A CASE DISCUSSION ON EFFECT OF JATYADI TAILA VRANA BASTI IN MANAGEMENT OF DUSTA VRANA WITH SPECIAL REFERENCE TO BED SORE

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ABSTRACT

The wound healing is a natural process, but involvement of infection which will not allow wound to heal and convert it into DustaVrana (chronic wound). Bed sore is most commonly seen in bedridden Pakshaghata (paraplegia) patients. Most common site is sacrococcygeal, heel, elbow, shoulder and occipital region. Due to pressure, immobilization and poor nutrition wound healing will be hampered and turned into DustaVrana. Chronic wound can lead to osteomyelitis and sepsis which can become the cause of death. In such condition Vrana Shodhana (purification) and Ropana (healing) Chikitsa (treatment) is the ideal choice of treatment. Vrana Basti (oil pooling on wound) with Jatyadi Taila helps in managing the bed sore or pressure ulcer. A case of 62-year female presented with complaints of non-healing ulcer at sacrococcygeal region with slough, discharge, foul smell, discoloration of skin has been presented here. Significant improvement seen in wound, in respect to height and breath of wound. In this case Jatyadi Taila shows its Shodhana, Ropana and Raktaprasadana (blood purifier) property.

Keywords- Vrana Basti, Jatyadi Taila, Dusta Vran, Bed sore.

INTRODUCTION

"Now where is the gap between basic research and clinical application more glaring than in the biology of wound healing " - Earl A. Peacock Jr1

Wound healing is divided into 4 phases:
- Homeostasis
- Inflammation
- Tissue growth (proliferation)
- Tissue remodeling (maturation).2

Acharya Sushruta has used the term Vrana (wound) twice in the definition of Shalya Tantra thus highlighting its importance.3Vrana and its management has been given great emphasis in Shalya Tantra. Sushruta has mentioned two types of Vrana according to its origin i.e., Agantuja Vrana (traumatic wound) and NijaVrana (ulcer).4 He also explained Shashti Upakramas (sixty therapeutic measures) for wound management, among sixty Upakramas local application of medicated oil is one of most important Upakramas.5 The application of medicated oil can be done with different procedure like Prakshalana (washing), Pichu (cotton swab), Lepa (ointment), Vrana Basti on Dushita Vrana. Among this Vrana Shodhana and Ropana are the preliminary steps and both can be achieved through Vrana Basti a modified version of Kati Basti or Janu Basti. He has enlisted plenty of formulations for the same.

Bed Sore

A bedsore is gangrene caused by local pressure, also known as pressure ulcer and decubitus ulcer. Prolonged pressure applied to soft tissue over bony prominences, usually caused by paralysis or the immobility associated with severe illness, predictably leads to ischemic ulceration and tissue breakdown.6 Five predisposed factors are pressure, injury, anemia, malnutrition and moisture.7 Pressure ulcers increase mortality rates more than twofold, and are the cause of death in 8% of paraplegics.8 Pressure ulcers are described by stages.9

Table 1: National Pressure Ulcer Advisory Panel Classification

<table>
<thead>
<tr>
<th>Grade</th>
<th>Classification of Ulcer</th>
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<tbody>
<tr>
<td>I</td>
<td>Non-bleachable erythema of intact skin; wounds generally reversible at this stage with intervention</td>
</tr>
<tr>
<td>II</td>
<td>Partial-thickness skin loss involving epidermis or dermis; may present as an abrasion, blister or shallow crater</td>
</tr>
<tr>
<td>III</td>
<td>Full-thickness skin loss involving damage or necrosis of subcutaneous tissue but not extending through underlying structures or fascia</td>
</tr>
<tr>
<td>IV</td>
<td>Full-thickness skin loss with damage to underlying support structures (i.e., fascia, tendon, or joint capsule)</td>
</tr>
</tbody>
</table>

MATERIAL AND METHOD

Present study was carried out in accordance with ethical principles by following international conference of Harmonization – Good Clinical Practices Guidelines (ICH-GCP).

Jatyadi Taila, Normal saline, sterile gauze is main material required for study. Every morning the wound was cleaned with normal saline. After proper cleaning, Vrana Basti was done with Jatyadi Taila. In Vrana Basti wall of Masha Pishita (frame) was erected around the wound, measuring about 2cm in height & 0.5cm in thickness. Medicated oil was taken, luke warmed on...
hot water bath. Pouring of lukewarm oil was done with help of cotton into the pit of the wound. Same procedure was repeated again and again for duration of 30 mins.

Case Report

A 62-year old female presented with complaints of wound over the sacrococcygeal region associated with pain, discharge, foul smell, slough and discoloration of skin around the wound since 8 months. One year back patient was fine; one morning patient developed headache along slight giddiness at around 6 am and fell down due to giddiness following loss consciousness. She was recovered after 15 min; she was unable to lift her bilateral upper and lower limb. She is k/c/o - HTN for 2 years (under allopathic medication). Computed Tomography (CT) scan of head showed large acute infarct at right fronto-temporal region. Due to complete immobilization she started to develop oval shaped wound at sacrococcygeal region. Initially wound was treated with intravenous antibiotics and conventional antibiotic ointments with wound debridement were also done. But no response was seen, presumably because of local contamination (stool and urine) and immobilization wound worsened, so she visited our hospital.

Local Examination

**Inspection**
1. Size and Shape - 7 X 5 centimeter oval
2. Number - One
3. Position - Sacrococcygeal region
4. Edge - Punched out edges
5. Discharge - Mild serous discharge after opening the bandage

**Palpation**
1. Tenderness - Absent
2. Depth - 5 centimeters
3. Bleeding - Slightly present

RESULT

There is significant result noted in clinical features of Dushta Vrana noted at intervals of 15 day and at end of treatment (1 month) Figure 4. With a follow-up for a period of 1 months, the patient has shown no sign of aggravation and improvement in granulation seen.

**DISCUSSION**

In this case Jatyadi Taila shows its Shodhana, Ropana and Raktaprasadana (blood purifier) property\(^9\) so it is more effective in Dushta Vrana.

Most of Jatyadi Taila contents are having Tikta (bitter) Kashaya (astringent) rasa and Laghu (lightness), Ruksha (dry) Gunas Pradhanata (dominances). Jatyadi Taila act on Vrana mainly in 2 ways Shodhana and Ropana, which help in proper healing of wound.

<table>
<thead>
<tr>
<th>Property</th>
<th>Contents</th>
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<tbody>
<tr>
<td>1.Shodhana</td>
<td>Nimba, Patola, Daruharidra, Abbaya</td>
</tr>
<tr>
<td>2.Ropana</td>
<td>Nimba, Siktata, Manjistha, Lodra, Tila Taila</td>
</tr>
</tbody>
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Ingredients like Haridra, Karanja and Salicylic acid present in Jaati are having Kushtha Ghana and Krimi Ghana property\(^1\). Hence it can help to check wound infection. Vrana Lekhana (scraping) is done by CuSO\(_4\).7H\(_2\)O (Tutha). Tila Taila acts as good vehicle in bringing out pharmacological action of other ingredients. From the above discussion, we can consider this as a probable mode of action in relation to Jatyadi Taila and Vrana Basti.
CONCLUSION

For the healing of such chronic ulcers, longer duration of contact period of the medicament and the ulcer bed is essential. Mere dressing with gauze dipped in medicated oil/ ghee isn’t productive as the gauze absorbs the medication and the ulcer remains dry. Hence by the act of Vrana Basti, not only is there prolonged time of action, but the quantity of the medicament at the site increases the pressure and helps in more permeability of the drug at target site. A material which, when applied to the surface of wound, provides and maintain an environment in which healing can take place at maximum rate. This is probably the reason why wounds tend to respond better in the above said method of drug delivery.

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