



CLINICAL SIGNIFICANCE OF MARMA SHARIR IN AYURVEDA: RELEVANCE AND APPLICABILITY IN MODERN SURGICAL AND SPORTS MEDICINE PRACTICE

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ABSTRACT

Marma Sharir is a core concept in Ayurveda, describing vital anatomical sites where trauma can lead to significant physiological consequences. This review article synthesizes classical Ayurvedic understanding with current insights, highlighting the enduring clinical significance of Marma in modern surgical settings and sports medicine, with a focus on safety, trauma prevention, pain management, and rehabilitation.

KEYWORDS: Marma, Pain management Points, Sport Medicine.

INTRODUCTION

Marma points are anatomical locations where muscles (mamsa), veins (sira), ligaments (snayu), bones (asthi), and joints (sandhi) converge. Classical texts such as the Sushruta Samhita describe 107 Marma points, attributing them with vital life force (prana) and warning that injury to these points can result in pain, dysfunction, or death.

Classical Perspective

- **Definition:** Marma means a critical or vulnerable point. The word originates from 'mri' (to kill), indicating the possible fatality on injury.
- **Classification:** Marma points are classified into five categories based on the predominant tissue: Mamsa (muscle), Sira (vein), Snayu (ligament), Asthi (bone), and Sandhi (joint).
- **Physiological and Pathological Roles:** Ayurvedic texts note various effects—from pain to death—depending on the specific Marma injured. Knowledge of Marma was essential to ancient warrior and surgical training, guiding both healing and harm-avoidance.

Marma Sharir in Modern Surgical Practice

Anatomical Relevance

- Many Marma sites correspond with major neurovascular junctions and anatomical landmarks recognized by modern medicine, including critical nerves and blood vessels.
- Marma knowledge can improve surgical planning, reduce iatrogenic injury, and guide minimally invasive approaches.

- In trauma care, categorization of Marmas based on risk (e.g., Sadyah Pranahara for immediate fatality) aligns well with triaging and emergency management in surgery.

Surgical Benefits

- **Prevention of Iatrogenic Injury:** Knowing Marma sites helps surgeons avoid accidental damage during procedures such as orthopedic or abdominal surgery.
- **Regional Anesthesia:** Some Marma overlap with nerve plexuses, and their identification aids in effective, safe regional anesthesia for pain management.
- **Holism in Patient Care:** Integration of Marma with modern anatomical understanding supports a holistic view, considering both anatomical and energetic/patient-centered care.

Marma Sharir in Sports Medicine

Protection and Injury Prevention

- Modern sports gear (helmets, pads) often unintentionally align with major Marma points, protecting athletes from potentially devastating trauma.
- Sports injuries frequently coincide with Marma sites, where trauma can cause severe functional impairment or chronic pain.

Rehabilitation and Performance

- Marma therapy (gentle pressure/massage/herbal oils on Marma sites) promotes pain relief, muscle

- recovery, and improved mobility—comparable to acupressure or trigger point therapy.
- Application of Ayurveda Marma principles in sports medicine supports faster recovery, prevention of secondary injuries, and enhances overall athletic performance.
- Integrative models are emerging in physiotherapy and rehabilitation, where Marma-based protocols are adapted alongside conventional modalities for improved patient care.

Evidence-based Clinical Applications

- Marma therapy has shown positive outcomes in pain management for conditions such as migraines, joint disorders, and rehabilitation after trauma.

Summary Table: Classical vs. Modern Utility of Marma Sharir

Aspect	Classical Ayurveda	Modern Medicine & Sports
Definition	107 Vital points holding "Prana"	Critical anatomical & neurovascular junctions
Clinical Risk	Injury: pain, dysfunction, or death	Trauma risk guiding surgical planning & sports safety
Intervention	Marma therapy, protective strategies	Surgical planning, rehabilitation, injury prevention
Relevance	Combat, surgery, healing	Trauma care, sports medicine, anesthesia

CONCLUSION

Marma Sharir bridges ancient wisdom and modern medicine. Deep anatomical and energetic knowledge from Ayurveda complements contemporary approaches in both **surgical safety** and **sports medicine**, reducing risk, improving outcomes, and supporting holistic healing. The integration of Marma science continues to offer unparalleled value for clinicians and athletes alike in the 21st century.

REFERENCES

- Jadhav VK, Hanchate GB, Narkhede VS. A critical review on Marma Sharira with clinical importance. *World Journal of Pharmaceutical and Medical Research*, 2023; 9(8): 94-97.
- Yadav JB, Choudhari VM. Marma Sharir and its clinical significance: a review. *Ayurline*, 2025; 9(4): 1-6.
- Denaje ND, Jadhav SK. Importance and modern relevance of Marma Sharira in surgical practice: a review article. *Int J Creat Res Thoughts*, 2025; 13(4): 675-684.
- Shinde CR. A study on Marma and its clinical importance. *Vidyapharma*, 2023; 8: 45-52.
- Jagdale SK, Pande P. Concept of Marma Sharir and its clinical utility in present era. *JETIR*, 2024; 10(1): 368-375.
- Ali M, Sharma RK, Sharma DC. Role of Marma therapy in sports injuries with special reference to Adhah Shakha Gata Marmas. *IJCRT*, 2023; 11(7): 63-67.
- Ashtamgam Ayurveda Chikitsalayam. Marma therapy and sports medicine [Internet]. 2024 Sep 25 [cited 2025 Jul 30]; Available from: <https://ashtamgam.org/marma-therapy-sports-medicine/>.
- Narayan A. Science of Marma (in Ayurvedic diagnosis and treatment). *J Ayurveda Integr Med.*, 2015; 6(1): 48-51.
- Prusty J, Padhy RN. A review of Marma science and its clinical relevance. *IJRAP*, 2020; 11(2): 222-226.