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Effect of *Jatyadi Ghrit* on *Dusht Vrana* Management: A Case Study

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ABSTRACT

Wound healing has been described throughout the history of *Ayurveda*. Our ancient *Acharyas* knew that proper wound debridement is the fundamental step in wound healing process. The *Dushta vrana* becomes even more complicated and difficult to manage if body's normal biological response to fight wounds becomes impaired. Ancient *Acharyas* propounded, practiced and described a number of drugs and procedures for *vrana shodhana*, *vrana ropan*, *kusthghan*, *jantughana*, *vrana pachan*, *vedanosthapan*, *putihar*, *raktaprasadan*, *raktashodhan*. *Jatyadi ghrit* is described by *Acharya Sharangdhara* in *Sarangdhara Samhita*, *madhyam kahnda* 9/58-60 for *marmashrita vrana* (ulcer present over the vital parts), *kledi vrana* (wound suppuration), *gambhir vrana* (deep seated wound), non-healing ulcers, boils, insect bites etc. This case study shows enthusiastic results of *jatyadi ghrit* on chronic ulcer in a 98 years old lady.

KEYWORDS

Dushtavrana, *Shodhana*, *Ropan*, *Kusthghan*



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INTRODUCTION

Features of pure *vrana* according to *Acharya Shusruta* are that resembling to the upper surface of the tongue, soft, moist, smooth, painless, even and not exuding fluids¹. Wounds in persons suffering from leprosy, poison, consumption, diabetic and in those who are having wounds already, heal with difficulty². Chronic wound are defined as wounds that have failed to proceed satisfactory anatomic and functional integrity or that have proceeded through the repair process without producing an adequate anatomic and functional results³.

CASE STUDY

Name	XXX
Age	98 yrs
Sex	Female
Religion	Hindu
Social status	Middle class
Address	Harawala, Dehradun

H/O present illness Patient came to the hospital with the complaint of wound over the dorsum of the left foot since six months. The wound caused due to accidental penetration of a wooden piece. Without proper care and management, the wound did not heal. Therefore, for alternative care patient visited Shalya Dept., UAU, Main campus, Harawala.

Past history	No H/O DM, HTN, Thyroid, TB etc.
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Personal history	Widow
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General examination

CNS	Well oriented
CVS	Both S1, S2 clear with no added sound
Respiratory	CTA B, no R/R/W
Abdomen	NAD
Respiration rate	18/min
BP	112/72 mm/hg
P/R	70/ min, regular
Temperature	Afebrile

Local examination

1. Inspection

Shape	Oval with asymmetrical outline,
Size	6*3.5 cm
Number	Single
Surface	Irregular
Position	Dorum aspect of the left foot
Edge	Inflamed and oedematous, around 5 mm depth
Floor	Pale and smooth granulation tissue
Discharge	Purulent discharge with foul smell

2. Palpation

Tenderness	Slightly tender
Edge and margin	Induration present
Base	Slight induration present
Depth	5 mm
Surrounding area	Oedematous and tendered
Dosalis pedis	Palpable B/L
Lymphadenopathy	Absent



Vascular insufficiency	Absent
Nerve lesion	Absent
Blood investigation	Normal

APPLICATION OF *JATYADI GHRI*T OVER CHRONIC ULCER

First day, after proper wound debridement with Hydrogen Peroxide solution and 0.9% normal saline, the chronic ulcer was anointed with *jatyadi ghr*it and covered with sterile gauze piece with loose bandaging. Every day the pale and smooth granulation tissue was removed thoroughly with mosquito forceps and loose bandaging was done. *Aarogyavardhini vati*, *Haridrakhand* and *Cap. Amalaki* were given orally for one month till the wound healed. The patient was advised to have mutton soup and half egg on alternate days. One and half months later, the wound was reduced to a great extent with speedy healing of the six months old ulcer.



Fig (a) First day



Fig (b) On 15th day



Fig (c) On 25th day



Fig (d) After one and half months

DISCUSSION

To understand the mode of action of *jatyadi ghr*it scientifically, it is imperative to know about their own inherent constituents (*dravya rasa, guna, veerya, vipaka* and *prabhav*), *dosh-karma*, properties and main actions^{4,5,6,7}.

Probable mode of action of *jatyadi ghr*it

1. Wound debridement

By *Vrana shodhan* properties of *Jati, Nimb, Patola, Daruharidra*.

2. Wound healing

By *Vrana ropana* properties of *Jati, Nimb, Patola, Daruharidra, Mangistha*.

Anti ulcer properties Nimb, Madhuyasti, Haridra, Darharidra, Karanj, Sariva, Kutaki

3. Pain allevation

By *Vedana sthapana* properties of *Patola, Daruharidra*.

Analgesic actions of *Haridra, Daruharidra, Blue vitriol*

4. Hemostasis

Rakta-stambhaka properties of *Madhuyasti, Haridra, Daruharidra*.

Hemostatic actions of *Karanj*.

5. Effect on burning sensation

Daha prashman by *Nimb, Sariva*.

6. Effect on discharge

By *Jantughana* properties of *Nimb, Haridra, Kutaki*.

Putihar properties of *Nimb*.



Anti-microbial action of *Jati*, *Nimb*, *Madhuyasti*, *Haridra*, *Daruharidra*, *Karanj*, *Kutaki*, *Sariva*, Blue vitriol.

7. Effect on itching

Kandughan action of *Jati* *Nimb*, *Madhuyasti*.

8. Blood purification

Rakta- prashadak properties of *Nimb*, *Jati*, *Haridra*, *Karanj*.

Rakta- shodhak properties of *Mangistha*, *Karanj*, *Kutaki*, *Sariva*.

Vishghana action of *Sariva*.

Table 1 *Jatyadi ghrīt* ingredients with their properties

S.No	Ingredients	Botanical name	Rasa	Guna	Veerya	Vipaka	Doshkarma	Main action
1.	<i>Jaati</i>	<i>Jasminum officinale</i>	Tikta, Kashaya	Laghu, snigdha, Mridu	Usna	Katu	Tridosh-har	Vranashodhan, Vranaropana, Kusthghana
2.	<i>Nimb</i>	<i>Azadiracta indica</i>	Tikta, Kashaya	Laghu	Sheeta	Katu	Kapha-pitta shamak	Kandughana
3.	<i>Haridra</i>	<i>Curcuma longa</i>	Tikta, katu	Ruksha, laghu	Ushna	Katu	Tridoshshama k	Kusthghana
4.	<i>Daruharidra</i>	<i>Berberis aristata</i>	Tikta, kashaya	Laghu, ruksha	Ushna	Katu	Kapha-pitta shamak	Vranashodhan, Vranaropana, Sothahar, Vadanasthapan
5.	<i>Patol</i>	<i>Trichosanthes dioica</i>	Tikta	Laghu, ruksha	Ushna	Katu	Tridoshshama k	Raktashodhak, shothahar, jwaraghana
6.	<i>Sariva</i>	<i>Hemidesmus indicus</i>	Madhur, tikta	Guru, snigdha	Sheeta	Madhur	Tridoshshama k	Raktashodhaka, Shoth-har
7.	<i>Manjistha</i>	<i>Rubia cordifolia</i>	Tikta, kashaya, madhur	Guru, ruksha	Ushna	Katu	Kapha-pitta shamak	Vranaropan, raktashodhak, sothahar
8.	<i>Yastimadhu</i>	<i>Glycyrrhiza glabra</i>	Madhur	Guru, snigdha	Sheeta	Madhur	Vata-pitta shamak	Rakta stambhaka, kandughana
9.	<i>Katuki</i>	<i>Picrorhiza kurroa</i>	Tikta	Ruksha, laghu	Sheeta	Katu	Kapha-pitta shamak	Jantughana, raktashodhak, sothahar, Kusthaghana
10.	<i>Karanja</i>	<i>Pongamia pinnata</i>	Tikta, kashaya, katu	Laghu, tikshan	Ushna	Katu	Kapha-vata shamak	Raktashodhak, raktaprashadak, jatughna, Kandughanak
11.	<i>Usheera</i>	<i>Vetivera zizanioides</i>	Tikta, madhur	Ruksha, laghu	Sheeta	Katu	Pittashamak	Raktastambak, Swedahar, Gandhahar
12.	Blue vitriol	Copper sulphate	Katu, kashaya, madhur	Laghu	Ushna	Katu	Kapha-pitta shamak	Vranaropan
13.	Cow ghrīt	Ghee	Madhur		Sheeta	Madhur	Vata-pitta nashak	



Table 2 Plant properties according to ancient literatures

S.N.	Main action	Plant's name
1	<i>Vrana shodhan</i>	<i>Jati, Nimb, Patola, Daru haridra</i>
2	<i>Vrana ropana</i>	<i>Jati, Nimb, Patola, Daru haridra, Mangistha</i>
3	<i>Kusthaghana</i>	<i>Jati, Kustha, Sariva, Mangistha</i>
4	<i>Kandughana</i>	<i>Jati, Nimb, Madhuyasti</i>
5	<i>Jantughana</i>	<i>Nimb, Haridra, Kutakil</i>
6	<i>Vrana pachan</i>	<i>Nimbpatra, Haridra</i>
7	<i>Vedana sthapana</i>	<i>Patola, Kustha, Daru haridra</i>
8	<i>Putihar</i>	<i>Nimb, Kustha</i>
9	<i>Daha prashman</i>	<i>Nimb, Sariva</i>
10	<i>Rakta- sthabhaka</i>	<i>Madhuyasti, Haridra, Daru haridra,</i>
11	<i>Rakta- prashadak</i>	<i>Nimb, Jati, Haridra, Karanj</i>
12	<i>Rakta- shodhak</i>	<i>Patola, Mangistha, Karanj, Kutaki, Sariva</i>
13	<i>Vishaghana</i>	<i>Sariva</i>

Table 3 Showing plant's main actions

S.N.	Plant name	Action
1	Anti-inflammatory	<i>Jati, Nimb, Patola, Madhuyasti, Haridra, Daru haridra, Manjistha, Karanj, Kutaki, Sariva</i>
2	Antioxidant	<i>Patola, Madhuyasti, Kutaki, Haridra, Sariva, Blue vitriol</i>
3.	Analgesic	<i>Haridra, Daru haridra, Blue vitriol</i>
4.	Anti-ulcer	<i>Nimb, Madhuyasti, Haridra, Daru haridra, Karanj, Sariva, Kutaki</i>
5.	Anti-microbial	<i>Jati, Nimb, Madhuyasti, Haridra, Daru haridra, Karanj, Kutaki, Sariva, Blue vitriol.</i>
6.	Immuno-modulator	<i>Haridra, Daru haridra, Kusth, Nimb</i>
7.	Haemostatic	<i>Karanj</i>

Probable mode of action of jatyadi ghrut

Wound debridement

By *Vrana shodhan* properties of *Jati, Nimb, Patola, Daru haridra*.

Wound healing

By *Vrana ropana* properties of *Jati, Nimb, Patola, Daru haridra, Mangistha*.

Anti ulcer properties Nimb, Madhuyasti, Haridra, Daru haridra, Karanj, Sariva, Kutaki

Pain allevation

By *Vedana sthapana* properties of *Patola, Daru haridra*.

Analgesic actions of *Haridra, Daru haridra, Blue vitriol*

Hemostasis

Rakta-stambhaka properties of *Madhuyasti, Haridra, Daru haridra*.

Haemostatic actions of *Karanj*.

Effect on burning sensation

Daha-prashman by *Nimb, Sariva*.

Effect on discharge

By *Jantughana* properties of *Nimb, Haridra, Kutaki*.

Putihar properties of *Nimb*.

Anti-microbial action of *Jati, Nimb, Madhuyasti, Haridra, Daru haridra, Karanj, Kutaki, Sariva, Blue vitriol*.

Effect on itching

Kandughan action of *Jati, Nimb, Madhuyasti*.

Blood purification



Rakta- prashadak properties of *Nimb, Jati, Haridra, Karanj.*

Rakta- shodhak properties of *Mangistha, Karanj, Kutaki, Sariva.*

Vishghana action of *Sariva.*

CONCLUSION

The contents of *jatyadi ghrít* have anti-inflammatory, antioxidant, analgesic, anti-ulcer, anti-microbial, immune-modulator and haemostatic properties, it helps in smooth healing of the *dust vrana*. The natural ingredients present in the *jatyadi ghrít* initiate regeneration of the destroyed tissue, removal of damaged structures and thus speed up the healing of the ulcer to restore the normalcy. This study will definitely give a hope to new researchers to work on more and more herbal formulations with their miraculous results.



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