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Case Report

Kayachikitsa

A Critical Analysis On The Ayurvedic Aspect Of Katigraha (Low Back Pain): A Successful Case Study

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Abstract: A frequent condition affecting the back's muscles, nerves, and bones is low back discomfort. Pain might range from a continual dull sensation to a sudden acute sensation. Low back pain affects approximately 60 to 85% of adults during some point of their life. *Katigraha* indicates a disease condition of the lower back associated with pain, stiffness, and restricted movements. A condition when pure *saam vayu* reaches *kati Pradesh* and produces pain is known as *katigraha*. In *Ayurveda samhitas, katigraha* has been mentioned as both *anubandha* and *anubandhya vyadhi*. It can be correlated with Lumbar Spondylosis due to similarity of clinical manifestations. Lumbar spondylosis is a degenerative condition that develops gradually over time, being more common in older individuals. Contemporary medicine has its own limitations giving only short-term relief in pain or surgical intervention with side effects. So this single case was taken to demonstrate the effects of ayurvedic treatment modality. After a month, the patient's symptoms were assessed, and the results were satisfactory. The patient's general quality of life had also greatly improved.

Keywords: Katigraha, panchakarma, katibasti, kala basti, low back pain, lumbar spondylosis

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Introduction

According to Gadanigraha

वाय कटुःयाश्रितुः श दृधुःसामोवा जनयेद्रजम्।कश्रटग्रहुः सश्रवज्ञेयुःपन सक्थिद्वयाश्रितुः ॥१६० ॥

A condition when pure saam vayu reaches kati Pradesh and produces pain is known as katigraha. Katigraha indicates a disease condition of the lower back associated with pain, stiffness, and restricted movements. Lower back discomfort caused by spondylosis is a significant clinical, social, economic, and public health issue that affects the whole world's population. Long periods of sitting, a poor diet, a lack of exercise, and stress are the primary causes of low back pain in today's society. With the changes in lifestyle, low back ache is a very common complaint now-a-days in every age group. One of the main causes of low back ache is the intervertebral disc prolapse. In 95% of the lumbar disc herniation, L4-L5 and L5-S1 discs are most affected. It can happen suddenly or gradually over time from repetitive movements. Low back pain caused by spinal degeneration and injury. Conditions linked to back pain include:

- Muscle or ligament strain
- Bulging or ruptured discs
- Arthritis
- Osteoporosis

The pathophysiology of Katigraha is mostly influenced by Vata and Kapha. In this case, the disease's pain and stiffness are two symptoms that are caused by the Vata and Kapha Doshas. Katigraha is one of the Vatavyadhis, according to Gadanigrahakara. It blatantly implies that Vata Dosha is the primary cause of the whole pathophysiology associated with Katigraha. He says that the Kati Pradesha is where the ashraya of the vitiated shudha or samavayu, which causes pain and stiffness, takes place.

In *Ayurveda*, *samanya vatavyadhi nidana* for *Katigraha* are :

- Consumption of light, dry, cold, and insufficient food.
- Excessive sex and insomnia.
- Ineffective therapies such as prolonged fasting, swimming, or walking.
- Excessive physical activity and exercise.

- Anxiety, sadness, and crippling illnesses.
- Using uncomfortable mattresses or chairs
- Anger, daytime sleep, repressing desires that come naturally, indigestion, trauma, and not eating.
- Vital organ damage, collisions with moving objects, riding horses or camels, etc.

This whole situation aggravates vata. This fills up the body's empty channels and causes a variety of generalized or specific illnesses.

Samprapti

Vata and Kapha are the two main factors involved in the pathogenesis of *Katigraha*.

1	Dosha	Vata Kapha	Apana, vyana (vriddhi) Sleshaka, avalambaka (kshaya)	
2	Dushya	Dhaatu Updhaatu	Rasa, Asthi Kandara, Snayu	
3	Udbhavasthaana	Pakwashaya		
4	Vyaktasthaana	Kati		
5	Marga	Madhyama roga marga		
6	Strotas	Rasavaha, Asthivaha, Purishavaha		
7	Strotodushti	Sanga		
8	Agni	Mandya		

Table 1. Factors in the pathogenesis of Katigraha

The following are the main signs of katigraha:

- Shoola, a type of pain that can be intense, searing, or dull.
- The sama vayu movement in Kati (the lumbar region) causes muscular spasms that result in stambha (stiffness) in this area as well.

The overall deterioration of the spine, which can affect the joints, discs, and bones of the spine, is referred to as spondylosis. It is a deteriorating disorder that can get worse as people age and can affect any part of the spine, including:

- Cervical neck
- Lumbosacral low back/sacrum
- Lumbar low back
- Thoracic upper, mid-back

Degeneration of the lumbar vertebrae is one way to characterize lumbar spondylosis. The discs and vertebrae of the lower back are deteriorating due to ageing. Osteoarthritis and degenerative disc disease are common names for these alterations.

Aim and Objectives

This study's objective was to evaluate the effectiveness of Ayurvedic treatment, including Shodhana and Shamana Chikitsa, in katigraha.

Material and Methods

For this study, patient of *katigraha* was registered from OPD of *Kayachikitsa* Department and admitted in female IPD of PKLS Govt. Ayurveda Hospital, Bhopal. The allopathic medicines were stopped during the study period. The registered patient was informed regarding the procedures that she would undergo and was admitted in the hospital.

The drugs required for *Panchakarma* procedures were procured and prepared in *Panchakarma* in PKLS Govt. Ayurvedic Hospital, Bhopal. The duration of the study was one month.

Case Study

A 35-year-old female patient presented with the complaints of pain in lumbar region and stiffness in left leg. She took modern medicines too, but did not get any relief. So, for further treatment she came to PTKLS Govt. Ayu. Hospital & Institute Bhopal.

The pt. was admitted in PTKLS Govt. auto Ayurveda college and institute Bhopal.

H/o Present Illness

According to the pt. she was alright 7 months back, then she started feeling pain in lower back and stiffness in left leg. She presented the symptoms of lower back ache, stiffness, and difficulty in walking due to pain.

Past History

There was no any h/o of DM, HTN or any other major illness or surgery in the past.

Table 2. Personal history

Occupation	housewife
Appetite	normal
Bowel	clear
Sleep	disturbed due to pain
Micturition	normal
Allergy	none
Addiction	none

General Examination

The observations in the general examination are as follows:

- Pallor, icterus, cyanosis, clubbing \$ oedema Absent
- BP= 124/80 mmHg
- Pulse 70/min
- Spo2 and all vitals were stable.

The observations in the systemic examination are shown in table 3 and the lab examination are in table 4.

Table 3. Systemic examination

R. S	Bilateral lungs sound clear
CVS	Normal
P/A	Normal
CNS	Pt. was conscious and well oriented.

Table 4. Lab investigations

НЬ %	12.9 gm %
Serum uric acid	5.4 mg/dl
Random blood sugar	101.2 mg/dl

Assessment Criteria

The assessment criteria for the study of the selected patient are as follows:

- Ruka (Pain)
- Stambha (Stiffness)
- Suptta (Numbness)
- ODI (Oswestry disability Index)

Table 5. Ruka (pain)

Grade	Pain
0	No pain
1	Mild pain but no difficulty in walking
2	Moderate pain and slight difficulty in walking
3	Severe pain with severe difficulty in walking

Table 6. Stambha (Stiffness)

Grade	Stiffness
0	No stiffness
1	Sometimes for 5-10 min
2	Daily for 10-30 min
3	Daily for 30-60 min / more than 1 hr

Table 7. Suptta (Numbness)

Grade	Numbness
0	No numbness
1	Paresthesis
2	Severe paresthesis

3	Intolerable paresthesis	Table O(b) ODI (Oswastan di	
4	Paralysis	Table 8(b). ODI (Oswestry di	sadility index)
Та	ble 8(a). ODI (Oswestry disability Index)	SECTION 6 - STANDING	
	CTION 1 - PAIN INTENSITY	I can stand as long as I want but i Pain prevents me from standing for	
	I have no pain at the moment. The pain is very mild at the moment.	 Pain prevents me from standing for Pain prevents me from standing for 	
Ы	The pain is moderate at the moment.	Pain prevents me from standing for a standing fo	
	The pain is fairly severe at the moment.	Pain prevents me from standing a	
	The pain is very severe at the moment.		
	The pain is the worst imaginable at the moment.	SECTION 7 - SLEEPING	
-		My sleep is never disturbed by pa	in
SE	CTION 2 - PERSONAL CARE (washing, dressing etc.)	 My sleep is need ustanced by particular of the sleep is occasionally disturbed 	
	I can look after myself normally, without causing extra pain.	 Because of pain, I have less than 	
	I can look after myself normally, but it is very painful.	Because of pain, I have less than	
	It is painful to look after myself and I am slow and careful.	Because of pain, I have less than 2	
	I need some help, but manage most of my personal care.	Pain prevents me from sleeping at	
	I need help every day in most aspects of self-care.		
	I do not get dressed, wash with difficulty and stay in bed.	SECTION 8 - SEX LIFE (if applicab	le)
00	CTION & LIFTING	My sex life is normal and causes	
	CTION 3 - LIFTING I can lift heavy weights without extra pain.	My sex life is normal but causes s	
	I can lift heavy weights, but it gives extra pain.	My sex life is normal but causes s My sex life is nearly normal but is My sex life is severely restricted l	
Ы	Pain prevents me from lifting heavy weights off the floor,	My sex life is severely restricted I	
-	but I can manage if they are conveniently positioned (e.g.,	My sex life is nearly absent becau	
0.00	on a table).	Pain prevents any sex life at all.	
	Pain prevents me from lifting heavy weights but I can		
	manage light to medium weights if they are conveniently	SECTION 9 - SOCIAL LIFE	
	positioned.	My social life is normal and cause	es me no extra pain.
Н	I can lift only very light weights. I cannot lift or carry anything at all.	My social life is normal, but incre	
	realise into carry anything at an.	Pain has no significant effect on r	
SE	CTION 4 - WALKING	limiting my more energetic intere	
	Pain does not prevent me walking any distance.	Pain has restricted my social life :	
	Pain prevents me walking more than 1 mile.	often.	Andrew 1999 & 0.2 a. 6 b.
	Pain prevents me walking more than 1/2 of mile.	Pain has restricted my social life t	o my home.
	Pain prevents me walking more than 100 yards.	I have no social life because of pa	
Н	I can only walk using a stick or crutches. I am in bcd most of the time and have to crawl to the toilet.	_	
Ч	and in our most of the time and have to crawr to the tonet.	SECTION 10-TRAVELLING	
SE	CTION 5 - SITTING	I can travel anywhere without pai	n.
	I can sit in any chair as long as I like.	I can travel anywhere but it gives	

- I can sit in my favourite chair as long as I like.
- Pain prevents me from sitting for more than 1 hour.
- Pain prevents me from sitting more than 1/2 an hour. Pain prevents me from sitting more than 10 minutes.
- Pain prevents me from sitting at all.

Pain prevents me from standing for more than 10 minutes. Pain prevents me from standing at all.
TION 7 - SLEEPING My sleep is never disturbed by pain. My sleep is occasionally disturbed by pain. Because of pain, I have less than 6 hours of sleep. Because of pain, I have less than 4 hours of sleep. Because of pain, I have less than 2 hours of sleep. Pain prevents me from sleeping at all.
TION 8 - SEX LIFE (if applicable) My sex life is normal and causes no extra pain. My sex life is normal but causes some extra pain. My sex life is nearly normal but is very painful. My sex life is severely restricted by pain. My sex life is nearly absent because of pain. Pain prevents any sex life at all.
TION 9 - SOCIAL LIFE My social life is normal and causes me no extra pain. My social life is normal, but increases the degree of pain. Pain has no significant effect on my social life apart from limiting my more energetic interests, e.g., sports, etc. Pain has restricted my social life and I do not go out as often. Pain has restricted my social life to my home. I have no social life because of pain.
TION 10-TRAVELLING I can travel anywhere without pain. I can travel anywhere but it gives extra pain. Pain is bad but I manage journeys over 2 hours. Pain restricts me to journeys of less than I hour. Pain restricts me to short necessary journeys under 30 minutes.

Pain prevents me from travelling except to receive treatment.

MRI scan of Lumbosacral Spine

The observation of the MRI scan are as follows:

- Diffuse posterior bulge with posterior protrusion of L4-5 disc, indenting thecal sac.
- Bilateral facetal arthropathy at L4-5 level.

The MRI scan report of a patient and the film is shown in figure 1 a and b.



Figure 1(a). MRI L-S SPINE report of a patient



Figure 1(b). MRI L-S SPINE film of patient

Table 9. Treatment Regimen

Punarnavadi guggal	2 BD			
Rasna saptak kwath	20 ml BD			
Shivakshara pachan churna	5 gm HS			
Kati basti	Narayan taila			
Kala basti -Niruh basti- dashmooladi kwathAnuwasana basti - Narayan				
taila				
Physiotherapy				

Results

The results of the study on the selected registered patient are as follows:

- After treatment there was marked relief in LBA and STIFFNESS.
- was able to walk more freely.
- Walking time increased.

Table 10.	Basti	retention	time of	f Kala	Basti Plan	
Table 10.	Dasu	recention	ume o	Naia	Dasti Flan	

Day	Date	Basti	Basti Aadana kala Pratyaga		Retention	
				mana kala	time	
1	17/09/2021	Anuvasana	11:00 a.m.	11:20 p.m.	20 min	
2	18/09/2021	Anuvasana	11:15 a.m.	01:00 p.m.	1 hr 45 min	
3	19/09/2021	Niruha	09:40 a.m.	10:00 a.m.	20 min	
4	20/09/2021	Anuvasana	11:00 a.m.	12:40 p.m.	1 hr 40 min	
5	21/09/2021	Niruha	10:00 a.m.	10:15 a.m.	15 min	
6	22/09/2021	Anuvasana	10:30 a.m.	12:15 p.m.	1 hr 45 min	
7	23/09/2021	Niruha	09:20 a.m.	09:45 p.m.	25 min	
8	24/09/2021	Anuvasana	11:00 a.m.	01:20 p.m.	2 hr 20 min	
9	25/09/2021	Niruha	09:00 a.m.	09:15 a.m.	15 min	
10	26/09/2021	Anuvasana	10:00 a.m.	11:00 a.m.	1 hr	
11	27/09/2021	Niruha	09:10 a.m.	09:30 a.m.	20 min	
12	28/09/2021	Anuvasana	10:00 a.m.	12:10 p.m.	2 hr 10 min	
13	29/09/2021	Niruha	10:00 a.m.	10:20 a.m.	20 min	
14	30/09/2021	Anuvasana	10:15 a.m.	01:45 p.m.	3 hr 30 min	
15	1/10/2021	Anuvasana	10:00 a.m.	02:00 p.m.	4 hr	
16	2/10/2021	Anuvasana	11:00 a.m.	01:45 p.m.	2 hr 45 min	

Table 11.	Change	of	reading	in	pain,	stiffness	and
numbness							

Sign of symptoms	Before treatment	After treatment
Pain	3	1
Stiffness	3	1
Numbness	0	0

Table 12. Change of reading in different activity symptoms

Sign of symptoms	Before treatment	After treatment	Result in %
Walking	3	1	80
Personal care	3	1	80
Social life	3	1	80

Sex life	-	-	-
Pain intensity		1	80
Lifting	4	2	70
Sitting	3	1	80
Standing	4	0	100
Travelling	4	1	80
Sleeping	2	0	100
Total	31	8	83.33 %

Discussion

Punarnavadi Guggulu – Punarnavadi guggulu contains mainly punarnava, erandamoola, shunthi, guggulu, eranda taila etc. which possess vatakaphahara, shoolahara and anulomaka properties along with anti-inflammatory, analgesic, muscle relaxant properties and even regenerative properties which gives relief from the disease.

Rasnasaptaka Kwatha – Rasnasaptaka kwatha possess an excellent vata shamaka property. It has the following contents rasana, amrita, aaraghwadh, devdaru, trikantaka, punarnava, etc. having the property anti-inflammatory, analgesic, anti-arthritic.

Shivakshara Pachan Churna – Vata and Pitta's digestive processes are normalized. The food that has been consumed is properly absorbed and assimilated. Rich in carminative and anti-spasmodic herbs, it quickly relieves gassiness and biliousness.

Kati basti with Narayana Taila – Kati basti is a type of snigdha swedana. Application of kati basti was carried out in order to provide nourishment and strength to the affected area. Here due to degeneration of inter-vertebral disc and affected function of *Shleshaka kapha*, results in irritation and compression. The combination of *kati basti* and *Narayana taila*, which combines the benefits of both *snehana* and *swedana*, helps lubricate the local muscle and tissues of the adjacent afflicted area and also enhances local blood flow, which aids in draining the inflamed exudates.

Dashmooladi Niruha basti followed by Narayana tail Anuvasana basti - According to Acharya Charaka, basti is the best treatment for vata dosha. Since the active ingredients in basti preparation are absorbed by the Pakwashaya subsequently distributed (intestine) and to numerous bodily channels. It gets to the diseased area, causes affect throughout the body, and provides alleviation. Basti acts on the primary location of vata dosha, pakwashaya

, and aids in the removal of the *Avarana* of *kapha* over *vata* caused by protrusion. It helps in relieving constipation, odema, inflammation and necrosis due to its *strotoshodhana* effect. *Dashmool* is a *tridoshahara* drug. *Guduchi* possesses *vedanasthapana, vataghna* action due to *snigdha and ushna gunas.* Due to its *ushna virya* and *shothahara* characteristics, *Punarnava* possesses *kapha-vataghna* activity. The effects of *anuvasana vasti* with *narayana taila* permeate the body and reach subtle pathways.

Conclusion

Katigraha is considered as one of the Vata Nanatmaj vikara. The principal symptom of katigraha, low back pain, is relatively common nowadays owing to a mechanical lifestyle, despite the fact that it is not extensively mentioned in Ayurvedic writings. It is a relatively typical ailment. It may occur instantly or gradually over time as a result of repeated motion. Long periods of sitting, a poor diet, a lack of exercise, and stress are the primary causes of low back pain in today's society. As a result, one should be aware of the causes and symptoms before treating.

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