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# To Evaluate the Efficacy of *Agnikarma* and Disciplined and Intelligent Person Diet in *Katigata-Sandhivata* w.s.r to Lumbar Spondylosis - A Case Report

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#### **ABSTRACT**

**Background**- Lumbar Spondylosis is a degenerative condition which affects the lower spine. The Spine is compromised by a narrowing of the space between the vertebrae associated with growth of bone spurs (osteophytes). It is characterized by progressive loss of function and painful lumbar joint movements. Low back pain affects approximately 60-85% of adults during some point in their lives and it is responsible for about 10% of all the back pain condition. Objective-The present case report was conducted to evaluate the efficacy of Agnikarma and DIP diet in lumbar spondylosis pain by balancing local Vata and Kapha Dosha without any untoward effects within time constrain (30 days). Case presentation- A 51-yearold female, patient visited Shalya OPD with complaints of severe pain, stiffness and difficulty in forward and backward bending movement in lumbar spine for 2 years. She was diagnosed as a case of lumbar spondylosis. The patient was treated with Agnikarma and DIP diet. Result-The patient showed significant (p<0.001) improvement in lower back pain and thyroid stimulating hormone from 4.88 uIUmL to 1.94 uIUmL within time constrain (3 month). A significant response in various symptoms such as Pain, stiffness, forward and backward movement of lumbar spine was found. **Conclusion**-This case report highlights the potential of Ayurvedic management in lumbar spondylosis and provides the better pathway for this disease.

#### **KEYWORDS**

Katigata Sandhivata, Lumbar Spondylosis, Agnikarma, DIP Diet



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### INTRODUCTION

Lumbar Spondylosis is a degenerative condition which affects the discs, vertebral bodies of the lower spine associated with growth of bone spurs (osteophytes) or bony bridges around degenerating intervertebral disc in the lumbar vertebrae. In a patient with Lumbar Spondylosis, the spine is compromised by a narrowing of the space between the vertebrae, causing a variety of health problems ranging from back pain to neurological issues. Low back pain (LBP) affects approximately 60-85% of adults during some point in their lives. Lumbar Spondylosis is responsible for about 10% of all the back pain condition<sup>1</sup> This condition can be correlated with SandhiVata. Till Katigat date symptomatic treatments are available like use of anti-inflammatory analgesic drugs, steroids injections, physiotherapy, exercise etc. But none of these provide satisfactory result. Long term use of anti-inflammatory, analgesic drugs and steroids injection are prone to adverse effects.

In Ayurveda *Snehana*, *Upanaha*, *Agnikarma*, *Raktamokshana*, *Katibasti*, *Virechana*, *Bhesaja Chikitsa* etc. have been recommended for management of *Vatik disorders*.<sup>2,3</sup> Among these Agnikarma is a well-known para-surgical procedure and has its own therapeutic

value for treatment of Sandhigata spondylosis).<sup>4</sup> *Vata*(Lumbar Acharya Sushruta has mentioned Agnikarma procedure as a best among all other procedures<sup>5,6</sup> (su.su 12/3) and in this study Pancha Dhatu Shalaka has been selected for *Agnikarma*. TIt is suitable for heat transfer and to produce Samyak Dagdha Vrana (ideal therapeutic burn). A single case study of lumbar spondylosis is reported here in which vitiated vata dosha was pacified with - 4 sessions of *Agnikarma* with Bindu Dahan Vishesha by Pancha Dhatushalaka at the interval of 7 days along with DIP (disciplined and intelligent person's) diet<sup>8</sup> for a period of one month. After one month, patient got relief from pain, stiffness, and restricted movement in lumbar spine.

# **CASE PRESENTATION**

A 51 years middle-aged female patient was brought by her husband to Shalya Tantra OPD of All India institute of Ayurveda. Presenting with complaints of *shola* (severe pain), *stambha* (stiffness) and difficulty in forward and backward bending movement in lumbar spine for 2 years. History of present illness, according to the patient, she was asymptomatic for last 3 year and then she noticed severe pain in her back and difficulty in walking, for this she took



allopathic treatment from private hospital, but did not get any relief) She had a history of hypothyroidism last for last 4 years and for this she was on thyroid supplement (tablet thyronorm 50 mcg once in morning, empty stomach).

#### **Investigations**

Hb- 11.8 gm/dl, CRP and RA - Negative and other hematological parameters were normal, renal parameters, blood sugar and urine investigation also within normal limits. On systemic examination League's test was positive on right leg as seen in table 1.

Diagnosis has been done on the basis of-

• X-ray of lumbar spine (AP & Lateral view) shows degenerative changes in the lumbar spine in form of marginal osteophytes formation.

After taking written informed consent and careful assessment (table 2), patient was treated with - 4 sessions of Agnikarma with *Bindu Dahan Vishesha* by *Pancha Dhatu Shalaka* at the interval of 7 days for 1 month and followed by DIP diet for 3 months (image 1,2,3,4,5). With this short duration of treatment protocol, patient got relief from pain and stiffness without any untoward effect.

During this diet patient has not to consume any animal-based product including milk products and packaged food manufactured by any industry. All food was pure vegetarian (plant based).



Image 1-Instrument tray



Image 2-Mark the tender points

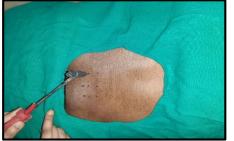


Image 3-Agnikarma with Panchdhatu Shlaka



Image 4-Apply aleovera over burn mark



**Image 5-**Dusting of *Haridra* powder



#### **Table1** General Examination

General examination	Systemic examination
Appetite-normal	Cardio vascular system- NAD
Bowel-regular	Respiratory system-B/L chest clear no added
Bladder-normal	sound.
Sleep- normal	Gastrointestinal system-NAD
Temperature-normal	Locomotor system- difficulty in walking, limping
Pallor, Icterus, Clubbing, Lymphadenopathy-absent	gait. Straight leg raising test-positive in right legs
Blood pressure-130/86mmHg	at 20° and left leg at 50°. League's test was
Pulse-88 beats per minute.	positive on right leg. Power in right lower limb
Tongue-clear	was lesser than left side.
	Central nervous system- Higher mental function:
	normal
	Motor function-normal Cranial nerves normal

#### Treatment given

Table 2 Procedure of Agnikarma

PURVA KARMA	PRADHANA KARMA	PASCHAT KARMA
1. Written informed consent was	1. Bindu Dahan Vishesa	1. Dusting with Haridra
taken from the patient	was done with help of Pancha	churna was done over the site after
2. Information sheet was	Dhatu Shalaka at most painful	Agnikarma
provided to patient at the time of	and tender area of lumbar joints.	2. Patient was advised to
enrolment.	2. 5 mm gap was left	avoid water contact at least 24
3. Snigdha Picchila Annapana	between two points of Dagdha	hours.
Sevana in form Khichdi	Vrana and care was taken to	3. Antiseptic dressing with
4. Preparation of <i>Triphala</i>	produce Samyak Dagdha Varna.	Shatadhuata Ghrita was advised
Kashaya, Kumari Patra Majja	3. During Agnikarma	till complete healing of burnt
5. Pancha Dhatu Shalaka was	crushed, Ghrita Kumara Majja	wound.
heated up to red hot.	was applied to relieve burning	
6. Preparation of local part: local	sensation.	
part was washed with Triphala Kashaya		
and wiped up with dry sterilized gauze		
and that area was covered with a cut		
sheet.		

### **DISCUSSION**

In ayurveda Katigata sandhivata is a disease described under Vatavyadhi and it resembles lumbar spondylosis in respect to etiology, pathology, and clinical features. In this article a case is discussed which is a

S.

known case of lumbar spondylosis. Based on the clinical presentation the patient was treated on the line of management of *Katigata Sandhivata* and the treatment was planned accordingly.

#### Table 3 DIP diet

# Breakfast

- In morning patient was advised to take seasonal fruits(10% of body weight) before his/her breakfast. **Lunch**
- In afternoon patient was advised to take seasonal salad (10% of body weight) before his/her lunch.

#### Dinner

At night patient was advised to take salad (10% of body weight) before his/her dinner. And dinner should be finished by 8pm.



As per the dosha-dushya involvement and the physical condition of the patient, it was decided to treat with Agnikarma along with DIP diet. Acharya Sushruta has indicated Agnikarma, when severe pain occurs in Twak, Mamsa, Sira, Snayu, Sandhi, and Asthi due to Vata Prakopa and Vata vitiated in Sandhi is the main pathogenesis of Katigata Sandhivata. Till date only symptomatic treatments are available like use of anti-inflammatory steroids analgesic drugs, injection, physiotherapy, exercise etc. But none of satisfactory these provide results. Agnikarma (therapeutic heat burn) is one of the procedures which gives instant relief from pain by balancing local Vata and Kapha Dosha without any untoward effects. It has long term pain relief without any side-effect. It is OPD based procedure (no hospitalization required) and well -tolerated by patients, and cost -effective as well. In lumbar spondylosis, atherosclerosis can obstruct the arteries that feed the spine, and diminish blood flow resulting in disc degeneration. Any intervention reversing atherosclerosis will have the potential to halt and even reverse LS. Diet rich in fruits and raw vegetables with zero animal food/diary product (as in DIP Diet) has proven to reverse atherosclerosis<sup>8</sup> and also has shown reduction of symptoms of osteoarthritis<sup>9</sup>

(table 3). Ahara is said to be *Mahabhaisajy*a by Acharya Kashyap (one is capable to make man disease free only with the food). *Agnikarma* along with DIP diet gives relief in all sign and symptoms within 1-month procedure with 3 months of follow up and thyroid report within in normal range as seen in figure 1 & 2. This highlights that *Kati Sandhivata vata* can be managed with *Agnikarma* and DIP diet and can be managed effectively without any medications.

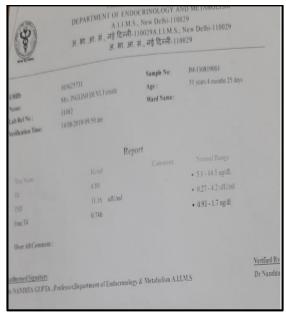


Figure 1 Investigation before DIP Diet



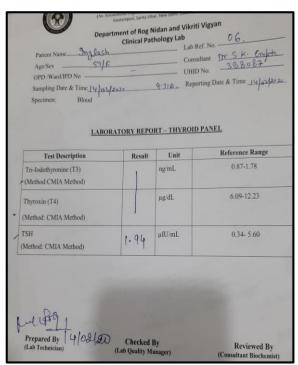


Figure 2 Investigation after DIP diet

# **CONCLUSION**

This case report showed that Agnikarma Procedure along with DIP diet is safe, potent and effective in the treatment of Katigata Sandhi Vata (LS) and it also improved the quality of life by enhancing their daily routine. There was no any adverse effect found during and after the whole procedure in this case.

116



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