

ROLE OF KSHARSUTRA VARTI PRANIDHAN KARMA IN DANTANADI  
(PERIAPICAL ABCESS)- A SINGLE CASE STUDYBhumi Baraiya\*<sup>1</sup>, Shivani Patel<sup>2</sup>, Nisha Ganatra<sup>3</sup>, Tanvi Modi<sup>4</sup>, Umang Kapadiya<sup>5</sup> and Prof. Hemangi B. Shukla<sup>6</sup><sup>1,2,3,4,5</sup>M. S Scholar, PG Department of Shalakyta Tantra, Govt. Akhandanand Ayurveda College, Ahmedabad.<sup>6</sup>Professor & H.O.D, Department of Shalakyta Tantra, Govt. Akhandanand Ayurveda College, Ahmedabad.

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## ABSTRACT

Acharya Sushruta described *MUKHA ROGA* in *Nidana Sthana* and classified it in different manners as per location, prognosis, and surgical methods. Acharya sushruta mentioned *Sapta Ayatana* of *Mukha* as *Oshtha*, *Danta*, *Dantamoola*, *Jihva*, *Talu*, *Kantha*, *Sarvasara*. *Dantanadi* is one of the *Dantamoolagata Mukharoga*. As per acharya, *Dantanadi* produced due to avoid treatment of *Sadhya Pakva Shopha* which leads into suppuration and this suppuration goes deeper in site and produce *Nadivrana*. According to Ayurveda classics treatment of *Dantanadi* include :1) *Upnaha Swedana* (hot application), 2) *Nadivdarana*(incision of sinus),3) *Puyanirharana* (Drainage of abcess), 4) *Prakshalan*(curettage),*Pratisarana*, 5) *Nadivrana chikitsa*, 6) *Danta nirharana*, 7) *Kshara or Agnikarma*. In present case study *Nadivranavata Chikitsa* has been consider in treating *Dantanadi* for that *ksharsutra varti pranidhan karma* has been carried out which gives good effect in *Dantanadi*.

**KEYWORDS:** *Dantamoolagata roga*, *Dantanadi*, *Nadivranavata Chikitsa*, *Ksharasutravarti pranidhana karma*.

## INTRODUCTION

Acharya sushruta mentioned seven parts of *Mukha*<sup>[1]</sup>: *Oshtha*, *Danta*, *Dantamoola*, *Jihva*, *Talu*, *Kantha*, *Sarvasara*. *Dantanadi* is one of the *Dantamoolagata Mukharoga*.<sup>[2]</sup> *Danta Nadi* is similar with *Nadivrana*. As per acharya, *Dantanadi* produced due to avoid treatment of *Sadhya Pakva Shopha* which leads into suppuration and this suppuration goes deeper in site and produce *Nadivrana*.<sup>[3]</sup> In *Dantanadi TriDoshas* are vitiated and in *Dhatu Rakta* and *Mamsa* gets vitiated. According to modern medicine *Dantanadi* can be correlated with periapical abscess (A pocket of pus in a tooth caused by infection). Pain is typically localized in the periodontal tissue is richly supplied by proprioceptive nerve innervation. Two variants are seen first is acute and secondly chronic periapical abscess. Chronic periapical abscess is usually painless with an associated sinus formation. In Modern, Root canal treatment is used to remove the abscess. A drill is used to bore a hole into the dead tooth so that the pus can come out, Any damaged tissue will be removed from pulp. A root filling is then inserted into the space to prevent subsequent infections. People with a Periapical abscess and a recurring infection may need to have diseases tissue surgically removed. If a recurrence even after surgery, the tooth may be extracted.

According to Ayurveda classics, treatment of *Dantanadi* include : 1)*Upnaha Swedana* (hot application),2) *Nadivdarana* (incision of sinus), 3)*Puyanirharana* (Drainage of abcess), 4)*Prakshalan* (curettage), *Pratisarana*, 5) *Nadivrana chikitsa*, 6)*Danta nirharana*, 7)*Kshara or Agnikarma*.<sup>[4]</sup> In present case using *ksharasutra* for *Dantanadi*. *Ksharasutra*.<sup>[5]</sup> has action of *vranashodhana*, *lekhana*, *Ropana*, (Cleansing, scrapping, healing). In *danta nadi* basically *Rakta* and *Mamsa Dushti* and *kshara* play an important role to cutting *Dushta Mamsa* so that *Ksharakarma Chikitsa* choosen for treatment.

## CASE REPORT

A fully conscious 44 year old female patient came to shalakyta tantra OPD of Govt. Akhandanand Ayurveda Hospital, Ahmedabad with chief complaints:

- *Dantamulagata Shula*, *Dantamulagata Sotha*, *Dantamulagata Raktima* and *mukhadaurgandhya* since 4 months.
- She had also complained of *Dantamulagata Raktastrav* since 3 months.

## AIM AND OBJECTIVE

To find out the efficacy of *Ksharasutra varti* in *Dantanadi*.

**MATERIALS AND METHODS****Case Findings**

Patient was said to be asymptomatic 4 months back. Gradually she noticed *Dantamulagata Shula*, *Dantamulagata Sotha*, *Dantamulagata Raktima* and *Mukhadaurgandhya* since 4 months. Later after some days she started noticing *Dantamulagata Raktastrav* since 3 months. Then it started worsening day by day. Hence, she approached OPD of government Akhandanand Ayurveda Mahavidhyalaya, Ahmedabad for Treatment.

**Hetu:** Excessive consumption of *Dadhi*, and *Amlarasa sevana*, Dairy products, day sleeping and devoid of proper brushing and poor oral hygiene.

**Vitals**

Pulse Rate:70/min

Respiratory rate:15/min

Blood pressure:110/80 mmHg

Temperature: 96.5 F

**INVESTIGATION:** Routin haematological and urine investigations were normal.

**PERSONAL HISTORY**

- Ahara-Niramish
- Nidra-7-8 hrs/day
- Kshudha-Samyaka
- Malapravritti-1 time/day
- Mutrapravritti-6-8 time/24 hrs

**ASHTAVIDHA PARIKSHA:<sup>[6]</sup>**

- Nadi-Vata- Pitta
- Mala-Nirama
- Mutra-Pittabh Shweta
- Jihva-Nirama
- Shabda-Spashta
- Sparsha-Mrudu
- Drik-Nirmala
- Akrti-Madhyama

**DISEASE RELATED EXAMINATION OF ORAL CAVITY**

Date	Procedure	Duration
28/11/2018	<i>Ksharasutra Varti Pranidhana Karma</i>	6-7 hrs
1/12/2018	<i>Ksharasutra Varti Pranidhana Karma</i>	6-7 hrs
3/12/2018	<i>Ksharasutra Varti Pranidhana Karma</i>	6-7 hrs
5/12/2018	<i>Ksharasutra Varti Pranidhana Karma</i>	6-7 hrs

**1. Danta (teeth)**

- Color: Yellowish
- Occlusion: No any occlusion
- Caries: No any carious tooth found

**2. DANTAMULA (GINGIVA)**

- Colour - Red and Black line on Margin
- Contour Surface texture: Steepling -Absent
- Food impaction :Absent
- CE junction :Normal
- Probing test: About 2 mm sinus tract was found on probing in on probing pus discharge and bleeding came from sinus tract.

**TREATMENT PROTOCOL:** Treatment protocol Followed *Ksharasutra Varti Pranidhan Karma* in *Dantanadi* And also give *Jatyadi Ghritha Pichu* for *Ropana* purpose.

**PROSEDURE OF KSHARASUTRA VARTI PRANIDHAN KARMA:** Patient was seated on dental chair. Probing test was done and tract was found,Then *Ksharasutra Varti* inserted in line with that tract with the help of tweezer.

- After Pt. was instructed to remove varti after 6 to 7 hrs and then *Jatyadi Ghritha Pichu* applied on that site.

**TREATMENT PLAN FOR ROPANA KARMA**

Date	Medicine	Duration
28/11 to 14/12	<i>Jatyadi Ghritha Pichu</i>	17 days
ORALLY:		
8/12/2018	1. <i>Panchavalkala Churna</i> -2 gm <i>Khadir Churna</i> -2 gm <i>Lodhra Churna</i> -1 gm 2 times for Kavala	7 days
	2. <i>Triphala Guggulu</i> (2 tab.3 times/day)	7 days
ORALLY:		
14/12/2018	1. <i>Panchavalkala Churna</i> -2 gm <i>Khadir Churna</i> -2 gm <i>Lodhra Churna</i> -1 gm 2 times for Kavala	7 days
	2. <i>Triphala Guggulu</i> (2 tab.3 times/day)	7 days

**OBSERVATION**

On follow-up patient may feel gradually decreased symptoms :*Dantamulagata Sopha, Dantamulagata Shula, Dantamula Gata Raktima, Mukhadaurgandhya And Dantamulagata Raktastrava*, Also pus discharge and bleeding not present on probing and tract was healed about 1 mm.

**DISCUSSION**

According to *Ayurveda Danta Nadi* developed because when one continuously consuming *Dadhi, Amlarasa*, devoid proper brushing with poor oral hygiene due to this *Kaphapradhan Tridosha* Aggravates and this vitiated doshas reach into mouth and produce *Mukharoga*, After that continuous consumption of *Nidana* its vitiate the Rakta and Mamsa *Dhatu* in *Dantamoola Pradesha* and produce *Sopha* if this *Sopha* remain untreated it leads in *Danta Nadi*.

This case study has been designed on ayurvedic management of *Dantanadi.I.E.Ksharakarma*. According to Acharya Sushruta treatment indicated in *Dantanadi* to extract the affected tooth if necessary than for *Shodhana* use *Ksharakarma* so that *Ksharasutra* used. *Kshara* also having properties like *Ushna, Tikshna, Shodhana, Pachana, Vilayana* etc. Acharya Sushruta describe quotation “*Ksharmata Kshanana Kshara*” that means *Kshara* useful for *Ksharana*(for cutting) and *Kshanana*(to kill). *Ksharasutra* has action of *Vranashodhana, Lekhana, Ropana*, (Cleansing, scrapping, healing). After that apply *Jatyadi Ghrita Pichu* for *Ropana*(healing) purpose. *Jatyadi Ghrita* does not have significant effect on wound contraction but it improves the healing score for dryness of the wound, decreases the inflammation and help in the enhancement of crust formation, and Given oral medication for purification of mouth and *Triphala Guggulu* was given as a pain reliever and removes allergy and bacterial growth into the body and also give anti-inflammatory effect.

**POSOLOGY OF KSHARASUTRA<sup>[7]</sup>****MODE OF ACTION**

From the outcome of various studies, it can be postulated that in *kshara sutra*, linen thread supports the strength of ligation and weight of 21 coatings, While snuhi latex acts as binding material for preserving all the properties of *kshara.Ksharasutra* work by pressure effect made by ligation which creates mechanical strangulation of blood vessels and tissues which causes the pressure necrosis of the body of any swelling. *Kshara* invades into cells of lesions till engorged tissue destruction occurs by its *Kshara guna*. *Snuhi* Latex is being proteolytic in nature, Dissolves the tissue at its base. The action of turmeric powder provides the effect of bacterial action with healing properties. All these three drugs not contradict with each other but rather support their actions by equal and desirable effect. *Kshara Sutra* has the ability to perform incision with excision slowly by virtue of its controlled chemical Cautrition. During cutting effect,

there may be oozing of blood which is ceased by sclerosing effect of *kshara* by its protein coagulation property. The chances of infection are least due to sustained action of anti-infective virtue of *kshara*.<sup>[8]</sup>

**CONCLUSION**

Efficacy of *Ksharasutra* given symptomatic relief into the patient and tract was healed about 1mm So on the basis of efficacy of *Ksharasutra Varti in a case of Dantanadi* is proven.

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