INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH

MANAGEMENT OF FISTULA IN ANO WITH STANDARDIZED (MACHINE MADE) APAMARGA KSHARSUTRA



Sur	gerv
Dui	gery

Dr. Bharat M. Rokade	Associate Professor, Shalyatantra department , College of Ayurved, Bharati Vidyapeeth, Pune
Dr. Umesh A.	Professor, Shalyatantra department , College of Ayurved, Bharati Vidyapeeth , Pune
Vaidya*	*Corresponding Author

ABSTRACT

Fistula in ano is one of the common surgical disease. In ayurveda it is described as Bhagandara. Fistulotomy, Fistulectomy, Passing thread or seton in fistulous tract are various treatment modalities of Fistula in ano. Ksharsutra is one of the most common treatment in Ayurveda for Fistula in ano i.e. bhagandara.

Ksharsutra is traditional method of healing of Fistula in Ano. Standardized Apamarga ksharsutra is a hour of need, which is one of the effective treatment of fistula in ano.

In the present study standardised Apamarga ksharsutra is used to treat fistula in ano with sample size of 30. Study was conducted at college of Ayurved and hospital, Bharati Vidyapeeth, Pune. Standardised Apamarga Ksharsutra is cost effective with better cutting and healing properties and has less recurrent rate.

KEYWORDS

Machine made ksharsutra, bhagandara, fistula in ano, standardised ksharsutra.

INTRODUCTION-

Fistula in Ano is a tract lined by unhealthy granulation tissue which opens deeply in the anal canal or rectum & superficially around the anus.

Anorectal disorders like Fistula in Ano, Haemorrhoids and Pilonidal sinuses are treated by unique Ayurvedic Surgical treatment i.e.Ksharsutra. Application of ksharsutra is safe,simple,effective and minimally invasive, day care surgical procedure for Fistula in Ano. Ksharsutra is mentioned by Chakradutta and Sushruta. Thus Ksharsutra is hallmark of Ayurvedic surgery and is made in India.²⁻⁷ Nowadays variety of ksharsutra are used for bhagandara.

NEED OF STUDY-

Standardised Apamarga Ksharsutra is a specially machine made ksharsutra. Standardised ksharsutra of apamarga has advantage over traditional ksharsutra i.e.it has uniform coating, unique packaging to prevent loss of Kshara.

AIM AND OBJECTIVE

To study the effect of standardised Apamarga ksharsutra in the management of fistula in ano.

HYPOTHESIS-

Standardised Apamarga ksharsutra has better cutting and healing effect in fistula in ano.

MATERIALS AND METHODOLOGY-

The place of study was **College of ayurved and hospital, Bharati vidyapeeth ,Pune.** Clinical trial was carried out in OPD/IPD/OT of Shalyatantra department. The patient is anesthetized and a malleable probe with the Ksharsutra in its groove is passed through the external opening of the fistula to its inside and the probe is then carefully taken out along with the Ksharsutra . After this both ends of Ksharsutra are tied together and replaced with a newer ksharsutra after a week. Because of this procedure, the tract is eventually cut and healed by the removal of unhealthy tissue. This controls microbial infection and facilitates drainage of pus in the tract aiding in healing.

Study group- 30 patients having Anorectal fistula were taken.

Preparation of Ksharsutra-Automated Ksharsutra:-

The Apamarga Ksharsutra prepared by automated machine at Indu pharma (GMP and ISO certified), Pune.

The contents of Standardised Ksharsutra are -

- 1. Snuhikshira (Euphorbia nerifolia)
- Apamargakshara (Achyranthusaspera)
- 3. Haridrachurna (Curcuma longa)

Preparation of Apamarga Ksharasutra comprises smearing a long barber's linen thread no. 20 sequentially with fresh latex (Snuhikshira) of Euphorbia nerifolia Linn, a specially prepared alkaline powder known as Apamargakshara from AchyranthusasperaLina, and powder of dried rhizomes of Turmeric (Haridra) curcuma longa lina.

The thread coated with an automated machine (specially designed for Ksharsutra preparation) first with the latex eleven times, followed by seven alternate coating of latex and Apamargakshara and dried. In the final phase, three alternate coating of latex and turmeric powder are given and the thread will be dried and sterilized with UV rays. The threads thus prepared enveloped in a unique packing so that kshara will be maintained at Ksharsutra and loss of kshara will be avoided.

Advantage of automated made Ksharsutra will be smooth, firm and uniform coatings of Snuhikshira, Apamargakshara and Haridra. It fascilates the cutting and healing property of ksharsutra more effectively than manually made Ksharsutra.

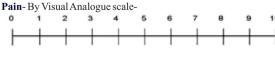
Selection Criteria-

Patients having anal fistula and of 15-60 age groups were taken. Patients irrespective of sex, religion, socioeconomic class taken

Exclusion Criteria-

- Patients having bleeding disorders, patients on anti-coagulating drugs and Ca-Rectum
- 2. Pregnant woman
- 3. Chronic or ulcerative colitis
- 4. Intestinal and Pelvic malignancies
- 5. Veneral diseases and HIV
- 6. Multiple fistulae originating due to tuberculosis
- 7. Crohn's disease
- 8. Uncontrolled DM

Criteria of Assesment-Subjective Parameter-



0

mild 0-1 moderate 2-5 severe 6-8 unbearable 9-10

Itching-

No itching

Mild and Occasional	1
Moderate and Occasional	2
Moderate and Frequent	3
Severe and continous	4

Objective Parameter A)Discharge

No discharge	0
Mild discharge	1
Moderate	2
Severe	3
Excruciating	4

B) Nature of Discharge

Blood	0
Serous	1
Purulent	2.

C) Length of Tract

Initial length of tract is measured with the help of Probe and length of Ksharsutra within the tract.

Then on every follow up length of Previous Ksharsutra within the tract is measured with the help of scale and considered as length of tract.

D) UCT (Unit cutting time)

UCT= Total number of days taken to cut through/ Initial length of tract in cms = Days/cms

Investigation

Routine haematological, biochemical and Radiographic investigation like X-Ray Chest, Fistulography and MR fistulogram if required were

Follow up-

Follow up was taken weekly up to cutting and healing of tract and observation is recorded in tabular form.

Observations-Incidence of Age and Sex

_	
Sex	Number of patients
Male	22
Female	08
Total	30

Incidence of Age

AgeGroup	No.of patients
Upto 20 years	03
21- 30 years	10
31-40 years	13
41-50 years	04

Incidence of Clockwise position of External opening

Clockwise position of External	No. of patients
Opening	
1	00
2	00
3	01
4	02
5	10
6	04
7	05
8	00
9	03
10	01
11	03
12	01
Total	30

Types of Fistula in Ano

Types of Fistula in Ano	No.of patients
Low anal	26
High anal	04
Total	30

Types Of Bhagandara

Types Of Bhagandara	No.of patients
Ushtragreev	03
Shataponak	01
Shambukavarta	05
Unmargi	00
Paristravi	21
Total	30

Incidene of Initial length of Tract-

Initial length of Tract	No.of Patients
Upto 5cm	18
5.1 to 10 cm	08
10.1 to 15 cm	03
Above 15 cm	01
Total	30

Incidene of UCT with different clockwise position

Clock wise position	UCT
1	5.8
2	6.1
3	5.6
4	5.7
5	5.4
6	5.5
7	5.3
8	6.3
9	7.4
10	5.5
11	5.8
12	6.1

Averge UCT

Average UCT for Standardised Apamarga Ksharsutra is 5.9 Probable action of Ksharsutra-

Apamarga kshar has tridoshaghana, chedan, bhedan, lekhan property.8 Haridra has anti inflammatory, antmicrobial, wound healing properties and act as blood purifier.5

DISCUSSION-

The most prevalent population was middle age group and males. Most of the cases cause is perianal abcess or infection of anal gland. Incidence of bhagandara found more in 31-40years of age group. Clockwise position of external opening mainly found at 5°clock in maximum 10 patients. Out of 30 patients many cases were found of low anal fistula as far as type of fistula is concerned. According to Ayurveda 21 patients were found of Paristravi Bhagandara. Length of tract of Fistula is averagely found in 18 patients i.e. upto 5cm. Maximum UCT recorded for 9° clock is 7.4 while minimum UCT is 5.3 at 7° clock position.

CONCLUSION-

Average UCT for the present study is 5.9. Statistical analysis is done with' t ' test and p value is significant. It suggests that Standardiesd Apamarga Ksharsutra has better effect in Bhagandara due to its cutting and healing properties with no recurrence.

REFERENCES

- Norman S.Williams, Bulstrode. Baily & loves Short practices of Surgery.25 th edition London: Hodder Arnold publishers; 2010,pp.1264 AcharyaSushruta, SushrutaSamhita, Dalhana, Nibandhasangraha commentary,Edited by JadavjiTrikamjiAcharya and Naarayana Ram Acharya; Varanasi: Chaukhambha
- Sanskrit Sansthan; Reprint 2013; Nidaanasthana 4/3-12, Pp 824, p280-282 AcharyaSushruta, SushrutaSamhita, Dalhana, Nibandhasangraha commentary,Edited by JadavjiTrikamjiAcharya and Naarayana Ram Acharya; Varanasi: Chaukhambha Sanskrit Sansthan; Reprint 2013; Chikitsasthana 17/29-33, Pp 824, p468. Acharya Agnivesha, Charaka Samhita, revised by Charaka & Dridabala, with Ayurveda
- Dipika commentary of Chakrapanidatta, Edited by JadavjiTrikamjiAcharya; Varanasi: Chaukhambha Prakashan; Reprint 2013; Chikitsasthana 12/96-97, Pp738, p490.
- AcharyaVruddhaVagbhata, Ashtanga Samgraha; with the Sasilekha commentary by Indu, Prologue by Prof.JyotirMitra, Edited by Dr. Shivprasad Sharma; Varanasi: Chowkhamba Sanskrit series office; Reprint 2008; Uttarasthana 33/2-44, Pp 965, p797-
- ShriChudamaniMishra, Rasakamdhenu with Suvritta Hindi Commentry, Edited by Acharya shriGulraj Mishra; Varanasi: Chowkhamba Orientalia; Chikitsaadhikar 49/1 Chakrapanidatta, Chakradatta; with the Vaiyaprabha Hindi Commentary by
- Dr.IndradevaTripathi, Edited by Prof. RamanathDwivedy; Varanasi: Chaukhambha Sanskrit Bhawan; Reprint2010; Nadivranachikitsa/12-13,p269-272. Shastri A. Editor, Sushruta, Sushruta Samhita, Sutra sthana, Ksharapaka vidhi Adhyaya, 11/3. Reprint edition. Varanasi: Chaukhmba sanskrita samsthana; 2009.p.45.
- Sharma PV, editor. Mahendra Bhaugik, Dhanavantari Nightu, Guduchyadivarga, 53,54,55.5th edition Varanasi: chaukhmba Orientalia; 2008.p,25,26