

International Journal of Ayurveda and Pharma Research

Case Study

ROLE OF *VIRECHAN KARMA* BEFORE *KSHARASUTRA* PROCEDURE IN THE MANAGEMENT OF *BHAGANDARA* W.S.R. TO FISTULA IN ANO

Kanchan M Borkar^{1*}, Anantkumar V Shekokar², Sonam Mutha³

*1Lecturer, ²H. O. D, ³P.G.Scholar, Dept. of Shalya Tantra, S.V.N.H.T'S Ayurved Mahavidyalaya, Rahuri Factory, Maharashtra, India.

Received on: 15/07/2014 Revised on: 11/08/2014 Accepted on: 22/08/2014

ABSTRACT

Since ages, *Bhagandara* is the challenge for surgeon. But from three decades *Ksharasutra* procedure was practised and used with great success without recurrences but it takes long duration to heal. In *Ksharasutra* procedure patient have pain, foreing body sensation, discomfort and tightness in anal region etc., So to overcome such crucial problems clinical study is required. In ancient ayurvedic texts *Bhagandara* is *Virechan Yogya Vyadhi* and advocated *Virechan Karma* in *Bhagandara Chikitsa*. So we decided to give *Panchtikta Ghrita* for *Snehan* followed *Virechan* by *Aragvadha Hima* after that *Ksharasutra* procedure is done.

The present study has been carried out to study the clinical efficacy of *Virechan Karma* before *Ksharasutra* procedure in the management of *Bhagandara* w.s.r.to fistula in ano. A pilot study was conducted, 2 patients selected randomaly and divided into two same group. Group A will be treated with *Virechan Karma* before *Ksharasutra* procedure and Group B will be treated with *Ksharasutra* only. The clinical assessment will be done on the basis of grading criteria. *Virechan Karma* before *Ksharasutra* procedure showed better results in reducing pain, itching, burning sensation, pus discharge, unit cutting time and helps in healing of the tract.

KEY WORDS: Bhagandhara, Ksharasutra, Virechan, Panchtikta Ghrita, Snehan.

INTRODUCTION

Anorectal disorder are progressively increasing in the society due to influence of western lifestyle. The word fistula is derived from a latin word a reed, pipe or flute. It implies a chronic unhealthy granulation tissue tract communicating two epithelial lined surface.1 Fistula in ano is called as Bhagandara in ayurveda according to sign and symptoms described in Sushruta Samhita.2 It is caused due to sedentary life style, irregular & inappropriate diet and prolong seating etc.3 The above mentioned causes result in derangement of *Jatheragni* and vitiated the *Doshas* which leads to all Koshtagat Rogas as well as anorectal disorder. Prolong Constipation leads to infection of anal crypts and then anorectal abscess & fistula in ano.4

In ayurvedic literature, *Bhagandara* included in *Ashtomahagada*.⁵ About the fistula in ano there is a proverb oftenly used by modern surgeons is that "If you have enemy to a doctor,

refer him a patient of fistula in ano and it will never heal." 6

ISSN: 2322 - 0910

Bhaaandara is critical disease anorectal and characterised by persistent pus discharge associated with intermittent pain⁷, if not treated gives rise to many complication. The modern surgical treatment for fistula is unsatisfactory. Fistula in ano is the most difficult to cure. It is a disease for which operative procedure have been advocated and practiced by the surgeon but it causes wide surgical wound, which required number of dressing so normal daily routine of the patient is disturbed; its recurrence rate is very high among all the cases even after excision of tract and serious complication like incontinence8. Before the three decade to minimize above complication the scientific approach was made for fistula management with Ksharasutra ancient treatment. The Ksharasutra procedure is also popular in modern surgical literature9. The

treatment of fistula in ano was revolutionised after availability of *Ksharasutra*.

Due to *Ksharasutra* procedure recurrence rate is almost nil but it takes very long duration to cut and heal the tract. It may cause pain in patient while changing the thread. Sometimes patient may having foreing body sensation. They feel discomfort and tightness in the anal region. During changing the thread bleeding may occur and patient also gets psychological discomfort to his or her normal activities 10.

It is a duty of research scholar to modify the treatment to overcome the above said dimension to increase the efficacy of *Ksharasutra* for which we have referred ancient text and we found that before the *Ksharasutra* procedure *Virechan Karma* will be benificial¹¹. In *Charak Samhita*¹² and *Sushruta Samhita*¹³, *Bhagandara* described as *Virechan Yogya Vyadhi*. In the samprapti of *Bhagandara Tridoshas* and *Rakta, Mamsa Dushyas* are vitiated¹⁴ and *Virechan*

Karma advocated in the treatment of Rakta, Mamsa Strotas Dushti. 15,16 Aacharya Sushruta told Bhagandara is Shastrasadhya vyadhi (surgically curable) and mentioned that "Medical procedures such as oleation, etc are not contraindicated in surgically curable cases 17.

According to the above references before the *Ksharasutra* procedure how should we improve the efficacy of *Ksharasutra* and how the fistulous condition overcome within short duration of time. So the *Virechan* karma can be added as a new aspect before the *Ksharasutra* procedure in the management of *Bhagandara*. Hence we like to select this subject "Role Of *Virechan Karma* Before *Ksharasutra* Procedure In The Management Of *Bhagandara* w.s.r..to Fistula In Ano."

MATERIAL AND METHODS

DRUG STUDY - The drugs required for the study are

1) Panchatikta Ghrita

Table No.1 - The ingredients in Panchatikta Ghrita¹⁸

Dravya	Vrusha ¹⁹	Nimba ²⁰	Amruta ²¹	Vyaghri ²²	Patol ²³	Goghrita ²⁴
Family	Acanthaceae	Meliaceae	Menispermacea	Solanaceae	Cucurbitaceae	
Name		20/	e	Na		
Latin	Adhatoda vasica	Azadiracta 🗟	Tinospora	Solanum	Trichosanthus	
Name		indica	cordifolia	surattense	dioca	
Rasa	Tikta, Kashaya	Tikta,	Tikta, Katu,	Tikta,	Tikta	Madhur
		Kashaya	Kashaya	Katu		
Virya	Sheeta	Ushna	Ushna	Ushna	Ushna	Sheeta
Vipak	Katu	Katu	Madhur	Katu	Katu	Madhur
Guna	Laghu, Ruksha	Laghu,	Guru,	Laghu,	Laghu,	Guru,
			Snigdha		Snigdha	Snigdha
Karma	Shothahar,	Putihar,	Vedanasthapak,	Vedanasthap	Vranashodhak,	Vattapittak
	Vedanasthapak,	Vranadhavan,	Vranaropak,	ak,	Vranaropak,	aphavinash
	Jantughna,	Jantughna,	Raktashodhak	Shothahar,	Vedanasthapak,	ak
	Kaphapittnashak	Raktashodhan		Krumighna	Krumighna	

Method of preparation of Panchatikta Ghrita¹⁸

Panchatikta Ghrita prepared as per mentioned in Sharangdhar Samhita.

2) Aragvadha Hima

The ingredients in Aragvadha Hima²⁵

- a) Aragvadha Phalmajja 40 gm (1 part)
- b) Water 240 ml (6 part)

Table No.2 - Ingredient property of Aragvadha Hima

DRAVYA	FAMILY	LATIN	RASA	VIRYA	VIPAK	GUNA	KARMA
	NAME	NAME					
Aragvadha ²⁶	Leguminosaeae. Sub family- Caesalpiniodeae	Cassia fistula	Madhur	Sheeta	Madhur	Guru, Snigdha, Mrudu	Virechaniya, Kushtaghana, Kandughna, Adhobhaghara

Method of Preparation of Aragvadha Hima25

Aragvadha Phalamajja of 40gm was dipped in 240ml of water at night then at morning water is filter after crushing the *Phalamajja* in to it.

3) Standard Ksharasutra

The ingredients of Standard Ksharasutra²⁷

- 1. Snuhi Kshir
- 2. Apamarga Kshara
- 3. Haridra Churna
- 4. Surgical linen thread no.20
- 5. Ksharasutra Cabinet
- 6. Gloves
- 7. Cotton gauze piece
- 8. Test tube

Table 3: Ingredients properties of Ksharasutra

Dravya	Family name	Latin name	Rasa	Virya	Vipak	Guna	Karma
Snuhi ²⁸	Euphorbi aceae	Euphorbia nerifolia	Katu	Ushna	Katu	Laghu, Snigdha	Lekhana
Apamarga ²⁹	Amaranth aceae	Acaranthus aspera	Katu, Tikta	Ushna	Katu	Tikshna,	Vranashodhak, Vranaropak, Shothahar, Vednasthapan
Haridra ³⁰	Zinzibera ceae	Curcuma longa	Tikta, Katu	Ushna	Katu	Laghu, Ruksha	Vranaropan, Lekhana, Vranashodhak

Method of Preparation of Standard Ksharasutra²⁷

Preparation of *Ksharasutra* will be done according to P.J. Deshpande procedure as follows

Operator hand should be gloved before doing smear and all aseptic precautions will be observed. The surgical linen thread of size 20. is spread throughout the length and breadth of the hanger of the specially designed cabinet known as *Ksharasutra* Cabinet. The thread is smeared with latex, uniformly and carefully, all around the thread, with the help of clean cotton gauze piece soaked in snuhi ksheer. After smearing all the threads on the hanger. The hanger is placed in the ksharasutra cabinet for drying.

After 11 such coatings with *Snuhi Ksheer*, 12th coating of *Snuhi Ksheer* is done and wet thread is then passed through a heep of finely powdered *Apamarga Kshara* immediately. After smearing all the thread with *Kshara*, the hanger is shaken gently allowing the excess particles of *Kshara* to fall down. This process is repeated till 7 coatings with *Snuhi Ksheer* and *Apamarga Kshara* is achieved, thus completing 18 coatings on the thread. The remaining 3 coatings are performed with *Snuhi Ksheer* and fine powder of

Haridra as per above mentioned procedure making a total 21 coatings on thread.

ISSN: 2322 - 0910

Ksharasutra cabinet²⁷- It is used for sterilization and drying the Ksharasutra. The threads are placed on metal hangers specially design for this purpose and these threaded hangers are put into cabinet. The ultra violet lamp which is already fitted in the cabinet should be lighted for 20-30 min every day in order to have good sterilization of the thread. When 21 coatings are complete, each threaded measuring about 10 inches should be cut away from the hangers and sealed in the glass test tube with aseptic precautions. In the preparation of Ksharasutra skill hand is very important. As it require equal thickness of thread.

In the present study, preparation will be carried out in Pharmacy of *Ras Shastra* and *Bhaishajya Kalpana* of S.V.N.H.T's Ayurved Mahavidyalaya, Rahuri.

METHOD OF STUDY

Group A: Experimental group

1 Patient selected & treated with *Virechan Karma* before *Ksharasutra* procedure.

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Group B : Control group

1 Patient selected & treated with Ksharasutra procedure only.

Duration of Treatment: upto the Fistulous tract

Follow Up: 45 days after completion of fistulous tract healing.

Place of Work : OPD and IPD of *Shalyatantra* Department, SVNHT's Ayurved college and Hospital

Shri Shivaji Nagar, Tal: Rahuri, Dist: Ahmednagar.

Criteria of Selection

Inclusion Criteria

- a) Patient suffering from sign and symptoms of Bhagandara w.s.r. to Fistula in ano.
- b) Low anal Fistula
- c) Fistula within 3.75cm from anal canal
- d) Age 16 to 70 yrs. of age group
- e) Sex both male & female
- f) Patient belonging to all socioeconomic group

Virechan Karma before Ksharasutra procedure

Snehapan of Panchatikta Ghrita will be given to

the patient in the morning after complete

digestion of food taken by the patient last night.

It starts from 30 ml and increases day by day till

Sarvanga Snehan and Swedan will be given for 3

days. Then on the previous day of Virechan,

patient is advised to take easily digestible food.

On the day of Virechan the patient is restricted

upto the Samayak Snehan Lakshan appears. Koshna jala will be given as Anupana. After that

Exclusion Criteria

a) Multiple tract fistula

Table No.4 - Procedure **Experimental group**

for Virechan Karma

Snehapan

- b) High anal fistula Rectal polyp
- c)
- d) Proctitis. Colitis
- e) CA of anus & Rectum
- H/O Human Immunodeficiency Virus, Hepatitis B **Diabetes** Mellitus, Hypertension, **Tuberculosis**
- g) Gangrenous Fistula
- Crohn's disease and Ulcerative colitis h)
- i) Sinus
- Pilonidal sinus j)

Investigations

Some of the following Investigations done before and after Virechan Karma in experimental group.

- 1) Haematological:- CBC, ESR, Blood Urea, Sr. Creatinine, Blood Sugar, Tridot, BT, CT and Hepatitis B
- 2) Urine-Routine
- 3) Pus for culture & sensitivity (if needed)
- 4) Fistulogram (if needed)
- 5) Methelene Blue Dve Test.
- 6) Electrocardigram (E.C.G.)
- 7) Physical fitness

Control group

Only Ksharasutra procedure done

FOR Ksharasutra Procedure-

Pre operative-

NBM 12hrs before procedure.

Written Consent,

Xylocaine sensitivity test,

Preparation of part,

Inj T.T 0.5ml IM half an hour before procedure Soap Water Enema 2 hrs before procedure

Anaesthesia

With all aseptic precaution and premedication spinal anaesthesia with Lox heavy 2% given by anaesthetist.

from any food till the main procedure ends. Virechan karma

Aragvadha Hima about 80ml for Virechan is administered on empty stomach in the morning. Observe the Virechana Vegas.

Samsarjana Krama

After that Samsarjana Krama i.e. Peya, Vilepi, etc., will be given to the patient as per Shudhi by Virechan Karma.

Procedure

- 1. Lithotomy position given to the patient.
- 2. Painting and drapping and isolation of the part done.
- 3. Lord's dilation done.
- 4. Examine fistulous track by palpation.
- 5. Methelene Blue Dye Test done to check the position of internal opening.
- 6. Through external opening insert probe along with Ksharasutra and comes out through internal opening.
- 7. Two ends of the thread are tied by knots and dressing the wound with Betadine solution.

For Ksharasutra Procedure	Post operative
Ksharasutra procedure done after one week of	Check all vital signs (TPRBP) 2 hrly
Virechan Karma.	NBM For 6 hrs
Pre- operative, operative procedure, post-	Head low position
operative -Same as mentioned in control group.	IV Fluids according to hydration status of patient.
	Medication for 3 days
	Inj. Monocef 1gm IV BD (ceftriaxone)(Aristo)
	Inj. Genticyn 80mg IV BD (gentamycin)(Abbott)
	Inj. Aldigesic 75mg IM SOS
	(diclofenac sodium)(Alkem)
	Sitz bath regularly with warm water
Patient advice to come for changing the thread	Patient advice to come for changing the thread
after 7 days.	after 7 days.

DISCUSSION

Bhagandara (Fistula in ano) is one of the most common and notorious disease among all anorectal disorder. It is recurrent in nature which makes it more and more difficult for treatment. It produces inconveniences in routine life. It causes discomfort and pain that creates problem in day to day activity. Ksharasutra has been proved as a big revolution in the treatment of Bhagandara.

In the modern surgery also there are various types of management for fistula in ano but there are demerits. In the *Ksharasutra* procedure also some demerits observed like long duration required for the treatment, pain and produces psychological discomfort. Therefore it is the need of time to do further research to achieve faster recovery by the *Ksharasutra* procedure. Hence, we performed *Virechan Karma* before *Ksharasutra* procedure in the management of *Bhagandara* w.s.r to Fistula in ano

In our study, we selected patient having fistulous tract of 8cm in experimental group and patient having fistulous tract of 5cm in control group it is observed that,

Pain: Pain occurs in the fistula in ano because of accumulation of pus in the cavity due to the property of *Virechan* karma, it helps to drain the pus and this lead to cleaning the cavity subsequently subsides the pain.

Itching: According to Ayurveda text *Kapha* and *Pratiloma Vayu* is responsible for itching. *Virechan* is *Kaphashodak* and *Vatanulomak* thus helps in reducing itching effectively.

Burning Sensation: Burning is due to *Pitta Dosha* and *Virechan* helps to reduce vitiated *Pitta Dosha*, it leads to reduce the burning sensation.

Discharge: Property of Virechan, which causes *Shodhan* of ripe *Vranashopha*. By the *Shodhan*

quality it slough away the debridement of necrosed tissue from the fistulous tract thus it helps in formation of healthy granulation tissue consequently it reduces pus discharge. Thus, pain, itching, burning sensation, pus discharge are better reduced in Experimental group as compared to Control group. Also unit cutting time is drastically decreased which results in fast healing of the fistulous tract.

ISSN: 2322 - 0910

Common problems associated with fistula in ano on the basis of *Dosha* predominance.

Vata – Ruja, Pitta – Daha, Kapha- Strava, Kandu. Virechan helps to reduce vitiated Tridosha and helps in wound healing of Bhagandara.

In the pathogenesis of *Bhagandara Tridoshas* and *Rakta, Mamsa, Meda Dushyas* are vitiated. Their *Shodhan* is achieved by the *Virechan Karma* which helps to break the pathogenesis of *Bhagandara*. Consequently it reduces the pus discharge and unit cutting time resulting in short duration of treatment. Hence *Virechan Karma* is effective before *Ksharasutra* procedure in the management of *Bhagandara* w.s.r to Fistula in ano.

CONCLUSION

On the basis of finding and observations obtained after completion of pilot study it can be concluded that, Experimental group required 6 weeks to cut and heal the fistulous tract completely hence *Virechan Karma* is supportive to break the pathogenesis of *Bhagandara* due to this we can achieve better results in cutting and healing process of Ksharasutra in the management of *Bhagandara* w.s.r to fistula in ano.

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Cite this article as:

Kanchan M Borkar, Anantkumar V Shekokar, Sonam Mutha. Role of Virechan Karma before Ksharasutra Procedure in the Management of Bhagandara w.s.r. to Fistula in Ano. Int. J. Ayur. Pharma Research. 2014;2(4):129-134.

Source of support: Nil, Conflict of interest: None Declared

*Address for correspondence Dr Kanchan M Borkar

Lecturer, Dept of shalya Tantra S.V.N.H.T'S ayurved mahavidyalaya, Rahuri factory, Maharashtra, India.

Phone: +919960299306

Email: drkanchanborkar@gmail.com