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A Clinical Study on *Jalaukavcharana* Follow with *Karanjadi Ghrita* Dressing for the Management of *Dushta Vrana* w.s.r. to Non-Healing Ulcer.

Dashrath Singh Bhati,¹ Vishnu Dutt Sharma²

- 1. M S Scholar, Department of Shalya Tantra, Dr. Sarvepalli Radhakrishnan Rajasthan Ayurveda University, Jodhpur, Rajasthan
- 2. Associate Professor, Department of Shalya Tantra, Dr. Sarvepalli Radhakrishnan Rajasthan Ayurveda University, Jodhpur, Rajasthan

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Corresponding author-

Dashrath Singh Bhati, M S Scholar, Department of Shalya Tantra, Dr. Sarvepalli Radhakrishnan Rajasthan Ayurveda University, Jodhpur, Rajasthan. Email- dashrathbhati1989@gmail.com

ABSTRACT:

Vrana or ulcer is a very common problem encountered by medical practitioners. Sushruta Samhita, the available basic classics of Salya Tantra has given prime importance to Vrana and many chapters of the treatise are exclusively dedicated for Vrana and its management. Acharya Sushruta mentioned sixty treatment modalities for Vrana. Dushta Vrana are exhibiting less tendency or delayed tendency towards healing. It not only affects the patient physically but also the mental wellbeing of an individual. Dushta Vrana is such a long-standing ulcer with profuse discharge and slough, where removing the debris and enabling drug to reach the healthy tissue is more important. These wounds cause patients severe emotional and physical stress and create a significant financial burden on patients and the whole healthcare system. Thus, to achieve good approximation, early healing, and acceptable scar, without complications. Karanjadi Gharita was used for local application in the management of Dushta Vrana. Raktamokshan or Bloodletting tools have been dated to the Stone Age. Among the Para-surgical measures described in Ayurveda, Raktamokshan is prime important as it can provide complete remedy to many ailments. Raktamokshan using Jalauka was performed.

Keywords: Dushta Vrana, Jaluakaavcharna, Karanjadi Ghrita,

INTRODUCTION

Vrana or ulcer is a very common problem encountered by medical practitioners. *SushrutaSamhita*, the available basic classics of *Salya Tantra* has given prime importance to *Vrana* and many chapters of the treatise are exclusively dedicated for *Vrana* and its management. The *ChikitsaSthana* of *SushrutaSamhita* starts with treatment of *Vrana* and sixty treatment modalities are mentioned for it. No other disease has such large number of *Upakramas* and this itself shows the importance of *Vrana*.

DushtaVrana are exhibiting less tendency or delayed



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tendency towards healing. It not only affects the patient physically but also the mental wellbeing of an individual. DusthaVrana is such a long-standing ulcer with profuse discharge and slough, where removing thedebris and enabling drug to reach the healthy tissue is more important These wounds cause patients severe emotional and physical stress and create a significant financial burden on patients and the whole healthcare system. Thus, to achieve good approximation, early healing, and acceptable scar, without complications Acharya Sushruta has elaborately explained Shashti Upakrama and among the he has specifically indicated Raktamokshan in DushtaVrana treatment and Acharya Chakradatta explained KaranjadiGharita application in the management of DushtaVrana.

AIMS AND OBJECTIVE

1. To study the etiopathogenesis of this challenging condition of *Vrana*.

2. To evaluate the efficacy of

KaranjadiGhrita&Jalaukavcharna in the management of *DushtaVrana* or non-healing ulcer.

3. Contemporary and comprehensive study of the selected problem.

MATERIAL AND METHODS

60 patients with classical sign and symptoms were randomly selected and registered from OPD &IPD ofUniversity College of Ayurveda Hospital, Jodhpur, after CTRI registration (CTRI/2020/11/028890)& IEC approval (DSRRAU/UCA/IEC/19-20/225) with informed consent of each patient. All general and routine examinations and investigations were done.

Drug contents

- 1.Karanja leaves(Pongemia pinnata)
- 2. Chameli leaves(Jasminum officinale)
- 3. Patola leaves(Trichosanthesdioca)
- 4.Haridra(Curcuma longa)
- 5.Daru haridra(Berberis aristata)
- 6.*Madhuyashti*(*Glycyrrhiza glabra*)
- 7.Kutaki(Picrorhizacurroa)
- 8. *Manjistha*(*Rubia cordifolia*)
- 9. Chandana(Santalum album)
- 10. Ushira(Vetiveriazizaniodis)
- 11. Neel kamal(Nymphaea cynea)
- 12. Shweta Sariva(Hemidesmus indicus)
- 13. Krishna Sariva(Ichnocarpus frutescens)

14. Nishoth(Operculinaturpethum)15. Mome(Wax)

Drug preparation

Raw material was collected and *KaranjadiGhrita*was prepared from the University College of Ayurveda pharmacy.

Chemical constituents of Karanjadi Ghrita

Pongaglabrone, diketonepongamol, glabrin, karanjin, pongapin, kanjone. Linalyl acetate, benzyl benzoate, benzyl alcohol, geraniol, nerol, eugenol, creosol, lactones, methyl anthranilate and indole.

The component of *Jalauka* saliva like Hirudin, Calin, Hyaluronidase, Eglin, Bedllin, Piavit, Histamine and more, which are having Antibiotic, Anti-microbial activity, Vasodilator, Anti-thrombin activity, Anti-coagulation, and Anti-inflammatory properties. *Jalauka* contains also having an Anaesthetic property, it reduces pain sensitivity at the affected site of *Dushta Vrana*.

Drug administration and dose(Table 2)

Informed consent

Written informed consent will be taken from each patient before starting the study. Dose-According to size (L*W), Depth etc of *Dushta Vrana*.

Follow up period

Patient is advised to come for follow up on every 7th day for next 4week and a four week follow up.

CLINICAL STUDY

Sample size

60 Patients will be randomly selected for the study.

Study design

- ► Randomized
- ≻ Control
- ➤ Open clinical trial.

Selection of patient Inclusion criteria

- ➤ Patient who given written consent.
- > Patient suffering from *Dushta Vrana* or patient who had clinical features of *Dushta Vrana*.
- ➤ Any post-operative non healing ulcer, irrespective to

any specific as well as nonspecific procedure.

Exclusion criteria

- ► Patient suffering from any malignancy.
- ➤ Patient suffering from HIV, & Hepatitis B.
- ➤ Patient suffering from any major systemic disorder.

Withdrawal criteria

The entire patient found hypersensitive with the selected management discarded from the study even after registration. At the same time the patient showing any allergic reaction with *Karanjadi Ghrita* and *Jalaukavcharan* and non-cooperative patient was withdrawn from the course of treatment.

Dietic advice

The diet will be strictly adviced to the entire patient as mentioned in the *Shushruta Samahita Sutrasthan*, *Adhyaya* 19 *Vranitopasniya*.

Criteria for assessment

The effect of the trial drug will be assessed in term of

- ➤ Subjective Assessment
- ➤ Objective Assessment

Subjective Assessment

The following signs and symptoms of Dushta *Vrana* were assessed for any improvement before and after the course of therapy

1. Vedana (Pain):

No pain -0

Localized feeling of pain during movement only but no feeling during rest - 1

Localized feeling of pain during movement only but no feeling during rest - 2

Localized continuous feeling of pain, radiating & not relieved by rest - 3

2. Kandu (Itching sensation):

No itching - 0

Slight, localized itching sensation which is relieved by rest - 1

More localized & often itching but not disturbs sleep - 2 Continuous burning sensation with disturbed sleep - 3

- 3. Shotha (Swelling):
 - Absent 0

Slight red, tender & hot with painful movement & without inducation - $1 \$

Redder, having painful movement, with more local

temperature & with Inducation - 2 Angry look, hot, resist to touch & with more inducation -3

4. *Daha* (Burning sensation): No burning - 0

No buinning - 0

Little, localized & some time feeling of burning sensation - 1

More, localized & often burning sensation which does not disturb sleep - 2

Continuous itching with disturbed sleep - 3

- 5. *Akriti* (Size): Less than $< 1 \text{ cm}^2 1$
- $1to 5 \text{ cm}^2 2$
- $6 \text{ to } 10 \text{ cm}^2 \text{ -} 3$
- More than $> 10 \text{ cm}^2$
- Vrana varna (Discoloration): Normal pigmentation of skin - 0 Slight red - 1 Reddish black - 2 Pale yellow / Blackish / Bluish -3
- 7. Base/floor:

Smooth, regular & with healthy granulation tissue - 0 Smooth, irregular, slight discharge, less granulation tissue, needs dressing & soft scar - 1 Rough, regular wet with more discharge, needs dressing & having firm scar -2

Rough, irregular with profuse discharge, needs frequent dressing & having hard scars - 3

8. Margin:

Adheres margin and surface - 0 Smooth, even & regular - 1 Rough, regular & inflamed - 2 Rough, irregular & angry look - 3

- 9. Srava (Discharge): No discharge / dry dressing - 0 Scanty occasional discharge & little wet dressing - 1 Often discharge & with blood on dressing - 2 Profuse, continuous discharge which needs frequent dressing - 3
- Granulation: Healthy - 0 Moderate - 1 Unhealthy - 2 Absent - 3
- 11. Vranagandha (Smell):

No smell - 0

- Bad smell 1
- Tolerable unpleasant 2
- Foul smell which is intolerable 3

For Nonparametric Data Wilcoxon matched pairs signed rank test while paired "t" was used for parametric Data Dasrath, et al.: A Clinical Study on Jalaukavcharana Follow With Karanjadi Ghrita Dressing for the Management of Dushta Vrana w.s.r. to Non-Healing Ulcer: 2021; 4 (11):33-37

and results were calculated (Table 3)

DISCUSSION

Jalauka reduces increased Pitta & Rakta Dosha in Dushta Vrana, relieving Daha. Karanjadi Ghrita thus used contains Chandan, Ushir, Kutaki, Sariva, Neelkamal and Ghrita. All these drugs are of Sheet virya, Soumya guna and Madhura vipaka which helps in reducing Daha. Other contents of Karanjadi Ghrita as Karanj, Jati, Haridra, Daruharidra, Chandana, Ushir having Kandughana, Karmighana and Kushthagana properties which reduces Kandu in Dushta Vrana. Katutikta rasa of Karanjadi Ghrita have Shothaghana property.

The saliva of Jalauka contains hirudine, histamine, calin, bedellins, hitamine and hyluronidage which act as vasodilator, anti-coagulant, antibiotic. antiand inflammatory properties, these qualities of Jalauka helps in wound healing and reduce in wound Aakriti. Karanjadi Ghrita was a significant decrease in the Size of Vrana due VranaRopan and VranaShodhak effect to and Kandughana, Karmighana, Kusthagana Karma of medication such as Karanj, Jati, Haridra, Daruharidra, Chandan, Ushira helps in shrinkage of the Dushta Vranaaakriti.

Karanjadi Ghrita are also containing *Madhur Rasa*, which provides nourishment to the wound and helps in increasing healthy tissue. Hence this study confirms that *Jalaukavchrana* followed by *Karanjadi Ghrita* is promote granulation in *Dushta Vrana*.

CONCLUSION

Standardization should be done of *Vranashodhan* and *ropan* effect of *Jalaukavcharan* followed by *Karanjadi Ghrita*. Trial should be on a broad scale for good results. The treatment protocol should be extended to get better results and track the rate of recurrence.

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REFERENCES

- 1. Purohit et al A handbook of medicinal plants ,agrobios, India.2008.
- 2. Sharma P Dravyaguna vigyan, vol.2, Chaukhambha Bharti academy, Varanasi.2001.
- 3. Nadkarni A.K Indian Materia medica, vol. 1, Bombay popular prakashan.2001
- 4. Ibidem Sushrut Samhita sutra sthan 13/23.
- 5. Srikanthamurthy K.R, Vagbhata's Ashtang Hridaya, Chaukhambha Krishna das Academy, Varanasi; 2006.
- 6. Srikanthamurthy K.R, Vagbhata's Ashtang Hridaya, Chaukhambha Krishna das Academy, Varanasi; 2006.
- Shastri A.D Sushruta Samhita, Maharshi Sushruta with Ayurved Tattva Sandipika, Sutra Sthana, 13/12. edition, Chaukhambha Sanskrit Sanasthan, Varanasi; 2010
- Peter Oxford's textbook of surgery , 2ndedition. Published by Scientific Book Company Patna.2009.
- 9. Schwart'z principle of surgery, 9th edition.
- Rajgopal K, Manipal manual of surgery, by K. Rajgopalshenoy, 3rd edition.2013
- Das S A concise textbook of surgery by S. Das 7th edition Chapter1. Published by Scientific Book Company Patna 2012
- 12. Bailey & Love's short practice of surgery 24th edition.2009
- Das S A concise textbook of surgery by S. Das 7th edition Chapter1. Published by Scientific Book Company Patna 2012.
- Dow G, A Infection in Chronic Wounds: Controversies in Diagnosis and Treatment. Ostomy/Wound Management 1999.
- 15. Atri S.C Handbook of surgery, 3rdedition, Published by Scientific Book Company Patna. 2009.
- 16. www.wikepedia.com

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MEDICINE	RASA	GUNA	VIRYA	VIPAKA	KARMA
Karanjadi	Tikta	Laghu	Ushna	Madhura	Vrana Rpoan
Ghrita		Ruksha			Vishaghna
					Dhatu Poshan

Table 1 Pharmacodynamic properties of Karanjadi Ghrita

Table 2 Drug administration and dose

Treatment	Α	В	
Drug used	Karanjadi Ghrita	Jalauka	
Form	Ghrita		
Dose	As per need		
Route of	Local application	LOCAL	
administration			
Duration	everyday	7 days	

Table 3 For Nonparametric Data Wilcoxon matched pairs signed rank test while paired "t" was used for parametric Data and results were calculated

S. No.	VARIABLES	MEAN		MEAN DIFF.	RELIEF %
		B. T.	A. T.		
1.	Vedana	2	0.8667	1.133	56.65
2.	Daha	1.983	1.083	0.9	45.38578
3.	Kandu	2.033	1.15	0.883	43.43335
4.	Shotha	1.883	1.033	0.85	45.14073

S. No.	VARIABLES	MEAN		MEAN DIFF.	RELIEF %
		B. T.	A. T.]	
1.	Akariti	7.539	3.928	3.666	48.62714
2.	Vranavra	1.733	0.9833	0.7497	43.26024
3.	Floor	1.833	0.833	1	54.55537
4.	Margin	1.783	0.8667	0.9163	51.39091
5.	Vranastrava	1.817	0.8667	0.9503	52.70
6.	Granulation	1.783	0.8666	0.9167	51.41335
7.	VranaGandha	1.483	0.733	0.75	50.57316