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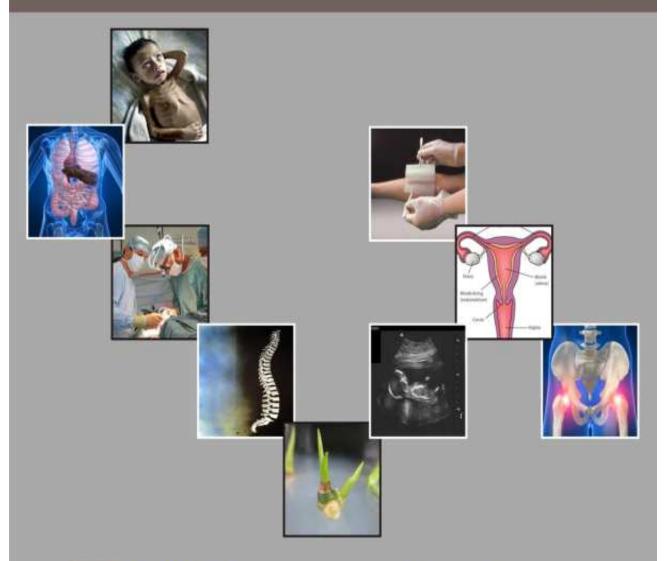
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CONCEPT OF WOUND (VRANA) IN AYURVEDA.

Dr. Gaurav Singh. Rathore* AND Dr Vaibhav B. Wahval**

Declaration

The Declaration of the authors for publication of Research Paper in The Indian Journal of Research Anvikshiki ISSN 0973-9777 Bi-monthly International Journal of all Research: We, *Gaurav Singh. Rathore and Vaibhav B. Wahval* the authors of the research paper entitled CONCEPT OF WOUND (*VRANA*) IN AYURVEDA. declare that, We take the responsibility of the content and material of our paper as We ourself have written it and also have read the manuscript of our paper carefully. Also, We hereby give our consent to publish our paper in Anvikshiki journal, This research paper is our original work and no part of it or it's similar version is published or has been sent for publication anywhere else. We authorise the Editorial Board of the Journal to modify and edit the manuscript. We also give our consent to the Editor of Anvikshiki Journal to own the copyright of our research paper.

Abstract

The wound which is refered to as Vrana in Ayurveda, is perhaps the oldest eliment from which the mankind has suffered from. In ancient Ayurvedic texts a detailed description of this disease is available. There, the Acharyas have described the every aspect of this disease condition in detail and their this effort is exactly very similar to the description available today in the mordern medicine or surgery. Therefore, in the light of these facts this effort have been carried out to collect, discuss and describe the Ayurvedis concept of Vrana, i.e. Wound in brief.

Introduction

The word *Vrana* is derived from *DhatuVru- vrunoti,vrunute. Vrut- varayat-khadayat-aacchadayat;* it means to cover, to conceal and to envelope respectively.

A pathology in which there is consumption (destruction) of body tissue and formation of scar after healing that remains for a lifetime is called as a *Vrana*. Definition of *Vrana* according to *Sushruta* is very broad. Formations of scar after tissue destruction can be either due to extrinsic factor (wound) or it can be due to intrinsic aetiology (ulcer).

Sites of *Vrana* are termed as *VranaVastu* or *VranaAdhishtana* in Ayurveda. These are mainly on basis of involvement of body structures which are categorized mainly under eight sites viz- *Twaka* (skin), *Mamsa* (muscle), *Sira* (vessels), *Snayu* (ligaments), *Asthi* (bones), *Sandhi* (joints), *Koshta* (abdominal and thoracic viscera), and *Marma* (some vital parts of the body like brain).

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Aetiology of Vrana

Sushruta classified Vrana broadly in two categories as Nija (due to intrinsic causes) and Agantuja (due to extrinsic causes).

TABLE 1 Aetiology of Vrana

NijaVrana	AgantujaVrana
Caused by vitiation of basic elements (<i>doshas</i>) of body <i>vata</i> , <i>pitta</i> , <i>kapha</i> , <i>rakta</i> and their combinations.	-inflicted by human beings, animals, birds, beasts, reptiles etc -due to falls, compression, blows, caustic agents, thermal blow, poisons, irritant and corrosive drugs -injuries produced by different kinds of weapons as wheels, arrow, axe, trident, spear, kunta; sharp piece of wood, clay horns etc. -Mantra (Charaka)

Classification of Vrana

Vrana is mainly divided into two categories-*Nija* and *Agantuja*. *Nija* is a term used for *vrana* which is caused due to intrinsic factors whereas *Agantujavrana* is due to external factors like burn, trauma, accidents, animal bites etc. Further classification of *Vrana* on different basis are given in table 2.

TABLE 2 Showing classification of Vrana

Etiological (2)	On basis of clinical features (4)	On basis of prognosis (4)	Accordin	g to site (8)
1.Nija	1. Dushta	1. Sukha sadhya	1.Skin	5. Bone
2. Agantuja	2. Shuddha	2. Kashta sadhya	2.Muscle	6. Joints
	3. Ruhyamana	3. Yapya	3. Vessels	7. Internal organs
	4. Rudha	4. Asadhya	4. Ligament	8. Vital parts

Types of Nija Vrana

On basis of involvement of *doshas*, *Nija Vrana* are classified into 16 types as given in table 3. In first 15 types, there is involvement of vitiated *doshas* whereas *Shuddhavrana* (clean wound) is free from vitiated *doshas*.

TABLE 3 Showing 16 types of NijaVrana

1. Vataja	2. Pittaja	3. Kaphaja	4. Raktaja	5. Vatapittaja	6. Vatakaphaja
7. Vataraktaja	8. Pittakaphaja	9. Pittaraktaja	10. Kapharaktaja	11.Vatapittaraktaja	12.Vatakapharaktaja
13. Pittakapharaktaja 14. Vatapittakaphaja		aja	15. Sannipataja	16. Shuddha	

Sadyovrana (traumatic injury)

Vrana due to sudden injury like accidents, war injury, and trauma by blunt or sharp objects is called as Sadyovrana (see table 5). It is a type of Agantuja Vrana. These are broadly divided into six types according to nature of injury as Chinna (excised), Bhinna (stab injury), Viddha (punctured), Kshata (lacerated), Picchita (Contusions/ hematoma), and Ghrishta (abrasions). Apart from these six types, Vagbhata divided traumatic injuries into seven types; Vriddhavagbhata into fifteen types and Sharangadhara into eight types.

Clinical features of Vrana

NijaVrana: Fifteen types of *Nija vrana* and their clinical features on the basis of pain, colour, discharge, smell and some special characters given in table 4. Clean wound explained later in this chapter.

 $T\,A\,B\,L\,E\,4\,\textit{Clinical features of NijaVrana}$

Type of nijaVrana	Vedana (pain)	Varna (colour)	Strava (discharge)	Gandha (smell)	Other characters
Vataja	Throbbing, stretching, pricking,pi-ercing	Black, red	Cold, slimy, less discharge	Pungent	Tendency to crack; less granu- lation tissue
Pittaja	Burning sensation	Yellow, blue	Warm, light red coloured	Sharp	Tendency to supp- urate, pus- tules
Kaphaja	Constant, excessive itching	Pallor	Whitish, cold, sodden, slimy	Smell like raw meat	Rigid floor, Thick margins, membrano- us covering of veins and ligamen- tous tissue
Raktaja	Like pittajaVrana	Like coral spouts (with black blister)	Blood	Like horse stable, iron like	Tendency to bleed
Sannipat- ataja	Different kinds	Different colours	Different types	Different types	All doshas signs +++
Vatapittaja	Pricking burning,	Yellowis-h red	Yellowish red	Fried paddy	
Vatakaphaja	Itching, pricking	D 1	Cold, slimy, less	Linseed oil	Hard
Vataraktaja Pittakaphaja	Pricking+++ Burning	Red	Blood, red Yellowish white, warm	Sesamum oil	Numbness
Pittaraktaja		Like upper layers of melted	Black	Water of fish spreading	Soft,
butter milk	T. 1.	D 11'	D 11' 1 1		C1:
Kapharaktaja Vatapittaraktaja	Itching Pricking, burning, fuming	Redshiny	Reddish pale Yellow, thin		Slimy, fixed With pulsation
Vatakapharaktaja	Itching, burning		White, thick, blood		With
Pittaraktakaphaja	Itching, burning		White, thick, blood		pulsation Tendency to suppurate
Vatapittakaphaja	Mixture of signs or	f Vataja, pittaja, k	aphaja		

^{2.} AgantujaVrana: These are different kinds of wound inflicted on body due tovarious extrinsic causes (see table 1). Various shapes of traumatic wounds are rectangular, quadrangular, triangular, circular,

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semi-lunar, extensively depressed in centre as a saucer and raised in the centre like barley grain. *Sushruta* broadly classified these wounds into six types as follows:

TABLE 5 Types and characteristics of Sadyovrana

1. Chinna	Excised	Associated with separation of part of body
2. Bhinna	Stab injury	Injury to body cavities resulting in discharge
3. Viddha	Punctured	Body cavity pierced by sharp pointed weapon
4. Kshata	Lacerated	Neither excessively excised nor excessively
		incised
5. Picchita	Crushed	Due to severe blow and pressure
6. Ghrista	Abrasion	Skin gets peeled off due to rubbing injury

Nature of Strava (discharge) in vrana: Apart from this, there is detailed description of type of Strava from Vrana on the basis of involvement of doshas and according to site of Vrana.

TABLE 6 Nature of discharge according site of Vrana

VranaVastu	Nature of discharge
1) Twaka	Yellowish watery discharge; smell of a raw meat
2) Mamsa	Thick, white, slimy discharge like butter milk
3) Sira	If vessels gets torn, there is excessive bleeding
	Suppuration-copious pus discharge that is thin, slimy,
	blackish and looks like a frost
4) Snayu	Greasy, thick; similar to mucoid nasal discharge and
	mixed with blood
5) Asthi	Like water shell of an oyster, mixed with marrow and
	with greasy blood discharge
6) Sandhi	No discharge on applying pressure; discharge on sud-
	den movements; sticky, slimy and appears as if churned
	with blood.
7)Koshtha	Secretion mixed with blood, urine, faecal matter, pus
	and water
8) Marma	Depending upon involvement of organs

Prognosis of Vrana

Sushruta classified Vrana depending upon prognosis mainly in two types: Kritya (curable) and Akritya (Incurable). Description regarding prognosis on the basis of patient's age, strength, site of Vrana, nature of Vrana, associated disease, nature of discharge, smell of Vrana described in Sushruta Samhita.







Difficult to cure wounds



Yapya (Incurable)

Vrana of patients who are young, good physique, powerful and have control on habits are curable. In the young, *Vrana* heals faster because of tendency of body tissues to regenerate faster. In patients with good physique, the muscle being firm and well developed, use of sharp instruments is not likely to damage important structures like vessels, ligaments etc. In powerful patients, even after pain, fatigue doesn't develop due to regulations in dietary habits. In patients having control on their habits, even after surgical procedures they have no complaints.

Yapya is term used for type of wound in which if patient stops treatment he can die immediately. Apart from types mentioned above, *Vrana* which are not at all curable are called as Asadhya *Vrana*. For eg head injury with discharge like cerebrospinal fluid. *AgantujaVrana* having discharge like fatty tissues, bone marrows, CSF are incurable. Abdominal injuries discharging yellowish black urine and stool through *Vrana* are incurable. Emaciated persons with *Vrana* discharging excessive pus mixed with blood and having complications such as indigestion, respiratory tract infection shows very poor response to treatment i.e. Poor prognosis. *Vrana* having smell and discharge other than those explained in doshic types have bad prognosis. *Vrana* heals faster in patients who do not sleep in the day, lives in a house protected from environmental pollution (especially air pollution), and follows instruction of the surgeon.

Concept of wound healing in Ayurveda

Ropana is the sanskrita word which means healing. Vranaropanaliterally means healing of vrana (wound as well as ulcer). Instead of this, Charaka says that Vranawith floor which is not very red, not very pale, not very brownish black, not associated with excruciating pain, no hyper-granulation, or pus pockets are suitable for healing of Vrana. There are four steps in healing of Vrana viz.

- 1) Dushta awastha (stage of inflammation)
- 2) Shuddha awastha (stage of granulation tissue)
- 3) Ruhyamana awastha (stage of maturation and remodelling)
- 4) *Rudha* awastha (stage of contraction)

These are four stages in healing of *NijaVrana*. In *AgantujaVrana*, first stage is *Shuddha* awastha and rest it follows four stages in healing of *NijaVrana*.

- 1) DushtaVrana: The word Dushta literally means bad, wicked, offensive, and culpable. DushtaVrana is defined as Vrana in which vitiation of all four doshas causes chronicity of Vrana presenting with features like excessive exudates, foul smell, signs of inflammation etc. In other words, Vrana not showing features of ShuddhaVrana (clean wound) is called as DushtaVrana.
- 2) ShuddhaVrana: The Vrana that is free from three vitiated doshas or any complications, has blackish white margins due to pure blood supply, granulation tissue at surface level, and without any pain or discharge is said to be ShuddhaVrana.
- 3) RuhyamanaVrana: The Vrana with pigeon coloured (grey) margin without any exudates and showingpartial layer of skin epithelium (shveta called as charmacheli or chipitika) are called as RuhyamanaVrana.
- 4) RudhaVrana: the Vrana whose floor has healed completely, which is not indurated or swollen or painful, and is of same colour and level of skin is said to be RudhaVrana.

Factors affecting VranaRopana

1. Age: Vrana heals faster in young patients compared to old patients due to good metabolic rate and tendency of body cells to regenerate faster.

- 2. Addiction: Sushruta mentioned that patients who have control over their habits such as alcoholism are ideal patients for healing of Vrana.
- 3. Site: Vrana on buttocks, genitalia forehead, cheek etc heals faster and with less complication. Whereas Vrana on eyes, gums, ear, umbilicus, perineal raphe, axilla are difficult to treat.
- 4. Bandaging: improper bandaging causes delay in healing of Vrana.
- 5. Maggots: maggots in Vrana cause delay in healing.
- 6. Foreign body: Charaka mentioned that Vrana with foreign body or poison delays healing.
- 7. Associated disease: Vrana associated with diabetes, skin disorders, tuberculosis, poisoning heals with difficulty.
- 8. *Nutrition: Sushruta* mentioned that those patients who are emaciated and having *DushtaVrana* are incurable. He also mentioned patients having dietary regulations are easy to cure.
- 9. Food: Vrana heals rapidly of one who takes boiled rice of an old crop, bland as vegetable, semisolid diet in small amount, meat of wild animals, raddish, pomegranate, Indian goose berry fruit. Charaka mentioned that over eating, intake of mutually contradictory ingredients of food, intake of unwholesome food cause delay in healing of Vrana. Sleep: Patients who take regular sleep at night and do not sleep in day are easily curable.
- 10. Emotions: excessive grief and anger causes delay in healing.
- 11. Sex: sex during wound healing causes delay of healing. Sushruta explained that sex during vrana healingcan even lead to death.
- 12. Place of patient: if patient is kept in *Vranitagara* (ward for patientsprotected from draughts and hot sun, situated at good place, kept neat and clean) are curable.

Treatment of Vrana

Although much progress has been made in management of wound in past few years, management of *Vrana* is been significant health related issue ever since period of *Sushruta*. Numbers of procedures are performed for various steps of healing of *Vrana*. Among these, *ShuddhaVrana* is been treated by *ropana* remedies, whereas *DushtaVrana* is managed on the basis of involvement of vitiated *doshas*, site of *Vrana*, excessive putrification, and inflammatory changes. Wound is explained by *Sushruta* in management of various diseases like inflammatory oedema, abscess etc. *Sushruta* described sixty different types of management of *Vrana* in general. Management given by *Sushruta* is mainly in two divisions as management of *vrana* (wound) and management of *vrani* (wounded).

Out of sixty procedures mentioned in table 7, forty procedures mentioned in top four categories deals with converting *DushtaVrana* into *ShuddhaVrana*. These include measures to control vitiated *doshas*, controlling inflammation, surgical measures, and measures for non healing wounds. Wound bed preparation in today's practice is very much similar to this concept which was elaborated in very much detail *Sushruta* thousands years back.

TABLE 7 Sixty procedures for management of Vrana

7 1	0 0	
Types	No	Names
1. Control of vitiated <i>doshas</i>	10	1) nasal medication 2) use of errhines 3) gargling 4) smoking with medicinal drugs 5) enema 6) douching 7) purgation 8) emesis 9) bloodletting 10) internal oleation
2. Control of inflammation	8	1) food abstinence 2) application of local paste 3) irrigation 4) Anointing 5) fomentation 6) gentle massage 7) application of poultice 8) methods to induce suppuration
3. Surgical measures	13	1) excision 2) incision 3) bursting by medication 4) scraping 5) probing 6) extraction 7) puncturing 8) drainage 9) suturing

		10) wound edge approximation 11) squeezing out by application of drug 12) haemostasis 13) instrumentation
4. For non healing wounds	9	1) covering with leaves 2) depilation 3) cauterisation 4)
		application of caustics 5) hardening 6) softening 7) removal
		of over granulation 8) encouraging granulation tissue formation 9) warming application
		Instead of these, seven cleansing procedures by use of
		decoctions, wicks, pastes, medicated butter milk and oil,
		thickened extract, dusting powder also comes under this
		category
5. For clean wound	9	1) bandaging 2) application of honey and butter milk 3) seven
		healing procedures by use of decoctions, wicks, pastes,
		medicated butter milk and oil, thickened extract, dusting
		powder
		Suturing and edge approximation mentioned in surgical
6. For pain management	2	measures. 1) fumigation of <i>Vrana</i> 2) cooling application
	4	, , , , , , , , , , , , , , , , , , , ,
7. Restoring normalcy of scar	4	1) pigmenting procedure 2) depigmenting procedure 3) restoration normal skin colour 4) encouraging hair growth
8. Dietary regimen	2	1) restorative measures 2) light, warm, demulcent, appetizing
6. Dictary regimen	2	diet
9. Protective	1	1) protecting from invisible creatures
10. Miscellaneous	2	1) removal of maggots 2) neutralizing poison

Complications of Vrana

Complications of *Vrana* can be classified under two categories:

- 1. Local complications: Various kinds of smell, discharge, pain, colour, shape, size, margins, edge explained in different types of doshic *Vrana*
- 2. Systemic complications: Fever, diarrhoea, fainting, hiccough, vomiting, loss of taste, indigestion, dyspnoea, cough, increased thirst.

Secondary disease like erysipelas, hemiplegia (in case of head injury), convulsions, unconsciousness, schizophrenia (in case of head injury, animal bite like dog), and jaw lock can also lead from serious wound according to involvement of *doshas* and site of wound.

Conclusion

In this way, the above detailed description clearly reflects the brightness and beauty available in ancient Ayurvedic texts. The Acharyas has discussed and described every aspect of wound (Vrana) in detail. Their, this description clearly suggests that they have understood this disease clearly and therefore were able to treat this condition properly. Not only this, if we compare this description with the modern medical science than we found that in today's medical sciences the description of wound is the same as described by the ancient Ayurvedic texts thousand years ago. So it is really very essential to understand this Ayurvedic concepts of wound and its management now a days as it is really very helpful in better understanding of this disease as well as its proper management also.

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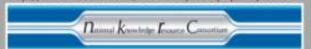
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