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CASE REPORT

EFFECT OF PANCHA TIKTA KSHIRA BASTI KARMA IN AVASCULAR NECROSIS SAJJAN KALWANIA¹ KAHITEEJA CHOUDHARY² SANTOSH KUMAR BHATTED³

Summary:

Introduction: Avascular necrosis (AVN) is a condition that occurs due to loss of blood supply to the bone which leads to cellular death of bone tissue. Sometimes this condition involves the bones of a joint cause's destruction of the joint. In early stages there is no symptom but in advance stage patient is suffered from severe pain and dysfunction of affected joint. A female patient aged about 35 years with the complaints of pain in both hip joints and thigh region with difficulty in walking was admitted on bed no. 20 in Female ward. It was diagnosed as a case of Avascular necrosis of neck of femur based on MRI- reports. As per Ayurveda the patient is diagnosed as a case of Asthipradoshaja Vikara there is dominance of Vata Dosha. Patient was treated with classical Panchakarma treatment particularly with Basti Karma by using drugs like Panchatiktaka Kvatha and Guggulu Tiktaka Ghritam along with conventional drugs of Basti as Kala Basti schedule. Certain oral medication like Kaishore Guggulu, Manjishtadi Kvatha, Dashamula Kvatha and Triphala Churna etc were given. After completion of treatment the pain in hip joints and thigh region was reduced, range of movement of hip joint was improved and difficulty in walking was much reduced and walking distance was also improved. In the acute stage of AVN ayurveda play an important role but in advance stage of the disease still an awaited, but with the Panchakarma therapy along with shaman drugs improved the quality of life.

Keywords- Avascular necrosis, *Asthipradoshaja Vikara*, *Panchatikta Kshira Basti*.

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INTRODUCTION:

Avascular necrosis (AVN) is defined as cellular death of bone components due to interruption of the blood supply; the bone structures then collapse, resulting in bone destruction, pain, and loss of joint function [1]. Avascular necrosis (AVN) of the femoral head increasingly common cause musculoskeletal disability, and it poses a major diagnostic and therapeutic challenge, although patients are initially asymptomatic, avascular necrosis (AVN) of the femoral head usually progresses to joint destruction, requiring total hip replacement (THR), usually before the fifth decade [2]. In the early stage there is no sign and symptoms but in advanced stage the bone collapses and shows many symptoms like groin or hip pain radiating to buttocks, thigh or knee that is aggravated by weight-bearing. If in this condition the disease is untreated than the pain is progressively increase and worsens with time and use, on the later stage increases pain on rest which may be worse during night and may have associated with morning stiffness also. In Ayurveda, there is no direct co-relation with AVN, in this condition the treatment modality of this disease is according to Dosha and *Dushya*^[3]. Here in AVN, it seems that the predominant Dosha is Vata and Dushya is Asthi and on the chronic stage there is Tridosha involvement. So. in this condition panchakarma procedure like Basti Karma (Rectal administration of drugs) with Shamana drugs (palliative treatment) having very

effective results and maintains the quality of life of the patient.

CASE REPORT:

A female patient, aged about 35 years with the complaints of pain and stiffness in both hip joints, and thigh region with difficulty in walking since 2 years was admitted on bed no. 20 in Female ward. This reveals the chronicity of the disease. Patient has two children and history of facial paralysis twice in post-natal period. She took corticosteroid for longer time. This history of the patient reveals the possible role of corticosteroids in the causation of AVN.

Observations:

Signs: Difficulty in walking and painful hip joint movements, slow and waddling gait.

Symptoms: Pricking type of pain in bilateral hip joints and thigh regions and difficulty in hip joint movements.

Investigations: CBC- within normal limit MRI report (Dated- 21/03/2013) - Bilateral avascular necrosis 4 C on the right side and 3 B on the lift side.

Examination of the Rogi (patient) according to Ayurveda-

Parikshya	Bhava	Observations
(examination	of	
patient)		
Prakriti		Kapha-pitta
Vaya		Madhyama
Bala		Madhyama
Agni		Madhyama
Abhyavarana Sh	hakti	Madhayama
Jarana Shakti		Avara

Koshtha	Msdhaya

Treatment:-

After the proper diagnosis the patient administered with basti chikitsa in the schedule of *Kala Basti* start from 11/03/2015 to 27/ 03/ 2015 with *Samana* drugs. After that follow up by *Samana* drugs for one month.

a) *Basti Karma*: The *Basti karma* planned in schedule of *Kala* Basti ^[4]. In this *Kala Basti* schedule *panchatiktakshira Basti* ^[5] given as a *Niruha Basti* and *Anuvasana Basti* given by *Yasthimadhu Taila5* in the amount of 50 ml.

Contents of panchatikta kshira Basti-

- Madhu 60gms
- Saindhava lavana 05gms
- *Guggulu tiktata ghrita* 90ml
- Panchatiktaka Kwath 240ml
- Putoyavanyadi Kalka 30gms
- Kshira-240ml

The contents of *Kwatha* are *Guduchi*, *Nimba*, *Patola*, *Vasa* and *Kantakari*.

- **b) Shamana chiktisa:** Palliative treatment was given with following drugs
- $ightharpoonup Kaishor Guggulu^{[7]} 2 pills (500mgm)$ three times a day
- ➤ Dashamool Kwath^[8] 40ml two times a day
- ➤ Laghu Manjishtadi Kvatha 40 ml two times a day

- ➤ Ashwagandha(Withania somnifera)Churna
 3gms + Chophini(Smilex china) 500mg
 - + *Madhuyasthi* (Glycyrrhiza glabra) 2gms three times a day
- ➤ Triphala Churna 5gms at bed time

Assessment Criteria & Observations

Gradation Pattern Adopted:-

Pain with walking	Grade
Severe pain while walking	4
Moderate pain while walking	3
Mild pain while walking	2
Occasionally while walking	1
No pain while walking	0
Movements of joints	Grade
Movements of joints No joint movement	Grade 4
· ·	01444
No joint movement	4
No joint movement Restricted with pain	4

GaitGradeUnable to walk4Walk with support with severe pain3Walk with support with mild pain2Occasionally during walking1Normal without pain0

Local Pain	Grade	
Always in rest condition	4	
Radiating pain	3	
Pain on pressure	2	
Occasionally	1	
No pain	0	
Stiffness	Grade	

8 41111488	0.
Whole day and night	4
After long sitting and walking	3

Almost 30 min	2
Occasionally present	1
No stiffness	0

Effect of therapies on AVN:

S.No.	Symptoms	B.T.	A.T.
a)	Pain with walking	4	1
b)	Movements of joints	3	1
c)	Gait	3	2
d)	pain	4	2
e)	Stiffness	4	2

RESULTS

After the course of treatment relief in sign and symptoms of the patient, marked improvement found in the pricking type of pain and stiffness in hip joint and thigh region. Patient felt mark improvement in walking and the gait of patient improved.

DISCUSSION

Avascular necrosis is a degenerative condition of a bone which is progressive in nature, due to lack of blood supply to the particular part of a bone due to injury or any occlusion in the blood vessels nourishing the bone tissue. According to Ayurvedic point of view there is no direct co-relation with avascular necrosis but on their clinical presentation there is dominance of Vata Dosha Vikruti(vitiation) of Asthi Dhatu. In AVN the blood (Rakta Dhatu) supply to the femoral head is decreased due to any type of Margavrodha (occlusion of blood vessels) or Abhighata (trauma), and ultimately leads to necrosis. Margavrodha and Abhighata both are

also responsible to aggravation of *Vata Dosha* and increase *Vata Dosha* finally resulting into loss of *Asthi Dhatu*. In advance stage due to continuous *Vata Dosha* (due to necrosis) imbalance it further responsible for vitiation of *Pitta* and *Kapha Dosha* also. So here *Basti* is a choice of treatment for AVN, in all Panchakarma procedures because *Basti* is first line of treatment ^[9] of for *Vata Dosha* as well as *Pitta*, *Kapha Dosha* and *Rakta* also ^[10].

Probable mode of action of Panchatikta Kshira Basti is very effective and proven treatment for avascular necrosis because in Panchatikta Kshira Basti all ingredients are Tikta Rasa which having predominance of Vayu and Akasha Mahabhuta (space element). Hence, it has got resemblance towards body elements like Asthi. Tikta Rasa also reduces Kleda and Kotha and by virtue of Snigdha Guna. The decoction made in Kshira which

having Madhura and Snigdha (oleaginous) properties which help to control Vata Dosa and Pitta Dosa acts as Brimhana (nourishing). Due to Sukshma Guna of Saindhva it reaches up to micro channel of the body [11] and helps to open fresh blood supply to the bone tissue. In this Basti Gugglutiktaka Gharita used as a Sneha Gugglu and Tikta Dravyas are having Tikta Rasa, Ushana Virya and Madhura (sweet) and Katu Vipaka favours normal functioning of *Dhatvagni* (metabolic stage), facilitating increased nutrition to the Asthi Dhatu (bony tissue). Gharita (ghee) is VataPittashamaka (reduces Vata and Pitta Dosa), Rakta Prasadaka, *Balya*(increases body strength), Agnivardhaka (increases appetite as well metabolism), Madhura, as Shita Virya (cold in potency). Thus. it pacifies Vata; improves the Dhatu Upachaya (metabolism of the tissues) and acts as a rejuvenator of the body. Gharita has the properties of Samskarasya Anuvartana (that which inherits the properties of other drugs without altering itself) precipitating bioother drugs. Gharita also availability of contains vitamin D which plays an important role to utilize calcium and phosphorous from blood and helps in bone formation [12]. Thus helps in the Samprapti Vighatana (breaking down of pathology) of the Ashti Kshaya^[12].

Anuvasan Basti:

Yashtimadhuadi Taila was administrated as Anuvasan Basti which is having Madhur Rasa, Madhur Vipaka, Guru Snigdha Guna, Shita Virya, and having Vata-Pitta Shamaka property. Yasthimadhu is also help to increase the blood circulation due to Rasa Rakta Prasadaka property. Thus the combination of these Panchatikta Kshira and Yasthimadu Taila Basti acts at different level to in treating Avascular Necrosis of neck of femur.

Shamana drugs:

 Kaishore Guggulu is a drug of choice in Vatarakta in which obstruction in blood vessels is main pathology. So here it is very useful for improvement of blood circulation.

- Dashamula Kvatha is Tridoshahara, Vedana sthapak and Sroto Shodhaka, so in the condition of AVN it gives relief in sign and symptom of disease and for breakdown the Samprapti(pathogenesis) of the disease.
- Laghu Manjishtadi Kvatha is also indicated in the treatment of Vatarakta and it is also rakta Prasadaka.
- Ashwagandha is a Rasayana and Brahmghana property so useful in all type of Dhatukshya.
- Chopchini is Vedanahara, Shothanashaka and able to carry drugs in Sukshma Srotasa.

CONCLUSION

On the basis of this single case study it can be concluded that *Panchatikta Kshira Basti* along with certain palliative medicine are effective in the management of avascular necrosis of neck of femur. Further clinical trials are needed to establish a standard management of Avascular necrosis.

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