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Review Article

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A CRITICAL REVIEW: WOUND CARE IN AYURVEDA

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ABSTRACT

Wound is defined as the condition wherein tissues undergo destruction (*vichurnana*). Wound is a condition even after complete healing leaves a scar (vrana vastu) over the area which stays as long as the person alive. wound in Ayurveda is described as *Vrana*, is one of the oldest element from which the humankind has suffered. In Ayurveda wound has 6 roots or causes of vitiation- Vata, Pitta, Kapha, Rakta, Sannipata and Agantuj, can be managed by 60 measures (*Shasti Upakrama*) as described by *Maharshi Sushruta*. These sixty different types of procedures in general may be summarized in the seven basic

procedures (saptopakrama) in the management of Vrana shopha. For managing the complete healing of wound, a series of treatment procedures have been mentioned. These procedures primarily help in the Shodhana (cleansing) and Ropana (healing) of the formed wound. They also play an important role in cosmetic repair, by setting right if there is any complication occurred during the process of healing. The procedures in shasti upakrama from seevana karma to vrana dhoopana play a major role in cleansing and promoting the healing of the incised/burst and drained wound.

KEYWORDS: Vrana, Vrana Vastu, Vichurnana, Vrana shopha, Shasti Upakrama, Saptopakrama, Shodhana, Ropana etc.

INTRODUCTION

The *Vrana* or wound is primary or initial presence in any kind of surgical cases. So, in any kind of surgery, there is a common thing that is *Vrana*. *Vrana* is a discontinuation in the integrity of the skin or tissues or mucous membrane. There are various kind of wound management is advocated in modern medical science whereas the management of *Vrana* has

been illustrated in *Sushruta Samhita* in very detail manner which is known as *Shashti Upakram. Vrana* and its management are of prime importance in surgical practices. Generally, a *Vrana* created by a surgeon is healed with primary intention. But many other types wounds follow a secondary intention to heal. Although there are sixty procedures to manage the wound in *Sushrut Samhita*, from very early inflammatory stage due to vitiation of local tissue by vitiated *Doshas*, up to the complete process of healing with cosmetic care. This review article will focus on seven basic procedures, importance of procedures from 21 to 34 i.e. from *Seevana Karma* to *Ropana Karma* in *Shasti Upakrama* in the management of natural/surgeion made wound specially, *Shodhana* and *Ropana* alongwith the maneuvers to promote fast healing and avoidance of any recurrence in future.

Aim and Objective

- 1. To evaluate the importance of wound care in Ayurveda as described in *Sushrut Samhita*.
- 2. To understand the basic principles of wound management.
- 3. Critical analysis of *Shodhana* and *Ropana karma* with various herbal preparations.
- 4. *Pathya Apathya* followed in wound care alongwith the illustrations of maneuvers apply to avoid any future recurrence of wound.
- 5. Management of Dushta Vrana.

MATERIAL AND METHOD

All references of *Shasti Upakrama* and wound care are collected and compiled from *Sushrut Samhita* and other ayurvedic reference books.

Literature review

The specific concept of the origin and development of *Vrana* has been taken from the text of a scholarly paper as well as theoretical and methodological contributions to a particular topic from the following literature-

- Susrut samhita, sutrasthana, chapter- 14, 17,19,21.
- Susrut samhita, chikitshasthana, chapter- 1, 2.
- Text book of Shalya Tantra by *Dr. Rajneesh V. Giri*, chapter 5, wound and ulcers (Vrana).

Management of wound

Quite a number of conditions and types of wounds are responsible for early healing, delay healing or incurable stages. Although much progress has been made in management of wound in past few years, management of *Vrana* has been significant health related issue ever since period of *Sushruta*. Numbers of procedures are performed for various steps of healing of *Vrana*. Among these, *Shuddha Vrana* has been treated by *Ropana* remedies, whereas *Dushta Vrana* is managed on the basis of involvement of vitiated *Doshas*, site of *Vrana*, excessive putrification, and inflammatory changes. *Sushruta* described sixty different types of management of *Vrana* in general. He described almost all the basic principles of *Vrana Upakrama* in form of seven different types of *Upakrama* (management) of *Shopha*.

Showing incorporation of shashti upakrama in sapta upakrama

7 Upakrama	60 Upakrama
Vimlapana	Apatarpana, Aalepa, Parisheka, Abhyanga, Swedana, Vimlapana.
Avashechana	Visravana, Sneha, Vamana, Virechana.
Upanaha	Upanaha, Pachana.
Patana	Chedana, Bhedana, Darana, Lekhana, Eshana, Aharana,
	Vyadhana, Visravana, Seevana.
Shodhana, Ropana	Sandhana, Peedana, Shonitasthapana, Nirvapana, Utkarika,
	Kashaya, Varti, Kalka, Sarpi, Taila, Rasakriya, Choorna,
	Dhoopana.
Vaikrutapaham	Utsadhana-Rakshavidhan

First three *upakramas* are for *Vranashotha*. 4th is *Vhastrakarma*, while last three are for *Vrana*.

Vimlapana - In case of *Sthira*, *Manda Ruja Vranashopha*, after *Snehana* and *Swedana* to the part, *Peedana* should be done with a *bamboo* tube or palm and sole or thumb.

Avasechana – In case of Shopha of recent on set, Raktamokshana should be resorted to in order to mitigate the Vedana and Paka. Even in Vrana associated with shopha, which are Kathina, containing Rakta, Vedanayukta or deep seated, Rakta Avasechana should be done. In case of Shopha associated with Visha, Rakta Visravana should be done by using leech or by Shastra.

Upanaha - It should be applied in *Aamavastha* and *Vidagdhavastha* of *Vranashopha*.

Patana - It should be done in case of *Pakwa Shopha* only.

Shodhana - It is one of the important measures in case of Vrana Chikitsa. Among 60 Upakramas as mentioned earlier Kashaya, Varti, Kalka, Sarpi, Taila, Rasakriya and Avachoornana are the different methods for Shodhana. In case of Vrana associated with Durgandha, Kleda and Picchilata, Shodhana should be done using Kashaya of various Dravyas or Shodhana Taila whereas in case of Vrana which has Utsanna Mamsa, Alpasrava etc. Shodhana should be done with Tila Taila mixed with Sarshap Taila.

Ropana - Ropana Kriya should be adopted in Vranas which show the features of Shuddha Vrana. Kashaya, Varti, Kalka, Sarpi, Taila, Rasakriya and Avachoornan are the different methods for Ropana. In case of Vranas which are predominant in Kapha and Vata, Ropana should be done by *Taila* processed with those *Dosha-Shamak Dravyas*.

Vaikrutapaham - Even after complete healing of Vrana restoration of normal colour, Shapes are essential. So Vaikrutapaham is a measure which helps in restoration. For this KrishnaKarma, PanduKarma, Romasanjanana, Lomapaharana etc. are mentioned.

Importance of various procedures in the management of wound

For managing the whole range of symptoms/conditions from inflammatory stage till the complications produced after the complete healing of a wound, a series of treatment procedures have been mentioned. These procedures pacify the abscess in the initial stages itself, preventing its further development or promote suppuration so that the abscess gets suppurated, once the pus etc, gets drained out, the patient gets relief from the pain and also there is now a chance for healing.

These procedures include: Seevana, Sandhan, Peedana, Shonitsthaapan, Nirvaapan, Utkarika, Kashaya, Varti, Kalka, Sarpi, Tail, Raskriya, Avchoornana and Vrana Dhoopana.

Seevana – Seevana means suturing. Sushruta described Seevana Karma in detail along with types of stitches and their indications. Seevana is done on Vrana having wide gaping wound with loss of skin, Vrana in a fleshy part, and without Puyasrava i.e. without infection.

Sandhana - This means to join. It is a measure for adhesion of the edges in a fleshy part without suppuration.

Peedana - It is indicated to remove Puya from Sukshmamukhi and Marmasthita

Vrana. In this procedure, application of medicated plaster or Aalepa of (kalaya, yava, godhuma, masa, mudag, harenu etc.) is done around the mouth of Puyayukta and Sukshmamukhi Vrana.

Shonitasthapan – It is a procedure of inducing haemostasis and is indicated in Agantuj, Sadyovrana and Shastrakarmaja Vrana. Sushrut has described 4 ways of Shonitasthapanaa. Sandhan, Skandana, Pachana, Dahana.

Nirvapana - It means cold compress. This is done on Vrana having Ushna Guna i.e. Pitta-Raktaja Vrana, Dahayukta and Jwaryukta Vrana with the help of proper Sheeta Dravyas like Dugdha, Ghrita etc.

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Utkarika - This means poultice. It is indicated for Ksheenmamsi, Alpasravi, Todayukta, Shulayukta, Kathinyayukta and Kampayukta Vrana. These types of Vrana are fomented with poultice-like preparation, i.e. *Utkarika*—cooked with *Vataghna Dravyas*.

Kashaya - This means decoction and is indicated in Dushta as well as Shuddha vrana. Washing of Dushta Vrana is done with Kashaya of Shodhan Dravyas (sursaadi gana, aragvadhadi gana) while washing of ShuddhaVrana is done with Kashaya of Ropan Dravyas. In vaat vitiation- Dashmoola kwath, in pitta vitiation- Nyagrodhadi kwath, in kapha vitiation- Aragvadhadi kwath is used.

Kalka - It is an application of Kalka or paste prepared of patola ,tila, yashtimadhu, trivrit, danti, haridra ,daruharidra, nimba etc. on Vrana Shodhana and Ropana Kalka are applied on Dushta and Shuddha Vrana respectively. Shodhana Kalka is also applied in Shalyayukta, Anumukhi, Gambhir, Putimamsi Vrana while Ropan Kalka is applied in MarmasthitaVrana.

Varti – This means plugs or lints. These are made by plastering them with Paste of Shodhan Dravyas(trivrit, danti, langgli, madhu, saindhava etc.). These are indicated in Puyayukta, Dushta, and Shuddha Vranas. Varti is useful in Sukshmamukhi, NadiVrana and deep Vrana.

Ghrita - Medicated Ghrita (Ghee) is applied on Vrana. This Upakrama is especially for Ropana Karma in Dushta Vrana. Shodhana Dravya Siddha Ghrita is used. This Upakrama is indicated for Pittaja, Raktaja, Vishaja, Agantuj and Gambhir Vrana.

Taila - The application of medicated oil is *Taila Upakrama*. Many types of *Siddha Taila* are used for different types of Vrana especially for Shodhana and Ropana Karmas. Shodhana Taila is applied to Dushta, Utsannamamsi and Alpasravi Vrana. Ropana Taila is applied to Shuddha vrana and it is also useful in Vata-Kaphaja Vrana.

Rasakriya - It is indicated for Shodhana and Ropana effects. Decoction of Medicinal Dravyas(Salsaaradi gana, saurastraja ,kasisa, hartala, manasila etc.) is further boiled and saturated to achieve Ghana Awastha. This Ghana is then applied over the Vrana. Shodhana Rasakriya is applied to Sthiramamsi and Dushtavrana. Ropana Rasakriya is applied to Sandhisthita, Pittaja, Raktaja and Abhighataj Vrana.

Avachoornana - This means sprinkling of Churna over Vrana. Shodhana and Ropana Churna are sprinkled over superficial i.e. Twak sthita, Sthira mamsi, Avikrut akruti and GhrishtaVrana.

Vranadhoopana - It means fumigation that is indicated for Vataj, Tivra shulayukta and Sravi Vrana. Fumigation is done with many preparations (linen, yava and ghrit, nimba patra, vacha, hingu, saindhava and sarshapa etc.). Fumigation relieves the wound site from krimi,kandu,raja etc.

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In order to prevent complications during healing and recurrent vitiation of *doshas* after its complete healing, the patient should consume *laghu matra aahara*. Food should be *snigdha*, *ushna* and should always cause the *agni deepana*. Even after wound has got completely healed, one should protect the patient from *krimi*, evil spirits etc. which may cause recurrence or produce various complications. Things should be avoided during wound condition: day sleep, late night sleep sexual act, excessive fresh grain consumption, milk and milk products, sour, salty, sweet articles, *vishtambhi*, *guru*, *sheeta*, *vidahi* food. Wholesome food for wound patient include: *yava*, *godhuma*, *sastika*, *Sali*, *mudaga*, *masoor*, *jeevanti*, *bal moolak*, *vaartak*, *dadima*, *dhatri* etc.

Patient should keep in a well maintained and hyeginic ward so that to prohibit any further complication.

Treatment of dushta vrana

Dushtavrana is treated according to the presence of prakupita dosha. Vamana, Shirovirechana, Virechan, Asthapana Basti, Langhana, Raktamokshana and specific sort of diet is advised. For Vrana Dhavana, Kashaya are prepared using dravyas of the surasadi and rajvrukshadi Ganas, Siddha Ghrita and SiddhaTaila of these Dravyas are used for Vranakarma. Vividha upkrama according to doshadushti are as follows- VatajVrana: Snehayukta Swedana, Upanaha, Pradeha and Parisheka of Vataghna Dravyas. Pittaj Vrana: Sheeta, madhura and Tikta Dravyas as Kalka, Pradeha, Kwath and Parisheka are used. Ghritapana and Virechana are used. Kaphaj Vrana: Katu, Kashaya, Ruksha, Ushna Dravyas as Pradeha and Parishechana are used. Langhana and Pachana are advised. Aahar composed of Tikta, Katu, Kashaya Dravyas should be prescribed.

CONCLUSION

From above study, we can be concluded that *Acharya Sushruta* describe *Vrana* and *vranaupakrama* (management of wound) in detail. This description clearly suggests that they have understood this disease clearly and therefore were able to treat this condition properly. That can be employed according to the different stages of wound. It is easy to learn and apply the principle of *saptopakrama* in the management of surgical wounds whereas *Shashtiupakrama* provide us lot of option for the management of wound in different stages.

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