

## A REVIEW ON DIFFERENT YOGAS USED IN THE MANAGEMENT OF MANDALI DAMSA VRANA W.S.R. TO KRIYAKAUMUDI

Dr. Haritha M.<sup>1\*</sup>, Dr. Ravikrishna S.<sup>2</sup> and Dr. Chaithra Hebbar<sup>3</sup>

<sup>1</sup>P.G. Scholar, Department of P.G. Studies In Agadatantra, SDM College of Ayurveda, Udupi.

<sup>2</sup>Associate Professor, Department of P.G. Studies In Agadatantra, SDM College of Ayurveda, Udupi.

<sup>3</sup>HOD, Department of P.G. Studies In Agadatantra, SDM College of Ayurveda, Udupi.

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\*Corresponding Author

Dr. Haritha M.

P.G. Scholar, Department of  
P.G. Studies In Agadatantra,  
SDM College of Ayurveda,  
Udupi.

### ABSTRACT

*Vrana* is the condition that which characterised by the absence in the continuity of skin or other tissues. *Acharya Susruta* in *Dvivriniya Adhyaya* classifies *Vrana* in to *Sarira* and *Agantu*. *Mandali sarpa damsa* is very much prone to the formation of *Vrana* as it causes *Pitta dosa prakopa*. *Kriyakaumudi* written by V.M. Kuttikrishna Menon is one of the well-known Malayalam *Visha Chikitsa* textbook which explains *Visha* in all its aspects. There are numerous *Yogas* mentioned for the management of *Mandali visha janya Vrana* in the context of *Mandali Visha prakarana*. Various *Prayogas* such as *Pana*, *Lepa*, *Dhara*, *Avachurnana*, *Kshalana* etc. were mentioned in the management. Utilization of *Upavishas* such as *Kupilu*, *Dattura*, *Eranda*, *Ahiphena* etc. in the management of *Vrana* can be seen in this particular section. Hence this work is an attempt to do review on the *Yogas* mentioned in the management of *Mandali visha janya Vrana*.

All information regarding *Vrana*, *Mandali damsa* and *Vrana Chikitsa* was collected from *Samhithas*, *Kriyakaumudi*, Ayurvedic text books and other authentic sources.

**KEYWORDS:** *Vrana*, *Mandali damsa*, *Mandali visha janya Vrana*, *Kriyakaumudi*, *Pitta dosa*.

## INTRODUCTION

*Vrana* is derived from the root word “*Vran*” meaning “splitting/ tearing of the body. That which causes discontinuity of the skin and other tissues under it, ie., *Vrana*. *Vrana* is classified in to two kinds, *Sareera* and *Agantu*; among these, *Sareera Vrana* are caused by *Vata*, *Pitta*, *Kapha*, *Rakta* and *Sannipata*. *Agantu Vrana* are caused by assault/injury from human beings, animals, falling from heights, pressing/ squeezing, hit/blow, injury by fire, alkalies, poison, strong penetrating drugs, splints of wood, potshed, horns of animals, disc, arrow, axe, trident, mace and such other weapons.<sup>[1]</sup> Hence *Vrana* caused by *Sarpa damsa* can be considered as *Agantuja Vrana*. As *Mandali Sarpa* is *Pitta dosha pradhana*<sup>[2]</sup>, *Mandali damsa* is highly susceptible to cause *Vrana* than other group of *Sarpa*. *Mandali damsa* can be correlated with Viper bite. Viper venom has platelet aggregating activity and also thrombin like effect which produces thrombocytopenia and hypofibrinogenemia. As a result, they causes local venous vasculopathy causing swelling, blisters and necrosis.<sup>[3]</sup>

*Vrana* caused by such bites are usually treated with normal *Vrana sodhana* and *Ropana drugs* or else by following *Dushtavrana Chikitsa*. But the traditional *Visha chikitsa* textbooks have explained exclusive treatment procedures and *Yogas* in the management of such *Vrana*. *Kriyakaumudi* written by V.M. Kuttikrishna Menon is one such textbook which explains *Visha chikitsa* in detail. Here the author have given a separate section for explaining management of *Mandali visha janya Vrana* in the Chapter of *Mandali visha prakarana*.<sup>[4]</sup> About 34 *Yogas* including *Paranthyadi taila* have been explained in the management of *Vrana* in various forms such as *Pana*, *Lepa*, *Dhara*, *Avachurnana* etc. And also includes many *Taila* and *Ghrita Yogas*. Hence this article is an attempt to review the *Yogas* mentioned in the management of *Mandali visha janya Vrana*.

## REVIEW OF LITERATURE

Table no. 1: Preparations used in the management of *Mandali Damsa Vrana*.

Sl. No.	Preparations	Mode of Administration	Indication	Reference
1.	<i>Dattura phala</i> ( <i>Datura metel</i> ), <i>Lavana jala</i> , <i>Sakruth</i> (faeces) of Black cow, <i>Vamsha twak</i> ( <i>Bambusa bambos</i> Druce.), <i>Saindhava</i> (Rock salt), <i>Vellarumakallu</i> (white Pebble), <i>Patha</i> ( <i>Cyclea peltata</i> Hook.fil & Thoms), <i>Elanakkari</i> ( <i>Grahadhooma</i> ), <i>Haridra</i> ( <i>Curcuma longa</i> Linn.), <i>Daruharidra</i> ( <i>Berberis aristata</i> D.C.), <i>Kupilu moola</i> ( <i>Strychnos nuxvomica</i> )- these drugs should boil in <i>Kanji</i> , later triturate and made in to fine paste by adding <i>Dattura Swarasa</i>	<i>Lepa</i>	<i>Mandali Damsa Visha</i> and <i>Upadrava</i>	*K.K.-Mandali visha prakarana/467-471
2.	<i>Nalpamara</i> ( <i>Ficus carica</i> , <i>Ficus infectoria</i> , <i>Ficus religiosa</i> & <i>Ficus bengalensis</i> ) <i>patra swarasa</i> , <i>Kadali kantha</i> ( <i>Musa</i> <sup>x</sup> <i>paradisiaca</i> ) <i>Swarasa</i> to these add <i>Ashwaganda</i> ( <i>Withania somnifera</i> L.), <i>Chandana</i> ( <i>Santalum album</i> Linn.) and made in to <i>Kalka</i>	<i>Lepa</i>	<i>Vedana</i> , <i>Puya</i> , <i>Vrana</i> and <i>Ushna</i> due to <i>Pulaka</i> (a variety of Snake) <i>damsa</i> will be reduced	K.K.-Mandali visha prakarana/483
3.	<i>Haritaki</i> ( <i>Terminalia chebula</i> Retz.), <i>Kumari</i> ( <i>Aloe barbadensis</i> Mill.), <i>Nirgundi moola</i> ( <i>Vitex negundo</i> Linn.), <i>Dattura patra</i> , <i>Karanja twak</i> ( <i>Pongamia pinnata</i> (Linn) Merr.), <i>Ushira</i> ( <i>Vetiveria zizanioides</i> (Linn.) Nash.), <i>Chandana</i> ( <i>Santalum album</i> Linn.), <i>Vacha</i> ( <i>Acorus calamus</i> Linn.), <i>Haridra</i> ( <i>Curcuma longa</i> Linn.), <i>Maricha</i> ( <i>Piper nigrum</i> Linn.), <i>Kataka</i> ( <i>Strychnos potatorum</i> Linn.f.), <i>Chincha twak</i> ( <i>Tamarindus indica</i> Linn.), <i>Alpa moola</i> ( <i>Chakrani- Thottea siliquosa</i> ), <i>Kupilu moola</i> ( <i>Strychnos nux vomica</i> Linn.), <i>Musta</i> ( <i>Cyperus rotundus</i> Linn.), <i>Iswari</i> ( <i>Aristolochia indica</i> Linn.), <i>Nimba</i> ( <i>Azadirachta indica</i> A.juss.) <i>twak</i> - boil these ingredients in equal quantity <i>Ksheera</i> and <i>Tandulodaka</i> (Rice washed water), later do <i>Bhavana</i> by add half quantity of <i>Gruhadhooma</i> and add <i>Nrujala</i> ( <i>Nara mutra</i> )	<i>Lepa</i>	<i>Swayathu</i> , <i>Ushma</i> , <i>Puya</i> , <i>Vrana</i>	K.K.-Mandali visha prakarana/484-487
4.	<i>Sudha</i> (limestone), <i>Tuttha</i> (Copper sulphate), <i>Shankha</i> ( <i>Turbinella pyrum</i> ) <i>choorna</i> , <i>Tankana</i> (Borax) – <i>gritha</i> is prepared out	<i>Pana</i>	<i>Vrana</i>	K.K.-Mandali visha prakarana/488
5.	<i>Alpamarisa</i> (( <i>Chakrani- Thottea siliquosa</i> )	<i>Lepa</i>	<i>Mandali Vrana</i>	K.K.-Mandali

	<i>moola</i> , <i>Chandana</i> ( <i>Santalum album</i> Linn.) are made in to paste		<i>ropana</i>	<i>visha prakarana/491</i>
6.	<i>Iswari patra swarasa</i> ( <i>Aristolochia indica</i> Linn.), mixed with <i>Shikhi piccha</i> (Peacock feather) <i>Bhasma</i>	<i>Lepa</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/493</i>
7.	<i>Nisha</i> ( <i>Curcuma longa</i> Linn.), <i>Chammravalli</i> ( <i>Ampelocissus latifolia</i> ), <i>Bhumyamalakai</i> ( <i>Phyllanthus niruri</i> Linn.), <i>Durva</i> ( <i>Cynodon dactylon</i> Linn. Pers.), <i>Sahapanal moola twak</i> ( <i>Ashvashakota- Glycosmis pentaphylla</i> ), <i>Iswari</i> ( <i>Aristolochia indica</i> Linn.), <i>Triphala</i> ( <i>Amalaki</i> ( <i>Phyllanthus emblica</i> L.), <i>Bibhitaki</i> ( <i>Terminalia bellirica</i> (Gaertn.) Roxb.) add equal quantity of <i>Nalikera Ghrita</i> then add <i>Tankana</i> fried in <i>Ghritha</i>	<i>Lepa</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/494</i>
8.	<i>Ekanayaka</i> ( <i>Salacia reticulata</i> Wight) <i>moola twak</i> made in to paste without water later added with <i>Krishna (maricha)</i> ( <i>Piper nigrum</i> Linn.)	<i>Lepa</i>	<i>Vrananasha</i>	<i>K.K.-Mandali visha prakarana/513</i>
9.	<i>Ekanayaka</i> ( <i>Salacia reticulata</i> Wight) <i>moola twak</i> is fried and made in to <i>Churna</i>	<i>Avachurnana</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/514</i>
10.	<i>Purana Nalikera Ajyam</i> ( <i>Taila</i> prepared out of Coconut)- 4 <i>Naazhi</i> **, 4 times <i>Durva swarasa</i> , <i>Maricha Kalka</i> - <i>Taila</i> is out prepared	<i>Dhara</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/520-1</i>
11.	<i>Brahmi</i> ( <i>Bacopa monnieri</i> (Linn) Penn) and <i>Durva swarasa</i> , <i>Purana Nalikera Ghrita</i> , add <i>Haridra kalka</i> , <i>Nalpamara twak</i> , <i>Madhuka</i> ( <i>Madhuca indica</i> J.F.Gimel.), <i>Vyosha</i> ( <i>Shunti- Zingiber officinale</i> Rosc., <i>Maricha- Piper nigrum</i> Linn. <i>Pippali- Piper longum</i> Linn.), <i>Manashila</i> (Arsenic disulphide), <i>Paranthi moola</i> ( <i>Ixora coccinea</i> Linn.) and <i>Taila</i> is prepared out	<i>Prokshana or Dhara</i>	<i>Vrana , Vishanasham</i>	<i>K.K.-Mandali visha prakarana/522-4</i>
12.	Above drugs <i>Kalka</i> can be prepared	<i>Lepa</i>	<i>Vrana, Vishanasham</i>	<i>K.K.-Mandali visha prakarana/522-4</i>
13.	<i>Mrudukunchika</i> ( <i>Physalis minima</i> Linn.), <i>Durva</i> , <i>Raktaapamarga</i> ( <i>Achyranthes rubrofuscus</i> ), <i>Paribadra patra</i> ( <i>Erythrina indica</i> ), <i>Haridra</i> should do <i>mardhana</i> and <i>Swarasa</i> is collected then add <i>Nalikera Ghrita</i> as <i>Sneha</i> and boil it by adding equal quantity of <i>Vacha</i> , <i>Ekanayaka</i> , <i>Daruharidra</i> , <i>Paranthi moola</i> , <i>Patha moola</i> , <i>Urirooki</i> ( <i>Ishwaramooli</i> ), <i>Katutraya</i> ( <i>Vyosha</i> ), <i>Manjishta</i> ( <i>Rubia</i>	<i>Dhara</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/525-8</i>

	<i>cordifolia</i> ), <i>Chandana</i> , <i>Shyama</i> ( <i>trivruth-</i> ( <i>Operculina turpethum</i> ) as <i>Kalka</i> ; <i>Taila</i> is prepared out			
14.	<i>Kashaya</i> is prepared out of <i>Ekanayaka moola twak</i> , add 1/4 <sup>th</sup> <i>Ghrita</i> ; <i>Pachana</i> should be done in <i>Mandagni</i> , add <i>Durva swarasa</i> (equal quantity of <i>Kashaya</i> ), 1/2 th quantity <i>Jatipatra swarasa</i> ( <i>Myristica fragrans</i> Houtt.) and 1/2 th quantity <i>Jambeera swarasa</i> ( <i>Citrus limon</i> (Linn.) Burm. f.) add <i>Ekanayaka moola</i> as <i>kalka</i> ; <i>Ghrita</i> is prepared out	<i>Lepa</i>	<i>Vishaja Vrana</i>	<i>K.K.-Mandali visha prakarana/528-31</i>
15.	As above <i>Ghrita</i> can be prepared out with; <i>Dasapushpa swarasa</i> ( <i>Evolvulus alsinoides</i> , <i>Cynodon dactylon</i> , <i>Emilia sonchifolia</i> , <i>Ipomoea sepiaria</i> , <i>Aerva lanata</i> , <i>Curculigo orchoides</i> , <i>Eclipta alba</i> , <i>Cyanthillium cinereum</i> , <i>Biophytum sensitivum</i> , <i>Cardiospermum halicacabum</i> ), <i>Kalka</i> of <i>Kupilu pallava</i> , <i>Nanmanjal</i> ( <i>haridra</i> ), <i>Patha</i> (white variety), <i>Tamboola</i> , <i>Yashti</i> , <i>Sariva</i> , <i>Agori</i> , <i>Neelimoola</i> , <i>Vacha</i> , <i>Sweta Chandana</i> , <i>Rakta Chandana</i>	<i>Lepa</i>	<i>Vrana sodhana and Ropana</i>	<i>K.K.-Mandali visha prakarana/531-3</i>
	Above drugs <i>Kalka</i> can be prepared	<i>Lepa</i>	<i>Vrana sodhana and Ropana</i>	<i>K.K.-Mandali visha prakarana/531-3</i>
16.	<i>Parantyadi Taila</i>	<i>Lepa</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/534-47</i>
17.	<i>Nalpamara Twak</i> and <i>Dasapushpa</i> is made in to paste and <i>swarasa</i> is taken; <i>Triphala</i> , <i>Pippali</i> , <i>Dineshavalli</i> , <i>Kupilu beeja</i> , <i>Vajamoja</i> ( <i>Ajamojam- Trachyspermum roxburghianum</i> ), <i>Bhang</i> , <i>Krishna jeeraka</i> are taken as <i>Kalka</i> , <i>Tila taila</i> is added and boiled and <i>Taila</i> is prepared	<i>Sthapana</i> of cloth dipped in <i>Taila</i> over <i>Vrana</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/548-9</i>
18.	<i>Karanja twak</i> should do <i>Mardhana</i> , boiled in water and reduced in to half	<i>Kshalana</i>	<i>Mandali Vrana Ropana</i>	<i>K.K.-Mandali visha prakarana/550</i>
19.	Ripened <i>Nalikera</i> should drill and water should be removed and fill it with <i>Bhunaga</i> (6 <i>Kaanam</i> ***), <i>Shudha gandhaka</i> , <i>Guggulu- 1/2 pala</i> , <i>Ghrita- 1/2 pala</i> and boil in <i>Gomutra</i> , after boiling break the coconut and do <i>Bhavana</i> , dry it and later squeeze to produce <i>Ksheera</i> ; <i>Taila</i> is prepared out in <i>Mrudupaka</i> and stored in container	<i>Dhara</i> for 3 days	<i>Ropana of Mandali Vrana</i>	<i>K.K.-Mandali visha prakarana/551-2</i>



20.	<i>Chinch twak Bhasma</i>	<i>Avachurnana</i>	<i>Dushta Vrana</i>	<i>K.K.-Mandali visha prakarana/555</i>
21.	Well ripened <i>Nalikera</i> should be taken, drill and remove the water, fill it with <i>Jambeera rasa</i> , <i>Kacha Churna</i> , <i>Ghrita</i> and should heat in <i>Mandaghni</i> , later <i>Taila</i> is pressed out and kept in container	<i>Lepa</i>	<i>Mandali and Lootha Vrana</i>	<i>K.K.-Mandali visha prakarana/556-7</i>
22.	<i>Swarasa</i> of <i>Ksheera dhruma pallava</i> was taken out by <i>Mardhana</i> , add 1 <i>Pala</i> of <i>Dasapushpa</i> , 1 <i>Pala</i> of <i>Paranthi pusha</i> , 22 <i>Karskara beeja</i> ( <i>beeja</i> was taken by boiling in water, inner sprout and outer covering removed) and <i>Bhavana</i> was done then add <i>Kera taila</i> ( 1 <i>naazhi</i> ), boil it till it gets blue colour	<i>Pana</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/558-61</i>
23.	<i>Dasapushpam</i> , <i>Paribadra patra</i> , <i>Susavi</i> , <i>Nirgundi</i> , <i>Jatipatra</i> , <i>Eranda patra</i> , <i>Bhumyamalaki</i> , <i>Mrudukunchika</i> , <i>Haridra</i> , <i>Dattura patra</i> all drugs should be taken in the quantity of 3 <i>Pala</i> , add 8 <i>Edangazhi</i> **** water and do <i>Mardhana</i> and squeeze and collected that juice, add <i>Saindhava</i> , <i>Chandana</i> , <i>Manjishta</i> , <i>Kushta</i> , <i>Triphala</i> , <i>Yasthi</i> , <i>Hriversa</i> , <i>Nishadwayam</i> , <i>Ushira</i> , <i>Tankana</i> ( all in the quantity of 2 <i>Kazhanj</i> ***** each), add <i>Tila taila</i> , <i>Kerataila</i> , <i>Ghrita</i> (each 1 <i>naazhi</i> ); <i>Taila</i> should prepare in <i>Mrudupaka</i>	<i>Lepa</i>	<i>Swayathu and Vrana</i>	<i>K.K.-Mandali visha prakarana/562-6</i>
24.	<i>Ashvashsakota twak</i> and <i>moola</i> , <i>Iswari</i> , <i>Triphala</i> , <i>Tankana</i> add <i>Nalikera Ghrita</i> and do <i>Bharjana</i> , after proper frying of <i>Kalka</i> , take it out and paste is made out	<i>Lepa</i>	<i>Vishaja Vrana</i>	<i>K.K.-Mandali visha prakarana/567-8</i>
25.	<i>Ekanayaka moola twak</i> made in to paste without water , add <i>Ahiphena</i> and made in to paste	<i>Lepa</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/569</i>
26.	Same above mentioned drugs should be fried and made in to <i>Choorna</i>	<i>Avachurnana</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/570</i>
27.	<i>Susavi angura</i> made in to paste with <i>Uruginpodi</i> ( <i>Ayoraja</i> )	<i>Lepa</i> for 3 days in <i>Madhu</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/571</i>
28.	<i>Yasthimadhu</i> , <i>Aragwada twak</i> , <i>Kushta</i> , <i>Ashwagandha</i> , <i>Balamoola</i> , <i>Bilwa moola</i> , <i>Dhanyaka</i> , <i>Karimchurakka</i> ( <i>Koshataki</i> ), <i>Krishna Jeeraka</i> (each 1 <i>Kazhanj</i> ), <i>Madhusnuhi</i> (6 <i>Kaanam</i> ); these drugs should boil in 6 <i>naazhi Jala</i> and should reduce to 1/4 <sup>th</sup>	<i>Pana</i> – Daily 4 times ( <i>Matra-Uzhakku</i> <sup>#</sup> )	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/572-4</i>
29.	<i>Pravala Khadaka</i> ( <i>Coral reef</i> ), <i>Tuttha</i> ,	<i>Lepa</i>	<i>Vrana</i>	<i>K.K.-Mandali</i>

	<i>Bakuchi, Vidanja, Jyotishmati</i> ( each 1/4 <sup>th</sup> quantity), <i>Chunchundara mamsa, Sarpa mamsa</i> (Green wine snake)(both 3/4 <sup>th</sup> quantity ); add <i>Nimba taila</i> , boil and <i>taila</i> should prepared out			<i>visha prakarana/575-7</i>
30.	<i>Tuttha- Aksha pramana</i> <i>Rasa – Tamraka Pramana</i> <i>Sudha (limestone)- Kramaka Pramana</i> All these drugs should mix together and add double the quantity of <i>Go Navaneetha</i>	<i>Lepa</i>	<i>Mandali Vrana, Sarva Vrana</i>	<i>K.K.-Mandali visha prakarana/578-9</i>
31.	<i>Kumari swarsa, Ghrita, Shankha bhasma-Pachana</i>	<i>Lepa</i>	<i>Agnidagda like Vrana and Swayathu</i>	<i>K.K.-Mandali visha prakarana/580</i>
32.	<i>Lodhra twak, Chandana, Hribera twak, Ushira, Paranthi Pushpa angora, Shrivati moola, Bala moola, Triphala</i> , all drugs should boil in <i>Ksheera</i> then do <i>Bhavana</i> in egg yolk, <i>Navaneetha, Mulaneeru</i> (breast milk)	<i>Lepa</i> 1 <sup>st</sup> do <i>Vimlapana</i> and contents should be drained out and followed by <i>Lepana</i> ; this will prevent inflammation and bursting of <i>Vrana</i>	<i>Vrana</i>	<i>K.K.-Mandali visha prakarana/581-2</i>
<p>* K.K. - <i>Kriya Kaumudi</i>  ** 1 <i>naazhi</i>; approx.-200gms  *** 1 <i>Kaanam</i>- 0.4 gms  **** <i>Edangazhi</i> -16 <i>pala</i> -768gms  ***** <i>Kazhanj</i>- 4gms (weight equal to the weight of <i>Caesalpinia bonduc</i> seed)  # <i>Uzhakku</i>- traditional measuring cups with a height of 5cm and diameter 6cm</p>				

## DISCUSSION

The entire article is regarding the *Yogas* used in the management of *Mandali visha janya Vrana* explained in *Kriyakoumudi*. There are about 32 number of *Yogas* mentioned in the management of *Vrana*; among that 18 *Lepa Yogas*, 3 *Dhara Yogas*, 4 *Avachurnana Yogas*, 1 *Kshalana Yoga*, 2 *Pana Yogas* are explained. Majority of the *Yogas* mentioned in this section are either *Gritha* or *Tila Kaplana*; ie, 8 *Taila* and 3 *Gritha Yogas* are explained.

*Chandana, Haridra, Triphala, Nalikera, Iswari, Jati, Ekanayaka, Dasapushpa, Yashtimadhu, Tuttha, Tankana, Ushira, Nalpamara, Durva* are the drugs which are frequently used in treatment of *Vrana* among that ***Chandana, Haridra, Triphala*** are the most frequently used. *Upavishas* such as *Dattura Phala* and *Patra, Kupilu Moola* and *Beeja, Bhang, Eranda Patra, Ahiphena* are mentioned in the management of *Vrana* and *Dattura* and *Kupilu* is the most frequently used in the management.

**Table no. 2: Frequently used drugs and *Upavishas* used in the *Vrana* management with its *Rasa* and *Karma*.**

Drugs	Rasa	Karma
<i>Chandana</i> <sup>[5]</sup>	<i>Tikta, Madhura</i>	<i>Raktaprasadana, Dahahara, Krimighna, Twakdosahara</i>
<i>Haridra</i> <sup>[5]</sup>	<i>Tikta, Katu</i>	<i>Vranahara, Vishaghna, Krimighna</i>
<i>Nalikera</i> <sup>[6]</sup>	<i>Madhura</i>	<i>Dahahara</i>
<i>Iswari</i> <sup>[6]</sup>	<i>Katu, Tikta, Kashaya</i>	<i>Vishaghna, Sothahara, Vedanasthapana, Krimighna, Raktasodhaka</i>
<i>Jati</i> <sup>[6]</sup>	<i>Tikta, Kashaya</i>	<i>Vishaghna, Vrananasaka</i>
<i>Ekanayaka</i> <sup>[6]</sup>	<i>Tikta, Kashaya</i>	<i>Sothahara</i>
<i>Yashtimadhu</i> <sup>[5]</sup>	<i>Madhura</i>	<i>Vranahara, Visaghna, Sothahara,</i>
<i>Tuttha</i> <sup>[7]</sup>	<i>Kashaya, Madhura</i>	<i>Vishaghna</i>
<i>Tankana</i> <sup>[7]</sup>	<i>Katu</i>	<i>Vranasodhaka, Vranaropaka</i>
<i>Ushira</i> <sup>[5]</sup>	<i>Tikta, Madhura</i>	<i>Vishaghna, Vranaropaka, Dahasamaka, Raktadosahara</i>
<i>Durva</i> <sup>[5]</sup>	<i>Tikta, Madhura, Kashaya</i>	<i>Dahahara</i>
<b><i>Upavisha</i></b>		
<i>Dattura</i> <sup>[6]</sup>	<i>Tikta, Kashaya, Madhura</i>	<i>Vishahara, Vranahara, Krimighna, Kandughna, Sulahara,</i>
<i>Kupilu</i> <sup>[5]</sup>	<i>Tikta, Katu</i>	<i>Vranahara, Kandughna</i>
<i>Bhang</i> <sup>[8]</sup>	<i>Tikta</i>	<i>Vedanasthapana, Sulaprashamana</i>
<i>Eranda</i> <sup>[5]</sup>	<i>Kashaya, Madhura, Katu</i>	<i>Krimighna, Sulahara</i>
<i>Ahiphena</i> <sup>[5]</sup>	<i>Tikta, Kashaya</i>	<i>Vedanasthapaka</i>

From the above mentioned table it is clear that *Tikta, Madhura, Kashaya* and *Katu* are the *Rasas* seen predominantly in these drugs. *Tikta Rasa* is *Vishaghna, Krimighna, Daha* and *Kandu Prashamana, Lekhana, Kledasoshaka*; *Madhura Rasa* is *Vishahara, Dahaprasamaka*; *Kashaya Rasa* is *Ropana, Soshana, Sarirakledopayukta, Lekhana, Asravisodhana, Artinasaka*; *Katu rasa* is *Vrananavasadayati, Kriminhinasti*.<sup>[9]</sup> and their *Karma* itself clears that they are *Vishghna, Vranahara, Raktasodaka, Vedanasthapaka* by action.

Wound healing activity of topical Triphala (10% w/w) was assessed in incision wound model in Sprague Dawley rats and study concludes that, the rats locally treated with Triphala the tensile strength was significantly more than all the control study treatments, thus indicating that in Triphala treated surgical wound, healing was better. Triphala being a herbal extract effectively arrests bleeding of fresh wounds, inhibits microbial growth and accelerates wound healing.<sup>[10]</sup>



In a Case Study on Management of Chronic Non Healing Wound by Ayurvedic Medicines Nalpamaradi Kashaya is used for kshalana of Dushta Vrana and it was found to be effective in faster wound epithelialization, and reducing wound exudates.<sup>[11]</sup>

An in vitro scratch assay using L929 cell line was conducted to analyze the property of Dasapushpam when used in a Ghritham. And results was the antimicrobial and antioxidant properties of the contents of Dasapushpagritham play a crucial role in the inflammatory phase.<sup>[12]</sup>

According to *Acharya Susruta*; *Lepa* is having property such as *Srava Sannirodha*, *Puti mamsa Apakarshana* and *Vrana Suddhi*. According to *Sasthi Upakrama* of *Vrana*, *Acharya* mentioned *Kashaya* (for *kshalana*), *Kalka* (for *lepa*), *Sarpi*, *Taila*, and *Avachurnana* for *Sodhana* and *Ropana* of *Vrana*. Along with that *Acharya* also explains *Vrana* caused by *Visha* or *Agantuja* should be treated with *Ghritha Prayoga*.<sup>[1]</sup>

## CONCLUSION

*Kriyakaumudi* is a comprehensive textbook on *Visha chikitsa* in Malayalam, which explains *Visha* in its all aspects. *Mandali Visha Chikitsa* is explained in detail with its *Upadrava* and management. There explains the *Mandali Damsa Janya Vrana* and *Chikitsa*. More than 30 preparations have been explained exclusively for *Mandali Vrana Chikitsa*. That includes *Taila*, *Ghritha* preparations and various mode of administration such as *Lepa*, *Kshalana*, *Avachurnana*, *Dhara*, *Pana* etc. As we go through the preparations it is clear that those are *Vishaghna*, *Vranaropana*, *Raktasodaka*, *Pittasamka* etc., these will contribute to the *Ropana* of the *Vrana* caused by *Mandali Damsa*.

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