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# Ayurvedic management of Cervico-Lumbar Spondylosis (Khalli) - A Case Report

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Cervical and lumbar spondylosis are degenerative spinal conditions resulting from age-related wear and tear, leading to pain, stiffness, reduced mobility, and neurological complications. The rising prevalence of spondylosis is attributed to aging, sedentary lifestyles, and occupational hazards, posing diagnostic and therapeutic challenges. In Ayurveda, if there is a involvement of both cervical and lumbar spondylosis is correlated to Khalli, a type of Vatavyadhi. This study aims to evaluate the efficacy of Panchakarma therapy in the management of Khalli through a single-case study of a 43-year-old female patient who presented with low back pain radiating to the right leg and pain in the nape radiating to the right hand. She underwent a comprehensive Panchakarma treatment protocol, including Udvartana, Basti, Abhyanga, Pinda Swedana, Upanaha, and Siravyadha. After one month of treatment, the patient showed a significant reduction in pain and improved quality of life. The findings suggest that Panchakarma therapy offers a promising approach in managing Khalli.

Keywords: Khalli, lumbar spondylosis, cervical spondylosis, Panchakarma, Basti

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# Introduction

The cervical and lumbar regions of the spine are the most vulnerable to repeated stress, as they play a crucial role in supporting and facilitating everyday movements and activities. the most common pathologies affecting the cervical spine and lumbar spine are cervical spondylosis and lumbar spondylosis. about 13.76% of the population are affected with cervical spondylosis[1] whereas 76.7% the people are afflicted with spondylosis[2] the primary causes of spondylosis include age-related degeneration, trauma, poor posture, and occupational factors. With sedentary lifestyles, poor posture, and prolonged screen time becoming increasingly prevalent, even younger individuals are now experiencing early signs of spondylosis. Clinically, spondylosis manifests as neck or lower back pain, which may radiate to the hands or legs, often accompanied by numbness - a characteristic symptom of cervical and lumbar spondylosis, respectively. While many individuals experience either cervical or lumbar spondylosis separately, some suffer from a more complex condition where both regions are involved simultaneously. This dual involvement can lead to widespread pain, stiffness, nerve compression, and mobility issues, significantly impacting daily life. In Ayurveda, cervical spine pathologies are referred to as Vishwachi, characterized by symptoms such as Ruk (pain), Thoda (pricking sensation), Sthamba (stiffness), Karmakshaya (loss of function), and Chestapaharana (restricted movement) of arm.[3]

Lumbar spine conditions are identified as *Gridhrasi*, presenting with *Ruja* (pain), *Toda* (shooting pain), *Spandana* (throbbing sensation), and *Graha* (stiffness or immobility), originating in the *Spik* (gluteal region) and radiating through the *Kati-Prusta* (lower back), *Uru* (thigh), *Janu* (knee), *Janga* (calf), and extending to the *Pada* (foot).[4] When both *Gridhrasi* and *Vishwachi* occur simultaneously, the condition is termed *Khalli*.[5]

# Case Report

A female patient aged 43 years, from a middle socioeconomic background n/k/c/o Hypertension and Type 2 Diabetes Mellites known case of hypothyroidism for the past 8 years under medication Thyronorm 50 mcg, who was conscious and oriented to time,

Place and person came to Panchakarma OPD of Sri Dharmasthala Manjunatheshwara (SDM) College of Ayurveda and Hospital, Hassan on 02 April 2024 with the chief complaints of pain in nape of neck and lower back associated with heaviness and numbness in right upper and lower limbs.

**Table 1: Timeline** 

August 2016	Diagnosed with hypothyroidism; started on Thyronorm 50					
	mcg.					
March 2023	Slipped and fell backward in the washroom while doing					
	daily chores.					
After 2	Developed severe low back pain radiating to the right lower					
weeks	limb, stiffness, and numbness.					
	Pain aggravated with forward bending and relieved by lying					
	down.					
	Additionally, experienced pain in the nape radiating to the					
	right upper limb with numbness.					
April 2023	Visited a clinic and received injections and painkillers					
	(details unknown).					
MRI on	Degenerative lumbar spondylosis at L-5 and S-1 and					
11/4/23	degenerative cervical spondylosis at C-3 and C-4 vertebrae.					
May 2023 -	Continued the painkillers whenever there was pain, pain					
August 2023	used to subside while taking painkiller and was the same					
	while not taking painkiller					
2/4/24	Visited SDMCAH Hassan for further management					

**Table 2: Personal History** 

Appetite	Reduced
Bowel	Unaltered with normal consistency
Micturition	Unaltered 3-4 times/day
Sleep	Disturbed due to pain

**General Examination:** Built, nutritional status, hair and nail of the patient are normal, pallor, clubbing, cyanosis, icterus, lymphadenopathy and edema were absent. Blood pressure was 130/80 mm of Hg and pulse rate was 72 beats /minute

#### **Systemic Examination:**

- Respiratory system NVBS heard
- Cardiovascular system S1S2 heard, no murmurs
- Gastrointestinal system NAD
- Central nervous system Conscious, well oriented to time place and person
- Musculoskeletal examination

Cervical Spine Examination

**Inspection:** swelling present at nape of neck, no surgical scar.

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**Palpation:** temperature - warmth, tenderness at C-5, C-6, C-7 region.

**Range of movements:** flexion - painful (at 50 degrees), extension - painful restricted.

Table 3: Cervical spine Special tests:

Test	Right hand	Left hand	
Empty can	+ ve	-ve	

Spurling test +ve

Lumbar Spine Examination

**Inspection:** No swelling and no surgical scar marks

Palpation: Temperature - warmth, tenderness at L-

4, L-5 region

Range of movements: flexion restricted and

painful, extension - restricted and painful

**Table 4: Lumbar spine special test** 

Spine Examination	Right Leg	Left Leg
Straight leg raising test	+ ve at 45degrees	- ve
Faber's test	+ ve	- ve

Coin pick test + ve

#### Ashtasthana Pariksha

Nadi - Vatakapha

Mootra - Prakrutha

Mala - Prakrutha

Jihwa - Lipta

Druk - Prakrutha

Shabda - Prakrutha

Sparsha - Anushna Sheetha

Akruthi - Madhyama

#### Dashavidha Pariksha

Prakruthi - Vatakapha

Vikruthi - Vatakapha

Sara - Madhyama

Samhanana - Madhyama

Satva - Avara Satva

Satmya - Katu Rasa Pradhana

Aharashakti -

Abyavarana Shakti - Pravara,

Jarana Shakti - Avara

Vyayamashakti - Avara

Vaya - Madhyama

Pramana - Madhyama

#### Nidana Panchaka

#### Nidana

Aharaja : Katu Rasa Pradhana Ahara Sevana

Viharaja: Divaswapna, Abhighata

Poorvaroopa - Avyaktha

Roopa - Low back ache radiating to right leg and

pain in nape of neck radiating to right hand

Anupashaya - Bending forwards and doing

activities

**Upashaya** - Lying down

#### Samprapti Ghataka

Dosha - Vatakapha

Dooshya - Mamsa, Asthi, Snayu, Kandara,

Agni - Jataragni

Agnidushti - Mandagni

Srotas - Asthivaha and Majjavaha

Srotodusti - Sanga, Vimargagamana

Udbhava Sthana - Pakwashaya

Sanchara Sthana - Sarva Shareera

Vyaktasthana - Snayu and Kandara of Bahu, Hasta

Tala and Anguli and Kati, Uru, Prista, Paada.

Adhishtana - Greeva, Kati

Rogamarga - Madhyama

Sadhyasadhyata - Kricchra Sadhya

#### **Radiological investigation**

#### Whole spine MRI screening revealed:

Degenerative lumbar spondylosis at L-5 and S-1 and degenerative cervical spondylosis at C-3 and C-4 vertebrae.

Vyadhi Vinischaya: Khalli

Intervention: Panchakarma Chikitsa was planned

and it is listed in the table below.

Table 5: Panchakarma Upakrama

Table 5. Palicilakarilla Opakralla							
Procedure	Drugs used						
Sarvanga Udvartana Followed by Sarvanga	Udvartana Choorna	D1 - D3					
Parisheka	Dashamoola Kashaya						
Siravyadha	Right leg was carried under aseptic conditions and 80ml of Vatakapha Dushitha Rakta was	D2					
	obtained						

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Procedure	Drugs used						Duration
Erandamooladi Kshara Basti	Honey - 100ml					D1 - D6	
	Saindava -	12gms					
	Sneha - Sa	ahacharadi Taila	a 80ml				
	Kalka - Rasna, Shatapuspa, Devadaru - 10gm each						
	Kwatha - Erandamooladi Kwatha - 300ml						
	Avapa-Amritasara - 80ml						
	Anuvasana Basti with Sahacharadi Taila - 80ml						
	D1	D2	D3	D4	D5	D6	
	A	N/A	N/A	N/A	N/A	Α	7
	Where D re	Where D refers to day N refers to niruha basti A refers to Anuvasana Basti					
Prushta Basti	Mahanaray	Mahanarayana Taila					
Mustadi Yapana Basti	Honey - 80ml						D7 - D12
	Saindava - 6gms						
	Sneha - Sahacharadi Taila - 80ml						
	Kalka - Musta, Guduchi, Shatapushpa - 30gm						
	Kwatha - Mustadi Yapana Ksherapaka - 350ml						
	D7	D8	D9	D10	D11	D12	7
	N/A	N/A	N/A	N/A	N/A	A	7
Sarvanga Abyanga followed by Patra	Mahanaray	ahanarayana Taila					
Pinda Sweda							
Sarvanga Abyanga f/b Jambeeera Pinda	Mahanaray	Mahanarayana Taila					D8 - D10
Sweda							
Vatahara Upanaha	Kolakulathadilepa, Rasna, Bala, Devadaru, Yashtimadhu, Dhanyamla, Chincha Swarasa and Nimbu					D1 - D11	
	Swarasa Saindava Lavana						
Siravyadha	Right hand	Right hand was carried under aseptic conditions and 100ml of Vatakapha Dushitha Rakta was obtained				D11	

#### Follow-up medicines

- 1. Mahanarayana Thaila E/A
- 2. Nuro XT 1-0-1 A/F with luke warm water
- 3. Rasna Saptaka Kashaya 15-0-15ml B/F with Luke warm water
- 4. Ksheerabala 101 drops 10-0-10drops with milk B/F for the period of 30 days

Table 6: Assessment parameters before and after treatment

Assessment parameters	Before	After treatment	During follow	
Subjective and	treatment		up after 1	
objective parameters			month	
Shareera Gurutha	++	Absent	Absent	
Reduced appetite	+	Absent	-	
Pain in nape of neck	+++	reduced to 80%	reduced 80%	
Pain in low back	+++	reduced to 80%	reduced 80%	
SLR Right leg	45 degrees	80 degrees	80degrees	
Faber's right leg	Positive	Negative	Negative	
Empty can test	Positive	Negative	Negative	
Spurling test	Positive	Negative	negative	

## **Discussion**

In the initial stage of treatment there was Kapha and Ama predominance hence Rookshana was carried out initially with Udvartana and Parisheka. Sarvanga Udvartana is Kapha-Vatahara helps in relieving Amatva and attaining Srotovishodana. Parisheka acts Shramahara, Vatahara, as Bhagnasandhanakrit.[6] As Basti is said to be Ardhachikitsa and it is indicated in Asti Majjagata Vata, Erandamooladi Basti which is having Deepana (digestive stimulant) and Lekhana (scraping) Gunas, making it effective in pacifying Kapha and alleviating symptoms such as heaviness and stiffness. It is composed of 34 drugs, predominantly with Ushna Veerya (hot potency) Dravya. It is particularly beneficial for pain and stiffness in the Jangha (thigh), Uru (hip), Paada (feet), and Pristha (back) regions, as well as in managing Kapha-(Kapha-dominated) conditions.[7] Erandamooladi Kshara Basti was administered as there was Kaphanubandha in Trika Pradesha including Kati and Greeva.

Later on, Mustadi Yapana Basti was planned after assuring condition free from Kapha-Avarana. Mustadi Yapana Basti is effective in addressing conditions such as Katishoola (backache), pain in thighs and calves, headaches, and Vatarakta (various rheumatic disorders). Its Rasayana property supports rejuvenation, while its ability to address Vata Vyadhi involves breaking pathogenesis by purifying channels (removing Margavarodha) and nourishing tissues (Brihmana property) to counter Dhatukshaya.[8] Patra Pottali Sweda relieves pain, stiffness and swelling associated with arthritis and other painful conditions, pacifies morbidity of Vata, Pitta and Kapha in they affected joints, muscles and soft tissues.[9] Patra Pinda Swedana may help in increasing blood circulation to affected area, gets rid of Dosha imbalances, strengthens muscles in area, helps release of toxins and reduces inflammation also helps to tone muscles and improve working of tissues within body. Jambira Pinda Sweda Potali are Vata-Kaphashamaka, Shoolaghana (analgesic), and Shothahara (anti-inflammatory). Sahacharadi Taila is having Teekshna and Ushna qualities, Helpful in mitigating Vata and Kapha.[10] Mahanarayana Taila is composed of 33 Dravyas which are having Vata Kaphahara Guna and Vedanasthapaka in action.[11] Rasna Saptak Kashaya, used for Jangha, Uru, Pristha, Trika and Prashashula[12] as Trika is affected in Khalli hence Rasna Saptaka Kashaya was used. Nuro xt has Ekangaveera Rasa as main ingredient which is having Brimhana and Rasayana properties helps in mitigating Vata Dosha. Ksheerabala 101 Avarti Taila is Vata-Pitta Samana It is having properties like Rasayana, Brimhana, helps in degenerative conditions of spine.

## Conclusion

Khalli is one among the Vatavyadhi which is having both Gridrasi and Vishwachi Lakshana and the treatment modality of Vatavyadhi includes Snehana, Swedana, Basti and Raktamokshana. In the modern parameters it can be equated to spondylosis of spine which is characterized by degeneration that makes a person difficult to perform daily activities. This case study showed that Panchakarma chikitsa is effective in the management of Khalli. It has provided significant improvements in subjective and objective parameters indicating that the patient has improved in presenting the features and significant improvement found in the patient's quality of life.

The patient is doing well with her daily activities to date. However, some randomized clinical trials with large sample sizes are validated to confirm results as it is a single case report.

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