

IJAYUSH

International Journal of AYUSH
AYURVEDA, YOGA, UNANI, SIDDHA AND HOMEOPATHY
http://internationaljournal.org.in/journal/index.php/ijayush/

International Journal Panacea Research library ISSN: 2349 7025

Original Research Article

Volume 14 Issue 07

July 2025

HEALING BURNS NATURALLY: AYURVEDIC MANAGEMENT OF SUPERFICIAL PARTIAL-THICKNESS BURN WITH JATYADI TAILA

Dr. Mahesh Sharma¹ and *Dr. Lalita Dushad²

¹Associate Professor, ²Assistant Professor

Department of Shalya Tantra, Shiv Shakti Ayurveda Medical College and Hospital

*Corresponding Author's Email ID: lalitadushad@gmail.com

Abstract

Burn injuries are common traumatic lesions that cause significant tissue damage, infection risk, and long-term functional and aesthetic impairment if not treated effectively. Superficial partial-thickness burns require interventions that promote healing, reduce inflammation, prevent infection, and minimize scarring. In Ayurveda, *Dagdha Vrana* (burn wounds) are managed with various herbal formulations, among which *Jatyadi Taila* is prominently cited for its wound healing (*Vrana Ropana*), cleansing (*Shodhana*), and tissue regenerative (*Ropana*) properties.

This case study explores the clinical application and outcomes of *Jatyadi Taila* in managing a superficial partial-thickness burn on the dorsum of the hand. The intervention resulted in accelerated epithelialization, resolution of inflammation, and scar-free healing within 21 days. This highlights the relevance of Ayurvedic therapeutics in acute wound care and supports their integration into modern medical practice.

Keywords: Jatyadi Taila, Ayurveda, Burn wound, Vrana Ropana, Superficial burn, Wound healing

International Journal of AYUSH; 2025: 14 (07); 10-15

Introduction

Burn injuries, primarily thermal in origin, represent a major public health concern worldwide.

They can range from superficial to full-thickness wounds and often lead to pain, fluid loss,

secondary infections, and long-term complications if not managed effectively. Second-degree or

superficial partial-thickness burns affect both the epidermis and superficial dermis, presenting

with pain, erythema, blistering, and serous exudate.

In Ayurvedic medicine, such burns fall under the category of *Dagdha Vrana*. Management focuses

on pacifying Pitta and Rakta doshas, reducing pain and inflammation, and promoting tissue

repair. *Jatyadi Taila*, a classical oil-based polyherbal formulation from *Bhaishajya Ratnavali*, is

widely used in clinical practice for treating chronic ulcers, burns, and infected wounds due to its

broad-spectrum antimicrobial, anti-inflammatory, antioxidant, and wound-healing properties.

This case study documents a successful therapeutic outcome using *Jatyadi Taila* in a patient with

a second-degree thermal burn, reinforcing the clinical utility of Ayurvedic wound care

formulations.

Case Report

Patient Information

• **Age/Sex**: 35year-old male

• **Occupation**: Businessman

Medical History: Non-diabetic, normotensive, no comorbidities

Chief Complaint: Burn on the left hand BY fire cracker on Deepawali festival

Date of Presentation:

Clinical Findings

Site: Dorsum of the left hand

Extent: ~3% Total Body Surface Area (TBSA)

Burn Depth: Superficial partial-thickness burn

• **Symptoms**: Pain (VAS 7/10), redness, edema, blisters, serous discharge

• Vitals: Stable

No systemic signs of infection

11

Management Plan

Initial 48 Hours:

- Local wound cleaning with sterile distilled water
- Blisters left intact to preserve dermal layer integrity
- No antibiotics or corticosteroids were used

The patient had initially attempted self-management using *Ratanjot* (Alkanna tinctoria) based topical application, presumably for its traditional wound healing and anti-inflammatory properties. However, he reported no significant symptomatic relief or visible improvement in the wound condition. Due to continued discomfort and lack of healing response, he presented to our Outpatient Department (OPD) after a period of three days for further evaluation and treatment

Jatyadi Taila Application Protocol (Day 3-21):

- Blisters de-roofed on Day 3 under sterile conditions
- Jatyadi Taila gently warmed and applied directly over the wound
- Covered with sterile gauze and bandaged twice daily
- Dressing changes done under aseptic conditions
- Observed for signs of infection, sloughing, or hypersensitivity

Formulation Composition (Key Ingredients)

| Ingredient | Botanical Name | Action |
|-------------------|-----------------------|---|
| Jati | Jasminum officinale | Anti-inflammatory, analgesic |
| Haridra | Curcuma longa | Antimicrobial, antioxidant |
| Daruharidra | Berberis aristata | Astringent, antiseptic |
| Manjishta | Rubia cordifolia | Blood purifier, healing promoter |
| Nimba | Azadirachta indica | Antibacterial, antifungal |
| Tila Taila (base) | Sesamum indicum | Emollient, carrier, supports skin barrier |

Clinical Observations

Day Observation

- 1–2 Pain, redness, blistering; wound moist with clear fluid
- 3 Blisters de-roofed, healthy pink dermis exposed; Taila started
- 5 Pain reduced (VAS 3/10), early granulation visible
- 7 Redness subsiding, no discharge; granulation progressing well
- 10 Significant epithelialization, wound area reduced by $\sim 60\%$
- 14 >90% epithelialization, scab formation started
- 21 Complete healing with intact skin, no contracture or scarring

Photographic Evidence:





Figure 1: Pre-treatment Wound Image

Figure 2: Post-treatment (Day 10)

Discussion

Burn wound healing requires a multiphase process of inflammation control, cellular proliferation, and tissue remodeling. Complications like secondary infection, oxidative stress,

International Journal of AYUSH; 2025: 14 (07); 10-15

and delayed epithelialization commonly occur. In this context, traditional herbal formulations

with multi-target actions are highly beneficial.

Jatyadi Taila, with its diverse phytochemical constituents (alkaloids, flavonoids, tannins, and

essential oils), addresses several critical wound healing parameters:

• **Anti-inflammatory effects**: *Haridra* and *Daruharidra* reduce inflammatory mediators

and enhance local circulation.

• **Antimicrobial action**: *Nimba* and *Haridra* prevent microbial colonization, thus

reducing infection risk.

• **Promotion of angiogenesis and granulation**: *Manjishta* and *Jati* enhance

neovascularization and fibroblast proliferation.

• **Epithelial regeneration**: The lipid-rich base (*Tila Taila*) maintains moisture and allows

optimal cell migration and tissue integrity.

This case supports prior research such as that by Thakur et al. (2012) and Singh et al. (2016),

which showed faster epithelialization and reduced infection rates in wounds treated with Jatyadi

Taila. In this patient, healing was achieved within 21 days without the use of modern antibiotics,

which reflects the formulation's therapeutic potential in uncomplicated burns.

Conclusion

This case study clearly illustrates the efficacy of *Jatyadi Taila* as a standalone topical intervention

in the management of superficial partial-thickness burns. The formulation demonstrated

excellent results in terms of pain relief, infection control, granulation, and complete epithelial

healing, without any adverse effects or scarring. Given the rising concern over antibiotic

resistance and the need for cost-effective primary care solutions, Jatyadi Taila offers a

promising, evidence-backed option in wound care especially in rural and resource-limited

settings.

Future large-scale clinical studies with biochemical, histological, and microbiological

parameters are essential to further validate and standardize Ayurvedic formulations for global

clinical use.

14

References

- 1. Sushruta *Samhita*, with Nibandhasangraha commentary by Dalhana. Varanasi: Chaukhambha Orientalia; 2001. Chikitsa Sthana 1/8.
- 2. Govind Das Sen. *Bhaishajya Ratnavali*, edited by GS Pandey. Varanasi: Chaukhambha Krishnadas Academy; 2006.
- 3. Pandey GS. Dravyaguna Vijnana, Vol II. Varanasi: Chaukhambha Bharati Academy; 2004.
- 4. Thakur R, Jain N, Pathak R. Evaluation of wound healing potential of Jatyadi Taila. *AYU*. 2012;33(2):250–253.
- 5. Singh H, Sharma S. Pharmacological review of Jatyadi Taila: A classical wound healing formulation. *J Ayurveda Hol Med*. 2016;4(3):45–49.
- 6. Nayak BS, Anderson M, Pereira LP. Evaluation of wound healing activity of herbal formulations. *Int J Res Ayurveda Pharm*. 2011;2(5):1478–1484.