



MANAGEMENT OF DAGDHA VRANA WITH NIMB PATRA AND TILA KALKA LEPA – A CASE REPORT

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ABSTRACT

Ayurveda has been vital science for mankind for centuries Ayurveda science practiced in eight cults of “*Astang Ayurved*” from this significant and energetic cults being “*shalya tantra*.” Father of surgery *Acharya Sushruta* has elaborately explained about the dagdha vrana (burn wound) in *Susrutha Samhita*. Wound healing is a self-controlled process but due to remarkable increase in number of accidental injury and resistant bacterial infection the process of healing prolongs and also gives rise to local and systemic complications finally leading to non-healing ulcer. As exclaimed in *Dwivarniyachikitsa Adhyay*, *Chikitsa Sthana Sushruta Samhita*, *Nimbapatra* and *tilakalka* is very effective for *vrana shodhan* and *ropana*. *Nimb* also has *Dahshamak* property. So we decided to select *Nimba Patra & Tila Kalka* to treat *dagdavrana*.

KEYWORDS: *Dagdha vrana*, burn, *agantujavrana*.

INTRODUCTION

In major burn injuries systemic treatment is given more importance than local treatment where as in minor burn injuries, the local treatment has more importance.

Ayurveda, the Indian system of medicine and life style has lot of things to offer. *Sushruta*, the father of surgery precisely realized the importance of knowledge of wounds, ulcers and their management in the field of surgery. *Dagdh* vrana is a type of wound. Hence he explained *Dagdha vrana* (burns) in details.

In India, incidence of burn is 1, 00,000 patients per year and mortality due to burns is a problem of considerable magnitude with estimated no. 22,306 deaths per year. Also post healing burn site develops serious local complication like contracturs, ugly scars etc.

Sushruta explained the management of wounds, burns etc. under *shasti upakramas* which is a remarkable contribution. One of such *upakrama* described by *Sushruta* is *nirudhalepan* to manage *Dagdha vrana*. *Nimbapatra* and *tilakalka* lepa have all the properties to repair *dagdha* vrana without any complication. Hence here an attempt is made to manage *dagdha vrana* with *nimbapatra* and *tilakalka*.

CASE HISTORY

A 37 year old male patient came to *shalya tantra O.P.D*, Parul Ayurveda Hospital, Limda, Vadodara, Gujarat. With the complaints of burning, pain, discharge at right leg sole region since 4 days with history of plastic burn while working.

On local examination there was 1st degree superficial 2% burn lesion noted at right leg sole.

**BEFORE TREATMENT****AFTER 10 DAYS OF TREATMENT****MATERIALS AND METHOD**

Source of data: Patient were selected from the OPD of department of Shalya tantra, parul institute of Ayurveda & Hospital, limda, Vadodara.

Consent – A well informed written consent of patient and his relative (mother) was taken before starting the treatment.

Routine haematology investigations (TC, DC, Hb%, ESR, RBS) and urine investigations were done and they were within normal limits.

TREATMENT PROTOCOL

Nimba patra and *tila kalka* uniformly applied over the surface, twice a day, once in morning and once in evening.

Properties of *nimba* and *tila*:

Nimba:

PARTS USED

Leaves, Stem bark, Root bark, Gum, Fruits, Flowers, Seeds, Seed oil.

ACTIONS AND USES: Antifertility activity, anti inflammatory, antiarthritic, cardiovascular, antidiabetic, skin disorders and antimicrobial activity, immunostimulant.

Ayurvedic properties

Rasa: Tikta

Guna : Ruksha, Laghu

Veerya : Sheeta

Vipaka : Katu

Doshghnata: Vataj, Pittaj, kaphaj

Rogaghnata: Jwara, Kushta, Krimi, Prameha, Vrana, Chardi, Visharoga, Arsha, Gulma, Netra roga, Kandu, Kasa.

Karma - Kapha-pittahara, Dipana, Grahi, Krimighna, Netrya.

Tila

PARTS USED: seeds

ACTIONS AND USES: *Vedanasthapana, Vranaropana, Deepan, Shoolaprashamana, Balya, Rasayan.*

Ayurvedic properties

Rasa : Madhura, katu, tikta,

Guna : guru, snigdha

Veerya : ushna

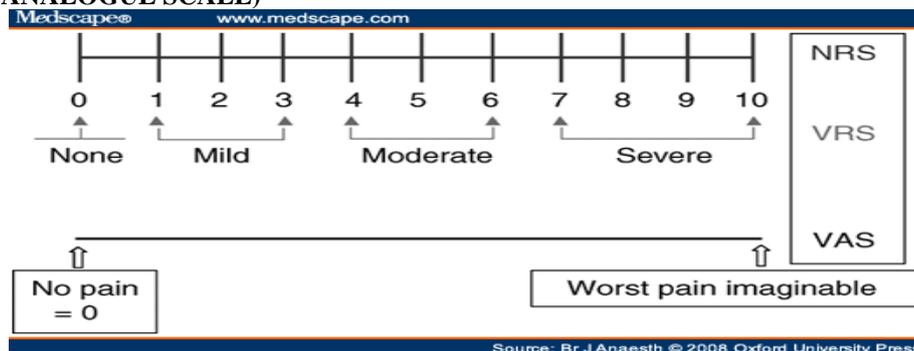
Vipaka : Madhura, katu

Results: After the successful application of *nimbpatra* and *tila kalka* on the *dagdhavrana* regularly two times in a day for 14 days. On 14th day we seen that there is a appreciable recovery in *dagdha vrana*.

GRADATIONS/ CRITERIA FOR ASSESSMENT OF PARAMETERS

1) Pain

VAS (VISUAL ANALOGUE SCALE)



2) Burning sensation

Grade 0 - Nil

Grade 1- Mild.

Grade 2- Moderate.

Grade 3- Severe

3) Discharge

Grade 0 - Absent

Grade 1- Present

4) Wound Healing

Grade 0- Complete healing with flat scar.

Grade 1- Separation of crust and appearance of granulation tissue.

Grade 2- Formation of crust.

Grade 3- Presence of the raw surface of the wound.

OBSERVATION AND RESULT

Sr. No.	CRITERION	BEFORE TREATMENT	AFTER TREATMENT
1.	PAIN	2	0
2.	BURNING SENSATION	3	0
3.	DISCHARGE	1	0
4.	WOUND HEALING	3	0

After Clinical study, Patient shows significant decrease in Pain, Discharge and Burning sensation. Wound healing was faster with normalisation of skin pigmentation.

DISCUSSION

The *dagdha vrana* (Burn wound) comes under *Aagantu vrana* i.e. *Shuddhavrana*. In *Sushrut Samhita* while discussing the topic of *Agnikarma*, there is description of *Pramad dagdha* or *Itartha dagdha* i.e. Accidental burns.

Probable mode of action- *Nimba* has *tikt rasa*, *sheeta veerya*, *katu vipak*, *laghu* and *ruksha guna* (8). *Tila* has *madhur*, *katu*, *tikta rasa* and *madhur*, *katu* as *vipaka*, *ushna veerya*, *guru* and *snigdha guna*. As the *nimba* has *sheeta veerya* and *Tila* has *ushna veerya* which helps medicine to penetrate in the dermatoma immediately so it improves the healing and decreases the pain and burning sensation also. In india victims of occasional burn are mostly poor are like lower class from urban or rural areas. This people cannot afford costly treatment and long duration hospital stay. So if easily available and cost effective local treatment like *nimba patra* and *tila kalka* is easily available to common people and really good thing for them hence we can add this treatment in national health mission program.

CONCLUSION

From the above study it concluded that *nimba patra* and *tila kalka* is effective in management of *daghdha vrana* by their *vrana shodhana* and *ropana* property, which helps to heal the *dagda vrana* by *kashaya tikta rasa* and *madhura guna* shows tremendous result. So we can give this treatment directly to the patient those who having the *dagda vrana*.

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