure to etiological factors such as *Viruddha Ahara* (incompatible diet), *Agnimandya* (impaired digestive fire), environmental pollutants, and seasonal influences.^[1,2] Classical texts explain that such retained toxins localize in *Rakta* and other *Dhatus*, vitiating *Kapha* and *Pitta Dosha*, ultimately leading to inflammatory and dermatological disorders. The skin being closely associated with *Rakta Dhatu* becomes a primary site for the expression of vitiated toxins, manifesting as *Kotha* (urticaria), *Kandu* (pruritus), *Pitiika* (eruptions), and *Vaivarnya* (discoloration).^[3]

From a modern biomedical perspective, allergic skin diseases such as urticaria, atopic dermatitis, and contact dermatitis are immune-mediated inflammatory disorders driven by hypersensitivity reactions and barrier dysfunction.^[4,5] Environmental allergens, dietary triggers, and xenobiotics contribute to immune dysregulation through IgE-mediated mast cell activation and T-cell-mediated Type IV hypersensitivity responses.^[6] Chronic exposure to pollutants and dietary additives may promote systemic inflammation and oxidative stress, paralleling the *Ayurvedic* concept of bioaccumulative toxicity.^[7]

Thus, the framework of *Dooshi Visha* offers a holistic model integrating digestion, immunity, and environmental exposure in the pathogenesis of allergic dermatoses. Exploring this correlation may provide a conceptual bridge between *Ayurvedic* detoxification principles and modern immunopathology.

METHODS

Comprehensive analysis of classical texts i.e. *Charaka*, *Sushruta*, *Vagbhatta* and contemporary literature on *Dooshi Visha*'s role in hypersensitivity reactions, including *Nija/Bahya Gara Visha* effects on *Twak Vikara*.

Literature Review: The Pathophysiology of *Dooshi Visha* in Allergic Dermatoses

The conceptual framework of *Dooshi Visha* serves as an ancient precursor to modern toxicology and immunopathology. This review explores the mechanisms through which "latent toxicity" manifests as chronic skin hypersensitivity.

दूषीविषं तु शोणितदुष्ट्याः किटिमकोठलिङ्गं च विषमेकैकं दोषं सन्दूष्य हरत्यसूनेवम्॥

क्षरति विषतेजसाऽसृक् तत् खानि निरुध्य मारयति जन्तुम् पीतं मृतस्य हृदि तिष्ठति दष्टविद्धयोर्दशदेशे स्यात्॥

नीलौष्ठदन्तशैथिल्यकेशपतनाङ्गभङ्गविक्षेपाः शिशिरैर्न लोमहर्षो नाभिहते दण्डराजी स्यात् क्षतजं क्षताञ्च
नायात्येतानि भवन्ति मरणलिङ्गानि॥

Charaka samhita chikitsa 23/31-34

जीर्णं विषघ्नौषधिभिर्हतं वा दावाग्निवातातपशोषितं वा ॥ स्वभावतो वा गुणविप्रहीनं विषं हि

दूषीविषतामुपैति | वीर्याल्पभावान्न निपातयेत्तत् कफावृतं वर्षगणानुबन्धि ॥ २६॥

तेनादितो भिन्नपुरीषवर्णो विगन्धवैरस्यमुखः पिपासी |

मूर्च्छन् वमन् गद्गदवाग्निषण्णो भवेच्च दुष्योदरलिङ्गजुष्टः ॥ आमाशयस्थे कफवातरोगी पक्वाशयस्थेऽनिलपित्त
रोगी |

भवेन्नरो ध्वस्तशिरोरुहाङ्गो विलूनपक्षस्तु यथा विहङ्गः। स्थितं रसादिष्वथवा यथोक्तान् करोति धातुप्रभवान्

विकारान् | कोपं च शीतानिलदुर्दिनेषु यात्याशु... | Sushruta kalpa 2/25-30

The Ayurvedic Etiopathology of Dooshi Visha

According to *Sushruta Samhita*, *Dooshi Visha* is not a specific toxin but a state of any poison—whether vegetable, animal, or chemical—that has become weakened by anti-poisonous treatments or natural degradation.^[8] Because it is *Alpa-virya* (low potency), it does not kill the host immediately but remains enveloped (*Avrita*) by *Kapha* for years.^[9]

Factors contributing to its retention include

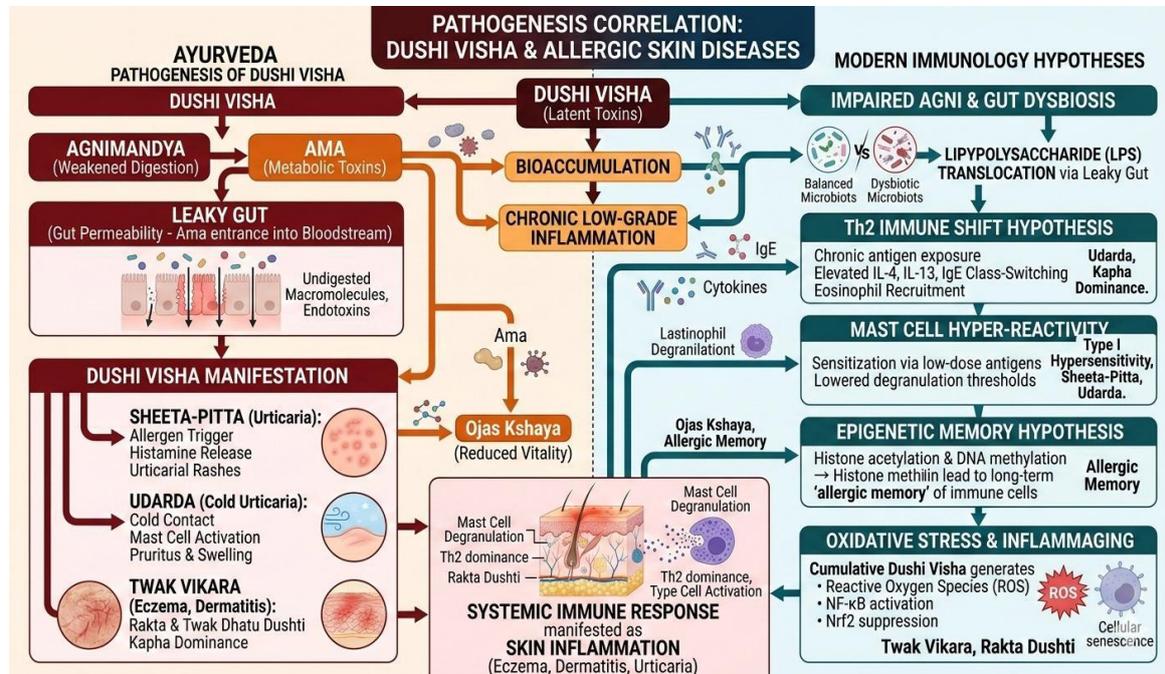
- **Desha (Geography):** Marshy lands (*Anupa Desha*) aggravate the toxins.
- **Kala (Season):** Cold winds and rainy seasons trigger latent toxins.
- **Anna (Diet):** Constant intake of *Viruddha Ahara* (incompatible foods like milk and fish).^[10]

Pathogenesis (*Samprapti*) and *Dhatu Gatatva*

When *Dooshi Visha* is triggered, it vitiates the *Rakta Dhatu* (blood tissue) first. Since *Twak* (skin) is the *Upadhatu* of *Rakta*, the symptoms manifest externally.

- **Vitiation of Doshas:** It primarily disturbs *Kapha* and *Pitta*. *Pitta* leads to inflammation (*Daha*) and redness (*Raga*), while *Kapha* induces itching (*Kandu*) and swelling (*Shotha*).^[11]

- **Ojo-Kshaya:** Chronic presence of these toxins depletes *Ojas* (innate immunity), making the individual hypersensitive to minor environmental triggers—a state analogous to the "atopic march" in modern medicine. [12]



Nija and Bahya Gara Visha: Environmental Impact

Modern "*Gara Visha*" includes artificial food colors, preservatives, and environmental pollutants (Lead, Mercury, Microplastics). These act as **Haptens**—small molecules that, when bound to proteins in the skin, become antigenic and trigger T-cell mediated Type IV hypersensitivity. [13]

Management Strategies: *Shodhana and Shamana*

The literature suggests that since *Dooshi Visha* is deeply seated in the *Dhatus*, simple pacification (*Shamana*) is insufficient.

- **Vamana (Emesis):** Effective for toxins localized in the upper body and Kapha-dominated skin issues.
- **Virechana (Purgation):** The gold standard for *Rakta-Pitta* disorders like Eczema and chronic Urticaria. [14]
- **Dooshi Vishari Agada:** A specific formulation mentioned in *Ashtanga Hridaya* containing herbs like *Pippali*, *Lodhra*, and *Jatamansi* which possess adaptogenic and anti-histaminic properties. [15]

Modern Immunological Correlation: Bioaccumulation and Hypersensitivity

The “latent” nature of *Dooshi Visha* can be scientifically correlated with Bioaccumulation and Chronic Low-Grade Inflammation.

Th2 Immune Shift Hypothesis

Dooshi Visha promotes a Th2-biased immune response through chronic antigen exposure, elevating IL-4 and IL-13 cytokines that drive IgE class-switching and eosinophil recruitment. This mirrors *Ayurvedic Kapha* dominance in *Udarda*, leading to persistent urticaria via B-cell activation and mast cell priming.^[16,17]

Microbiome Dysbiosis Hypothesis

Impaired *Agni* causes gut dysbiosis, allowing lipopolysaccharides (LPS) from altered microbiota to translocate via leaky gut, triggering skin inflammation through TLR4 signaling. This explains *Ama*-mediated *Twak* vikaras like eczema, where dysbiotic Firmicutes/Bacteroidetes shifts exacerbate Th2 responses.^[18,19]

Oxidative Stress & Inflammaging

Cumulative *Dooshi Visha* generates reactive oxygen species (ROS), inducing cellular senescence and inflammaging via NF-κB activation, which sustains low-grade inflammation in Rakta and *Twak* dhatus. This parallels chronic dermatitis from environmental toxins, with Nrf2 pathway suppression.^[20,21]

Epigenetic Memory Hypothesis

Latent toxins alter histone acetylation and DNA methylation in immune cells, creating an “allergic memory” that amplifies responses to innocuous triggers, akin to *Ojas kshaya*. This supports long-term hypersensitivity in *Sheeta-Pitta* post-exposure.^[22]

Mast Cell Hyper-Reactivity

Dooshi Visha sensitizes skin mast cells via chronic low-dose antigens, lowering degranulation thresholds for Type I reactions like cold urticaria, modulated by *Ayurvedic Agadas* targeting stem cell factor (SCF) pathways.^[23]

Type I Hypersensitivity (IgE-Mediated)

In conditions like *Sheeta-Pitta* (Urticaria), the body reacts to allergens (*Visha*) by releasing histamine from mast cells. *Ayurvedic* texts describe *Udarda* as a condition triggered by “cold contact,” which matches the modern description of Cold Urticaria.^[24]

The Gut-Skin Axis

Ayurveda emphasizes *Agnimandya* (weak digestion) as the root of *Ama* (metabolic toxins). Modern research confirms that intestinal permeability (“Leaky Gut”) allows undigested macromolecules and bacterial endotoxins to enter the bloodstream, triggering systemic immune responses that manifest as Eczema and Dermatitis.^[25]

<i>Ayurvedic Concept</i>	<i>Modern Immunological Hypothesis</i>	<i>Biological Mechanism</i>
<i>Dooshi Visha / Kapha Dominance</i>	Th2 Immune Shift	Chronic antigen exposure drives IL-4/IL-13 cytokines, leading to IgE class-switching and eosinophil recruitment.
<i>Agnimandya & Ama</i>	Gut-Skin Axis / Leaky Gut	Intestinal permeability allows LPS (endotoxins) to translocate, triggering systemic inflammation via TLR4 signaling.
<i>Visha Persistence (Latent)</i>	Bioaccumulation & Inflammaging	Accumulation of toxins generates ROS, activating NF-κB and inducing cellular senescence (low-grade inflammation).
<i>Ojas Kshaya</i>	Epigenetic Memory	Changes in DNA methylation and histone acetylation create a "primed" immune state that overreacts to minor triggers.
<i>Udarda / Sheeta-Pitta</i>	Mast Cell Hyper-Responsiveness	Lowered degranulation thresholds; chronic sensitization leads to Type I Hypersensitivity (e.g., Cold Urticaria).
<i>Rakta & Twak Dhatu Dushti</i>	Oxidative Stress & Nrf2 Suppression	Environmental toxins suppress the Nrf2 pathway, leading to chronic dermatitis and skin tissue degradation.

DISCUSSION

The concept of *Dooshi Visha* provides a multidimensional framework to understand the chronicity and recurrence of allergic skin diseases. Classical *Ayurveda* describes *Dooshi Visha* as a low-grade, retained toxin enveloped by *Kapha* and capable of aggravation under conducive factors, leading to *Rakta* and *Twak Dushti*.^[26,27] This latent persistence closely parallels the modern understanding of chronic antigen exposure and immune deviation toward a Th2-dominant response. Continuous exposure to environmental and dietary antigens stimulates IL-4 and IL-13 secretion, promoting IgE class-switch recombination and eosinophilic inflammation—hallmarks of atopic dermatitis and urticaria.^[28,29] *Agnimandya* and *Ama* formation further strengthen the gut–skin axis hypothesis. Impaired digestion increases intestinal permeability, allowing endotoxins such as lipopolysaccharide (LPS) to translocate into systemic circulation. LPS activates Toll-like receptor 4 (TLR4) signaling and downstream NF-κB pathways, resulting in chronic low-grade inflammation.^[30,31] This mechanism mirrors the *Ayurvedic* notion that improperly metabolized substances become

pathogenic and circulate through *Rasavaha* and *Raktavaha Srotas*, ultimately manifesting in the skin.

The persistence of *Visha* is conceptually comparable to bioaccumulation and inflammaging. Chronic exposure to pollutants and xenobiotics generates reactive oxygen species (ROS), suppresses antioxidant pathways such as Nrf2, and induces sustained NF-κB activation, thereby maintaining inflammatory cascades and tissue degeneration.^[32,33] This oxidative milieu correlates with *Rakta Dushti* and *Twak Vikara* described in *Samhitas*. *Ojas Kshaya* may be interpreted through the lens of epigenetic immune memory, where DNA methylation and histone modifications create a “primed” immune phenotype prone to exaggerated hypersensitivity reactions.^[34] Similarly, *Udarda* and *Sheeta-Pitta* resemble mast cell hyper-reactivity with reduced degranulation thresholds, leading to rapid histamine release and Type I hypersensitivity manifestations.

Thus, *Dooshi Visha* integrates digestive impairment, immune dysregulation, oxidative stress, and environmental toxicity into a unified etiopathogenic model. This conceptual bridge not only contextualizes allergic skin diseases within *Ayurvedic* pathology but also suggests that detoxification (*Shodhana*), gut restoration, and immune modulation may have translational relevance in contemporary dermatological care.

CONCLUSION

Dooshi Visha offers a comprehensive *Ayurvedic* model for understanding chronic allergic skin diseases. Its features—latent persistence, cumulative toxicity, *Rakta–Twak* involvement, and *Kapha–Pitta* aggravation—parallel modern mechanisms such as Th2 polarization, IgE-mediated mast cell activation, oxidative stress, and bioaccumulation. The concepts of *Agnimandya* and *Ama* correlate with gut permeability and systemic inflammation, while *Ojas Kshaya* reflects immune dysregulation. Integrating *Nidana Parivarjana*, *Shodhana*, and *Shamana* therapies with contemporary allergen avoidance and immunomodulation strategies may provide a holistic approach. Further interdisciplinary clinical research is necessary to validate this conceptual bridge and enhance evidence-based integration.

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