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# AYURVEDIC MANAGEMENT OF EPISIOTOMY WOUND: A CASE REPORT

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## Abstract:

Background: A surgical incision is easier to repair than a spontaneous irregular or extensive tear. An episiotomy helps to shorten the 2<sup>nd</sup> stage of labour. It can also decrease trauma to the vaginal tissues. The episiotomy wound is sutured immediately after 3<sup>rd</sup> stage of labour under local anesthesia. According to the modern science get advanced with new antibiotic local application and oral antibiotics are advised for wound, but their resistance increases day by day. Considering all the problems during *Sutikavastha* (postnatal period) with *Yonivrana* (episiotomy wound), it is necessary to give proper treatment and assurance to the patient. Episiotomy wound can be compared with *Saddhyovrana*(fresh wound). So it can be treated as *Sadhyovrana Chikitsa* (fresh wound treatment). In this present case study, Patient with sutured surgical episiotomy wound with chromic catgut no. "0" and "1",following delivery was selected. Drugs *Saptavinshatiki Guggulu* and *Nimbadi Lepa*(*Nimbadi* ointment) were administered oral and local respectively in a 29 year old second gravida patient for 2 weeks and follow-up for 1week. Assessment was done on the basis of REEDA scale and Numeric Rating Scale. Result: 100% result was found in pain, edema, discharge, redness and tenderness in episiotomy wound.

Key Words: Sutikavastha, Saddhyovrana, Episiotomy wound, Vrinashodhana, Nimbadi Lepa.

### **INTRODUCTION**

Episiotomy is surgically planned incision on the perineum and the posterior vaginal wall during the second stage of labour<sup>[1]</sup>.Indications of episiotomy is explained to the mother. Involvement of the incision up to the forchette, perineum skin and extent of incision, small or large extension up to the vaginal wall must be explained to the mother. It should neither be too early nor too late, because if we give incision soon it will fail the decent and expulsion of the part and more bleeding will take place. In case we give cut too late and the effect of local anesthesia will be over and mother will have severe pain during the cut.

## Types of episiotomy:

Amongst 4 types of episiotomy the preferred one is medio-lateral episiotomy<sup>[2]</sup>. Medial side of lateral: it is given in 6 o'clock position towards midpoint of the forchette at 45 degree angle to the midline towards the point in between the anus and the tuberosity of the ischium. It is easy to remember is 7 o'clock incision as it prevents the risk to bartholin's gland and opening of the anus. Injection of local anesthesia lignocaine 1% is given into the perineum so that the muscles of the perineum are sufficiently anesthesized.

Acharya Sushruta defined *Vrana*as a complex phenomenon causing destruction or rupture or discontinuation of tissue in a particular part of the body with discoloration. The "YonigataVrana" is difficult to heal as it has "Stree Vishista Marma" called "Sevani"

Acharya Sushruta has mentioned Madhu(honey) Sarpi (Ghee) and Nimbapatra Churna(powder of dry Neem's leaf) as a Saddhyovrana Ropaka (fresh wound healer)[3]. (SU.CHI.1/68)

Sadhyovrana- which is manifested by external causes, they include accidental wound, traumatic wound and surgical wound.so this Sadhyovrana (fresh wound) can be called as Agantujavrana or Shudhavrana

## **CASE REPORT:**

A 29 year old married woman visited the Prasutitantra and Streeroga I.P.D. of I.P.G.T. & R.A., Jamnagar on 06/08/2018 at 5:20am, with the 8th months 27days of amenorrhea, complaining of lower abdominal pain since last night. She was a second gravida with LMP on 09/11/2017 and EDD on 16/08/2018. She was delivered vaginally a male baby on 06/08/18, at 7:04am with 3.2kg baby weight. Episiotomy was given to the patient and three layer of episiotomy wound was sutured with chromic catgut no. "0" and "1".

On the 1<sup>st</sup> day after delivery in the morning (06/08/18), the sample of blood, urine investigations were given before starting the treatment. All the investigations were within the normal range.

She was complained of severe pain in stitches, edema and redness were present and discharge also present from sutured episiotomy wound. She was unable to sitting in squatting position for toilet and could not be slept well because of severe pain, breast feeding not properly onset before starting the treatment.

**Method of application of drug** - On the next day(07/08/2018) in the morning an informed written consent was taken before treatment then patient was taken in labour room. Firstly sutured episiotomy wound was clean with *Panchawalkala Kwatha*, then dressing of the patient was done with *Nimbadi Lepa*. Patient was shifted in Prasooti Tantra ward. In oral medication, *Saptavinshatiki Guggulu* was given 6gms, divided three time in a day with the *Anupana* of *Madhu*. General condition of the patient was good. She had mild relief in pain, edema and discharge were reduced, breast feeding onset properly. Personal history- Appetite, sleep was normal, urine and stool passed regular, blood pressure-120/80mm/Hg, pulse 78/m, temperature was normal.

On the very next day (08/08/2018) the same procedure was followed up to 7days after delivery. After that patient was advised to apply *Nimbadi Lepa* for next 7 days at her home with aseptic care and oral medication *Saptavinshatki Guggulu* also continued for 15days. Total duration of use of drugs was 15 days.

After application of Drug, Sootika was advised:

- > To retained the position at least 10 minutes.
- Don't flexed thigh during treatment.
- > To maintain local hygiene

Table no.1-DRUGS AND POSOLOGY

Contents	Group A (Trial Group)
Drug Oral	Sapt <mark>avinsh</mark> atiki Guggul <mark>u</mark>
Doses	Kola Pramana (6gms in three divided dosage)
Route of administration	Oral
Duration	2 weeks
Drug Local	Nimbadi Lepa
Route of administration	Local – Episiotomy wound
Aushadhakala	2 times a day
Duration	2 weeks
Follow up	1 weeks

Table no.2 - Ingredients of Nimbadi Lepa<sup>[4]</sup>

Sr.no.	Ingradients	Latin name	Proportion
1	NimbapatraChurna	Azardirecta indica	1 part (5gms)
2	Madhu	-	1 part (5gms)
3	Go-Ghrita	-	1 part (5gms)

**Preparation of the drug:** *Nimbapatra* was collected from local area and dried it in shade after that fine powder was done in grinding machine. *Nimbapatra Churna*, *Madhu* and *Go-Ghrita* were taken in equal proportion (5 gms each) and mixed well then apply on the episiotomy wound.

Table no.3- Ingredients of Saptavinshatiki Guggulu

Saptavinshataki Guggulu mentioned in Yogaratnakara Sadhyovrina Chikitsa<sup>[5]</sup>

Sr.no.	Name	Latin name	Part used	Proportion
1	Shunthi	Zingiber officinale Rose	Rhizome	1part
2	Maricha	Piper nigrum Linn	Seeds	1part
3	Pippali	Piper longam Linn.	Dry Fruit	1part
4	Haritaki	Terminalia chebula Retz.	Dry fruit	1part
5	Vibhitaki	Terminalia bellerica	Dry fruit	1part
6	Amalki	Embellica officinalis	Dry fruit	1part
7	Musta	Cyprus rotundus	Root	1part
8	Vidanga	Embelia ribes	Seeds	1part
9	Guduchi	Tinosphora cordifollia	Whole plant	1part
10	Chitraka	Plumbago zeylanicam Vahl	Root	1part
11	Patola	Luffa acutangular	Leaf	1part
12	Pippli moola	Piper longam Linn.	Root	1part
13	Hapusha	Juniperus communis Linn	Root	1part
14	Devadaru	Cedrus devadaru	Root	1part
15	Tumbaru	Zanthoxylum alatum	Leaf	1part
16	Pushkaramoola	Inula racemose	Root	1part
17	Chavya	Piper retrofractum Linn.	Root	1part
18	Vishala(Indrayana)	Trichosanthes palmata Roxb	Seeds	1part
19	Haridra	Curcuma longa	Rhizome	1part
20	Daruharidra	Berberis aristate	Rhizome	1part
21	Gajapipali	Scindapsus officinalis	Fruits	1part
22	Vidalavana	Ammonium salt	-	1part
23	Sovarchallavana	Unaqua sodium chloride	-	1part
24	Yavakshara	Hordeum vulgare L.	-	1part
25	Saindhavalavana	Sodi chloridium	-	1part
26	Guggulu	Commiphora mukul	Niryasa	2part
27	Madhu	Mel	-	Anupana

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Table no 4 - Investigations

gations	A < 10.0 (2.0.1.0.)		TD /				
			ATMENT(20/08/2018)				
HAEM	ATOLOGICAL INVE	STIGATIONS					
Total WBC 12,800 5,200							
N	83%		62%				
L	14%		32%				
E	01%		03%				
M	02%		03%				
В	00%		00%				
	6.4gms%		8.1gm%				
	60mm/hr		30mm/hr				
	B+ve		-				
	69mg/dl	76mg/dl					
MICRO	DBIOLOGICAL INVE	STIGATIONS					
HIV	Negative		-				
HBsAg	Negative	13	-				
VDRL	Negative		<del>-</del> /				
URINE ROUTIN	IE AND MICROSC <mark>O</mark> I	IC INVESTIGA	ATIONS				
Physical	NAD		NAD				
Chemical	Albumin-++		NAD				
Microscopic	Pus cells-4-5	//\	Pus cells-1-2				
	RBC-6-8	///	RBC-Nil				
	Epi.cell-1-2	-	Epi.cell-1-2				
	Crystals-calcium						
	oxalate+						
	TREATMENT (O  HAEM  12,800  N  L  E  M  B  MICRO  HIV  HBsAg  VDRL  URINE ROUTIN  Physical  Chemical	TREATMENT(06/08/2018)   HAEMATOLOGICAL INVESTITE	### HAEMATOLOGICAL INVESTIGATIONS    12,800	TREATMENT(06/08/2018)   AFTER TREATMENT(20/08/2018)			

## CRITERIA FOR ASSECESSEMENT AND OBSERVATIONS

## **SUBJECTIVE PARAMETERS**

Table no.5 Sutika Parikshana

Days	<b>Uterine involution</b>	Breast feeding	Lochia
D-1	At the level of	Proper onset &	3Pad change
	umbilicus	adequate feeding	
D-2	1 finger below to the	Proper onset &	3Pad change
	umbilicus	adequate feeding	
D-3	2 fingers below to the	Proper onset &	3Pad change
	umbilicus	adequate feeding	
D-4	3 fingers below to the	Proper onset &	2Pad change
	umbilicus	adequate feeding	
D-5	4 fingers below to the	Proper onset &	2Pad change
	umbilicus	adequate feeding	
D-6	5 fingers below to the	Proper onset &	2Pad change
	umbilicus	adequate feeding	
D-7	Not palpable	Proper onset &	1Pad change
		adequate feeding	

## Table no.5 - Pain and tenderness assessment

Sr.no	Symptoms	BT	AT-D1	D3	D5	D7	Df%
1	Pain	3	3	2	1	0	100%
2	Tenderness	3	3	2	1	0	100%

## **OBJECTIVE PARAMETERS**

## Table no.6 - REEDA SCALE<sup>[6]</sup>

S.no	Parameters	BT	AT-Day1	Day3	Day5	Day7	Df%
1	Redness	3	3	2	1	0	100%
2	Edema	3	3	2	1	0	100%
3	Ecchymosis	1	1	0	0	0	100%
4	Discharge	3	3	2	1	0	100%
5	Approximation	0	0	0	0	0	100%

## **SCORE INTERPRETATION**

**Table no.7 - Pain Assessment: -** Numeric Rating Scale<sup>[7]</sup>

Sr.no	Pain	Grades	Grade
1	No pain	0	0
2	Mild pain	1-3	1
3	Moderate pain	4-6	2
4	Severe pain	7-10	3

Table no.8 - Tenderness

Tenderness	Grade
No Pain	0
On applying pressure	1
On gentle touch	
On wound and surrounding area	2
	3

Table no.9 - Objective parameters- REEDA SCALE

S.no	Parameters	Findings	Grade
1	Redness	None	0
		Within 0.25cm of incision bilaterally	1
		Within 0.5cm of incision bilaterally	2
		Beyond 0.5cm of the incision bilaterally	3
2	Edema	None	0
		Less than 1cm from incision	1
		Between 1 to 2 cm from the incision	2
		> 2 cm from incision	3
3	Ecchymosis	None	0
		Within 0.25cm bilaterally or 0.5cm	1
		unilaterally	
		Between 0.25cm to 1cm bilaterally or	2
		between 0.5 to 2cm unilaterally	
		> 1cm bilaterally or >2cm unilaterally	3
4	Discharge	None	0
		Serum	· 1
<b>.</b>		Sero-sanguinous	2
		Bloody, purulent	3
5	Approximation	Closed	0
		Skin separation 3mm or less B/L from	1
		incision	
		Skin & subcutaneous fat separation	2
		Skin, subcutaneous fat & fascial layer	
		separation	
			3

### **DISCUSSION-**

Classics of *Ayurveda* have emphasized at various places to take care of wounds which occur due to vitiated *Doshas* or any trauma. The grading of *Shuddha Vrana* (fresh wound) depends on the amount of *Dushti* present in local *Dhatu*, i.e., *Twaka* and *Mamsa* with *Rakta Dhatu*. The drugs (*Nimbadi Lepa* and *Saptavinshaiki Guggulu*) contained *Shoshana* (absorptive) *Sthambhana* (coagulation/contraction) and *Rakta Shodhaka* (blood purifier) properties, along with *Samshodhana*(detoxifying, cleansing) which provided the desired effect. The *Ropana* of *Vrana* (wound) could have been possible after *Shodhana* (medical debridement)

due to removal of *Dhatu Dushti* with the help of *Yogavahi*(catalytic) properties of *Go-Ghrita. Madhu* has been described to have properties like *Lekhana*(scraping), *Sandhana* (union), *Shodhana* (purification), *Ropana* (healing), and *Tridoshaghna* (pacify ing all three *Doshas: Vata, Pitta*, and *Kapha*). It is used as an external application in *Vrana* (wound), either alone or in combination with *Sarpi* (*Goghrita*, i.e., ghee made from cow's milk)<sup>[8]</sup>. Honey is hygroscopic in nature, with a pH of 3.2–4.5<sup>[9–12]</sup>. It prevents colonization and bacterial growth in tissues due to this acidic nature. Most

microorganisms do not grow in pure honey because of its low water activity (a<sub>w</sub>) of 0.6<sup>[13]</sup>. Honey also has antibacterial properties<sup>[14]</sup> The presence of hydrogen peroxide<sup>[15,16]</sup> and a high osmotic pressure<sup>[17]</sup> also contribute

to the antibacterial effect of honey. These natural properties of Madhu are said to make it suitable for use in

sixty Upakramas of Vrana management described in the Sushruta Samhita<sup>[18]</sup>. Madhu is believed to act by

'pacifying' the three vitiated Doshas, i.e., Vata, Pitta, and Kapha by multiple actions attributable to

Vipaka, and Sukshma Marga Anusari (ability to permeate in microchannels) Prabhava. Madhura Rasa gives

Rasa provides Lekhana (scraping) that helps in de-sloughing, preparing the wound for healing. Thus, Madhu has

excellent properties to heal the wound by virtue of its Sodhana (purification), Ropana (healing),

and Sandhana (union) actions. The Madhura Rasa of the honey reduced the vitiated Vata Dosha, leading to

reduced pain and enhanced healing. Madhu has been described as having the ability to promote phagocytosis,

detoxification, and proteolysis, all of which assist in cleaning the wound [19-20]. Dressing of the wound with

Nimbadi Lepa (Nimbadi ointment) and oral medication of Saptavinshatiki Guggulu helped to inhibit the growth

of micro-organisms and proper healing of the wound. Popularity of natural products or their derivatives role in

diseases cure and prevention is increasing worldwide due to less side effect properties. Neem(Azadirechta indica)

and its ingredients have therapeutics implication and have been traditionally used worldwide especially in Indian

Subcontinent since ancient time. Clinical based studies confirmed that Neem plays an important role in the

prevention of various diseases. The role of active ingredients as chemo preventive effect has been noticed in

various tumour via modulation of numerous cells signaling pathways. Go-Ghrita(cow's Ghee): According to

Bhavaprakasha, Sushruta, Charaka and almost all Acharyas have mentioned that cow's Ghee is beneficial for

visual acuity byoral as well as local use. Attributes of Ghee i.e. unctuousness and coldness are antagonistic to

those of *Vata* and Pitta like dryness, lusterless, roughness and heat respectively. Cow's Ghee contains carotene in

the amount of 3.2 - 7.4  $\Box g/g$ , vitamin A in the amount of 19 - 34 I.U./g and Tocopherol (vitamin E) in the

amount of  $26 - 48 \, \Box g$  in it, all of which are beneficial for eyes. It also contains vitamin D and K. Properties of

Neem leaves: Purify the blood, prevent damage caused by free radicals in the body, remove toxins, treat insect

bites and ulcers. Neem leaves have anti-bacterial properties which works wonders on infections, burns and any

kind of skin problems. It destroys the bacteria that causes infections, stimulates the immune system and encourages rapid healing [21]. leave extracts of *Azadirachta indica* promote wound healing activity through

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its Madhura (sweet) Rasa, Kashaya(astringent) Uparasa, Ruksha (dry) Guna, Sheeta (cold) Virya,

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increased inflammatory response and neovascularization [22]. Oral drug *Saptavinshatiki Guggulu* promote the immunomodulator effect, increase breast milk production and adequate uterine involution.

#### **CONCLUSION**

It can be concluded that by the use of local application of *Nimbadi Lepa* and oral administration of *Saptavinshatiki Guggulu* provided highly significant result within 15days by the reduction in the size of wound, promotion of healing, adequate breast feeding, uterine involution and it proved with good results in the form of normal colored scar formation without any complication, which proved the *Vaikritapaham* property of the compound drug.

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