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AYURVEDIC MANAGEMENT OF FEMORAL HEAD OF AVASCULAR NECROSIS WITH PANCHTIKTAKSHEER MAJJA BASTI AND MAHAMANJISHTHADI GHAN VATI: A CASE STUDY

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ABSTRACT

Avascular necrosis (AVN) is a condition where there is interruption of the blood supply which proceeds to necrosis of bone components and causes collapse of bones. In *Ayurveda* it can be compared with a disease *Asthimajjjagata Vata* due to close resemblance in symptomatology and pathogenesis of both disease entities. The aim of this study is to find out an effective treatment protocol for it. The present case study is upon a 36-year-old male patient that diagnosed with avascular necrosis of femoral head having complaints of pain in left hip region for 6 months which was associated with difficulty in walking, sitting, squatting and climbing stairs which results to change in the gait. This patient was treated with *Panchtikta Ksheer Majja Basti* and *Mahamanjishthadi Ghan Vati*. Assessment was done after treatment and follow up of 15 days. The therapies yielded complete symptomatic relief from pain, tenderness, general debility and improvement in the gait. After the treatment pain was reduced significantly with improvement in range of movements. Even the patient was able to walk and climb stairs without pain and stiffness. There was a reduction in VAS pain scale and marked improvement was noticed.

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Keywords: Asthimajjagata Vata, Panchatikta Ksheer Majja Basti, Mahamanjishthadi Ghan Vati, AVN.

INTRODUCTION

The loss of blood flow to the bone, leading to death of the cellular components of bony tissues is known as Avascular Necrosis. Aseptic Necrosis, Osteonecrosis and Ischaemic Bone Necrosis are synonyms of AVN. There are a multitude of risk factors but over 80% of cases are attributed to glucocorticoids treatment or alcohol excess. AVN accounts for more than 10% of total hip replacement surgeries performed with a male to female ratio of 8/1. It is a disease of middle age that most often occurs in 4th or 5th decade of life and is bilateral in 55% of cases. The AVN is a condition affecting different bones as a result of transient/permanent loss of blood supply to the bones. Initially, patients are asymptomatic, but over the period it leads to joints destruction. In modern medicine treatment of Avascular Necrosis includes NSAID, bone grafting, joint replacement and physiotherapy which are not satisfactory in long term and having side effects and at last surgical treatment i.e., total hip replacement (THR) ¹ is only the option. There is no universal satisfactory therapy that has been developed yet for the AVN. There is no direct correlation of AVN and Asthi-Majjagata Vata but on their clinical presentations it is Vata Pradhana Tridoshaja Vyadhi with Vikruti of Asthi-Majja Dhatu. In Ayurveda this condition can be clinically resembles with Asthi Pradoshaja Vikara in general and Asthi Majjagata Vata in particular. According to Acharya Charaka symptoms of Asthimajjagatavata are breaking type of pain (Asthi bheda), pain in all the joints (Parvabheda), muscular wasting (Manshkshaya), weakness (Balakshaya), insomnia (Aswapna), continuous bodyache (Santatruk). The Acharya Charaka has mentioned Panchatikta Ksheera Majja Basti in the management of Asthimajjagata Vata and in Bhavprakasha Nighantu has introduced Mahamanjishthadi Kashayam which modified in Mahamanjishthadi Ghan Vati in the managements of Vatarakta,

Pakshaghata and Ardita etc. This trial consists of Panchatikta Ksheera Majja Basti and Mahaman-jishthadi Ghan Vati which do not have any side effects and withdrawal effects like modern medicines. Through this case study we will be able to counteract the symptoms of Asthi-Majjagata Vata (AVN).

AIM AND OBJECTIVES

- 1) To study the effect of *Panchatiktaksheera Maj-jabasti* and *Mahamanjishthadi Ghan Vati* in the management of *Asthimajjagata Vata* (AVN).
- 2) To find out an effective *Ayurvedic* Treatment Protocol for *Asthimajjagata Vata* (AVN).

MATERIAL AND METHODS

Selection and Source of patient for this clinical study, patient of *Asthimajjagata Vata* was registered from OPD of *Kayachikitsa* department (OPD No. – 20178912575 and IPD No. - 2022488) of Pt. Khushilal Sharma Govt. (Auto.) Ayurveda Hospital Bhopal (M.P.).

CASE PRESENTATION

Present Medical History

A 36years old male patient was diagnosed as case of AVN dated 22/03/2022 with OPD No. 20220012575 and IPD No. 2022488 at Pt. Khushilal Sharma Govt. Ayurveda Hospital Bhopal and presented with complaints of pricking type of pain in the left hip joint, restricted movements of hip joint and also found difficulty in walking, sitting and squatting Since 6 months. The nature of pain was continuous while walking or any other activity.

Past Medical History

Patient had history of *Aaghaat* (trauma) over hip joint at childhood. There is no Surgical history.

Personal History: Addiction- no, Occupation- Advocate, Appetite-poor, Sleep- disturbed (due to pain), Bowel- regular, Micturition- normal, Allergy- no

Family History: Not specific.

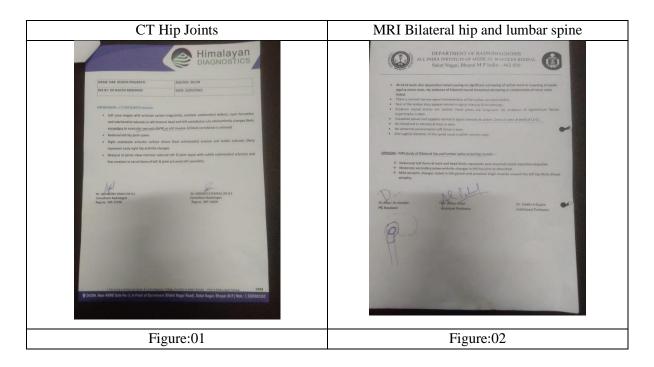
EXAMINATIONS

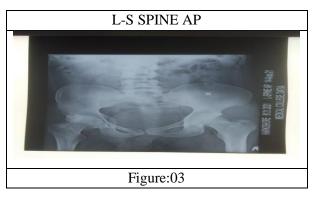
Table-01: General and Systemic Examinations

General Physical examination	Systemic examination
Appetite- Poor	 Cardio Vascular System: S₁S₂ Normal, no added sounds.
Bowel- Regular	Respiratory System: Normal
Bladder- Normal	Gastrointestinal System: No abnormality detected.
• Sleep-Disturbed	 Nervous System- Higher and motor functions are normal
Temperature- Normal	
Pallor- Absent	

INVESTIGATIONS

- > X-Ray and CT-Scan revealed that few osteophytes are seen arising from left acetabulum, mild reduced left hip joint space is seen and visualized upper left shaft appear unremarkable.
- MRI findings showed that osteoarthritis changes likely secondary to avascular necrosis (avn) or old trauma and reduced left hip joint space.





DIAGNOSIS

In this disease, the diagnosis was first done based on her previous history, signs and symptoms. But the final diagnosis was done by CT scan and MRI findings of hip joint and X-ray (L-S Spine AP View).

PLAN OF STUDY

- Patient was not taking allopathic medicines during the study period.
- The drugs *Panchtiktaksheeramajja basti* along with *Mahamanjishthadi Ghan Vati* required for were procured and prepared in pharmacy of Pt. K.L.S. Govt. Ayurveda College Bhopal (MP).

Duration of Study –30 Days

Follow Up -Every day for 1 month.

TREATMENT REGIMEN

Table-02: Treatment regimen

Drug	Dose	Anupana
Panchatiktaksheera Majjabasti	Anuvasan Basti Bala Taila -90ml (After meal)	-
	Panch Tiktaksheer Majja – 240 ml	
Mahamanjishthadi Ghan Vati	250 mg BD	Lukewarm Water

Table-03: Ingredients of Panchatiktaksheera Majja Basti

Anuvasan Basti	90ml BalaTaila (After meal)
Ksheer Majjabasti (Before meal)	
Ingredients	
Madhu (Honey)	60 gm
Sandhavlavana (Rock salt)	05 gm
Madhuyashti, Chopchini kalka (Herbal Powder)	30 gm
Panchatikta Ksheer Kwatha (Herbal decoction processed	
with milk).	180 ml
The content of Kwatha are Guduchi, Nimba, Vasa, Nidigdhi-	
ka, Patola	
Majja	60 ml

Table-04: Range of movement of Hip Joint Before treatment

Joint	Flexion	Extension	Abduction	Adduction	Internal rotation	External rotation
Left hip joint	10 ⁰ Painful	0 ⁰ Painful	15 ⁰ With support painful	15 ⁰ With support painful	Absent	Absent
Right hip joint	900	15 ⁰	40^{0}	20^{0}	Normal	Normal

RESULT

Table No. 05: Showing Pain VAS score².

Parameter	Criteria	BT		AT	
		Rt. Leg	Lt. leg	Rt. leg	Lt. leg
Pain	(0)	0	5	0	1
(VAS scale)	No pain				
	(1-3) mild pain				
	(4-6) moderate pain				

(7.10) savara nain		
(/-10) severe pain		
, , ,		

Table-06: Assessment of Clinical Features Before and After Treatment

Clinical features	Before Treatment	After Treatment
Pain	4	1
Stiffness	3	0
Restricted Range of Movement	3	1
Gait	3	1
Radiograph (Ficat Scoring)	4	4

Table-7: Range of movement of Hip Joint examination After Treatment

Joint	Flexion	Extension	Abduction	Adduction	Internal rota-	External rota-
					tion	tion
Left hip joint	45 ⁰	10^{0}	40^{0}	10^{0}	Painful	Painful
	Painless	Painless	Painless	Painless		
Right hip joint	900	15 ⁰	400	200	Normal	Normal

DISCUSSION

Patient had history of Aaghat (trauma) over hip joint that is the specific cause of Asthi and Majja Pradoshaj Vikara³. Due to that patient gradually developed sign and symptoms of Asthishoola and Asthi Bheda with Asavpana, Santataruka, Mansbalakshaya, similar to Asthi Pradosaj Vikara in general and Asthimajjagatavata as a particular Vatavvadhi⁴⁻⁵. According to Acharya Charaka there is no cause greater than Vata in the manifestation of disease and there is no better remedy other than Basti. Basti is the most important constituent of the Panchakarma due to its multiple effects. Basti eradicates morbid Vata from the root along with other Dosha and in addition provides nutrition to the body tissue. To treat AVN, drugs of Panchatiktaksheera Majja Basti⁶ acting on both Vata Dosha and Asthi Dhatu . According to Acharya Charaka in Asthidhatu dushti the treatment should be given as Ghrita and Ksheera of Tiktadravya. The ingredients of Panchatikta -Ksheera Basti are of Tikta Rasa which is having predominance of Vayu & Aakasha Mahabhuta. Hence, it has got resemblance towards body elements like Asthi (bone tissue). Further Tikta drugs having adoptogenecity, proves Vataghna & Rasayana(Dhatuvardhaka) & improves Dhatwagni(metabolic fire). It performs Pachana Karma, destroys Srotorodha (channel obstruction) leading to pacify Vata dosha& improve metabolism. The decoction made in Ksheera(Milk) which having Madhura & Snigdha properties which helps to control Vatadosha & Pitta dosha acts as Brimhana. Due to Sukshma guṇa of Saindhava; it reaches up to micro channel of body & helps to open fresh blood supply to the bone tissue⁷. As a results Asthi Dhatu, Majja Dhatu may get stable and Asthi-majja dhatu Kshaya will be decreased. So degeneration in Asthi dhatu may not occurs rapidly. The ingredients of Panchatikta -Ksheera Basti are of Tikta Rasa which is having predominance of Vayu & Aakasha Mahabhuta. Hence, it has got resemblance towards body elements like Asthi(bone tissue). Further Tikta drugs having adoptogenecity, proves Vataghna & Rasayana (Dhatuvardhaka)& improves dhatwagni (metabolic fire). It performs Pachana karma, destroys Srotorodha(Channel obstruction) leading to pacify Vata dosha& improve metabolism. The decoction made in Ksheera(Milk)which having Madhura & Snigdha properties which helps to control Vatadosha & Pitta dosha acts as Brimhana. The majja nourishes asthi by means of its *Purana* (filling) and *Snehan* properties and pacifies vitiated vata in asthi. Ushnaveerya cures Vata Janya shoola. Hence synergetic action of Majjabasti will act as vatashamaka which is beneficial in Asthimajjagatavata. Anuvasana Basti with Bala Taila – Bala having Madhura Rasa, Guru,

Snigdha guna, Sheetveerya and Madhura vipaka. It possess Vata Pittahara property and is Balya in nature. Also by having anti-inflammatory property it calms nerves and helps in muscle strengthening. AVN of hip joint develops due to obstruction of small blood vessels supplying to femoral head. Thus, Raktavaha Srotorodha becomes prime cause leading to Asthi Dhatu Kshaya in the hip joint. To counter this Rakta Dushti, Manjishthadi Ghan Vati was administered. Mahamanjishthadi Kwath is Tikta, Katu Rasapradhana and Ushna virya which acts as Raktaprasadaka and Tridoshahara. Blood purifier and immunomodulator. It detoxifies the blood, removes stagnant blood, and dissolves obstructions in the blood flow. It improves blood circulation of body. Mahamanjishthadi Ghan Vati has got antagonistic qualities towards Kapha and to Pitta as well as Rakta due to presence of Mahamanjishthadi Kwath

CONCLUSION

The enema therapy in the current case provided marked relief from pain, stiffness, general debility, and marked improvement in the gait. The grade of AVN did not worsen and was maintained well. This was a single case study to evaluate the efficacy of Panchtikta Ksheera Majja Basti along with Mahamanjishthadi Ghan Vati in the management of Asthimajjagata Vata (AVN) and the results produced were encouraging enough on the subjective and objective parameters but also provided the prevention of disease progression.

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