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Research Article

AN OBSERVATIONAL STUDY ON THE MANAGEMENT OF KATIGATA VATA WITH SPECIAL REFERENCE TO LUMBAR SPONDYLOSIS BY ASHWAGANDHADI KSHIRBASTI

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ABSTRACT

Low back pain is the most prevalent clinical presentation in musculoskeletal disorder. Wrong postural habits and several stressful factors like incident back trauma, BMI, vehicular driving, daily spine loading contribute to the development of spinal disorders. Lumbar spondylosis is a common musculoskeletal disorder that is characterized by degenerative changes in the vertebral discs and the surrounding structures, leading to various clinical manifestations and impacts an individual's overall quality of life. Katigata vata is mentioned under Vatavyadhi with symptoms such as Katishula (lumbar pain), Aakunchan Prasaranyoh Shula (pain on flexion and extension), Graha (low back stiffness), as well as Pidanasahatva (tenderness). In Ayurveda, management of Katigraha is done on the basis of Chikitsa Siddhanta. Hence, this observational study aimed to assess the effect of Ashwagandhadi Kshirbasti (medicated herbal therapeutic enema) in Katigata Vata with special reference to lumbar spondylosis. This was an observational study, in which the data of thirty-four diagnosed cases of *Katigata* Vata were observed from the inpatient department of our institute. Ashwagandhadi Kshirbasti was administered in Kala Basti Krama along with Kati Basti. Wilcoxon Signed Rank Test was used for statistical analysis of the data. Statistically highly significant results (P< 0.0001) were found in all the clinical features of Katigata Vata. Assessment parameter like Roland-Morris Low Back Pain and Disability Questionnaire (RDQ) and WOMAC also shows highly significant reduction (P<0.0001) after treatment. It was observed that Ashwagandhadi Kshirbasti is effective in the management of Katigata Vata with special reference to Lumbar Spondylosis.

INTRODUCTION

Low back pain is a prevalent condition that affects a significant portion of the adult population, with estimates ranging from 60-85%.^[1] It is considered a major cause of disability worldwide.^[2] Approximately 10% of all cases of back pain are caused by lumbar spondylosis.^[3] Lumbar spondylosis is a chronic, non-inflammatory musculoskeletal condition characterized by degeneration of the lumbar disc, facet, vertebral bodies, and/or associated joints of the lumbar spine joints.^[4]

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Its prevalence ranges from 38% to 85% and is more common among middle-aged and elderly individuals.[5] Factors such as poor posture, jerky movements during travel, sports activities, aging, and improper sleeping posture can contribute to the development of spinal disorders. The lumbar spine, which comprises the five lower vertebrae, plays a crucial role in providing structural support, facilitating movement, and protecting the delicate spinal cord and nerves. The region is particularly vulnerable to degenerative changes due to its high load-bearing function and constant movement. This condition involves age-related wear and tear of intervertebral discs and adjacent spinal structures, resulting in a range of symptoms, including chronic back pain, stiffness, radiating pain in the lower extremities, and neurological issues, which can significantly impact an individual's quality of life, even if not life-threatening.

There is no mention of *Katigata vata* in Ayurveda's classical texts. However, it is mentioned as *Katigrah* under *Vatavyadhi* and *Vataj nanatamja Vikara*. As the lumbar region is the site of *Vata dosha*, this pathological condition can be caused by either *Margaavarana* (obstructive pathology) or *Dhatukshaya* (degenerative pathology) and presents with symptoms such as *Katishula* (lumbar pain), *Aakunchan Prasaranyoh Shula* (pain on flexion and extension), *Graha* (low back stiffness), as well as *Pidanasahatva* (tenderness). Due to the similarity of clinical manifestations, *Katigata vata* can be correlated with lumbar spondylosis.

Non-surgical of lumbar management spondylosis typically entails the use of a variety of medications and therapies. These may include nonsteroidal anti-inflammatory drugs (NSAIDs), COX-2 inhibitors. corticosteroids. muscle relaxants. prostaglandins, epidural injections, transforaminal injections, lumbar belts, traction, and physiotherapy. In severe cases, surgical intervention may be necessary. NSAID use is limited in many patients, due to their substantial gastrointestinal side effects.[6] Other medications, such as intra-articular steroids, opioids, and analgesics, may not be effective in all individuals. However, there is a growing interest in alternative and complementary medical systems that offer a holistic approach to understanding and managing this condition. *Katigata vata* is a Vata-dominant Sandhiroga that affects the Kati region. According to Charaka, there is no other treatment like Basti (medicated enema) for the Shamana of vitiated Vata, and which is considered to be half of the overall treatment.[7] Ayurvedic texts suggest that Asthigat Vata is best treated with Panchkarma upakrama, using Siddha (medicated), Ghrita and drugs with Tikta Rasa.[8] Treatment modalities such as Sthanik Snehan *Swedan* also have *Vata*-pacifying properties.^[9]

Therefore, this study aimed to evaluate the efficacy of *Basti* treatment, a prominent *Panchakarma* therapy, in alleviating the symptoms of *Katigata vata* with special reference to lumbar spondylosis.

AIM AND OBJECTIVES

Aim

1. To observe the efficacy of *Ashwagandhadi Ksheer Basti* in *Katigata Vata* with special reference to lumbar spondylosis.

Objectives

- 1. To observe the efficacy of *Ashwagandhadi Ksheer Basti* on WOMAC scale and Roland-Morris Low Back Pain and Disability Questionnaire.
- 2. To observe the efficacy of *Ashwagandhadi Ksheer Basti* on signs and symptoms of patients suffering

from *Katigata vata* with Special Reference to Lumbar Spondylosis.

MATERIALS AND METHODS

This was an observational study of 34 patients who were observed on the basis of case records in inpatient department of our institute for the study irrespective of gender, and socioeconomic status. Who were diagnosed as *Katigata vata* with Special Reference to Lumbar spondylosis were selected from outpatient and inpatient department of our institute.

Diagnostic Criteria

- 1.Clinical features:
- A. *Katishul* (lumbar pain)
- B. Aakunchan Prasaranyoh Shula (pain on flexion and extension)
- C. Graha (stiffness)
- D. Pidanasahatva (tenderness)
- E. Shulasya Kala (duration of pain)
- F. Anidra
- 2. Radiological Investigation: X-Ray of lumbosacral spine, MRI of lumbosacral spine, (if available)

Investigation for screening

- 1. Haemoglobin grams%
- 2. White blood cell count
- 3. Blood sugar fasting and post meal

Treatment Timeline: Observed Management timeline is depicted in figure 1.

Figure 1: Illustrating the management timeline

WOMAC: The Western Ontario McMaster Universities Osteoarthritis Index (WOMAC) scale.

RMQ: Roland-Morris Low Back Pain and Disability Questionnaire.

Treatment regimen: All treatment details are given in Table-1

All the patients (n=34) were administered treatment trial as follow. The treatment is described in Table 1.

Basti administration Procedure comprised three steps which are *Purvakarma* (preoperative), *Pradhamkarma* (intraoperative) and *Pashatkarma* (postoperative).

Purvakarma (pre-operative)

- 1. Preparation of *a Basti*: All the drugs of *Basti* are added and titrated consecutively staring with *Madhu* (honey), *Saidhava*, *Ghrita* (ghee), *Kwatha* (decoction of herbal drugs) and milk in propionate quantity.
- 2. Preparation of patients: Patient was advised to take light diet, afterwards given *Sarvanga Abhyanga* with lukewarm *Tila Taila*, followed by *Nadi Swedana*.

Pradhamkarma (intraoperative)

Patient was advised to lie down in *Vama Parshwa* (left lateral position with left leg straight and right leg flex) on *Basti* table. Once the rubber catheter's tip and anal ridge were lubricated, one-fourth of the catheter was placed into the anal canal. A small amount of *Basti Dravya* was kept in a syringe and catheter was removed.

Pashatkarma (postoperative)

- 1. 1.The patients were instructed to lie down on supine position for 10-15 mins to defecate on developing urge.
- 2. *Basti Pratyagamana Kala* (retention time of enema) noted.

Assessment Criteria

- 1.Clinical features of *Katigata Vata* with special reference to lumbar spondylosis were graded on the basis of severity. (Shown in Table-2)
- 2. The Western Ontario McMaster Universities Osteoarthritis Index (WOMAC) scale.

3. Roland-Morris Low Back Pain and Disability Ouestionnaire.

Overall assessment criteria: Shown in Table-3 **Statistical analysis**

For non-parametric data, Wilcoxon matched-pairs signed ranks test was used.

OBSERVATIONS AND RESULTS

All the patients were observed and assessed on the basis of Symptom Score, WOMAC scale and Roland-Morris Low Back Pain and Disability Questionnaire. In this study 64.70% were male while 35.29% patients were female.

Effect of therapy: Effect of *Ashwagandhadi Ksheer Basti* was evaluated particularly on clinical features and WOMAC and RMQ. Almost all symptoms as depicted in Table-4 showed reduction of over 50% in their severity with overall effect of therapy is 57.62%. while effect of therapy on clinical features by Wilcoxon Signed Rank Test showed highly significant results in all parameters as shown in Table-5.

Table 1: Treatment Details of the study

1	Rukshan Pachan Kwatha	Guduhci Triphla Musta each Churna 3 gm Vidang	40 ml BD	Amapachan, Agnideepan Anulomana
2	Katibasti	Tilataila 🦪 🍣 🐝	3	Relieves pain, stiffness
3	Ashwagandhadi Kshirbasti	Makshika-5gm Saindhava-5gm Sneha-Ashwagandhadi Gruta- 30gm apaka of - 200 ml Ashwagandha Guduchi Shatavari	240 ml	Vatashamana Rasayana Dhatuposhan

Table 2: Grading of Symptoms of Katigata vata

Sr.No.	Pramukh Vedana	Gradation	Gradation on Marks
1	Katishula	No pain	0
		Mild pain	1
		Moderate pain but no difficulty in walking	2
		Slight difficulty in walking due to pain	3
		Much difficulty in walking	4
		Much pain which prevents walking	5
2	Akunchan	No pain	0
	Prasaranyoh Shulam (Pain on extension	Pain without wincing of face	1
		Pain with wincing of face	2
		Shouts or prevents complete and flexion/extension.	3

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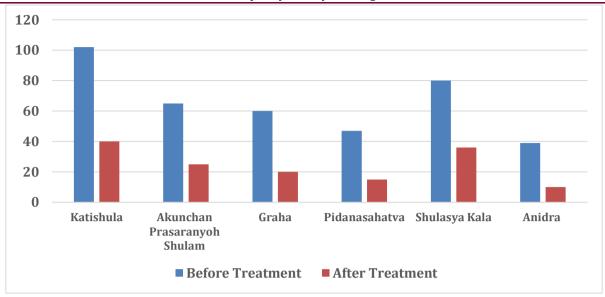
	flexion)	Does not allow passive movement.	4
3	Graha	No stiffness	0
	(Stiffness)	Mild stiffness	1
		Moderate stiffness	2
		Much difficulty due to stiffness severe	3
4	Pidanasahatva No tenderness		0
		Patient says tenderness	1
	(Tenderness)	Wincing of face	2
		Wincing of face and withdraws the hand	3
		Not allowing to touch the joint	4
5	Shulasya Kala	No pain	0
		Only in morning (4 am to 10 am) or evening (5 pm to 11 pm)	1
	(Duration of pain)	Pain in morning (4 am to 10 am) or evening (5 pm to 11 pm)	2
		Pain present whole day	3
6	Anidra	Samyak Nidra	0
		Mild Anidra	1
		Moderate Anidra	2
		Severe Anidra	3

Table 3: Overall Assessment Criteria

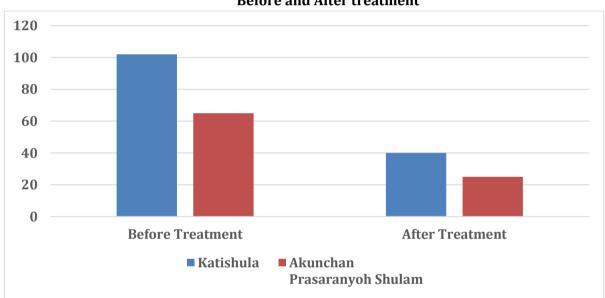
1	Complete relief 100% relief in sign and symptoms.			
2	2 Marked improvement More than 75% relief in sign and symptoms.			
3	Moderate improvement	Relief between 50% to 75% in sign and symptoms.		
4	Mild improvement	25%to 50% relief in sign and symptoms.		
5	Unchanged	Less than 25% of relief in sign and symptoms.		

Table 4: Effect of therapy on Symptom Score of 34 patients of Katigata vata

S.No	Parameter	BT	AT	Difference of Score	Relief percentage	
1	Katishula	102	40	62	60.07%	
2	Akunchan	65	25	40	61.53%	
3	Graha	60	20	40	66.67%	
4	Pidanasahatva	47	15	32	68.08%	
5	Shuiasya Kala	80	36	44	55%	
6	Anidra	39	10	29	74.35%	
7	WOMAC	1570	762	808	51.46%	
8	RDQ	457	211	246	53.82%	
	Total effect of therapy	57.62% moderate improvement				



Graph 1: Graphical Representation of effect on Sign and Symptoms Before and After treatment



Graph 2: Graphical Representation of Reduction in WOMAC and RDQ Score Before and After treatment
Table 5: Effect on Symptoms Score by Wilcoxon Signed Rank Test

S.No	Symptoms	Mean ±SD			W	Τ±	T-	P
		BT (Mean ±SD)	AT (Mean ±SD)	Mean Diff±SD				
1	Katishula	3.000±1.371	1.176±0.903	1.824±1.267	426	430	-4	<0.0001
2	Akunchan	1.911±1.055	0.735±0.567	1.176±0.833	406	406	0	<0.0001
3	Graha	1.764±0.986	0.588±0.608	1.176±0.986	351	351	0	<0.0001
4	Pidanasahatva	1.382±0.853	0.441±0.560	0.941±0.600	378	378	0	<0.0001
5	Shuiasya Kala	2.353±0.883	1.509±0.776	1.294±0.798	406	406	0	<0.0001
6	Anidra	1.147±0.957	0.294±0.675	0.852±0.892	258	267	-9	<0.0001
7	WOMAC	46.176±25.038	22.412±14.024	23.765±18.617	595	595	0	<0.0001
8	RDQ	13.441±5.456	6.206±2.739	7.235±4.149	561	561	0	<0.0001

DISCUSSION

In traditional Ayurvedic texts, Katigata Vata is referred to as Vatavvadhi or Vataj Nanatamja Vikar, which is described under various terms such as Katigraha, Katishula, and Trikshula. This condition is characterized as a Vata-dominant disease that affects the Asthi and Sandhi in the Kati region. A sedentary lifestyle, improper dietary habits, and bad postures can all contribute to the development of spinal disorders with clinical manifestations, such as pain, tenderness, and stiffness in the lumbar region. As Sushruta stated that pain cannot exist without Vata.[10] Vata and Asthi relationship mentioned under concept of Ashrva-Vata Ashrvee Bhava. vitiation resulting Asthikshaya.[11] Pruthvi, Agni, and Vayu Mahabhut were predominantly present in *Prakrut Asthi Dhatu*^[12] Shleshak Kapha are located in Sandhi.[13] The pathogenesis of Katigata Vata can be described as the Kshaya of Sleshak Kapha, which causes Rukshata and *Vataprakop* as well as the degradation of *Asthi Dhatu*, ultimately interfering with *Dhatuposhan*.

In the management of Vatavyadhi, Snehan, Swedan, and Panchakarma are advised.[9] Basti is considered the best treatment modality, and Ayurvedic texts recommend the use of medicated Basti with Siddha Kshira, Ghrita, and drugs having Tikta Rasa in Asthivaha strotas Vyadhi.[8] Basti Chikitsa is Ardha Chikitsa (half treatment), as stated in the Charak Samhita.[7] Basti reaches Pakavashaya, which is the main site of the Vata Dosha.[14] By acting on its Mulasthana (main site), the Basti brings the Vata from all over the body into its physiological state. Additionally, Pakvashaya is associated with the Purishdhara Kala through its functions. Dalhanacharya has mentioned Asthidhara Kala and explained the relationship between Purishdhra Kala and Asthidhara Kala while explaining Visha Vegantara.[15] As Asthi and Pakvashay are sites of action for Vata Dosha, Basti Chikitsa can treat conditions where Asthi Dhatu is involved.

Ashwagandha (Withania somnifera), Guduchi (Willd.)], cordifolia [Tinospora and Shatavari (Asparagus racemosus) are the primary ingredients Ashwagandhadi used to prepare Kshirbasti. Aswagandha having Tikta, Kashay Rasa, Kaphahara, Balya and Rasayan (potent regenerative tonic) properties.[16] It is used in variety of musculoskeletal conditions due to its antiinflammatory,[17] analgesic properties^[18] and experimental study shows chondroprotective activity in human osteoarthritic cartilage matrix^[19]. Guduchi has Balya and Rasayana properties, with a Tikta, Kashay Rasa, Ushna Virya, Madhur Vipaka and is considered pacifying all three Doshas (regulatory functional factors of the body).[20] An animal study conducted by P Kapur et al found that OVX rats treated Tinospora cordifolia extract showed osteoprotective effect as the bone loss in tibiae was slower, In comparison to ovx controls.[21] T. cordifolia therapy reduced pro-inflammatory cytokines such IL-1 β , tumour necrosis factor-alpha (TNF- α), IL-6, and IL-17, which led to suppression of arthritic inflammation and bone and cartilage degradation.[22] It also enhanced the differentiation of cells into the osteoblastic lineage, stimulated the development of osteoblasts, and increased the mineralization of bonelike matrix.[23] Shatavari has Tikta Madhur Rasa, Snigdha and Guru Guna and possesses Rasayana and *Balya* properties.^[24]

Through its *Snehan* and *Swedan* action, *Katibasti* pacifies *Vata* and relieves pain and stiffness in the lumbar region. The properties of *Basti*, including *Ushna*, *Guru*, and *Snigdha Guna*, which are responsible for normalizing *Vata*, while its *Balya* and *Rasayan* properties nourish the *Saptadhatu* by improving *Dhatuposhan*. Once *Vata* is normalized, it improves the quality of the *Asthi Dhatu*.

This is observational study has its own limitations. The clinical study will be carried out on this concept. It may give new horizon to the scientific society.

CONCLUSION

Above study demonstrates that reduction in clinical signs and symptoms and improvement in the quality of life of the patients. Therefore, it can conclude that *Ashwagandhadi Kshirbasti* is effective in the management of *Katigata Vata* (Lumbar Spondylosis).

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