Review Study on Kharsutra Therapy from Ayurveda

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ABSTRACT

Shalyatantra has given Ksharsutra treatment which is been proved boon for the society. World has changed very fast in the last decade many treatment modalities have emerged and stopped but still Ayurveda is contributing to modern science with its own originality with authenticity. Shalyatantra has contributed Ksharsutra treatment which is been proved boon for the society. Ksharsutra is a therapeutic modality of Ayurveda since many years. Kshara sutra is one of the para surgical procedures in Ayurveda which has been proven its action by scraping, draining, excision, penetrating and debridement. In present Era due to sedentary lifestyle anorectal disorders like Arsha (haemorrhoids), Parikartika (fissure), Bhagandar (fistulas) and Nadivrana (Pilonidal sinus) are seen increasing in the population. Thus ksharsutra plays a vital role in treatment of these diseases by its properties. Ksharsutra application helps in improving the process of healing and helps in maintaining health benefits with minimal invasion.

Keyword- Ksharsutra, Properties of Kshara, Ksharsutra Preparation and Standardisation

INTRODUCTION

According to reference of Shabdakalpadruma, the word Kshara + sutra derived from the root Kshara means to melt away or to perish and word Sutra means thread. Ksharsutra is a thread which is made up of caustic material and helps in destroying the devitalized tissue and to disintegrate the skin or other tissues. Ksharsutra is parasurgical procedure with minimal invasion its practice was initiated by Acharya Sushruta who lived between 800 B.C and 1000 B.C. Acharya Sushruta has used ksharsutra in various Ano-rectal disorders like Fistula, Hemorrhoids and Sinuses.

In the chapter of Shotha chikitsha of chikistasthana Acharya Charaka has described that Ksharasutra in the chapter of Shotha chikitsha adhyaya that Kshara sutra should be used with other measures in the treatment of Bhagandara. In Ashtanga samgraha and Ashtanga hrudaya Ksharsutra has been mentioned along with Shastra karma, Agni karma. In Ashtang HrudayaKsharsutra was specifically indiacted for Parikshepi type (Horse shoe shape Fistula) of Bhagandara. Acharya Charaka, Bhavamisra, Vangasena have mentioned use of ksharsutra in various diseases. Procedure mentioned in Rasa kamdhenu states thread should be coated with Arka and Snuhi kshira and dried for three times, followed by

smearing of Kshara.⁵ In Arshodikara Chakradatta mentioned about prepation of ksharsutra.⁶ Many such researches have been undergone in preparation of ksharsutra since years passed on. Kshara sutra therapy of Fistula-in-ano is accepted worldwide and has also mentioned in the text books of Colorectal surgery also, owing to its complication-free curative results.

Kshara sutra is a medicated alkaline thread which is well established Para surgical procedure in the management of Fistula-in-ano with a high success rate. This Para surgical procedure was evolved in India and was probably first practised by the Father of Indian surgery, Acharya Sushruta who lived between 800 B.C and 1000 B.C.

He coated the threads with certain medicaments and used them successfully in various Ano-rectal disorders like Fistula, Hemorrhoids and Sinuses. Acharya Charaka has described in the chapter of *Shotha chikitsha* that *Kshara sutra* should be used with other measures in the treatment of *Bhagandara*.⁴

Ashtanga samgraha and Ashtanga hrdaya had clearly mentioned it along with *Shastra karma*, *Agni karma and Kshara karma*. It is very important to note that *Kshara sutra* was specifically indicated by Ashtanga Hrdaya exclusively in *Parikshepi* type (Horse shoe shape Fistula) of *Bhagandara*.

Acharyas like Charaka, Bhavamisra, Vangasena have quoted the name of *Ksharasutra* to use in particular diseases without mentioning for the preparation of *Kshara sutra*. According to Rasa kamadhenu, the thread should be coated with *Arka* and *Snuhi kshira* and dried it out. This procedure should be repeated three times, followed by smearing of *Kshara* but the type of *Kshara* to be used is not mentioned. In Chakradatta, *Arshodikara* chapter clearly mentioned the idea of preparation of *Kshara sutra*, but the usage of *Kshara* in the preparation of *Kshara sutra* has not been mentioned.

MATERIALS AND METHODS

Properties of kshara:

- Katuka as it has pungent taste,
- Ushna it is heat producing nature,
- Tikshna because of its irritant nature,
- Vilayana because of its liquefaction property,
- Shodhana because of its cleansing property,
- Ropana improves granulation (healing),

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- Shoshana absorption,
- Stambhana arresting or stopping nature,
- Lekhana scraping property,
- Krimighna because of its antimicrobial action,
- Sterility⁸ if used in excess, It normalizes Aama, Kapha, visha, medo dhatu and also cures kushtha when given in proper doses.

Acharya Charak added two more properties – Laghu & Bhedana. 9

According to Vagbattachrya kshara acts by extracting all the toxins from the disease site and cures the disease without reoccurrence. ¹⁰

Reference of Kshara preparation as per Sushruta Samhita¹¹:

During period of Sharad Kaala(October-November) preparation of ksharsutra should be done. It should be done at hilly area located area. Devotional programme (mangalacharana) should be performed at the beginning. A healthy mushkaka plant and its root are taken; it is cut into small pieces and boiled till it is completely converted into ash. Acharya Sushruta first mentioned Ksharasutra in the treatment of Nadi Vrana (sinus), Bhagandara (fistula in ano), arbuda (Tumor) etc.but has not explained its preparation.

Ksharsutra preparation according to Chakradutta¹²

Acharua Chakradutta gave the first reference of preparation of ksharsutra in Chakradatta samhita. Acharya Chakradutta in treatment of Arsha (haemorrhoids) and Bhagnadara (fistula in ano) in the fifth Chapter of Arshachikitsa has explained about ksharsutra.

According to Acharya Chakradutta a thread should be taken that should be coated multiple times with Snuhiksheera (the latex of Euphorbia nerifolia) and Rajani churna (Curcuma longa).

Acharya Vangsen In the chapter of Arsha chikitsa has mentioned the use of Ksharsutra in the management of Arsha. Snuhiksheera, Malkangani, Triphala churna, Bhallataka churna, Kadudodkabij churna, Chitrak, Dantimoola churna, Saindhav, etc. should be taken in equal quantities. Then this homogenous mixture should be mixed with Ghrita. A thread is taken it is applied over linen thread and dried. Acharya Vangasen has not mentioned about the number of coating.

Ksharsutra preparation according to Rastaringini¹⁴

According to Rastaringini Haridra [Curcuma longa] is mixed with Snuhiksheera (the latex of Euphorbia nerifolia). Thread is taken and it is applied over it. Thread is allowed to dry in a shadow. This procedure should be done for 7 days.

Ksharsutra preparation according to Ras $Kamdhenu^{15}$

Snuhiksheera (latex of euphorbia nerifolia) or Arkasheera (latex of Calatropis gigantean), should be taken. One of these ksheer should be applied on thread. This should be dried on in shade. In same manner for three times procedure should be repeated. Thus the coated thread with kshar can be used in treatment of Arsha and bhagandara.

Ksharsutra preparation according to Prof. Dr.P.J. Deshpande (B.H.U.) ¹⁶

Late Prof. Dr.P.J.Deshpande the Former Dean, Faculty of Ayurveda, B. H. U made extensive research on preparation of kshasutra and process of standardization of ksharsutra. A surgical linen thread size number 20 is taken and hung inside Ksharsutra cabinet. The thread is coated with Snuhiksheera (latex of Euphorbia nerifolia) evenly all around the linen with the help of clean gauze piece.

Ksharsutra is applied and is hung inside the cabinet for drying. This procedure should be repeated for 11 days in same method. Next after this 12th coating of Snuhiksheera is done and ApamargaKshar is applied over the wet thread immediately and hung in the cabinet for drying. This procedure is done continuously for 7 days. Then 3 coatings are done with Snuhiksheera and fine powder of Haridra churna. Thus according to this procedure, Ksharsutra is made of total 21 days coating.

Standardization of Ksharasutra-

In standard Ksharasutra use of Snuhi Ksheera, Apamarga Kshara and Haridra churna should be done. Standardization of raw materials use in ksharsutra should be done on the basis of analysis of various physical and chemical parameters to ensure the quality control. It also requires standardization in preparation process and quality standards in packaging, storage, labelling and developing scientific parameters for maintaining its uniform coating, pH, microbial check etc.

Various characteristics of an ideal Ksharasutra based upon following features. Following are standard parameters for ksharsutra.

- 1. pH: 9.7 to 10.1
- 2. Length: 30 ± 1 cm
- 3. Diameter: 1.9mm
- 4. Min. breaking load: 5.83 kg
- 5. Weight of coating: 0.83 gm
- 6. Thickness of thread after coating: 2.10+0.11mm

pH of Individual Ingredients

- 1. Snuhi Ksheera: 5.6
- 2. Haridra: 6.2
- 3. Apamarga Kshara: 10.2

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Advantages of Kshara Sutra Therapy

- Simple and safe parasurgical procedure.
- Cost-effective and ambulatory.
- Minimal recurrence rate.
- Systemic diseases are also undergoing this procedure.
- No surgical complications like incontinence, stenosis and stricture.

Pathya-apathya (Diet and Routinely Activities)

From the very first day of Kshara sutra threading procedure, light diet like Khichri is advised. Patient is also advised to take plenty of fluids, blend diet, green vegetables, salad and seasonal fruits. Patient is further advised to avoid spicy and fried food and not to strain during defecation.

DISCUSSION

Acharya Sushruta has mentioned the use of Kshara to treatment of many diseases like Vrana, Bhagandara, Arsha, Ashmari, etc. this has proven the standard treatment. Acharya Sushruta has given an boon to Shalyatntra by use of Ksharsutra. Kshara described is useful orally and externally. Ksharsutra procedure is simple, very safe, effective and with minimal or no complications, unhazardous and easily acceptable by the patients. Kshara can be used in children, weak persons and decrepit which causes minimal pain. As there is minimal handing of tissue there is minimal interference in patient's routine work. Kshara has capability for treatment in medicine, surgical and para- surgical practice. Ayurveda has described parasurgical methods which are effective, easily practicable and can avoid the recurrence.

CONCLUSION

Ksharsutra acts by performing following actions scraping, excision, draining, penetrating, debridement and healing purposes. Ksharsutra has following properties Tridoshaghna, Pachana, Dahana, Ushna, Darana, Tikshna, Shodhana, Katuka, Vilayana, Shoshana, Ropana, Lekhana, Stambhana and Krimighna, etc. which makes it unique in its treatment modality. Thus there is need of the hour is to standardise all Ksharasutra for its proper use in treatment. More extensive research is necessary in preparation, standardization, and its various utility. Number of patients undergoing ksharsutra for various diseases especially fistula have been increased drastically.

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