

Avurline

International Journal of Research in Indian Medicine

Effect of Jalaukavcharna in shatroga w.s.r. to Glomus Tumour:

A case study.

Ayesha Begum Awan Bin Bamar^{*1}, Vinay R. Sonambekar², Santosh Pathak³, Pankaj Dixit⁴

- 1. PG SCHOLAR, (Shalya Tantra)
- 2. HOD & PROFESSOR, Mail address: sonambekar,chinmay@gmail.com;
- 3. ASSISTANT PROFESOR, Email address: drsantoshsp@gmail.com
- 4. ASSOCIATE PROFESSOR, <u>drpankajpdixit@gmail.com</u>

Shalya Tantra Department., A.S.S. Ayurved Mahavidyalaya, Nasik, Maharashtra, India- 422003. *Corresponding author: Email address: <u>dr.ayesha131@gmail.com</u>; Mob no: 9834528525, 9028801060

Abstract:

Aims:

- Evaluation of efficacy of *jalukavcharna* with special reference to glomus tumour.
- To study the management of pain by application of *jalauka* in glomus tumour.

Background-

Glomus tumour is a specialized arteriovenous communication surrounded by smooth muscle calls and large epitheloid or cuboidall cells, glomus cell. The sensory nerves (both medullated and non medullated) end at these epithelloid cells make this tumour very much painful.

Even the slight pressure well gives rise to an excruciating pain. The commonest site of this tumour is just beneath the nail and near finger tips.

It looks like a small reddish blue spot. Which does not blanch on pressure as a hemangioma?

Local injury leads to inflammation and congestions. So there will be a painful bluish mass located under nail bed.

The symptoms of patient have a characteristic triad:

- Pin point pain.
- Pin point tenderness.

• Cold intolerance.

Case description-

A 21 year old female patient came in shalya department with complaint of sever pain in lt. hand ring finger since 1 month. Pain increase during movement and cold intolerance.

On the baises of above complaint patient selected for *Jalaukavcharna* and treated as per the *Acharya Shusruta* three times with three follow up.

As per the Morden science treatment for glomus tumour is analgesic and complete surgical excision; which was some adverse effect on human body.

If not treated glomus tumour pain in time then patient become restless and anxious due to pain.

The features of glomus tumour resemble the features of "*shatroga*" described in *Ayurveda* by *Acharya sushrut* and *Asthang haridiya*.

There are many treatment modalities in *Ayurveda* for "*Shatroga*" available.

Jalaukavcharna is important measures in this study we have used a *jalaukavcharna* as a reducing pain as a palliative treatment.

Single case study of glomus tumour was taken and *Jalaukavcharna* was used.

Observation and assessment were done and conclusion wase drawn.

Jalaukavcharna was found to be significantly effective in reducing the symptoms of "*shatroga*" that is glomus tumour.

Key words: Glomus tumour, Jalaukavcharna, pain, Acharya Sushrut, Shatroga, ,

Introduction:

Glomus tumour arises from a cutaneous glomus composed of tortuous arteriole which communicated directly with a venule, the vessels being surrounded with a network of small nerves.

These specialised organs regulate the temperature of skin and found in the limbs especially the nail beds.

The lesion has a bluish ting due to the blood content and the subungal lesions are usually 1-2mm in size.

The pain is burning in nature and radiates peripherally and is move often noticeable when the limb is exposed to sudden changes in temperature.

These features of glomus tumour is resemble as features of "*Shatroga*" which is describe in *Sushrut samhita* (Su.Ni.13/19) and *Asthang Hirdiya* (A.H.U.31/32)

नखमांसमाधिष्ठाय पित्तं वातश्च वेद्राम् । करोति दाहपाकौ च तं व्याधि चिप्पमादिशेत् ॥ तदेव क्षतरोगाख्यं तथोपनखमित्यपि ॥

सु. नि. १३/१९

Jalaukavcharn is considered as most unique and most effective method of letting and safely indicated in all mankind including patients with poor threshold to pain. Because complete surgical excision of glomus tumour is high reccurance rate and post operative complication like difficulty of finger movement is more.

So in today's busy life style, palliative treatment with *jalaukavcharna* is more effective in terms of cosmetically and pain reducing.

As per Acharya *Sushrut* (Su.Su.13/1-24) Jalauka not only removes impure blood from body but also inject biological active substance. Which is present in its saliva which helps in reducing, pain, inflammation, tenderness and induration.

Objectives:

- To evaluate effect of *jalauka* in *"shatroga"* with respect to glomus tumour as 3 follow up.
- To find and develop a new palliative treatment in terms of pain management.

Material and Method:

Shalya Tantra is one of the important eight branches of *Ayurveda* in which surgical and Para-surgical techniques are described for management of various diseases. Glomus tumour is an ailment that affects all economical groups of population.

Jalaukavcharna is root back in ancient civilization.

It was a prevalent form of therapy in various ailments.

The novel Ayurveda text Sushrut samhita devoted a complete chapter on *jalaukavcharna*.

This papper summarizes effect of *jalaukavcharna* in glomus tumour.

This is most delicat method of *raktamokshana* is *jalaukavcharna*.

So, we decided to use a *jalauka* for bloodletting in "shatroga" with special reference to glomus tumour. (Su.Chi.20/9-10)

Method of Study

1. Selection of the patient

For a case study purpose patient is selected from Shalya tantra OPD.

चिप्य (प्प) मुष्णाम्बुना सिक्तमुतक्रुत्य स्त्रावयेद्भिषक् ।

चक्रतैलेन चाभ्यज्य सज्रचुर्णेन चुर्णयेत् ॥ बन्धेनोपचरेच्चैनमशक्यं चाग्निना दहेत । मधुरौषधिसिध्देन ततस्तैलेन रोपयेत ॥

सु.चि.२०/९-१०

Case presentation:

A 21 year old female patient came in Shalya OPD with

C/O-

• Sever pain in Lt. hand ring finger.

- Pain increase during movement.
- Cold intolerance.

Since one month.

0/Е-

- Sever tenderness at Lt.hand index finger +++
- Bluish Spot on nail of Size near about 3mm.
- Mild induration present at distal phalanx.
- Bluish spot not blanch on pressure.

H/O-

- History of trauma at Lt.hand ring finger 6 month ago.
- No H/o- HTN, D.M, KOCH'S, B.A, Major illness.
- S/H- T.L done 1 year ago.
- Addiction- Not any.

GENERAL EXAMINATION –

G C-Good, Afebrile. Bp-130/90 mm of hg PR-80/min R/R-18/min SYSTEMIC EXAMINATION- **RS-AEBE** clear

CVS-S1S2 normal

CNS-Conscious, oriented.

The following treatment given to a patient-

- 1) Mahamanjistha kawatha 10 ml BD.
- 2) Amruta Guggul 2 BD.
- 3) Nirgundi taila for local application.
- 4) Jalaukavcharna done three times with three follow up. (D0, D4, D7), with interval of three days.

Jalaukavcharna vidhi:

Jalaukavcharna vidhi is done as per the Acharya sushruta mentioned in Sushrut samhita sutra sthana.

With the use of one *jalauka* 5-10 ml of bloodletting was done.

Three times *jalakavcharna* done with three follow on $(D_0, D_4, and D_7)$ and interval of three days.

Cleaning and dressing of *jalaukavcharna* wound site with *Haridra* powder.



Figure 1 Jalaukavcharna Vidhi

E- ISSN: 2456-4435

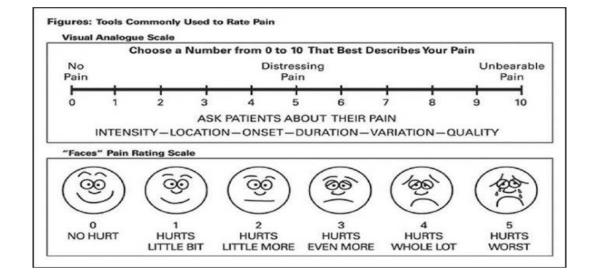
Assessments criteria:

- Criteria as pain band tenderness, erythema were assessed by different grading system.
- Mild, moderate, and sever grading were done according to standard protocol.

Objective Criteria

1. <u>Pain</u>

V.A.S (Visual Analogue Scale) is applied.



Observation	V.A.S Score	
No pain	0	
Mild pain	1	
Moderate pain	2	
Sever pain	3	

2. Erythema

Clinical observation	Score	Grades	
No evidence of erythema	0	0	
Pinkish discoloration	1	+	
Definite Bluish locally	2	+ +	
Gross discolouration with	3	+ + +	
itching.			

3. Tenderness

Clinical observation	Score	Grades	
Absent	0	0	
Mild pain tolerable pain	1	+	
Moderate tolerable pain but patient is	2	+ +	
in visibly agony			
Severe pain with crying and wincing,	3	+ + +	
with drawn of arm			
Touch at the site unbearable	4	+ + + +	

Observation and result – This study done on a single patient of *Shalaya Tantra* department (OPD) observation is as below.

		Mean		Mean		
Sr.No	Symptoms	BT Score	AT Score	Difference	% Relief	
2	Pain	3	1.5	1.5	50	
3	Erythema	3	1	2	66.66	
4	Tenderness	3	1	2	66.66	
<u>Total effect in</u> % -61.10%						

Table No: 1 (% Relief in all symptoms and Total effect in %)

In this case study there is significant improvement was observed in all the parameters like tenderness, erythema, pain. The percentage relief on symptoms has been observed.

In this case study effect of therapy shows effect of therapy 61.10 % relief in patient. This shows the effect of *Jalaukavcharna* in *Shatroga* that is glomus tumour is significant.

Discussion:

1. Pain and tenderness-

The present study revealed that the *jalaukavcharana* is significantly, effective in terms of pain. Due to its *snigdh gunatmak* it is *vatashamak*.

The anti-inflammatory and analgesic properties of leech in many aspects are associated with the blockage of amidolytic and kininogenase activities of plasma kallikerein resulting in prevention pain or pain relief.

Leech may also secrete a vasodilative, histamine like substance, which increase inflow of blood after a leech bite and reduce local swelling.

The *jalauka* constitute hyaluronidase which is spreading factor, can degrade tissue hyaluronic acid thus faciliting the infiltration and diffusion of remaining ingredients of leech saliva into congesed tissue work as potent analgesic and antiinflammatory so *jalauka* is very effective in terms of reducing pain.

2. Erythema

Jalauka was found to be effective in reducing erythema (Bluish spot).

It is *pittashamak* effect by its *sheetaguna* and help in reduces discolouration.

The present leeching largely potentiates tissue decongestion and also relieve capillary network work which decrease venous congetion positive changes of local hemodynamic and improvement of hemorheology will increase oxygen supply and improve the tissue metabolism and elements the tissue ischemia.

Conclusion:

Jalaukavcharna reduces all cardinal features of glomus tumour. Thus it can be proven as potent pain reducing medicine.ios case study significant improvement within seven days with three follow up in erythema, pain and tenderness were reduced significantly This therapy is done in a single patients with three follow up (D0, D4, D 7).

According to mentioned in *Ayurvedic* literature no adverse reaction is found after leech therapy.

In this case study significant improvement within seven days with three follow up in erythema, pain and tenderness were reduced significantly.

It is a single case study it can be stated that in this study *jalakavcharna* was found to be very effective in treatment of glomus tumour.

Jalauka are easily available, relatively cheap and have no obvious adverse effects. It is certainly more desirable as a palliative treatment in terms of reducing pain.

To validate the study another study with large no of participants is much needed.

Acknowledgement:

Special thanks to PARVEEN BEGUM my Mother, DR.MOHAMMAD ASLAM MOHAMMAD HUSSAIN Assistant professor New Model Degree College, Hingoli (my Uncle) and DR. SNEHAL BORSE PG SCHOLAR (Panchkarma Department), A.S.S Ayurved Mahavidayalya, Ganeswadi, Panchvati Nashik.

References:

 Shastri A, editor. Sushruta Samhita of Sushruta, Ayurvedatatva Sandipika commentary, Part I, Sutrasthan 17/3; Chaukhamba

Sanskrit sansthan, Varanasi; 2007, p.70.

- Fitzpatrick's, Dermatology in General medicine, 5th edition, volume-2, Chapter 197, McGraw-Hill Professional; 1999; p. 2214-2229.
- 3. Voros D, Role of early and extensive surgery in the treatment of severe Necrotizing soft tissue infection; British J Surg; 1993; 80; p.1191.
- Shashtri R.D, editor. Chakradutta of Chakrapanidutta, Visarpa Visphot Chikitsa: Chapter 52, Verse 32. Varanasi: Chaukhambha Subharti Prakashan, 2006; p. 209.
- Tripathi B, editor. Sharangdhar Samhita of Sharangdhar, Uttarkhand; Chapter 11, Verse 4-6. Varanasi: Chaukhambha Subharti Prakashan; 2006; p. 391.
- Mishra BS, editor, (9th Ed.). Bhavprakash of Bhavmishra, Part II, Madhyamkhand; Visarpadhikar: Chapter 56, Verse 32. Varanasi: Chaukhambha Sanskrit Bhavan; 2005; p. 551.
- Shashtri BS, editor. Yogaratnakar of Shashtri LP, Uttarardh; Visarpa Chikitsa: Dashang leap, Verse 1. Varanasi: Chaukhambha Prakashan; 2009; p. 248.

- Mishra SN, editor. Bhaishjyaratnavali of Govindas Sen, Part II, Visarprogadhikar: Chapter 57, Verse 18. Varanasi: Chaukhambha Subharti Prakashan; 2007; p. 918.
- Ayurvedic texts like: Chakradutta in Visarpa-Visphota Chikitsa 23; Sharangdhar, Madhyam Bhag, Uttarkhand 11/4-6; Bhavprakash, Uttrardh, Dwitiya Bhag 56/32; Yogaratnakar, Uttrardh, Visarpa Chikitsa; Bhaishjyaratnavali 57/18.(Pg-58).
- 10. A concise textbook of surgery by S. Das 6st edition.
- 11. IJAM Yoga, Neelesh Kandelwal in Vol no.5 (2 April-june-2012).
- Indian Academy Of Science by Aradhya and L singh on September 2011.
- 13. Life science and medicine research, volume-2011 by pawan kumar.
- 14. Gopala Krishnan v.k etal.IRJP 2012, 3 (6).
- 15. <u>WWW.Vikaspedia.com</u>
- 16. WWW//htp.scholar,google.co.in
- 17. IJAPR|Marchj 2016|vol 4 | issue 3.
- 18. http://www.elsevier.com/ locate/jaim

Cite this article:

Effect of Jalaukavcharna in shatroga W.S.R to Glomus Tumour: A case Study. Ayesha Begum Awan Bin Bamar, Vinay R. Sonambekar, Santosh Pathak, Pankaj Dixit Ayurline: International Journal of Research In Indian Medicine 2019; 3(5): 1 - 8

E- ISSN: 2456-4435