Efficacy of Jalaukavacharana on shleepada (elephantiasis).

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ABSTRACT:

Sushruta has described Panchakarma i.e. 5 types of karma which purifies body in which Raktamokshana is specifically described by Sushruta. As described by him Vaman, Virechana, Basti, Nasya and raktamokshana with help of Jalauka to detoxify body.

Ancient Ayurveda has explained a disease named Shleepada which can be correlated with Elephantiasis or Filariasis. In Sanskrit “shlee” means Elephant and “pada” means foot. A disease in which one’s foot becomes foot of elephant is called as shleepada.

Patient should be selected showing salient features of Shleepada and diagnosed with sign and symptoms as mentioned in Ayurvedic context. So under all aseptic precautions and with the written consent of patient and his relative we should apply jalauka on affected foot along with antibiotics therapy. Some patients are old age and physically not fit for any surgical intervention. That is why we decide to do Jalaukavacharana along with the conservative antibiotic therapy.

KEYWORDS:

Shleepada, Raktamokshana, Jalauka, Filariasis, Panchakarma.

INTRODUCTION:

‘Shilavat padam Shleepadam’1 is the pathological condition where someone’s foot become like foot of Elephant or like stone. Shleepada is categorised under krimi vijnyanam. This condition mostly affects the Twak. Rohini is the sixth layer of the twak and it is considered to be seat of Granthi,
Apachi, Arbuda, Shleepada and Galaganda.²

Causes :⁴

- **Kapha** prominent food and habits (kaphaja ahara vihara)
- Heavy food intake (guru ahara)
- Stagnant water (puranodaka)
- Cold water intake (sheetala jalapan)
- Residing in area where stagnant water is nearby (puranodaka bhuyishta desha).

Due to above mentioned causes kapha prominent three doshas get aggravated. The doshas are lodged in inguinal region first and gradually move downward towards feet. Due to lodging of doshas in legs stony swelling resembles like foot of elephant.

**Shleepada** borns in cold climate and contaminated water which causes vitiation of Vata,Pitta and Kapha leading to adhogamana of Prakupita doshas which then get localised in groin,thigh,foreleg,calves and gradually reaches to the foot giving rise to Shopha associated with Arati,Jwara and turns into hard consistency.³ Kapha dosha is the main culprit for producing Shleepada. There are three types of Shleepada i.e. Vataja,Pitta and Kaphaja.

**Nidana in shleepada :**

1) **Sannikrushta Nidana** : Kaphaja ahara and vihara and Dushta Jala sevana.
2) **Viprakrusht Nidana** : Sheeta kala and Anupa desha.

3) **Vyabhhichari Hetu** : Sheeta kala and Anupa desha.
4) **Pradhanika Hetu** : Kaphakara ahara and Dushta Jala sevana.
5) **Utpadaka Hetu** : Cold climate and Kaphakara ahara and vihara.
6) **Vyanjanaka Hetu** : Accumulated Kapha.
7) **Dushta Hetu** : Vata : Jala from Sahya Range Pitta : Jala from Anupa Desha Kapha : Kaphakara ahara vihara
8) **Vyadhi Hetu** : Kaphakara ahara and Dushta Jala sevana.
9) **Udbhaya Hetu** : Water from anupa desha,kaphakara ahara and dushta jala sevana
10) **Bahya Hetu** : Kapha dosha prakopaka – Dadhi, Matsya etc
11) **Anubandha** : Vata and Pitta.
12) **Anubandhya** : Kapha dosha.

**Lakshanas of 3 types of Shleepadas :⁵**

1) **Vataja Shleepada** : in this Shleepada the shotha is black in colour, dry with multiple cracks and much pain without any reason.
2) **Pittaja Shleepada** : in this Shleepada shotha is yellow in colour, soft and having burning sensation.
3) **Kaphaja Shleepada** : in this Shleepada shotha is oily, white in colour, heavy and stable.

**Samprapti** :⁶⁷⁸⁹

- Dushit Desha, Kala, Jala, Ahara Vihara
- Tridoshaparakopa
- Ama manifestation
- Rasavaha + Raktavaha + Mansavaha + Medovaha
- Srotodushti
- Adhogamana of prakupita doshas
- Aveshana Uru, Janu, Jangha
- Sirashaithilya Ashraya in Pada
- Shopha with pain
- Shleepada

Samprapti Ghataka :
- Dosha : Kaphapradhana Tridosha
- Dushya : Rasa, Rakta, Mansa, Meda and Lasika
- Srotas : Rasavaha, Raktavaha, Mansavaha, Medovaha
- Adhishtana : Twaka, Vankshana, Uru, Janu, Pada, Jangha
- Srotodushti Sanga, Vimargagamana.
- Swabhava : Chirkari
- Agni : Jatharagnimandya, Dhatwagnimandya
- Udbhavavastha : Amashaya
- Sancharsthana : Sarva Sharir.
- Vyakta Sthana : Adhobhagashopha, Karna, Netra and Shishna
- Rogamarga : Bahya

PROCEDURE :

Investigations
- CBC, ESR
- BT, CT
- FBS, PPBS.

Materials required:
- Leeches

- Coldwater
- Bowls 3–4 in number
- Gloves
- Gauze pieces
- Cotton pads
- Haridra powder
- Bandages.

Purvakarma for leech:

To activate the leeches, they should put in a bowl containing a solution of Haridra
And water for a period of 15–20 minutes; later on leeches are cleaned by keeping them in another bowl of pure water for 10 to 15 minutes.

Position:
The patients are advised to lie down in supine position depending on the Convenience of the patient, as well as severity of symptoms. Patients with severe Symptomatology should keep in lateral position.

Procedure:
The posterior sucker of the leech is held in one hand and anterior sucker is placed at the site of application, where the leech is expected to be fixed. Thereafter, The posterior sucker should release from the hand and attaches to the surrounding region. Thereafter, the leeches are covered with a gauze piece to keep it moist, over the gauze piece; few drops of water are poured on and often. As soon as the leeches show the signs of elevated head and pumping action of the anterior sucker region, the time is noted, when the leeches get detach at their own, the time was once again noted.
Precautions during application:
With the onset of symptomatologies like burning, itching, pain etc. The leeches should be removed by sprinkling Haridra powder.

Frequency of application:
In Shleepad more than 10 jaluka every weekly for 12-18 months.

Pashchat karma:
Some after the leeches get detach, the site of application should be cleaned with Triphala Kwatha (freshly prepared). Thereafter sprinkling of Haridra powder is done, followed by bandage. Patients are kept under observation in the hospitals for a minimum period of 6 to 7 hours in cases of OPD patients. Reduction in local swelling bleeding (persistent) and other signs are recorded. Further, blood pressure, pulse, temperature, respiration and general condition of the patients should be observed.

CONTENTS OF LEECH SALIVA
- Hirudin: The well known enzyme, a powerful anticoagulant.
- Bdellin: A protease inhibitor thus acts as anti inflammatory.
- Eglin: It inhibits inflammation but at same time it is also act as antioxidant.
- Apyrase: A powerful platelet anti-aggregate factor thus making bloodflow more fluid.
- Destabilase: Enzyme having powerful platelet anti aggregating activity which act by dissolving the blood clots
- Hyaluronidase: Act as factor for diffusion and as antibiotic.
- Lipase and esterases: Used for hyperlipidemia.
- Antielastase: These substances act by limiting action of elastases which degrade cutaneous elastin particularly at the level of skin 7.

PROBABLE MODE OF ACTION:
1) Due to removal of blood toxins present in the blood may be wear off and new RBC and WBC may form so immunity will increase.
2) Due to blood letting stagnant blood will release and blood flow to the site will increase so proper nutrition to that tissue may lead to relief in symptoms.

DISCUSSION:
In Raktamokshana, Jalauka are used for local pathology. Jalaukas are easily available comparatively to Shrungra, Alabu and also gives more benefits in various diseases. In my clinical practice I have used Jalaukas for many diseases and achieved very good results. So I thought jalaukavacharan may be have beneficial effect on Shleepada. The probable mode of action of jalauka is purification of the body by removing deeply seated toxins and pacifying vitiated dosha. A healthy cell gets sick when it gets less oxygen and nutrition and is unable to remove toxins accumulated during metabolism. Biologically active substances in leech
saliva help the cell to absorb necessary nutrition and eliminate toxins. Once leeches attaches themselves to the skin of the patient and start sucking blood, the saliva of leech enters the puncture site and along with the contents, enzymes and compounds enters into patient’s blood, working together, they act to cure the diseases present in an individual. Anticoagulant agent present in leech saliva makes blood thinner allowing it to flow freely through the vessels. These agents also dissolves clots found in vessels. The vasodilating agents help widen the vessel wall by dilating them, and thus causes the blood to flow unimpeded. Patients suffering from pain and inflammation feel relief from anti-inflammatory and anaesthetic agent of leech of saliva.

CONCLUSION:

Raktamokshana is considered as ardha chikitsa. By Raktamokshana, srotoshodhana is achieved which further helps in Shleepada. More number of Jalauka more frequently and for more duration of treatment is required and it will show astonishing results. In shleepada more than 10 jalauka every weekly for 12-18 months should be applied. Pharmacokinetics of Jalauka can be put course and removes deoxygenated, stagnated, impure blood so that pure blood supply may cure the disease.

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