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Exploring Modified Siravedha for Effective Treatment of Vatakantaka (Plantar Fasciitis)- A Single Case Report

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ABSTRACT:

Plantar fasciitis is one of the common causes of heel pain and it affects one in ten persons throughout their lifetime. Due to over strain to the muscles and ligaments of the plantar region, over-stretching of the plantar fascia is leading cause of the manifestation of plantar fasciitis. Looking at aetiopathogenesis, signs & symptoms, *Vatakantaka* mentioned under *Naanatmaja Vatavyadhi* can be correlated with plantar fasciitis and treatment modalities prescribed for it can be adopted for its management. *Siravedha* (~ venepuncture) is a unique modality given by Acharya Sushruta to let out noxious blood from the painful site and gradually cure the disease. A 39-year-old female patient visited *Asthi-Sandhi-Marma Roga* OPD with complaints of pain in the left heel region. Based on examination, she was diagnosed a case of plantar fasciitis and 4 sittings of *Siravedha* were done once weekly for 4 weeks after local *Snehana* (~Therapeutic oleation) and *Snedana* (~ sudation therapy) at foot region. Effective relief was achieved as pain and tenderness decreased significantly after each session. The Visual Analog Scale score dropped from 8 to 0, while tenderness decreased from Grade 4 to 0. Additionally, there were no recurrences during the 6-month follow-up period.

KEYWORDS: Calcaneal spur, Plantar fasciitis, Siravedha, Vatakantaka.

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INTRODUCTION:

Plantar fasciitis is one common cause of heel pain, and it affects one in ten persons throughout their lifetime. Overstrain to the muscles and ligaments of the plantar region, over- stretching of the plantar fascia are leading causes for the manifestation of plantar fasciitis. Looking at aetiopathogenesis, signs & symptoms, *Vatakantaka* mentioned under *Naanatmaja*

Vatavyadhi may be correlated with plantar fasciitis and it is manifested from placing the foot incorrectly on the ground or walking for an extended amount of time on an uneven surface. Acharya Yogaratnakara has named Vatakantaka as Padakantaka and prickling sensation in the Paada (~foot) is one leading symptom. Adhavakar has said, pain in the ankle region due to foot moving improperly is found in Vatakantaka [3], which produces Shula (~pain) and Stambha (~stiffness), especially in the morning hours.

Acharya Sushruta has mentioned Upakramas (~treatment modalities) such as Snehana (~unction), Upanaha (~poultice), Agnikarma (~therapeutic cauterization), Siravedha and (~bandaging) under context Bandhana Vatavyadhi Chikitsa to counter Prakupita Vata (~Provocative stage of Vata Dosha) when localized in Snayu and Sandhi (~ Joints).[4] Siravedha is a unique modality given by Sushruta to let out noxious blood from the painful site and gradually cure the disease. During the context of Sirvedhana Vidhi Acharya Susrutha explains, Siravedha two above Kshipra Marma (~first interdigital web space of lower limbs) as a treatment modality Vatakantaka.^[5] for Traditionally, Siravedha was performed by puncturing the vein with a scalpel. However, in this instance, we opted for the use of an 18 G scalp vein set for the sake of procedural ease and to minimize post-operative pain.

CASE RPEORT:

A 39-year-old female non-diabetic, non-hypertensive patient presented in *Asthi Sandhi Marma* OPD with left heel pain for the last 10 months. She was a bus conductor by profession and had a history of wearing

inappropriate footwear for long duration. The pain was severe for the first few steps after awakening from the bed in the morning and standing up from a long sitting posture. The pain was barely noticeable for the first several days before gradually getting worse. The pain aggravates on standing and walking and is relieved by rest. There was no history of any kind of bony trauma. She consulted Allopathic physicians and was given nonsteroidal anti-inflammatory drugs physiotherapy. She got symptomatic relief for 1 month. She sought medical advice once more and took steroid injections in the plantar region, but there were no changes in signs and symptoms, and surgery was recommended.

On general examination, she was found hemodynamically stable (pulse rate 62/min regular with normal volume and blood pressure of 120/82 mm Hg). On palpation tenderness at the heel, most prominent at the medial heel region was noted. dorsiflexion of ankle the tenderness worsened. Haemogram, liver function test, kidney function test, and serum calcium were in normal limits. X-ray of the foot was also normal. As per clinical assessment, the visual analogue scale (VAS) score was 8 and grade -4 tenderness was noted in the left foot.

THERAPEUTIC INTERVENTION:

Based on sign and symptoms, she was diagnosed as a case of Vatakantaka and planned *Siravedha* weekly once for four weeks. The procedure was explained to the patient, and after obtaining written informed consent, *Siravedha* was performed. The timeline for drug treatment is placed in Table 1

Table-1: Timeline

Date	Clinical findings	Pain in VAS & Tenderness	Therapeutic Intervention	
12/01/2017	Pain in the left heel, and difficulty in walking for the last 10 months. The severity of pain was severe in the morning, and tenderness was present at the medial aspect of the heel.	Before treatment VAS- 8 Tenderness- Grade 4 After treatment VAS- 3 Tenderness- Grade 1	First sitting of Siravedha	
19/01/2017	Significant relief from pain and tenderness. Morning heel pain persisted.	Before treatment VAS- 5 Tenderness- Grade 2 After treatment VAS- 2 Tenderness- Grade 1	Second Sitting of Siravedha	
26/01/2017	Slight pain and tenderness were only present. Morning heel pain also reduced.	Before treatment VAS- 3 Tenderness- Grade 1 After treatment VAS- 0 Tenderness- Grade 0	Third Sitting of Siravedha	
02/02/2017	Got relief from all the signs and symptoms.	Before treatment VAS- 1 Tenderness- Grade 0 After treatment VAS- 0 Tenderness- Grade 0	Fourth Sitting of Siravedha	
Swear Files				



Figure 1: Materials Required for Siravedha



Figure 2: Procedure of Siravedha

Table-2: Contents and Properties of Murivenna

Name	Latin name	Virya	Vipaka	Karma	Possible action
Karanja	Pongamia pinnata	Ushna	Katu	Shothhara	Anti-
	(L.) Pierre	(~hot)	(~bitter)		inflammatory
Kumari	Aloe vera Linn.	Sheeta	Katu	Shothhara	Anti-
		(~cold)			inflammatory
Tambula	Piper betle L.	Ushna	Katu	Shothhara	Anti-
					inflammatory
Shigru	Moringa oleifera	Ushna	Katu	Shothhara	Anti-
	Linn.				inflammatory
Shatavari	Asparagus	Sheeta	Madhura	Rasayana	Anti-ageing
	racemosus Willd.		(~sweet)		
Palandu	Allium <i>cepa</i> Linn.	Ishat	Madhura	Vrana-Shothah	Anti-
		Ushna		ara	inflammatory
		<i>(</i> ∼slightly			
		hot)			
	Erythrina variegate	Sheeta	Katu	Shothahara	Anti-
P aribhadra	Linn.				inflammatory
Tanduloda	Oryza sativa Linn.	Sheeta	Madhura	V-P Shamaka	Anti-
ka					inflammatory

Procedure:

After obtaining informed consent necessary investigations (HIV, hepatitis B surface antigen, bleeding time, and clotting time) were carried out, after confirming that all the reports were within normal limits, the patient was prepared for Siravedha. She was given Yavagu (~gruel) one hour before the procedure. A mobile medical unit was equipped with all the requisite instruments and materials essential for conducting Siravedha. [Figure-1] After ensuring the aseptic precautions, the patient was made to sit on the examination table, with her lower limbs hanging down from the table, and a stool was used as a support. Local Snehana was done with Murivenna and Swedana was done with hot water for 15 minutes. A tourniquet was applied 4 angula above the ankle joint. The needle of scalp vein set of size18 G was introduced to the *Sira* (~Vein) 2 Angula above from the Kshipra Marma (~first inter digital web space), which is in the dorsal venous arch of the foot. Following the flow of blood, the tourniquet was promptly removed, and the exposed end of the scalp vein set was positioned into a kidney tray. Approximately 80 ml of blood was let out and the needle was removed after a complete stoppage of flow of blood by itself. [Figure-2] The Total time duration for the completion 1st sitting of Siravedha was 16 minutes. The area was cleaned, and dressing was done with Murivenna taila. After dressing, the patient was kept under observation for 3 hours and asked to lie down in supine position with foot end elevated. She was also advised to take plenty of fluids and take rest on the day of the procedure. The same procedure was done in next 03 sittings. Total 04 sittings done at weekly intervals.

Follow-up and Outcomes:

After the first sitting, the pain score on VAS was reduced from 8 to 3, and the tenderness grade from Grade 4 to Grade 1. After the completion of 04 sittings, tenderness at the

medial aspect of the left heel was absent, and there was complete remission of morning heel pain. The patient was followed for six months. No signs and symptoms of plantar fasciitis were reported even after six months of follow-up.

DISCUSSION:

The most common cause of heel pain is plantar fasciitis, repeated Abhighata (~micro-trauma) in form of ill fitted shoes during working hours might be played a prime role in producing Ruja (~pain) in this case. Pain in heel region at early morning and stiffness occurs due to vitiation of Vata-Rakta dosha and Sthanika Kapha (~localized Kapha) present in Gulpha sandhi (~ankle joint). The pain starts when patients try to walk after waking up from bed. Early morning is the natural time for Kapha Prakopa (~provocative stage of *Kapha*). ^[6] That is why it produces *Stambhata* (~stiffness) at early morning. Due to Nidana, Vata and Rakta are vitiated and get localized at the Gulpha Sandi Pradesha (~ankle joint) producing symptoms of Vatakantaka. Various treatment options such as Agnikarma, Siravedha, and Eranda Taila Paana (~Internal administration of castor-oil) are described in Ayurveda for the management of Vatakantaka. Acharya Chakradatta, Bhavaprakasha and Yogaratnakara have recommended Raktamokshana as a better option for Vatakantaka. [7]- [9]

The treatment option used in this study is *Siravedha* along with local *Snehana* with *Murivenna* and *Swedana*. *Murivenna* used for *Snehana* possess *Ushna Veerya* (~hot potency) which pacifies Vata Dosha. [Table-2] Thus, *Snehana* with *Murivenna* and *Swedana* with hot water provides relief from symptoms *Ruja* and *Stambha* by controlling aggravated *Vata Dosha*. Blood-letting serves

as a purification therapy, recommended for removing vitiated *Dosha* or blood from the nearest route to the disease's main or root site, known as Roga Adhisthana. In the case of plantar fasciitis Kandaras (~tendons) are affected. Tendons are considered Upadhatu (~subtissues) of Raktadhatu (Blood), and restoring their health involves bloodletting, which helps alleviate signs and symptoms of plantar fasciitis.[10] From a contemporary viewpoint, activating large sensory fibers through peripheral tactile receptors suppresses the transmission of pain signals, both locally and across various body segments. As a result, pain in the heel region is diminished. Blood-letting also induces several physiological changes in the body, including enhanced local blood supply, improved local metabolism, optimization of the local drainage system, enhancement sympathetic of function, and stimulation of the production of immune-related T-lymphocytes. These changes potentially play a role in alleviating symptoms associated with plantar fasciitis. [11]

CONCLUSION:

The patient experienced significant improvement after four sessions of *Siravedha*, with no recurrence of symptoms over six months of follow-up. *Siravedha* proves to be an effective treatment for *Vatakantaka* (Plantar fasciitis).

Declaration of Patient Consent:

Authors certify that they have obtained patient consent form, where the patient/caregiver has given his/her consent for reporting the case along with the images and other clinical information in the journal. The patient/ caregiver understands that his/her name and initials will not be published, and due efforts will be made to

conceal his/her identity, but anonymity cannot be guaranteed.

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