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Ayurvedic management of *Dhatukshayajanya Kativata* w. s. r. to lumbar *spondylosis* - a case study.

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ABSTRACT :-

In today's era everybody is busy and living stressful life. Low back pain affects approximately 60-85% of adults during some point of life from which in geriatrics it is mostly due to degenerative changes in spine. Overlooking of back pain and using temporary medicine without proper diagnosis leads to painful complication. Kativata which is correlated with LS is degenerative condition affecting disc. vertebral bodies or associated joints of lumbar spine. In this case study due to working lifestyle &ageing, degenerative changes in the form of multilevel peridiscal osteophytes, dehydration & desiccation of disc with pain and stiffness in lower back were observed. Assessment of Sahachar tail katibasti, vogbasti of sahachar tail *&dashmoolkwatha*done. After Yogbasti Ksheer basti given for next 15 days. Improvement in cardinal symptoms of kativata were observed. It also provided significant results in improving Oswerty Disability Index (ODI) Scale & pain intensity. The possible understanding of the case in terms of Ayurveda and a therapeutic protocol with promising result has been discussed.

Keywords :- *Kativata* (Lumbar Spondylosis), *Yogbasti, Katibasti, Ksheerbasti,* degenerative, desiccation of disc, multilevel peridiscal osteophytes.

INTRODUCTION :-

In today's era everybody is busy and living stressful life. Low back pain affects approximately 60-85% of adults during some point of life¹. In which in geriatrics it is mainly due to degenerative changes in spine. Lumbar spondylosis is defined as degenerative conditions affecting the discs, vertebral bodies, and / or associated joints of lumbar spine.²The soft, elastic material dries out and loses height . Thickening of the ligaments that surrounds the disc occurs.

Alteration of the alignments of the joints that connect the back of the spine also occurs. These other ligaments undergo further degenerative changes, thickening and partial calcification³. The description about *Kativata*is not available as a separate disease entity in any Ayurvedic texts. It is mentioned as one of the Vatavyadhiin Charaka samhita⁴. In *Kativata*pain is predominantly present and as correctly said by Sushruta without vitiation of acharya Vata. Shulacannot be produced. The definition of Jirna (Vriddha) itself say " Ataha param *HiymaanDhatvaindriyabal*

.....Jirnamuchyate Aavarshatam"⁵. This means that, in old age the *Dhatu* becomes Kshina along with Indriya, balaand Virya etc. According to principle of Ashryaashravee bhava when increase in Vata dosha there will be decrease in Asthi Vata&Asthiare as inversely dhatu proportional to each other⁶. Hence it is clear that etiological factor of Vatavridhiis etiological factor of Asthikshaya. Apart formthese. Medovaha. Asthivaha. Majjavaha, Pirushavahastrotas can also be taken as the causative factor for Asthikshaya. So ageing is one of the cause in degeneration of Dhatus. In modern medicine lumbar spondylosis is managed by NSAID'S, corticosteroids but these drugs have so many effects⁷. side And on other hand Ayurvedadescribes it's treatment in the form of Panchakarma, rasayana, shamana. In Ayurvedic practice lumbar spondylosis or*Kativata* cases are common but in this case patient came with MRI report having mild degenerative changes in the form of multilevel peridiscal osteophytes & disc desiccation changes & mild dehydration of intervertebral disc are noted. For *AsthipradoshajavyadhiCharaka acharya* describes line of treatment in the form of *Basti*. Soin this case study *Kati basti*, *yogbasti*, *ksheerbasti*was done as a part of treatment .

AIM &OBJECTIVES :-

AIM :-

To evaluate the ayurvedic management in *Dhatukshayajanyakativata* with special reference to lumbar spondylosis.

Objectives :-

(1) To study the *Kativata*& lumbar spondylosis in detail.

(2) To evaluate the ayurvedic management

Dhatukshayajanyakativata with special reference to lumbar spondylosis with *Kati basti*, yogbasti, ksheerbasti& internal medicine.

CASE REPORT:-

A 60 yrs male patient came to OPD of *Ayurvedic* hospital. Patient presenting with *Katishoola* (Pain in lumbar region), occasional stiffness in *Katipradesh* (Lumbar region), *Sakshthachankaraman* (pain during walking), *Sakasthautkatasana* (pain in seating position). Was unable to lift heavy weight .Patient was suffering from same complaint since one and half year. But from 15 days increase in severity of symptoms are observed.

HISTORY OF PRESENT ILLNESS

Patient was having above complaints since one and half year. For these complaint he had attended orthopaedic surgeon for treatment but he didn't get relief from these symptoms .So patient came to OPD of *Ayurvedic* hospital for treatment.

PAST HISTORY

No H/O of DM / HTN / IHD / Jaundice / Thyphoid / or any other major illness or surgical treatment. No history of accident or fall.

PERSONAL HISTORY

Aharhetu :- Irregular meal timing's . More than 7 to 8 hrs gap between two meal. In meal *Tikshna, ruksha, amla, tikta rasa pradhanaaaharsevan.*

Viharhetu :- Patient is doing business of daily need items since 40 years . He works about 8 to 10 hours daily. In which most of the time he used to stand for hours.

Kalajhetu :- In *Varsha rutu* he was suffering in more intensity in said complaints & age of patient is 60 years.

GENERAL EXAMINATION

(IncludingAsthavidhapariksha,

*Indriyapariksh&Strotas*examination

- 1) General condition of patient is moderate & afebrile.
- 2) Pulse rate: 80 / min
- 3) B.P.:- 130 / 80 mm of Hg.
- 4) R.R :- 16/min
- 5) Weight :- 65 kg.
- 6) Height: 164 cm

7) Systemic examination :- a) C.V.S.:- S_1S_2 normal no abnormal sound. b) C.N.S.:-well conscious & oriented c) R.S.: - A.E. = B.E. clear. 8) P/A:- Soft, non-tender. liver, kidney, spleen not palpable. 9) *Prakruti:-Vatapradhan pitta anubhandhi 10) Kostha* :-*Mrudu 11)Agni :- Visham 12)Satva :-Madhyam 13) Sara :- Avara*

Asthavidhaparikshan

1)Nadi:-Vatapradhan pitta 2) Mala:-Occasional constipation 3) Mutra :- 3 to 4 times per day. No micturation in night. 4) Jivha:- Saam 5) Shabda :- Spastha 6) Sparsha :- Shita 7) Druk :-Panduta 8) Akriti :- Madhyam.

Indriyaparikshan

Strotas Examination

Rasavahastrotas :-Ubhayapindikodveshtana(Occasional cramps in both legs). Panduta (Pallor)

AsthivahaStrotas:Katishool (pain in lumbar region), Occasional pain in both knee joint.

MajjavahaStrotas:OccasionalTingling and numbness in both upperandlowerlimb,difficulty in walking.

Clinical Examination of spine

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Inspection :- No lordosis, no kyphosis was found in patient . No any other tenderness or major abnormality was seen in spinal examination of patient. No any swelling & surgical marks were seen in spinal examination.

Gait :- Normal

Investigation (on the day of admission of patient)

- Hb % :- 12.9gm %
- RBC :- 4.26 million / Cumm
- TLC :- 6000 /Cumm
- DLC :- N 50 % L-40% M- 07 % E-03% B-00
- Platelet count :-2, 28, 000 /Cumm.
- E.S.R.(Wintrobe's method) :-10 mm at the end of one hour.
- R.B.S. :- 130 mg%

Urine examination

Albumin-NIL Sugar-NIL Microscopic examination-NAD

MRI of lumbar spine (Dated on06/04/2016)

MRI reported that normal curvature & alignments of lumbar spine has been maintained .Lumbar vertebral bodies are normal in heights. Mild degenerative changes in the form of multilevel *peridiscal* osteophytes & disc desiccation changes. Mild dehydration of *intervertebral* discs noted. Mild disc bulge at L4-5 & L5-S1 levels.

Diagnosis & Assessment:-

Lumbar sponydlosis was diagnosed by the presence of pain, occasional stiffness restricted movements and by MRI findings like degenerative changes in the form of multilevel periodical osteophytes & disc desiccation. Dehydration of intervertebral disc. Mild disc bulge at L4-5 & L5-S1.A criterion of assessment was based on scoring on Oswestry low back pain disability questionnaire (ODI Scale). ODI Scale is extremely important tool to measure patient's functional disability and it is considered as 'gold standard' of low back functional outcome tool. This is composed of 10 sections (Questions). Each question is rated on 6 points (0-5) scale measuring activities like personal care, sleep, social life^{8.}The two assessments were carried out before treatment and at the time of discharge on this scale. The patient was initially diagnosed as

*DhatukshayajanyaKatigatvata*having symptoms according to *Ayurveda*.

TREATMENT

Treatment primarily conservative in nature &Focused on relive the pain at low back region. Treatment initially started with Trayodashang guggul 500 mg two times a day after meal for pain management for 15 days . And Sarwangabhyang bv Mahanarayn tail and SarvangaSwedana by Baspasweda. Then KatibastiofShahachartail done on lumbar region for 15 days. Yogbasti :- Total 8 bastigiven in 8 days.First day Anuvasanabasti 80 ml of Sahacharadi tail was given after that Niruhabasti of dashamoolkwatha700 ml given in alternate days followed by Anuvasanbasti . On 8th day againAnuvasanbastiwas given.The

Anuvasanabasti was administered after meal and Niruha Basti was administered empty stomach.*Tiktakshirbastiof Ashwaganda, Shatawari, Guduchi Siddha Kshir* 500 ml was administered after meal for 15 days.

RESULT

The patient is symptomatically improved. The subjective parameter show improvement in clinical symptoms.By this treatment, patient shows significant results in straight leg raising test (Table no.1), Owestry Low Back Pain Index (Table no.2), forward and backward bending (Table no. 3).Before Starting the treatment ODI scale was 53.33% (Severe disability range 41%-60%) and at the end of treatment it was 23.33% (Moderate disability range 21%-40%).Relief in symptoms like pain in lumbar region, Sakashtautkatasan, painful condition during walking was relived.

DISCUSSION

Lumbar sponylosis is principally a disease of mid and later life. As the lumbar discs and associated ligaments undergo aging, the disc spaces frequently narrow. Thickening of the ligaments that surround the disc and those that surround the facet joints develops. These ligamentous thickening may eventually become calcified. Compromise of the spinal canal or of the openings through which the spinal nerves leave the spinal canal can occur⁹. In *Kativata* there were involvement of Vata, asthi& sandhi dushti were take place. Hence this disease was considered as *Madhyammarga roga*¹⁰. Due to ageing & working lifestyle there was Dhatukshayajanyaavasta can be seen and Sthanshanshrya ofkativata take place in Kati

Pradesh(Low back region).So used of Katibasti for local pain management &Snehana was used. Katibasti of shachar tail for the period of 45 minutes was done. Katibasti increases the blood flow over the low back area and helps to wash out the waste materials & pain local toxins, producing bio-chemicals from the affected area. As Sahachar tail was described by Vagbhata in Kashthasadhyavataroga so for *kativasti* it was used¹¹.By this process it restores the local damage of ligaments, muscle, bone & intervertebral discs etc of that are chornic low back pain.Trayodshang guggul is mentioned by Gadanigraha .In Falashurti it is said that it can be used in asthibhagna or asthividhaavastha. Guggul also helps to relieve pain. Basti increasers the Bala, agni, medha, varna etc. It strengthens the body, prolongs life, removes Dosha dushti from all over body & thus pacifies all the aliments. It is praised as "Sarvarthakari". Asthapanabasti is strotovishodhana å malaphara, while Anuvasana performs the function of Vatashamana¹². Another advantage of basti is that it can be administered in any age group¹³. According to principle of Ashryaashrayee bhava when increase in Vata dosha there will be decrease in Asthi dhatu as Vata & Asthiare inversely proportional to each other⁶. Acharya Charaka&Vagbhata mention the use of basti prepared with the Tiktadravya, ksheera & ghrita as the treatment¹⁴ of asthikshaya along with the use of Swayonidravyas (Similar substances). Abhyanga & Swedana gives soothing effect on body. It increases vasodilation which leads to improve in blood circulation. Ingredients of Bastisuch as

Godugdha, ghrita, madhu mitigate the Vata & shamana of Vata leads to decrease in pain. Genral debility is due to Dhatukshaya & balakshaya. Sodrvyas like Ashwagnadha, Shatavari, guduchi which are having properties like Jivaniya, Rasayana, Balya, Dhatu poshaka properties should be used. So *Ksheera* (*milk*) *is siddha* by these three drugs as per guidelines mentioned by acharya sharangdhara and then it is used in *Tiktak* sheer basti. Regarding Tikta Ksheerbasti, Arundatta says that the combination of Snigdha & Shoshana property produces *Khara* property which is also the *Guna* of the Asthi. This nourishes the Asthi as per Samnya siddhanta.¹⁶. As to explain action of Tiktaksheerabasti according to Panchabhoutika theory predominance wise the panchabhoutika composition of Asthi is Akash & Jala Prithvi, Vavu. Agni, mahabhuta . The Basti contain Khseera, tiktadrvaya as main ghritamadhu, ingredients . The prepared basti is Madhur, Tikta rasa pradhan. If we analyze the Panchabhoutikacompositon of Madhura, tikta rasa it is Prithvi+jala, Vayu+Akasha respectively. Hence the composition of Basti drvaya is similar to Asthi dhatu& hence it nourishes the Asthi dhatu and due to rasayana, balya effect of ashwagndha, shatavari, guduchishamana of vata dosha is take place and it delays the degenration of Dhatus. Tiktadravyashas properties of pachana, satnyashodhana, Deepana, kled-meda-vasa upshoshanam¹⁷. lekhana. Which can help to reduce Medodusthi & Helps in aggrevation of agni of meda dhatu which is indirectly helping to proper formation of Meda dhatu& Production of Utarottar dhatu i.e. Asthi, Majja etc. In

research studies found by Gyanendra D. Shukla et al 2010 in their review article when Basti nourishes the bacterial flora which helps in production of vit- B and to K & inhibits the production of pyurvicacid.This helps in prevent degeneration of myelin sheath spinal cord. Another drugs like honey, saindhava, milk are reach source of minerals which are absorbed through large intestine and transferred to other system and helps to cure the disease of other systems¹⁸. Patient can be managed by these Panchakarma procedure along with internal medicine.

CONCLUSION

Dhatukshayaavastha is a progressive systemic condition characterised by decrease in Sharirbala, virya, paurashya, daurbalya in functioning of sensory organs & many more symptoms. Dhatukshayaavastha even increased in speed if etiological factor like heavy working stress. lifestyle. unsatisfactory diet. Ageing can't be stop but it can be slow down by Ayurvedic management in the form of Rasayana before administrating therapy. But Rasayanashodhana is necessary and basti can be given in any age and it plays both role i.e. Shodhana&rasayana so it can be used very significantly. The Chikitsa mentioned for Asthipradoshajvyadhi stress upon the use of basti and swayonidravyas. So in this study combination of Katibasti, Yogbasti, Ksheerbasti is used. There was significant relief in subjective symptoms & marked improvement changed in ODI scale. Thus it can be concluded that use of this combination of *basti* plays role in DhatukshayajanyaKativata. Further

randomized controlled trials with large sample are required to substantiate the present findings.

Table no.1 (Straight leg raising test)

Before treatment		After treatment	
Right leg	Left leg	Right leg	Left leg
60^{0}	50^{0}	80^{0}	80^{0}

Table no. 2 (Owestry Low Back Pain Index)

	treatment(53.33	treatment(23.33
•	<u>%)</u>	<u>%</u>)
1.	The pain in	No pain at the
	moderate at the	moment(0)
	moment(2)	
2.	Suffering with	Patient can flooor
	pain while	after himself
	dressing and he	without causing
	was careful(2)	extra pain.(0)
3.	Can lift very light	Patient prevents
	weights(4)	him from lifting
		heavy weights off
		the floor, but can
		manage if they are
		conveniently
		placed on
		table.(2)
4.	Pain prevents him	Pain prevents
	from walking	him walking more
	more than $\frac{1}{2}$	than i mile.(1)
	mile.(2)	
5.	Pain prevents him	Pain prevents him
	from sitting more	sitting more than
	than 30	one hour(2)
	minutes.(3)	
6.	Pain prevents him	Pain prevents him
	standing more	from standing for
	than 30	more than one
	minutes.(3)	hour.(2)

Table no. 3 (Relief in Bending)

Before treatment	After treatment	
Forward bending-	Forward bending-	
Painful	Painless	
Backward bending -	Backward bending-	
Painful	Painless	

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