



International Journal of Indian Medicine

www.ijim.co.in

ISSN: 2582-7634

Volume - 6, Issue - 10

October 2025



INDEXED



International Journal of Indian Medicine



International Category Code (ICC): ICC-1702

International Journal Address (IJA): IJA.ZONE/258276217634

Different pathologies of raktadushti : A Classical and Contemporary Ayurvedic Perspective

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ABSTRACT:

Rakta Dhatu (blood tissue) occupies a vital role in Ayurveda as the Jeevana Dhatu, responsible for sustaining life, transporting nutrients, and maintaining physiological balance. Its vitiation is implicated in a broad spectrum of disorders affecting the skin, joints, circulatory system, and systemic health. This article presents a comprehensive review of the Samprapti (pathogenesis) of Rakta Dhatu by synthesizing classical Ayurvedic texts with contemporary clinical insights. Various Samprapti patterns involving Rakta, such as Pitta-Rakta Dushti, Vata-Rakta Samprapti, Kapha-Rakta Dushti, Sama Rakta Dushti, Avarana, and conditions of Rakta Kshaya (depletion) and Vriddhi (excess), are analyzed in detail. The study elucidates the dynamic interplay of Dosha-Dushya interactions and highlights the clinical manifestations and etiological factors associated with each pattern. Understanding these mechanisms is critical for accurate diagnosis, individualized treatment planning, and prevention of Rakta-related diseases. The integration of classical Ayurvedic principles with modern clinical knowledge offers a holistic framework for managing blood tissue disorders and underscores the potential for future research to validate and expand these traditional concepts.

KEYWORDS: Rakta Dhatu, Samprapti, Vatarakta, Raktapitta, Rakta Dushti, Ayurveda, Pathogenesis, Dosha-Dushya Sammurchana.

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How to cite this article: Patil S., Chidre M., Patange P., Lad S. Different pathologies of raktadushti : A Classical and Contemporary Ayurvedic Perspective. Int J Ind Med 2025;6(10):19-24

DOI: <http://doi.org/10.55552/IJIM.2025.61005>

INTRODUCTION:

Ayurveda, the ancient Indian science of life, emphasizes the harmonious balance of **Tridosha**—Vata, Pitta, and Kapha—alongside the **Sapta Dhatus** (seven bodily tissues) and **Malas** (waste products) for maintaining optimal health. Within this framework, **Rakta Dhatu** (blood tissue) occupies a uniquely pivotal role. It is intimately linked with **Prana** (life force) and is known as the **Jeevana Dhatu**, or the life-sustaining tissue. Rakta's functions are multifaceted: it is the primary medium for Pitta Dosha, transports oxygen and nutrients, and nourishes vital organs including the liver, spleen, skin, and heart. Disruptions in Rakta's quality or quantity—termed **Rakta Dushti** (vitiation of blood)—manifest in a wide range of disorders, from **Kushta** (skin diseases) to **Raktapitta** (bleeding disorders), inflammatory syndromes, and systemic diseases. The classical Ayurvedic understanding of disease causation, known as **Samprapti**, traces the progression from initial Dosha imbalance through stages of accumulation (*Sanchaya*), aggravation (*Prakopa*), spreading (*Prasara*), localization (*Sthanasamsraya*), manifestation (*Vyakti*), and eventual differentiation or complication (*Bheda*). Given the complex interrelation between Doshas and Rakta Dhatu, comprehending the various types of **Rakta Sampraptis** (pathogenic processes involving Rakta) is essential for precise diagnosis and individualized treatment. This article aims to systematically analyze the Samprapti of Rakta Dhatu, integrating classical Ayurvedic texts and modern clinical understanding to provide a holistic perspective on blood tissue pathogenesis.

Methodology

This review employs a qualitative, analytical approach based on a thorough examination of primary classical Ayurvedic sources, including:

- *Charaka Samhita* (Nidana Sthana, Vimana Sthana)
- *Sushruta Samhita* (Sharira Sthana, Nidana Sthana)
- *Ashtanga Hridaya* (Sutrasthana, Nidana Sthana)
- *Madhava Nidana*
- *Bhava Prakasha*

Classical commentaries such as Chakrapani (on Charaka), Dalhana (on Sushruta), and Arundatta (on Ashtanga Hridaya) were utilized to clarify interpretations. Secondary literature comprising peer-reviewed Ayurvedic journals, modern research papers, and clinical reports were reviewed to correlate traditional knowledge with current clinical practices.

Key parameters for analysis included:

- Types of Samprapti (Dosha-centric, Dhatu-centric, or combined)
- Stages of vitiation from *Sanchaya* to *Bheda*
- Dushya involvement, specifically Rakta with other tissues or Malas
- Clinical correlates of each Samprapti pattern
- Nidana (etiological factors) and Lakshanas (clinical features)

The findings were collated, synthesized, and presented under thematic sections detailing the principal Sampraptis involving Rakta Dhatu.

Results and Discussion**1. Pitta-Rakta Dushti Samprapti**

Diseases: Raktapitta (bleeding disorders), Twakvikara (skin diseases), Netra Roga (eye diseases)

Dosha Involved: Pitta

Pathogenesis:

Pitta Dosha, endowed with *ushna* (hot), *tikshna* (sharp), and *sukshma* (subtle) qualities, primarily resides in Rakta Dhatu, which acts as its natural abode (*Ashraya*). Aggravation of Pitta arises from dietary

indiscretions such as excessive intake of sour, salty, and pungent foods (Amla, Lavana, Katu rasa), and lifestyle factors including anger, alcohol consumption, and exposure to heat. This excess Pitta intensifies the natural heat of Rakta, leading to its vitiation.

The vitiated Rakta causes inflammation and damage to blood vessels, resulting in clinical features like spontaneous bleeding from nose, gums, gastrointestinal tract, and skin manifestations such as erythema and rashes. This Pitta-Rakta Samprapti typifies disorders where blood becomes heated, thin, and prone to hemorrhage.

Stages of Samprapti:

- **Sanchaya (Accumulation):** Pitta accumulates excessively in *Amashaya* (stomach).
- **Prakopa (Aggravation):** Pitta intensifies, increasing acidity and heat.
- **Prasara (Spread):** Vitiated Pitta and Rakta disseminate through *Raktavaha Srotas* (blood channels).
- **Sthanasamsraya (Localization):** The aggravated Dosha and Dushya settle in affected tissues (e.g., skin, mucosa).
- **Vyakti (Manifestation):** Symptoms such as bleeding, burning sensations, redness appear.
- **Bheda (Differentiation):** Chronicity leads to ulcerations, necrosis, or systemic hemorrhagic conditions.

Classical Reference: *Charaka Samhita* describes Raktapitta as an outcome of Pitta vitiation in Rakta, highlighting the interplay of these two factors in pathogenesis.

2. Vata-Rakta Samprapti

Diseases: Vatarakta (rheumatoid arthritis, gout), severe joint inflammations

Dosha Involved: Vata with Rakta vitiation

Pathogenesis:

Vata, characterized by dry, cold, and mobile qualities, becomes aggravated by factors

such as excessive physical activity, fasting, and cold exposure. Simultaneously, Rakta vitiation occurs due to alcohol consumption, spicy foods, and suppression of natural urges. The contradictory qualities of Vata and Rakta (*Viruddhatwa*) exacerbate inflammation, leading to severe joint pain, swelling, and eventual deformities.

The pathology starts with the abnormal movement and accumulation of Vata in *Pakvashaya* (colon) and vitiated Rakta in *Yakrit* (liver) and *Pleeha* (spleen), followed by their spread to peripheral joints (*Sandhis*), causing localized pain and swelling.

Stages of Samprapti:

- **Sanchaya:** Vata and Rakta accumulate in their respective sites.
- **Prakopa:** Mutual aggravation occurs.
- **Prasara:** Spread to peripheral tissues.
- **Sthanasamsraya:** Lodgement in joints.
- **Vyakti:** Intense pain, swelling, discoloration.
- **Bheda:** Chronic joint deformity and disability.

Modern Correlation: The clinical presentation mirrors inflammatory arthritis and autoimmune joint diseases, suggesting a pathophysiological basis in Dosha-Dushya imbalance.

3. Kapha-Rakta Dushti Samprapti

Diseases: Kushta (leprosy, chronic skin diseases), Galaganda (thyroid swelling), Granthi (cysts), Pandu (anemia)

Dosha Involved: Kapha with Rakta

Pathogenesis:

Kapha's heavy, moist, and sticky nature leads to obstruction of Rakta channels, impairing blood circulation and leading to the accumulation of impurities in blood. This manifests as thick, cold, non-inflammatory swellings and skin discolorations.

For example, in **Pandu Roga** (anemia), there is a depletion of Rakta Dhatu concurrent with

an increase in *Medo Dhatu* (fat tissue), causing pallor and weakness. Kapha obstruction impedes nutrient and oxygen delivery via blood, manifesting as systemic sluggishness.

Clinical Features: Cold swellings, discoloration, sluggishness, and chronic skin eruptions.

4. Sama Rakta Dushti Samprapti

Diseases: Amavata (rheumatoid arthritis), Visarpa (herpes, herpes zoster), Jwara (fever syndromes)

Dosha Involved: Ama (toxins) with Rakta and Pitta/Vata

Pathogenesis:

Inadequate digestion leads to accumulation of *Ama*, sticky metabolic toxins that block microchannels (*Srotorodha*). *Ama* mixes with Rakta, impairing its flow and function, leading to *Sama Rakta Dushti*—a state where blood is both impure and functionally defective.

This results in systemic inflammation, stiffness, heaviness, sticky discharges, low-grade fever, and fatigue. These features correlate with autoimmune and chronic inflammatory conditions.

5. Avarana Samprapti Involving Rakta Dhatu

Diseases: Strotorodha (obstructive vascular diseases), Hypertension, Polycythemia

Dosha Involved: Vata obstructed by Rakta or vice versa

Pathogenesis:

Avarana refers to obstruction of normal Dosha flow. When Rakta obstructs the movement of Vata or when Vata vitiates and blocks Rakta circulation, the resulting occlusion impairs microcirculation, leading to ischemic symptoms, elevated blood pressure, tremors, and blood stagnation.

Clinical Picture: Headache, stiffness, tremors, and tissue degeneration.

This concept broadens Ayurveda's understanding of vascular and circulatory disorders.

6. Rakta Kshaya Samprapti (Depletion of Rakta)

Diseases: Pandu (anemia), Daurbalya (weakness), Karshya (emaciation), menstrual irregularities

Pathogenesis:

Rakta depletion occurs due to chronic blood loss, poor dietary intake, or debilitating illness. This results in reduced oxygen and nutrient supply to tissues, increasing Vata and Pitta Doshas due to loss of Rakta's cooling and nourishing properties.

Symptoms: Fatigue, pallor, dizziness, dry skin, amenorrhea.

The Ayurvedic approach involves *Brimhana* (nourishment) therapies alongside correcting causative factors.

7. Rakta Vriddhi Samprapti (Excess of Rakta)

Diseases: Nasagata Raktapitta (nosebleeds), Polycythemia vera-like conditions, hemorrhagic diatheses

Pathogenesis:

Excessive Rakta production, often driven by Pitta dominance or excessive intake of unctuous and rich foods, leads to increased heat and pressure within blood vessels, predisposing to bleeding and vascular congestion.

Symptoms: Recurrent bleeding episodes, redness, burning sensations, distension of veins.

Management includes **Rakta Shodhana** (blood purification) and dietary modifications.

8. Rakta Dushti in Pregnancy

Diseases: Garbhapata (abortion), Garbhasrava (uterine bleeding)

Pathogenesis:

During pregnancy, vitiation of Rakta by improper diet, stress, or Dosha imbalance

leads to uterine bleeding, threatening fetal viability.

Significance: This highlights the critical role of Rakta in fetal nourishment and maternal well-being.

DISCUSSION:

Rakta Dhatu, being susceptible to vitiation by all three Doshas, Ama, and Malas, is integral to both localized and systemic pathologies. The **Dosha-Dushya Sammurchana**—interaction between vitiated Doshas and tissues—varies according to Nidana (cause) and Agni (digestive/metabolic fire) status, influencing clinical presentation and disease progression. Notably, Rakta sometimes acts as a Dushya (affected tissue) and occasionally exhibits Dosha-like properties when excessively accumulated or functionally altered. Classical diseases such as *Vatarakta* and *Raktapitta* illustrate the dynamic interplay of Vata and Pitta with Rakta. The concept of *Avarana* elucidates mechanisms underlying vascular occlusions and hypertension. The presence of Ama in Rakta is a crucial factor in chronic inflammatory and autoimmune diseases, explaining clinical features of systemic fatigue and inflammation. Rakta Kshaya and Vriddhi correspond to anemia and polycythemia, respectively, illustrating Ayurveda's nuanced understanding of blood disorders. Understanding these Samprapti patterns guides personalized treatment strategies. For example:

- **Rakta Shodhana** (blood purification) for Rakta Vriddhi
- **Brimhana** (nourishment) therapies for Rakta Kshaya
- **Srotoshodhana** (channel cleansing) in Avarana pathologies

This individualization is a hallmark of Ayurvedic therapy, emphasizing disease prevention and health restoration through

lifestyle, diet, and Panchakarma interventions.

CONCLUSION:

Rakta Dhatu is central to sustaining life and health, with its imbalance precipitating a variety of disease conditions depending on the nature of Samprapti involved. A comprehensive understanding of Rakta-related pathogenesis enhances diagnostic accuracy, guides therapeutic decisions, and improves patient outcomes in Ayurvedic clinical practice. Future research should focus on clinical validation of these classical Samprapti models through modern diagnostics and explore integration of Ayurvedic treatments with contemporary medicine for holistic management of blood-related disorders.

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Source of Support: None declared

Conflict of interest: Nil

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