

Understanding of Raktamokṣaṇa and its Traditional Ayurvedic Perception and Generalized Mode of Action

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ABSTRACT

Background: *Raktamokṣaṇa* (therapeutic bloodletting) is an ancient para-surgical procedure described in Ayurveda for the elimination of vitiated *Rakta*(blood) and *Doṣas* from the body. The therapy is one of the five purification measures under *Śodhana* and holds significant importance in managing disorders of *Pitta* and *Rakta duṣṭi*.

Objective: This article aims to understand the Ayurvedic perspective of *Raktamokṣaṇa*, its generalized mechanism of action, and to analyze modern safety precautions, contraindications, and the scientific rationale supporting its controlled clinical use.

Methodology: A review of classical Ayurvedic texts including *Sushruta Samhita*, *Charaka Samhita*, and *Ashtanga Hridaya* was undertaken, alongside modern literature and indexed journal references discussing the safety and physiological mechanisms of bloodletting and related therapeutic modalities.

Results: *Raktamokṣaṇa* is described to purify *Rakta* and maintain homeostasis by eliminating pathogenic toxins and improving tissue perfusion. Modern interpretations equate its mechanism to controlled removal of blood to reduce venous congestion, decrease inflammatory mediators, and modulate immune responses.

Conclusion: When performed with appropriate technique and under aseptic conditions, *Raktamokṣaṇa* is a safe and effective para-surgical procedure that bridges traditional wisdom with modern therapeutic rationale. However, knowledge of contraindications and adherence to safety guidelines are crucial for preventing complications.

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KEYWORDS: *Raktamokṣaṇa*, *Bloodletting*, *Ayurveda*, *Safety precautions*, *Para-surgical procedure*, *Doṣa–Dhātu balance*.

INTRODUCTION

The concept of *Raktamokṣaṇa*—derived from the Sanskrit roots *Rakta* (blood) and *Mokṣaṇa* (liberation)—literally means the removal or expulsion of vitiated blood from the body. It is one among the *Pañchakarma-upakrama* mentioned by *Ācārya Sushruta* as a vital therapeutic procedure for the management of *Rakta duṣṭi* and *Pitta pradhāna vikāras* such as skin disorders, abscesses, gout, and hypertension-like conditions¹.

In *Sushruta Samhita*, *Raktamokṣaṇa* is classified as one of the *Aṣṭāṅga Shastra Karma*, indicating its surgical significance². The therapy aims not merely at

the removal of blood but at restoring the equilibrium of *Doṣas*, particularly *Pitta* and *Rakta*, which are closely interrelated³.

Traditional Ayurvedic Perception of Raktamokṣaṇa

According to Ayurveda, *Rakta dhātu* is responsible for sustaining life and maintaining physiological functions such as nourishment and complexion⁴. The vitiation of *Rakta* leads to disorders like *Kuṣṭha* (skin diseases), *Vātarakta*, *Vidradhi* (abscess), and *Pāṇḍu* (anemia-like conditions)⁵.

The classical texts describe two principal types of *Raktamokṣaṇa*⁶:

1. *Śāstra-Visravana* (Instrumental Bloodletting):
 - *Sirāvyadha* (venesection)
 - *Prachchhanna* (multiple small incisions)
2. *Anuśāstra-Visravana* (Non-instrumental Bloodletting):
 - *Jalauka avacharana* (leech therapy)
 - *Śrīga avacharana* (horn application)
 - *Alābu avacharana* (gourd application)

Ācārya Sushruta recommends *Jalauka* for *Pitta-pradhāna* conditions because of its gentle and cooling nature, while *Śrīga* and *Alābu* are used in *Vāta* and *Kapha* predominant disorders respectively⁷.

Generalized Mode of Action (Ayurvedic and Modern Perspective)

From an Ayurvedic viewpoint, *Raktamokṣaṇa* eliminates vitiated *Doṣas* directly from the *Rakta dhātu*, thereby reducing inflammation, relieving congestion, and restoring normal *Agni* and *Srotas* function⁸.

Modern Correlation:

The physiological effects of controlled bloodletting include:

- Reduction in venous pressure and local congestion: Improves microcirculation and reduces edema⁹.
- Detoxification and immune modulation: Removes inflammatory cytokines and oxidative metabolites¹⁰.
- Pain and inflammation reduction: Especially evident in conditions such as eczema, varicose veins, and arthritis¹¹.
- Improvement in tissue oxygenation: Leads to better perfusion and metabolic balance¹².

Leech therapy (*Jalauka avacharana*), widely used today, demonstrates anticoagulant, anti-inflammatory, and analgesic actions due to bioactive compounds such as *hirudin* and *bdellins*¹³.

Modern Safety Precautions

Despite its traditional efficacy, *Raktamokṣaṇa* must be performed under strict aseptic and controlled conditions. Modern safety measures include:

1. Aseptic Protocols:
All instruments, leeches, and materials must be sterilized or single-use to prevent transmission of infections like hepatitis and HIV¹⁴.
2. Patient Selection:
Pre-procedure screening for anemia, clotting disorders, and infections is essential¹⁵.

3. Monitoring:

Vital signs should be observed during and after the procedure to detect syncope or excessive blood loss¹⁶.

4. Post-procedure Care:

Application of antiseptic dressing and rest is advised. Nutritional supplements may be given to restore *Rakta dhātu*¹⁷.

Contraindications

Raktamokṣaṇa is contraindicated in the following conditions as per both classical and modern perspectives^{18–21}:

- Anemia (*Pāṇḍu*) and emaciation (*Karśya*)
- Pregnancy and lactation
- Extreme weakness or cachexia
- Hypotension and bleeding disorders (e.g., hemophilia, thrombocytopenia)
- In children and the elderly with low vitality
- During acute fevers or systemic infections

DISCUSSION

Raktamokṣaṇa represents one of the most refined examples of Ayurvedic para-surgical therapy, harmonizing detoxification and circulatory regulation. While ancient physicians recognized its curative potential through the lens of *Doṣa* and *Dhātu* balance, modern physiology attributes its efficacy to hemodynamic and biochemical mechanisms.

Clinical evidence supports the effectiveness of leech therapy in chronic venous disorders, arthritis, and skin conditions^{22–24}. However, safety remains paramount, and standardized protocols integrating modern hygiene and ethical guidelines are essential for its sustainable practice.

Conclusion

Raktamokṣaṇa, rooted in the Ayurvedic philosophy of purification, continues to hold therapeutic relevance in modern times. Its dual approach—traditional and physiological—offers a bridge between ancient wisdom and contemporary clinical science. With appropriate patient selection, technique, and safety measures, *Raktamokṣaṇa* remains a potent tool for managing *Rakta duṣṭi* and related disorders.

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