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Dr. Sukrant Sharma*	M.S (ayu) Assistant Professor, Jammu Institute Of Ayurveda And Research Nardini, Jammu, India *Corresponding Author				
Dr. Ashanka Bhardwaj	MDS(oral pathologist), jammu				
Dr. Pooja Gupta	M.S (ayu) Assistant Professor, Jammu Institute Of Ayurveda And Research Nardini, Jammu, India				
Dr. Bhawna Biloria	PG Scholar, Jammu Institute Of Ayurveda And Research Nardini, Jammu, India				
Dr. Sarabjeet Kour	· PG Scholar, Jammu Institute Of Ayurveda And Research Nardini, Jammu, India				
ABSTRACT Application of Cassia fistula Pack(araghvadhadi varti) in the management of Fistula in ano i.e Bhagandara is well known. Sushruta has mentioned different types of Packs, for the management of sinus(nadi vrana) and Fistula in ano, to obtain cleanliness(shodana) and Healing(ropana) of tract. In his treatise, he has also mentioned cassia fistula pack for wound cleaning. All the ingredients of cassia fistula pack (cassia fistula, curcuma longa, valeriana wellichii, ghee and honey) possess antimicrobial (antibacterial and anti fungal) property which control infection within the fistula, and promotes healing. In this present study, 30 patients were diagnosed as cases of low level fistula in ano were treated with cassia fistula pack. There was a marked reduction in symptoms of pain, discharge, itching, length of tract and baseling.					

healing time. Thus the result was significant.

KEYWORDS : Fistula in ano, cassia fistula, wound healing, cleaning, sinus.

INTRODUCTION

Fistula in ano is a common disease occurs in the ano rectal region. Acharya Sushruta , the Father of Surgery has included this disease as one among the Ashtamahagada.¹ At first, it present as abscess(pidika) around anus, and when it bursts out, it is called as fistula in ano. It can be correlated with fistula in ano, as decsribed in western medical science .Fistula in ano is a tract lined by granulation tissue which opens deeply in the anal canal or rectum and superficially on the skin around the anus.² The word Bhagandara (fistula in ano) has got well versed name in today's world . Many researches are going on for the better line of treatment of fistula in ano. In the chapter of Chikitsa sthana of Bhagandara , Acharya Sushruta has advocated various means and measures for the treatment of fistula in ano.³ Application of pack in the management of Fistula in ano is well known and various types of have been advised by Sushruta in the management of Nadi vrana. In the text he has also mentioned cassia packs for wound cleaning purposes.

In this study an attempt was made to treat the disease with the help of pack of cassia fistula. According to the text this pack has wound cleaning properties which heals the ulcer very soon. There are lots of studies conducted on the packs of cassia fistula, but on the basis of literature review, it was seen that there is a need to explore the properties of cassia fistula pack in detail with special reference to low level fistula in ano, which is not done before. Hence it is important to find out effective constituents of cassia fistula pack that possesse both wound cleaning and wound healing properties. Here we made an attempt to evaluate the efficacy of cassia fistula pack on fistula in ano.

CLINICALSTUDY

Patients diagnosed to have low level fistula were randomly selected irrespective of age, sex, chronicity, marital status etc.; Patients with uncontrolled diabetes mellitus, tuberculosis, chron's disease, fistula secondary to other systemic disease like osteomyelitis etc were excluded.

AIMS AND OBJECTIVES

To evaluate the efficacy of cassia fistula pack to manage low level fistula in ano.

MATERIALS AND METHODS Ingredients

1. Cassia fistula (Aragvadh majja)

- 2. Curcuma longa (Haridara)
- 3. Valeriana wellichii (Tagara)

4. Ghee 5. Honey

METHOD OF PREPARATION OF CASSIA FISTULA PACK

Raw drug was collected, and preparation of cassia fistula pack was done at college pharmacy. Fine powders of curcuma longa and valeriana wellichii were mixed well with cassia fistula, Ghee and honey. Then the wicks were made manually of 2-3 inches in length and dried in sunlight. The wicks become dry and hard, they were stored in air tight container.

SOURCE OF DATA

Patients, diagnosed cases of fistula in ano (low level fistula) were taken from OPD and IPD dept. of J.I.A.R hospital, janipur and nardani , Jammu , India.

Sample size: 30 patients

METHOD OF COLLECTION OF DATA

It was the absolute pilot study, in which the patients were randomly selected from both the sex. A detailed proforma was prepared considering all the patients pertaining to history, signs and symptoms, examinations and investigations mentioned in allied science to confirm the diagnosis.

CLINICALSTUDY

Patients diagnosed to have low level fistula were randomly selected irespective of age, sex, chronicity, marital status etc. Patients with uncontrolled diabetes mellitus, tuberculosis, chron's disease, fistula secondary to other systemic disease like osteomyelitis etc were excluded.

APPLICATION OF CASSIA FISTULA PACK

Patient was kept in lithotomy position. perianal region was cleaned with antiseptic lotions and draped. Suitable selected probe was passed through the external opening of fistula without putting any pressure on it, till it reach the end of the tract then the probe was taken out and the measurement of the length of the probe was done. After that same length of cassia fistula pack was taken and inserted into the same length of the fistulous tract. The length of the tract can be calculated by substracting the length of pack, outside the tract from the total length of pack.

ASSESSMENT CRITERIA

The assessment of relief

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1. Pain	GRADING FOR ITCHING				
2. Discharge	Grade 0 – No itching				
3. Itching	Grade 1- Mild itching				
4. Local tenderness	Grade 2 – Moderate itching				
5. Length of the tract	Grade 3 – Moderately severe itching				
6. Healing time	Grade 4 – Severe itching				
GRADINGS	GRADING FOR LENGTH OF THE TRACT				
GRADINGS GRADING FOR PAIN	Grade 0 – No tract				
	Grade 1 - Upto 1 cm				
Grade 0 – No pain	Grade $2 - 1.1 - 2$ cm				
Grade 1- Mild pain	Grade $3 - 2.1 - 3$ cm				
Grade 2 – Moderate pain	Grade 4 – 3.1-4cm				
Grade 3 – severe pain	GRADING FOR LOCAL TENDERNESS				
GRADING FOR DISCHARGE	Grade 0 – no tenderness				
Grade 0 – No discharge	Grade 1 – Mild				
Grade 1 – Mild discharge '	Grade 2 – Moderate				
Grade 2 – Moderate discharge	Grade 3 – severe				
Grade 3 – Severe discharge	Healing time will be assessed by total no of days taken for healing				
TABLE 1 EFFECT OF VARIATION OF DIFFERENT SIGNS AND SYMPTOMS OF FISTULA IN ANO					

Cardinal features	ardinal features Mean score		Standard deviation		Mean	Т	Degree of	р
	Before treatment	After treatment	Before treatment	After treatment	difference		freedom	
Pain	1.90	0.37	0.803	0.490	1.533	16.55	29	.00
Discharge	2.17	0.30	0.699	0.466	1.867	20.14	29	.00
Itching	2.33	0.57	0.661	0.568	1.767	13.29	29	.00
Local tenderness	2.03	0.33	0.765	0.479	1.700	17.40	29	.00
Length of tract	2.63	0.50	0.669	0.509	2.133	18.58	29	.00

TABLE 2 - EFFECT OF VARIATION HEALING TIME

Total patientsMaximum daysMinimum daysMeanS.DS.E30361526.40.0510.009

TABLE 3: OVERALL RESULT OF THERAPY AND PERCENTAGE OF IMPROVEMENT

RESULT	NO. OF PATIENTS	PERCENTAGE
Cured	4	13.33
Marked improvement	15	50.00
Moderate improvement	11	36.66
Total	30	100

RESULT

The study revealed that the incidence of fistula in ano was more common in age group 41-50 years, maximum number of patients were males, i.e. 53.35%. Regarding to the type of fistula, maximum patients were suffering from Intersphincteric, i.e. 16% followed by Subcutaneous 40% and Trans sphincteric 3.3%. In regard to the number of openings, maximum patients were having only one external opening i.e. 93.3% followed by two external opening, i.e. 6.7%. Regarding to the position of external opening at 80'clock and 110'clock position i.e. 16.7% followed by 70'clock position i.e. 13.3%, 50'clock position i.e. 13.3% and 40'clock position i.e. 3.3%.

DISCUSSION

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Cassia fistula has Vatahara properties which reduces pain and inflammation and promotes healing. curcuma longa has Kaphvata shamaka and Pitta rechaka properties, therefore it reduces discharge which provides proper healing action on ulcers. It is relieves itching (kanduhara). It also has anti – inflammatory, analgesic and cleaning and healing(Shodhana – Ropana) properties. Honey has Ushna Guna and Katu Vipaka pradhana, which is suitable for scrapping the pus from the tract. It promotes wound cleaning and wound healing.⁵Ghee is Pitta and Vata Shamaka , which is beneficial for dhatus i.e. Ras, Rakta ,Sshukra dhatu and Ojas. It has Sheeta Guna , , Swara prasadan and Vranya. Valeriana wellichii is Tridoshahara (balances all the 3 doshas especially Kaphavata shamaka). Thus these properties bestow pack with cleaning and healing properties.

MODE OF ACTION OF PACK

All the ingredients of pack has antibacterial properties.Fruit pulp of cassia fistula has antibacterial, anti-inflamatory, analgesic, antifungal properties due to its chemical components like arginine, leucine, glutemic acid, glucose, fructose present in it.⁶ The chemical components of rhizomes of curcuma longa, like curcuminids, bisabolane, desmethoxycurcumin, bidesmethoxycurcumin, dihydroxycucumin, phytosteroids, having antibacterial and antifungal , anti inflammatory and antiprotozoal actions.⁷

Valeriana Welichii is Tridoshahara especially kaphvata Shamaka . The methanolic extracts of Valeriana Welichii has presence of phytochemicals, alkaloids, flavnoids, tannin , saponins which involves in free radical scavenging activity and provide antibacterial and antifungal properties .[§] Ghee has antibacterial and antifungal properties . Ghrit has been advocated and used as dressing, for infected wound by Acharya Sushruta; (600 BC) the dressing markedly reduce the foul odour and discharge. Ghee is effective at repairing and restoring the skin. The slightly acidic PH level of honey helps to protein called defensin-1.

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In the scientific world Journal, researches provided data, confirming that natural honey was as effective as EUSOL antiseptic solution in reducing wound infection. Thus all the ingredients of cassia fistula pack possess antimicrobial (anti bacterial and antifungal) property which control infection within the fistula and promotes healing.

The present study was undertaken to know the efficacy of cassia fistula with improvement in clinical features. This therapy was also found better as far as the above mentioned criteria were concerned. During administration of cassia fistula, anesthesia was not required. Minimum time required for the administration was 2to 5 minutes. Hospital stay was not required for the process. Patient could do their daily routine work after the process and at last, patient did not faced pain during and after sitting.

CONCLUSION

Observation, analysis and results of the present study entitled – "Farfetched properties of cassia fistula pack to manage fistula in ano with special reference to low level fistula in ano" can be concluded as follows: There was a marked reduction in symptoms of pain, itching, discharge, length of tract and local tenderness. The treatment of fistula in ano by cassia fistula was framed on the principles of management of sinus (nadivrana) by means of wound packing. It was concluded that; administration of cassia fistula pack can be used for short length sinuses. In case of incomplete fistula, it is not rational to pierce the healthy tissue to make a complete tract; here cassia fistula pack could be an alternative. This process can be easily performed in outdoor patient department (OPD). Anesthesia was usually not required during the process. It is less time consuming procedure & does not require any special skill to perform the process.

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