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CASE STUDY

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Role of *Agnikarma* in the Management of Calcaneal Spur - A Case Study

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Abstract

Ayurveda is one of the most ancient sciences of human refinement. Shalyatantra is one of the branches of Ayurveda which consists of various treatment modalities mentioned in different disease conditions. Agnikarma is one among them. In Agnikarma, therapeutic burning is done with various types of tools at specific sites. This ensures complete cure of disease and avoids recurrence. Agni by it Ushna, Snigdha gunas pacifies Vata and Kapha and mechanically burns the unwanted tissue. In western medical sciences it is used under the heading of therapeutic burn or cauterization. In the present study a modest attempt has been made to evaluate the role and mode of action of Agnikarma in the management of Calcaneal spur. This case study concludes that Agnikarma is a very effective, easy and simple procedure that can implied as outpatient procedure for treating calcaneal spur.

Keywords

Agnikarma, Calcaneal Spur



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INTRODUCTION

Osseous Spurring of calcaneus was first documented in 1900 by the German physician Plettner, who coined the term "Kalkaneussporn" (calcaneal spur). The pathophysiology of calcaneal spurs is poorly assumed. The two explanations regarding the pathophysiology which could be termed the longitudinal traction hypothesis and vertical compression hypothesis may be able to clear the picture. Furthermore, a latest study has indicated that the bony trabeculae of spurs are vertically oriented, suggesting that the stresses responsible for spur formation may be the result of vertical loading. Calcaneal spur may be correlated with the signs of Asthivriddhi.

Shalyatantra is one of the prime branches of Ayurveda based on six major methods of management such as Bheshajkarma, Ksharakarma, Agnikarma, Yantrakarma. Shastrakarma and Raktamokshana. Agnikarma is superior among them and windfall for local Vata & Kaphaja Vyadhi. The diseases treated by Agnikarma do not recur and it gives instant relief to the patients. There is no fear of complication such as putrefaction and bleeding due to contact with Agni. Calcaneal spur is a common type of Vatik disorder found in all races. Owing to disrupting nature and difficult management *Vata Vyadhi* has been included in *Ashta-mahagada*. Due to change in life style like unsuitable standing & walking style Calcaneal spur is emerged in society as conspicuous disease.

CASE REPORT

Here we shall study a case of a 65yr old male patient who visited to OPD of Shalyatantra Department of Government Ayurved Hospital, Nagpur with complaint of pain, difficulty in walking and tenderness over right heel since one month without any major illness. On examination there was tenderness over right calcaneal region. The diagnosis was confirmed as Calcaneal spur on the basis of signs, symptoms and x-ray of right foot. It was decided to have Agnikarma as line of treatment with no any internal medication. Agnikarma was done daily for 5 days. Agnikarma was done with the help of Lohashalaka which was placed at the site of maximum tenderness over calcaneal region. It was done in a dotted manner i.e., Bindu. It was performed 10-12 times in one sitting. Madhu Ghrita was applied over the area to alleviate the burning sensation. Patient was observed for pulse and blood-pressure before and after the procedure. Same

procedure was carried out for 5 days. Patient was observed for 8 days after completion of the treatment.

MATERIALS AND METHODS

The case study was performed at Government Ayurved Hospital, Nagpur.

Assessment Criteria

Vedana (Pain)-

Visual analogue scale used for assessment criteria of Pain.

VISUAL ANALOG SCALE

0	1	2	3	4	5	6	7	8	9	10
No	Moderate						Severe			
Pain		Pain							Pain	

Table 1 Gradation of Pain according to the signs

Grade	Grade No.	Signs			
No Pain	0	No pain on pressing or during walking.			
Mild Pain	1-3	Pain related to site on			
Moderate	4-7	pressing. Disturbed daily work.			
Pain	4-7	Disturbed daily work.			
Severe Pain	8-10	Intolerable and			
		continuous pain, unable			
		to walk.			

♣ In any condition spirit should not be applied.

Main procedure (Pradhan karma)

Intermittent, multiple heating method: Performed by giving multiple heat burns, approximately 10-12, over the site of maximum tenderness.

Post-operative (Paschat karma)

Madhu Ghrita applied prior to dressing. This medicine helps to reduce the burning sensation and pain caused by heat burn also help in healing process. The site of Agnikarma is prevented from contact with water. follow-up taken for 8 days.

PROCEDURE

Pre-operative (*Purvakarma*)

Patients consent to undergo Agnikarma treatment.

Confirmation of site.

♣ Selected site cleaned with *Triphala*

Kwath or normal saline.

OBSERVATIONS AND RESULTS

Table 2 Improvement in the Signs & Symptoms of Calcaneal Spur after 5 consecutive sittings of Agnikarma

S r. N o.	Signs & Sympt oms	Before Agnik arma	Aft er 1 st Sitt ing	Aft er 2 nd Sitt ing	Aft er 3 rd Sitt ing	Aft er 4 th Sitt ing	Aft er 5 th Sitt ing
1.	Heel	8	6	3	1	1	0
	Pain						
2.	Tende	3	2	1	1	0	0
	rness						
3.	Diffic	8	7	5	3	1	0
	ulty in						
	Walki						
	ng						

When the patient came to OPD for first time, he had severe heel pain and then after 1st sitting of *Agnikarma*, it was reduced to moderate heel pain & gradually reduced upto the 5th sitting where there was no pain at all means patient completely relieved from pain. Similarly there was also gradual decrease in the tenderness and difficulty in walking as shown in table above.

DISCUSSION

A calcaneal spur is a bony projection forwards from under surface of calcaneal tuberosity. It is nothing but ossification of the plantar fascia at its calcaneal end. On an X-ray, a calcaneal spur can extend forward by as much as a half inch. Management of

calcaneal spurs and associated conditions include exercise, custom-made orthotics, anti-inflammatory medications and cortisone injections. If conservative treatments miss the mark, surgery might be necessary.

In Ayurveda, *Agnikarma* has been stated as one of the main treatment modality in decreasing the pain threshold. So based on this principle the study was carried out and after completion of therapy the symptoms found to be relieved. To support the effect of *Agnikarma* therapy following probable phenomena may take a part in relieving the symptomatology of disease,-

Probable Mechanism of Action

The probable mechanism of action of Agnikarma may be due to the assets of Agni. The properties of Agni are Laghu, Sukhsma, Tikshna and Ushna guna. It works on both vata and kapha dosha. It works on vata by its Ushna and Tikshna guna and on the kapha dosha by Laghu, Sukshma, Tikhsna and Ushna guna. It acts deep in the tissue because of its power of penetration by quality of Laghu, Sukshma and Tikshna Guna.

CONCLUSION

It is easy to learn and apply the principle of *Agnikarma* in managing different surgical conditions where surgery is not possible to treat the condition or there is great chance of relapse of disease. *Agnikarma* provides lot of options for the surgeon as it is easy to implement, less chance of recurrence, less bleeding and minimal pain.

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