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# Management of Hemangioma with *Ksharasutra* - A Case Study

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## ABSTRACT

It is benign vascular endothelial tumor, common in girls (3:1). In *Ayurveda* Hemangioma can be compared with *Raktaja Granthi*. The diagnosis is based on clinical examination and usually straight forward by visual inspection. The treatment of Hemangioma has to be done with endurance and careful selection of procedure according to the type and site of the disease; otherwise, it may lead to cosmetic derangement or recurrence of the ailment regarding the management of this disease, different types of treatment procedures are explained in contemporary science. In *Ayurveda* also, various treatment principles explained like administration of drugs internally, external application of drugs and parasurgical procedures [i.e., *Raktamokshana* (bloodletting), *Ksharakarma* (chemical cauterization), *Ksharasutra* (medicated thread ligation) and *Agnikarma* (thermal cauterization)]. These indigenous treatment methods are minimal invasive procedures which do not cause the scar formation, no recurrence and found to be more beneficial in the treatment of Hemangioma. This case study will reveal the management of hemangioma through *Ksharasutra* along with internal medications. A female patient of age 24-year complaints of small swelling on left breast. Patient was diagnosed case of hemangioma. After required investigations and local examination of swelling, patient was planned and treated with (*Ksharasutra*, *Jatyadi Taila*) *Ayurvedic* formulations as described in texts of *Ayurveda*.

**Key words:** *Granthi*, *Hemangioma*, *Jatyadi Taila*, *Ksharasutra*, *Ropana*, *Shodhana*, *Case Study*.

## INTRODUCTION

A Hemangioma is developmental malformation of blood vessels and not a typical tumor. So, it is considered to be an example of 'Hematoma'. Such theory can be explained by the facts that 1) Hemangioma is often present since birth and 2) It

never turns malignant.<sup>[2]</sup> vitiated *Vata* etc. and also *Medas* pierced with *Kapha*. Having affected muscle and blood produce '*Vruttonnatam*' round protruded and '*Vigrathitam Tu Shopham*' knotty swelling. This is known as *Granthi*.<sup>[3]</sup> *Granthi* is categorized to be of 5 kinds by *Acharya Sushruta* and 9 by *Acharya Vagbhata*. *Raktaja Granthi* told by *Acharya Vagbhata* and *Acharya Sharangdhara*.<sup>[4,5]</sup> *Raktaja Granthi* present with burning over the swelling. The swelling or the region surrounding it will be yellow or red in color. The swelling suppurates quickly and easily and exudes a warm blood when pricked. There will be loss of tactile sensation. This is believed to be causes by an infestation of parasitic worms. It is '*Sadhya Vyadhi*'.

## CASE STUDY

**Chief Complains:** Patient complains of painless small swelling over left breast.

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**Associated Complains:** Patient complains of itching around the swelling.

**History of Present illness:** Patient was apparently healthy 15 days back; she experiences mild itching around swelling over left breast region. She was having swelling from childhood which increased. She approached Dr.J.J.M Ayurvedic College and Hospital for further management.

**Past history:** Not a known case of Hypertension/ Bronchial Asthma/ Hypothyroidism/ other systemic disorders.

**Family history:** All family members said to be healthy

**Menstruation cycle:** Regular (menstruation cycle started when she was 15)

#### Local Examination

- Site of swelling - Left breast region
- Colour of swelling - Bright or dark red
- Size of swelling - 1cm
- No of swelling - 1
- Surface - Irregular
- Consistency - Soft
- Compressible – Yes

**Fig.1: Before Treatment**



**Fig.2: After Treatment**



#### Investigations

- Hb - 13gm
- BT - 2' 35"
- CT - 8' 56"

#### Treatment

On 3/4/2021 excision followed by *Ksharasutra* ligation over left breast under local anesthesia under antiseptic precaution

#### Pre-operative procedures

1. Consent was taken
2. Inj. xylocaine test dose SC was given
3. Inj. T.T 0.5CC IM
4. Inj. Dynapar IM

#### Operative Procedure

1. Patient was positioned in supine position
2. Part painted and draped
3. Local anesthesia given (inj. Lignocaine - lox 2%)
4. With the help of allis forcep the Hemangioma pulled upward and *Ksharasutra* tied in the base of Hemangioma
5. Later Hemangioma excised out
6. Hemostasis achieved with pressure bandage

7. Dressing done

#### Post-operative procedure

1. Tab. Taxim O 200mg 1-0-1 AF - 3 days
2. Tab. Pan 40mg 0-1-0 BF - 3 days
3. Tab. Zerodol SP 1-0-1 AF - 3 days
4. Tab. *Triphala Guggulu* 2-0-2 AF - 8 days
5. Tab. *Gandhaka Rasayana* 1-1-1 AF - 8 days
6. *Jatyadi Taila* for daily dressing

**Table 1: Treatment schedule**

Date	On Examination	Treatment
4/4/2021	<i>Ksharasutra</i> in situ Mild slough Pain ++ No pus discharge No bleeding	Tab. Taxim o 200mg 1-0-1 AF Tab. Pan 40mg 0-1-0 BF Tab. Zerodol sp 1-0-1 AF Tab. <i>Triphala Guggulu</i> 2-0-2 AF Tab. <i>Gandhaka Rasayana</i> 1-1-1 AF <i>Jatyadi Taila</i> dressing
5/4/2021	<i>Ksharasutra</i> in situ Mild slough Pain + No pus discharge No bleeding	Tab. Taxim o 200mg 1-0-1 AF Tab. Pan 40mg 0-1-0 BF Tab. Zerodol sp 1-0-1 AF Tab. <i>Triphala Guggulu</i> 2-0-2 AF Tab. <i>Gandhaka Rasayana</i> 1-1-1 AF <i>Jatyadi Taila</i> dressing
6/4/2021	<i>Ksharasutra</i> falled itself No slough mild pain no pus discharge no bleeding	Tab. <i>Triphala Guggulu</i> 2-0-2 AF Tab. <i>Gandhaka Rasayana</i> 1-1-1 AF <i>Jatyadi Taila</i> dressing
7/4/2021	Mild pain No pus discharge No bleeding	Tab. <i>Triphala Guggulu</i> 2-0-2 AF Tab. <i>Gandhaka Rasayana</i> 1-1-1 AF <i>Jatyadi Taila</i> dressing
8/4/2021	No pain	Tab. <i>Triphala Guggulu</i> 2-0-2 AF

	No pus discharge No bleeding Wound is healthy	Tab. <i>Gandhaka Rasayana</i> 1-1-1 AF <i>Jatyadi Taila</i> dressing
9/4/10	Wound healthy	Tab. <i>Triphala Guggulu</i> 2-0-2 AF Tab. <i>Gandhaka Rasayana</i> 1-1-1 AF <i>Jatyadi Taila</i> dressing

#### Apamarga Ksharasutra Preparation

#### Material used in preparation of Apamarga Ksharasutra

- Barbour surgical linen thread no: 20
- *Apamarga Kshara*
- *Snuhi Ksheera*
- *Haridra Choorna*
- *Ksharasutra* cabinet

#### Preparation of Apamarga Ksharasutra

- The surgical linen thread was autoclaved and mounted on the hangers.
- A piece of folded gauze was taken, dipped in *Snuhi Ksheera* and the thread was smeared with *Snuhi Ksheera*.
- Second smearing was done only when the previous coating was dried.
- The thread was smeared with *Snuhi Ksheera* for 11 times in this manner.
- The threads were placed in the *Ksharasutra* cabinet for drying after each coating.
- The temperature inside the chamber was maintained 40 degree.
- After completing the first 11 coating of *Snuhi Ksheera*, next coating of the thread done by *Snuhi Ksheera* and *Apamarga Kshara*. *Snuhi Ksheera* was first coated over a thread and later *Apamarga Kshara* was coated on it immediately (i.e., when the thread is still wet) so that it stick to the thread properly.

- The thread was coated with *Snuhi Ksheera* and *Apamarga Kshara* for 7 time in this way only when the previous coating got completely dried.
- The last 3 coatings were given with *Snuhi Ksheera* and *Haridra Choorna*. This was done in same way as that of previous one.
- While applying each coat, care should be taken that the drugs spreads evenly on all the sides of the thread.
- Total number of coatings should be 21 times.
- Later the dried *Sutras* were sterilized in the cabinet and then preserved in sterile glass tubes

## DISCUSSION

The treatment of Hemangioma with above *Ayurvedic* drugs is found satisfactory. In this case we have used both external and internal medications. *Ksharasutra* in Hemangioma has shown good result. The ingredients of *Apamarga Kshara Sutra* are *Snuhi Ksheera*, *Apamarga Kshara* and *Haridra* powder. *Snuhi Ksheera* is having *Shodhana* as well as *Ropana* properties along with *Katu*, *Tikta Rasa* and *Ushna Virya* thus improve process of healing its cures infection and inflammation. *Apamarga Kshara* has properties of *Kshara* that is *Chhedana*, *Bhedana*, *Lekhana* and *Tridoshaghna*. *Chitraka kshara* on *Ksharasutra* cauterize the soft tissue. *Haridra* powder has the properties like *Rakta Shodhana*, *Twak Doshahara*, *Shothahara*, *Vatahara*, *Vishagna* and it is useful. The action of turmeric powder has the effect of bactericidal action with healing properties. *Ksharasutra* has got validation in the modern books also and is successful proven method for treating skin surface level and anorectal disorders. *Triphala*

*Guggulu* and *Gandhaka Rasayana* acts as *Vrana Shodhana* and *Ropana*<sup>[6]</sup> which helped in faster healing.

## CONCLUSION

Hemangioma is an important commonest disease it is developmental malformation of blood vessels and not a typical tumor. *Ksharasutra* therapy is very cost-effective treatment with no complications. *Ksharasutra* is very effective with minimum invasive surgical modality for management of *Raktaja Granthi*.

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