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Management Of *Katigraha* Through Ayurveda - A Single Case Study

¹Gyan Prakash Sharma

¹HOD at PG Department of Panchakarma, Post Graduate Institute of Ayurveda, Dr. Sarvepalli Radhakrishnan Rajasthan *Ayurveda* University, Jodhpur, Rajasthan, India.

²Megha Panchal

²PG Scholar at PG Department of Panchakarma, Post Graduate Institute of Ayurveda, Dr. Sarvepalli Radhakrishnan Rajasthan *Ayurveda* University, Jodhpur, Rajasthan, India.

³Meenakshi Sharma

³Senior Medical Officer, Department Of Ayush, All India Institute Of Medical Science, Jodhpur, Rajasthan,

India.

Abstract:-

Katigraha i.e., low back pain is a commonly occurring disease in many people. It commonly affects the old aged people. *Snehana & Swedana* is mentioned as a remedy for *Vata Vyadhi* in *Charak Samhita*. It is used in a patient of *Katigraha* in the form of *Kati Basti, Patra Pinda Swedana & Upanaha Swedana* along with internal medicine (*Rasarajeshwar Rasa*). The case was assessed on criteria like the ODI scale, VAS score, Straight leg raise test, Lasegue Test, and Bragard's Test. This treatment showed a very much effect in this patient. After 14 days the patient was assessed & it was seen that the patient got symptomatic relief & patient was able to walk up to 2 km without any pain.

Keywords: Ayurveda; Kati Basti; Katigraha; Low back pain; Lumbar Spondylosis; Patra Pinda Swedana; Upanaha Sweda

1. Introduction: -

Low back pain (LBP) is the most common musculoskeletal problem globally.^{1,2,3,4} Population prevalence, lower back pain affects 60-80% of adults.⁵ The overall prevalence of lower back pain is higher in women than in men.^{6,7} In the USA, back pain is the most common cause of activity limitation in people younger than 45 years, the second most frequent reason for visits to the family doctor, the fifth-ranking cause of hospital admission, and the third most common cause of surgical procedures.^{8,9,10} In the present scenario, the treatment modalities for lower back pain are conservative treatment with analgesics, physiotherapy, muscle relaxants, and narcotics and few require surgery which has its disadvantages or is expensive.

Vatavyadhis come under a group of diseases that manifest by *Dhatu Kshaya* or *Margavarana* and those are classified according to *Hetu*, *Sthana*, and *Lakshana*. Many degenerative conditions are considered under *Dhatu Kshaya Janya Vatavyadhis*. *Katigraha* is a commonly affecting problem in the population. The potential causes of this disease are aging, trauma, a sedentary lifestyle, and lack of exercise. Stress in the Workplace is also a causative factor. In classical *Ayurvedic* Texts, *Katigraha* can be referred to as *Katisandhigat Vata*, *Trika graha*, *Kati vayu*, *Trika shoola*, *Vataja shoola*, etc.^{11,12,13} *Katigraha* affects the body due to vitiation of *Vata Dosha* along with *Kapha*.¹⁴ The clinical features include *Ruk*(pain), *Toda* (pin-like sensation), *Stambha*(stiffness), *Muhuspandana* (twitching and cramping) in the *Sphik* (buttock), *Kati* (Waist), *Uru* (thigh), *Janu*(knee), *Jangha*(calves) and *Pada* (foot)¹⁵. The Ayurvedic treatment consists of *Snehana* (oleation therapy), *swedana* (sudation therapy), *Basti* (medicated retention enema), *Agnikarma* (Therapeutic cautery), and *Vatahara Shamana yogas* (Palliative therapy). Here, one Patient complaining of Low back pain and stiffness at the Kati region was taken, which is well treated by *Kati Basti*, *Patra Pinda Swedana & Upanaha Sweda*. The patient was clinically diagnosed and selected for the study.

2. Case Report:-

The patient was selected from the OPD -7 of Sanjivani Hospital, Dr. Sarvepalli Radhakrishnan Rajasthan Ayurveda University, Jodhpur, Rajasthan. It was diagnosed with *Katigraha*. Patients with other allied symptoms like swelling, Sciatica, *and Aamavata* were excluded from the study.

<u>Chief complaints</u>: The 46 years old patient has a low back pain radiating from the right leg down up to the toe for the last 10 days and came to the Outpatient department of Panchakarma Department of Dr. Sarvepalli Radhakrishnan Rajasthan Ayurveda University, Jodhpur for treatment. The patient was unable to walk (came in a wheelchair).

<u>History of Present Illness</u>: The patient was healthy for 10 days, after that he suddenly got lower back pain. The patient was unable to walk (came in a wheelchair). He took some allopathic medicines for 2 days but did not get relief, so he came here for *Ayurveda* treatment.

Known Case Of - Not any

PAST HISTORY: No any

SURGICAL HISTORY: No major surgical history.

MEDICINAL AND ALLERGIC HISTORY: No medicinal and drug allergic history.

PERSONAL HISTORY:

- Appetite-Normal
- Diet-Vegetarian
- Sleep- Normal
- Micturition-Normal4-5times/day
- Bowel-Mildly Constipated
- Addiction-Not any
- Occupation-Security Guard (since last 20 years)

C.R

FAMILY HISTORY: The patient's elder brother has the same problem

GENERAL EXAMINATION:

- CNS:- Patient is well-oriented to time, place & person.
- CVS :- S1 & S2 heard
- RS:- bilateral vesicular breathing

INVESTIGATIONS: - MRI of LS Spine -

- L1-L2, L2-L3 IV-disc levels: B/L posterolateral disc bulge
- L3-L4 IV-disc level: Partial degenerative water loss, B/L posterolateral disc bulge.
- L4-L5 IV-disc level: Degenerative water loss, Posterior disc bulge with posterior Central annular fissure, B/L ligamentum flavum, and facet hypertrophy
- L5-S1 IV-disc level: Degenerative water loss, decreased disc space, Posterior disc bulge as well as broad-based posterior central, right paracentral disc protrusion, caudal disc migration (2.1 mm), B/L ligamentum flavum and facet hypertrophy causing indentation over anterior thecal sac, central canal stenosis (8.7 mm), narrowing of bilateral lateral recesses, neural foramen, and compression over bilateral exiting & traversing nerve roots.

EXAMINATION:

Table 1 Findings of examination of patient on 1st day

Parameters	Findings		
Temperature	97.8° F		
Pulse	82 bpm		
RR	18 bpm		
BP	130/80 mm of Hg		
SLR	right leg - 20°	left leg - 80°	
Lasegue	right leg - 15°	left leg - 80°	
Bragard's	right leg - 20°	left leg - 85°	
ODI score	47	·	

3. Intervention:-

Table 2 Treatment plan

Days	Panchakarma Proce <mark>dures</mark>	Internal Medicine with Dose
1^{st} -7 th	Kati Basti	Rasarajeshwar rasa 1 tab. BD after the meal with
		lukewarm water.
$8^{\text{th}} - 14^{\text{th}}$	Patra Pinda Swedana	Rasarajeshwar rasa 1 tab. BD after the meal with
	Upanaha Swedana	lukewarm water.

4. Observation: -

The patient was examined after 14 days and the following findings were observed: -

Parameters	Findings			
Temperature	97.6° F			
Pulse	79 bpm			
RR	17 bpm	17 bpm		
BP	126/80 mm of Hg			
SLR	right leg - 80°	left leg - 90°		
Lasegue	right leg - 75°	left leg - 85°		
Bragard's	right leg - 85°	left leg - 90°		
ODI score	13			

5. Methodology:-

5.1 Materials:-

Table 4 Materials required for karma/ingredients of Aushadhi

2) For Kati Basti: -	3) For Patra Pinda	4) For Upanaha	5) Contents of
	Swedana: -	Swedana: -	Rasarajeshwar rasa: -
Black gram flour – 250	Leaves (Chopped into	Coconut grating – 100	Rasaraja Rasa with
gms	pieces) of	gms	gold – 10 mg
Medicated oil – 200 ml	Nirgundi – 100 gms	Saindhava Lavana – 10	Shuddha vishamushthi
Water	Eranda – 100 gms	gms	- 100 mg
Pan for making dough	Chincha – 100 gms	Methika Churna – 100	Ashwagandha – 100
Bowl for oil	Dhatura – 25 gms	gms	mg
Heating device	Shigru - 25 gms	Shatapushpa Churna –	Rasa sindoor – 40 mg
Hot water utensil	Arka – 25 gms	100 gms	Guggul – 30 mg
Sponge	Grated coconut – 150	Asthi Santhanak	(Dashamoola Vishesh
Masseurs – 1	gms	Churna – 30 gms	shodhita)
	Lemon - 4	Dashanga Lepa – 30	
	Cotton cloth (45 cm \times	gms	
	45 cm) – 2 pieces	Lemon - 1	
	Tags - 2	Heating Device	
	Vessels (for frying	Iron pan	
	leaves & for heating	Spatula	
	Pottalis) – 1	<i>Tila Taila</i> – 50 ml	
	Saindhava, Rasna,	Cotton cloth (20×20	
	Shatapushpa, Methika	cm) - 1	
	– each 10 gms	Bandage – 2	
	Tila Taila	Masseurs – 2	
	Masseurs – 2		

5.2 Method: -

Table 5 Methods of Karma

	Kati Basti	Patra Pinda Swedana	Upanaha Swedana
Poorva	The dough was prepared by	The patient should be	The affected area should be
Karma	using black gram flour and	seated with the leg extended	examined properly and the
	water. The patient should be	over the Droni. Abhyanga	tender region. Examine for
	lying down prone position	was performed with	scars, wounds if any. The
	on Droni with exposed	Prachala Taila over the	patient is asked to sit erect
	lower back properly. This	lower back and lower	by extending lower limbs,
	dough was fixed on the	extremities for 15 minutes.	on the table. Expose the
	lumbosacral area in a		lower back properly.
	circular shape. Proper		
	sealing was ensured to		
	avoid leaking of oil.		
Pradhana	Prachala Taila was made	The prepared Pottali was	The prescribed medicines
Karma	warm by keeping th <mark>e vess</mark> el	heated with suitable oil in	were made into paste form
	in a hot water bat <mark>h. Afte</mark> r	an iron pan up to 40-42°C.	by adding a sufficient
	ensuring a t <mark>olerable</mark>	It was applied, after	amount of coconut grating.
	temperature, oil was poured	checking the temperature	Then Upanaha was prepared
2	inside along the sides of the	over the dorsum of the	by heating it over a medium
	dough. The temperature of	hand. Then it w <mark>as applied</mark>	flame. The lower back was
	the oil was maintained at	throughout the lower back	exposed properly. Sthanika
	39°C-40°C.	& lower extremities with	Abhyanga with Tila Taila
		mild pressure in 4 positions	was done. The prepared
		(supine, left lateral, right	medicinal paste was applied
		lateral & prone) by 2	over the cotton cloth
		masseurs standing on both	uniformly with a spatula.
		sides of Droni. Care was	This cloth was applied over
		taken to maintain the	the lower back in such a
		temperature throughout the	manner that the paste was in
		procedure by reheating the	touch with the body part.
		Pottalis.	Then it was bandaged with
		(Duration – 30 minutes)	the help of a gauge roll.
Paschat	After 45 minutes, the oil	Wipe off the oil from the	After 4 hours Upanaha was
Karma	was removed and so was	body using a clean dry	removed and the part should
	the dough. The part was	towel. The patient should	be cleaned with warm water.
		take complete rest for at	

massaged with circular and	least 30 minutes and should	
linear strokes.	take a bath in hot water.	

Preparation of *Pottali*: Fresh leaves should be cleaned & chopped finely. First add 50 ml of *Tila Taila* onto a frying pan, to this add grated coconut & sliced lemon and fry till it turns tinged brown. Add chopped leaves one by one; first, add drugs with thick leaves followed by thin ones. Then mix thoroughly and fry together till coconut scrapings attain a brown color. It should be divided into two equal parts and made into 2 *Pottalis* (the average weight of a standard *Pottali* is 300-350 gm).

Preparation of *Upanaha*:- First add 50 ml of *Tila Taila* to the frying pan, to this add grated coconut & sliced lemon juice and fry till it turns into tinged brown. Then add Saindhava *Lavana, Methika Churna* & *Shatapushpa Churna*. These were well mixed. Add *Asthi Santhanak Churna & Dashanga Lepa* (which was soaked the night before in water). This was cooked on medium flame by adding a small amount of hot water frequently.

5.3 Criteria for assessment

a) OSWESTRY LOW BACK DISABILITY QUESTIONNAIRE¹⁶: -

Table 6 Scoring of ODI

SCORE	DISABILITY LEVEL
0 - 4	No disability
5 - 14	Mild disability
15 – 24	Moderate disability
25 – 34	Severe disability
35 - 50	Completely disabled

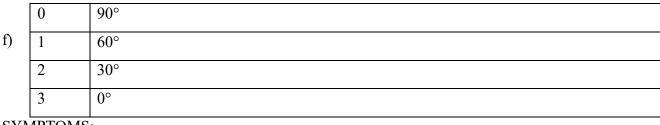
b) VISUAL ANALOGUE SCORE: -

Table 7 Scoring of VAS

0	No pain
2	Mild annoying pain
4	Nagging, uncomfortable, troublesome pain
6	Distressing, miserable pain
8	Intense, dreadful, horrible pain
10	Worst possible, unbearable, excruciating pain

c) SLR: - d) LASEGUE: - e) BRAGARD'S: -

Table 8 Scoring of SLR, Lasegue & Bragard's test



SYMPTOMS: -

Table 9 Scoring of symptoms

SYMPTOM	GRADUATION	GRADE	
Kati Shola	No pain	0	
(Pain in lower	Localized, recurrent, mild pain in the back	1	
back)	Recurrent, mild but uncomfortable pain in the back	2	
	Moderate but dreadful pain in the back	3	
	Agonizing continuous pain in the back	4	
Kati Graha	Never	0	
(Stiffness in	Rarely	1	
lower back)	A mild amount	2	
	A moderate amount	3	
	A severe amount	4	
Gamane Kastata	No difficulty in walking	0	
(Difficulty in	Pain restricts walking more than 1 mile	1	
walking)	Pain restricts walking more than ¹ / ₂ mile	2	
	Pain restricts walking more than ¹ / ₄ mile	3	
	Unable to walk		
Gridhrasivat	No radiating pain	0	
Pida (Radiation	Radiation of pain up to Sphik, Kati, Prushtha, Uru, and Janu	1	
of pain)	Pradesa of one leg or pain radiating up to Uru Pradesha in		
	both legs		
	Radiation of pain up to Sphik, Kati, Prushtha, Uru, Janu, and	2	
	Jangha Pradesa of one leg or pain radiating up to Janu		
	Pradesha in both legs		
	Radiation of pain up to Sphik, Kati, Prushtha, Uru, Janu	3	
	Jangha, and Pada of one leg or pain radiating up to Jangha		
	Pradesha in both legs		

	Radiation of pain up to Sphik, Kati, Prushtha, Uru, Janu,	4
	Jangha, and Pada of both legs	
Sparsha	Not at all a problem	0
Asahyata	Occasionally	1
(Tenderness in	Minor problem	2
lower back)	Moderate problem	3
	Serious problem	4

6. Result:-

Table 10 Comparison of scoring before & after treatment

TEST	BEFORE TREATMENT		AFTER TREATMENT	
ODI score	47		13	
VAS score	08		00	
SLR test	Rt. – 03	Lt. – 01	Rt. – 01	Lt 00
Lasegue test	Rt. – 03	Lt. – 01	Rt. – 01	Lt 00
Bragard's test	Rt. – 03	Lt. – 01	Rt. – 01	Lt. – 00
Symptoms	08		01	3

7. Discussion: -

Katigraha though not mentioned directly by our *Acharya*'s except *Gada-nigraha Vata Vyadhi Adhikara*.¹⁷ The disease invariably comes under the umbrella of *Vata Vyadhi*. In *Vataj Nanatmaja Vayadhis*, *Katigraha*; *Prista graha*, and *Sronibeda* are mentioned as separate diseases, depending on the region where the pain is felt. The prime exhibition of *Vata* Vitiation is Pain which is known as Shula in Sanskrit." Vatadrite Rujah Nasti".¹⁸ This Pain is a standard criterion for disease. *Kati* is one of the *Sthana* of *Apana Vata*. In *Katigraha*, *Vata dosha* is vitiated by its *Rukhsa Guna* and *Kapha* by its *Sheeta Guna*. This Vitiated *Guna* can be best controlled by opposite *Guna Chikitsa*.¹⁹ *Agnivesha* has stated that *Sneha* & *Sweda* are *Chikitsa* for *Vata Vyadhis*. The *Ruksha* and *Sheeta Guna* of vitiated *Vata* and *Kapha Dosha* are balanced by *Snigdha* & *Ushna Guna* of *Snehana* & *Swedana*. This patient has a sedentary lifestyle and there may be some chances of wrong sitting style at work which results in *Katigraha*. *Snehana* & *Swedana* is very much effective in this patient by decreasing *Katishula* and *Katigraha*.

Katibasti is a *Snehayukta Sweda Basti* procedure, which helps to decrease low back aches, alleviates numbness due to nerve compression & strengthens back muscles which maintain normal curvature of the spine, bone & tissues. The local rise in temperature & circulation due to the dilatation of capillaries at the terminal region leads to the contraction of internal vessels. Their blood is drawn towards the periphery finally promoting

phagocytosis and also combating the inflammatory process. Draining of excessive fluid through lymphatics also takes place. *Prachala Taila* contains a mixture of *Kottamcukkadi Taila* (*Kushtha, Ardraka, Vacha, Shigru, Rasona, Devdaru, Sarshap &, Suvaha*), *Tarapin Taila & Tailaparna Taila*.

Ingredients of *Patra Pinda Sweda* i.e, leaves of *Nirgundi, Eranda, Chincha, Dhatura, Shigru, Arka,* etc., Grated coconut, Lemon, *Saindhava, Rasna, Shatapushpa, Methika & Tila Taila & Upanha Sweda* i.e, Coconut grating, *Saindhava Lavana, Methika Churna, Shatapushpa Churna, Asthi Santhanak Churna, Dashanga Lepa*, Lemon, *Tila Taila* are having Vata-hara & pain-relieving properties.

Rasarajeswar Rasa is formulated with *Suvarnayukta Rasaraja Rasa*, *Shuddha Vishamushti*, *Ashwagandha*, *Rasasindoor*, *Guggulu*, and other ingredients that support overall health and wellness. It has antioxidant and anti-inflammatory properties that protect the body against free radicals and oxidative damage. It helps reduce the pain, swelling, stiffness, and inflammation in the joints and muscles.

8. Conclusion:

- Vata & Kapha doshas are vitiated due to an increase in *Ruksha* and *Sheeta Guna*, which causes pain and stiffness.
- There is a vitiation of *Vata Dosha* in *Katigraha*.
- Kati Basti, Patra Pinda Swedana & Upanaha Sweda show a Significant effect on Vitiated Vata & Kapha in Katigraha.

In this case study, special emphasis is given to the *Panchakarma* therapies like *Kati Basti, Patra Pinda Swedana & Upanaha Swedana* along with *Shamana* medicine effectively relieved the *Katigraha* (Lower Back Pain) and its associated complaints. *Kati Basti, Patra Pinda Swedana & Upanaha Swedana* have their action in each stage of the disease because after each of these procedures patient got significant relief in his complaints. The *Shamana* medicine given along with *Panchakarma* therapies effectively pacified the remaining *Dosha* and prevented the recurrence of the disease. It is an oriented treatment.

8.1 Limitations: The main limitations of the study were a lack of radiological findings after the treatment and a limited number of follow-ups. More follow-up reviews were needed to assess the sustainability of the results.

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