

WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.084

Volume 10, Issue 12, 2122-2128.

Case Study

ISSN 2277- 7105

AYURVEDIC MANAGEMENT OF PROLAPSED INTERVERTEBRAL **DISC - A CASE STUDY**

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Article Received on 20 August 2021,

Revised on 10 Sept. 2021, Accepted on 30 Sept. 2021

DOI: 10.20959/wjpr202112-21857

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ABSTRACT

Prolapsed Intervertebral Disc (PIVD) is a common lumbar Spinal disorder in present era. Disturbed lifestyle and improper postural habits leads to this disorder. PIVD is a displacement of disc material beyond the Intervertebral disc margin which can be described under Vatvyadhi which is seen due to Vatprakopa. In modern science PIVD require surgical interventions which is avoided by Ayurvedic management. Acharya Charaka stated that Asthapan and Anuvasan Basti are the best choices of treatment to control the Vata. Aim of the study was to evaluate the effect of Shodhan (Basti) and Shaman chikitsa in the management of PIVD. A 55 years old female patient was reported to OPD and then admitted to IPD for a 17 days in

government Ayurved Hospital, Nagpur with the symptoms of backache, severe and continuous lumbar pain radiating to bilateral lower legs tingling sensation and numbness bilateral legs and pain while forward bending. This patient was diagnosed as PIVD on the basis of magnetic resonance imaging (MRI). The patient was treated with Shodhan i.e. Basti, Sthanik Snehana with Tilataila and Sthanik Nadiswedan along with above procedure shaman chikitsa also given. Assessment was done on the basis of GALS (Gait Arm Legs and Spine Examination) and symptoms of patient. Patient shows significant improvement in gait and associated symptoms. In the paper successful management of PID with shodhan and Shaman *chikitsa* is being achieved which will be a documented evidence for future case studies.

KEYWORDS:- Prolapsed Intervertebral disc, *Vatvyadhi*, *Shodhan chikitsa*, *Shaman chikitsa*.

INTRODUCTION

PIVD stands for Prolapsed of Intervertebral Disc which means the protrusion through or extrusion of nucleus pulpous through a rent in the annulus fibrosis.^[1] L4-L5, L5-S1 disc are most commonly affected cause of PIVD, by repeated heavy lifting or sudden awkward movement can cause strain on back muscle and spinal ligaments. At least 50% of adults would have experienced a lower back pain (LBP) episode. [2] Some studies have demonstrated that LBP is one of the most common causes of visits to a physician, [3] and men and women are equally affected with this. [4] The disease Gridhrasi cited in Ayurvedic treatise has symptomatic similarity with prolapsed intervertebral disc (PIVD), as radiation of pain in PIVD depending upon the nerve root involvement may radiate up to the thigh, knee joints, calf muscle, ankle, or feet. Symptoms of Gridhrasi are pain, stiffness, pricking or pulsatile sensation starting from the gluteal region then progressing to the waist, back, thigh, lower leg, and foot. [5] In PIVD NSAIDs such as Naproxen sodium are the main management of patient as they provide symptomatic relief. Panchkarma gives the best result in case of PIVD. Here the female patient does not get relief from allopathy treatment is planned for Panchkarma like variety of Sthanik and Sarvadaihik Chikitsa like basti.

CASE REPORTS

A female patient of age 55 years visited at O.P.D. and admitted in I.P.D. (7477/105) with following complaints

Chief complaints

- 1) Pain at lower back
- 2) Both lower limb tingling sensation from lumbar region
- 3) Left lower limb pricking pain with radiating from lumbar region
- 4) Difficulty in walking
- 5) Disturbed sleepH/O Present illness

55 years old female subject was healthy before 1 month. Subject had compliant of lower backache with radiating pain to left leg which was progressively increasing. Though she was occupation by house wife but had history of jerk before 8 days which was an trigger factor for aggravating the pain at lumbar region and radiates to left lower limb along with tingling sensation. So she was facing difficulty in walking and easy of movements of left lower limbs. She had consulted outside, suggested operative for it.

Past history

- No Past History of H.T.N. / D.M./ No any other major illness
- No Past History of fall/trauma/Personal history
- Ahar- Bakery products, Nonvegatrian (once a month), Eggs(2-3 times in week)
- Vihar –Disturbed sleep, Ati Chakaraman, Vegaavarodha
- Other- h/o jerk 8days ago
- Appetite Loss of appetite
- Bowel- 1 times/2days Constipation
- Micturition 4-5 times per day regular
- Habit- No any addiction

General examination

Pulse Rate- 70/min,

B.P. - 116/84mmHg

Respiratory rate – 18/ min

Spo2-97% on Room Air

Systemic examination

CVS – S1 and S2 sounds presentNo murmur

CNS – Conscious and OrientedRS – AEBE clear

No any additional sounds P/A – Soft and Non tender

Clinical finding

S.L.R.T. – Left leg 30 degree positive and right leg 50-degree positive. Lasegue Test – positive bilateral both lower limb.

Investigation

CBC

WBC - 6900

Hb- 13.6

Plt-188000

BSL-79

Urine ®-WNL

MRI - lumbar spine

Posterior protrusion of L4-L5 disc compressing thecal sac and encroachment of both L4 and L5 foramina is noted Compression of exiting nerve root of this site is likely.

Diagnostic assessment

The diagnosis was done based on symptoms and MRI findings. In Ayurveda, this condition resembles Gridhrasi. In MRI, Posterior protrusion of L4-L5 disc compressing thecal sac and Compression of exiting nerve root of this site. In magnetic resonance imaging (MRI), there were no signs of fracture, benign or malignant tumours, congenital deformity. So, these things were excluded from the differential diagnosis.

Therapeutic intervention

A) Shaman chikista

- 1) Firstly started with *Dipan* and *Pachan* drugs like *Agnitundi vati and* Gandhary *Haritaki* for Anuloma^[6] to remove the *Samata* and obstructive phenomenon so drugs acts freely and reduce digestive complaints of patient.
- 2) Then started medicine according to *Dosha Avastha* and *Prakruti* with *Shaman Chikista*, are as follow,
- Kaishor Guggule 2 bd
- Asthimajja Pachak Vati 2 bd with warm water
- B) Shodhan Chikista
- 1) Firstly due to pain in lower limb started Stanik Abhynga on both lower limb with Til Taila and followed by Nadi Sweda along with Kati Basti with Til Taila and myoset oil.
- 2) Anuwasan Basti with Balaashwagandhadi Tail 60 ml and Asthimajjja Pachak Kwath Niruha Basti 420 ml Vytasat Chikista.

RESULT

As we know when patient was admitted she was able to walk with support only, after treatment patient start walking without support with gradually increased S.L.R.T. from 30 degrees up to 60 degrees of left lower leg.

All other symptoms such as disturbed sleep, decreased appetite etc. were also improved. The bowel habit is changed from constipated to complete evacuation daily. There were no any adverse effects of the given treatment found in the patient.

Table no. 1.

Sr. No	Complaints	Parameters	Gradation
1	Both lower limbs tingling sensation from lumbar region	Mild ModerateSevere	0 2 4
2	Left lower limb pain radiating from lumbar region	Mild Moderate Severe	0 2 4
3	Pain at lower back	Mild Moderate Severe	0 2 4
4	SLRT(in degrees)	10 20 30 40 50 60 70 80 90	9 8 7 6 5 4 3 2

Table number 2.

Sr. no.	Symptoms	Before treatment	After treatment
1	Both lower limbs tingling sensation from lumbar region	4	0
2	Left lower limb pain radiating from lumbar region	4	О
3	Pain at lower back	2	0
4	SLRT (in degrees)	7	4

DISSCUSION

As we know Grudhrasi is included in Vataj Nanatamaj Vyadhi, [7] So the general principle of treatment of Vata Dosha is adopted in case of Grudhrasi.

- Grudhasi explained by Acharaya Charak mainly of two type^[8]
- 1) Vataj
- 2) Vatkafaj
- On admission patient having Saam Jivha, loss of apettite (due to Mandagni) and Constipation (Malavastamb) and. So in first five days Aamapachan and Agni Deepan doneby Agnitundi Vati. Along with Gandharava Haritaki is used for Vataanulomana.
- To relive pain and Vata Dosha Shaman we started Kaishor Guggule.
- Basicaly in PIVD Vata Prakopa is due to Vikruti of Asthidhatu (Vertebras) and

Majjadhatu (Prolapsed part of disc and affected nerves roots). So to produce normal and Asthimajja Dhatu and Shodhan of Increased Vata Dosha we started Abhyanga, Nadi Swedana and Kal Basti Chikitsa with Asthimajja Pachak Kwath. Abhyanga (massage) acts on the root of Mamsavaha Srotas (channels carrying muscle nutrients) i.e. Snayu, Twak and Raktavahini. It may thus nourish the superficial and deep muscles and make the joints stable. Swedana (sudation) is Sthambhagna (removes stiffness), Sandhichestakar (increases joints mobility), Srotoshuddhikar (cleaning the micro channels) and Kaphavata Nirodhana (removing excess Vata and Kaphadosha). Thus by its action, the Srotosangavighatana (breakdown the pathogenesis by removing obstruction in the micro channels) may take place and stiffness of the joints relieved. For Anuvasan Basti we used Bala Ashwagandhadi Tail which is Jivaniya, also Vataghna (removing excess vata) with Raktaposhana (increasing blood) qualities which help in improving the strength of muscles, thus nourishing Mansa (muscles) and Majja.

- *Kati Basti* with Til Tail given for 16 days, Til Taila is best *Vatshaman* Taila and it nourishesthe degenerated bones and joints.
- Basti is useful in Kshina Dhatus (depleted tissues) and Bhagna (fractures) of the Asthi (bones) and Sandhi (joints). Basti is prepared by Anuvasan Balaa Ashwagndhadi Tail)
 60ml & Astimajja Pachak Kwath Niruha 420ml which is given on alternate day as a Kalbasti Karm.^[9]
- The medicines used in *Shamana chikitsa* (oral medicine) like *Kaishor Guggulu* which is potent for *Vata Nashaka* (normalising excess *Vata*), *Rasayan* (rejuvenating), *Balya* (strength promoting activities), *Vata Shamak* and *Tarpak* (providing nutrition and support).

CONCLUSION

The result shows that the Ayurvedic treatment modalities were found quite effective and reliable for the treatment of Sciatica which can be well correlated to *Grudhrasi*. However, further work should be done on large samples to draw the final conclusion.

Abbreviation

PIVD – Prolapsed intervertebral discS.L.R.T.- straight leg rising test.

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