

Review Article

Review of Ksharsutra and Ideas Regarding Standardisation and Globalization of Ksharsutra

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ABSTRACT:

Ksharsutra is a medicated thread which is being successfully used for the treatment of Fistula-in-Ano. Ksharsutra was first practiced by Sushruta - The father of Surgery. Dalhanacharya has elaborated the use of Ksharsutra in the management of Bhagandara and Arbuda. Chakradatta has described the method of preparation of Ksharsutra. The Surgeons from Banaras Hindu University have taken the initiative for standardization and preparation of various types of Ksharsutra. Dr. P.J.Deshpande and Dr. Sharma were the pioneers to establish Ksharsutra treatment as an effective Para-surgical procedure in the management of Bhagandara and Nadivranas. Still there is lack of standardized and patented Ksharsutras in the Indian as well as Global market. Hence there is need to Standardize and Globalize the Ksharsutra treatment for the management of various anorectal diseases. In this article information about the preparation of standard ksharsutra, various other types of ksharsutras is mentioned. Properties of standardized ksharsutra & Ideas about globalization of ksharsutra is elaborated.

KEY WORDS: Ksharsutra, standardization, Bhagandara, Fistula in ano

INTRODUCTION:

Ksharsutra is a medicated thread which is being successfully used for the treatment of Fistula-in-Ano. Ksharsutra was first practiced by Sushruta - The father of Surgery. He was using the Ksharsutra treatment for various anorectal diseases like Nadivranas at vital sites i.e. Marmashrit. He has indicated this procedure for the patients those can not tolerate the surgical intervention like Krusha- weak physically, Durbala- general debility, Bhuru- fearful.

Dalhanacharya has elaborated the use of Ksharsutra in the management of Bhagandara and Arbuda i.e. various types of growths or tumors those are pedunculated.

The use of Ksharsutra in the management of Bhagandara is also mentioned by Charaka in the Shoth Chikitsa Adhyaya (Cha. Chi 12/97)

Chakradatta has described the method of preparation of Ksharsutra but use of Kshara is not mentioned.

Rastarangini by Sadananda Sharma has mentioned

about 7 coatings of Haridra along with Snuhi kshir on thread for the preparation of Ksharsutra which is being used for Gudankura and Bhagandara (Fistula in ano).

The use of Caustic Alkali is also mentioned in Gadanigraha.

Ashtang Sangraha, Ashtang Hrudaya Yogratnakara And Bhaishajya Ratnawali also mentioned about Ksharsutra.

The Surgeons from Banaras Hindu University have taken the initiative for standardization and preparation of various types of Ksharsutra. Dr. P.J.Deshpande and Dr. Sharma were the pioneers to establish Ksharsutra treatment as an effective Para-surgical procedure in the management of Bhagandara and Nadivranas.

Now a days Ksharsutra is being used as an effective treatment modality for the management of Bhagandara, Nadivranas and other anorectal diseases

all over india . researches are ongoing by the post graduate students on various types of Ksharsutra. Still there is lack of standardized and patented Ksharsutras in the indian as well as Global market. Hence there is need to Standardize and Globalize the Ksharsutra treatment for the management of various anorectal diseases.

Standard Ksharsutra:

It was developed by Shalyatantra department of Banaras Hindu University and approved by I.C.M.R.

MATERIALS:

1. Ksharsutra Cabinet
2. Surgical thread – linen no.20
3. Apamarga kshar- Alkali prepared from the Ash of Achyranthus Aspera plant
4. Haridra Churna- Fine powder of Cucurma longa
5. Snuhikshir- Latex of Euphorbia Nerifolia

Coatings:

Total 21

- Snuhikhira - 11
- Snuhiksira and Apamarga kshar - 7
- Snuhikshir and Haridra powder - 3

Length of thread: 10 to 11 cm

Packaging: Polythene packs or Glass tubes

Other types of Ksharsutra:

1. Udumbara Ksharsutra – Prof. P.J. Deshpande and M.K.Jalan
2. Papaya Ksharsutra – S.N. Pathak and O.P.Singh
3. Snuhi Swarasa Ksharsutra- A.K.Gupta and S.N.Pathak
4. Modified Ksharsutras – R. Shankar and S.N.Pathak prepared 16, 18, 20 coatings and mixed coatings of Snuhikshir and Apamarga kshar Ksharsutra
5. Yavakshar coated Ksharsutra- S.N.Pathak and A. Vidyarthi
6. Ksharsutra Prepared from Chloroform soluble extract of Snuhi latex- R. Reddy S. N. Pathak
7. Ghritkumari Ksharsutra- K. R. Sharma and P. S. Reddy
8. Ksharsutra prepared from Snuhi kshir extract (Triterpene)- Prof. G. C. Prasad and R.K.Shah
9. Gandhaphiroja based Ksharsutra
10. Tankan Ksharsutra – R.K.Singh and S.N.Pathak
11. Aragwadhadi Sutra- P. H. Kumar , M. Sahu and K. R. Sharma.
12. Guggulu based Ksharsutra- Praveen kumar and M. Sahu

Analysis of Ksharsutra:

1. Minimum Breaking load- Weight at breaking point
2. Length – uniform
3. Diameter –uniform
4. Weight – in gms
5. Weight of coated material – in gms
6. Loss on drying- of coated material in gms
7. Extractile values derived from coated material
8. Alkalinity (pH)
9. Cucurmin content And Euphol content from coated material

Ideas for Globalization of Ksharsutra:

1. Collection of raw materials of good standards
2. Standardization of raw materials
3. Preparation of Ksharsutra by standardized methods
4. Standardization of prepared Ksharsutra
5. Sterile packaging of Ksharsutra
6. Marketing of Ksharsutra
7. Metacentric study to evaluate the efficacy of Ksharsutra
8. To obtain patent of standardized Ksharsutra
9. Clinical trials of Ksharsutra at foreign country hospitals

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