

Case Report

Management of Cervical Spondylosis with *Dashamoola Oil Manya Vasti* and Internal Medicines-A Case Study

Bhusal Nirmal¹, Bhatted Santosh Kumar²¹PhD Scholar, NIA Jaipur, India.²Associate Professor and Head, Department of Panchakarma, NIA Jaipur, India

Corresponding Author: Bhusal Nirmal

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ABSTRACT

Cervical Spondylosis is a degenerative condition of the cervical spine. Pain and stiffness are the primary symptoms. Often, there may be referred symptoms in the upper limb. Radiation of pain from shoulder to digits along the course of the nerve indicates nerve root compression. 66% of adults experience neck pain in their lifetime and 5% are highly disabled by it. Cervical Spondylosis can be co-related with *Manyastambha* in Ayurvedic prospective. A 42 year female patient had pain & stiffness in the neck and tingling sensation in right upper limb. On examination there was decrease range of cervical movement. On X-ray findings spondylotic changes were seen in the cervical spine. Patient was treated with *Manya Vasti* with *Dashamoola* oil and certain Ayurvedic internal medicines (*Withinia somnifera*, *Asparagus recemosus*, *Glycerhiza glabra*, *Kaishor Gugullu*, and *Dasamoola Kwatha*). There was marked improvement in pain and full range of movement was achieved. Cervical Spondylosis though is difficult to manage, but *Manya Vasti* combined with internal medicines can be good option for better management.

Key words: Cervical Spondylosis, *Manyastambha*, stiffness, *Manya Vasti*, *Dashamoola*.

INTRODUCTION

Cervical Spondylosis is a degenerative condition of the cervical spine. [1] Pain and stiffness are the primary symptoms. Often, there may be referred symptoms in the upper limb. Radiation of pain from shoulder to digits along the course of the nerve indicates nerve root compression. Paraesthesia in the form of tingling, pins and needle may be present in the hand. [2] Cervical Spondylosis may affect males earlier than females. 66% of adults experience neck pain in their lifetime and 5% are highly disabled by it. [3] By age 60, 70% of women and 85% of men show changes consistent with Cervical Spondylosis on X-ray. [4]

Cervical Spondylosis can be co-related with *Manyastambha* in Ayurvedic prospective. [5] *Manyastambha* has been enumerated in eighty *Nanatmaja Vata Vyadhis*. [6] According to Monier Willium, *Manya* means the back or the nape of the neck. [7] The meaning of the word *Stambha* is *Nischalikarana*. *Stambha* means stiffness, rigidity, make stiff or immovable. Thus *Manyastambha* is the clinical entity in which the back of the neck becomes stiff or rigid and the movements of the neck are impaired. The Symptoms of Cervical spondylosis with radiation of pain from shoulder to digits, Paraesthesia in the form of tingling, pins and needle can be correlated with *Viswachi* but Primary symptoms indicate towards *Manyastambha*.

According to *Acharya Sushruta*, sleep in day time, leaning or sleeping on an uneven place, constantly gazing upwards lead to the disease *Manyastambha*.^[8]

CASE STUDY

A 42 year female patient came to the *Panchakarma* OPD at National Institute of *Ayurveda* Jaipur, India with complaint of pain and stiffness in the neck. As per patient, she was asymptomatic before 4 years back and then she developed mild, aching type of pain. Since last 4 months the pain radiated to Right upper limb. It was also associated with tingling numbness in middle and ring finger. There was heaviness in the neck region with painfull neck movements. Patient did not get proper relief in last 4 years from different treatments (Physiotherapy, local analgesic ointment and NSAIDs), so came to National Institute

of *Ayurveda* for Treatment. Dietary history shows that she had irregular food habit and vegetarian diet with dominant *Rasa* (taste) *Amla* (sour). No any history of addiction was present. No personal and family history of any major systemic illness was present. Stress regarding the disease was present. On physical examinations patient was found afebrile with Blood pressure - 110/70 mm of Hg, Pulse rate - 80/minute, R.R. - 20/minute. On Systemic examination no abnormality was found in respiratory, cardiovascular and central nervous system activity. On examination neck stiffness was present with decrease range of cervical movement. Patient was admitted having I.P.D. NO. 2691. There was No any significant finding on lab Investigation done on NIA Central Lab. X-ray findings were Suggestive of Spondylotic changes in cervical Spine (Image No:1).

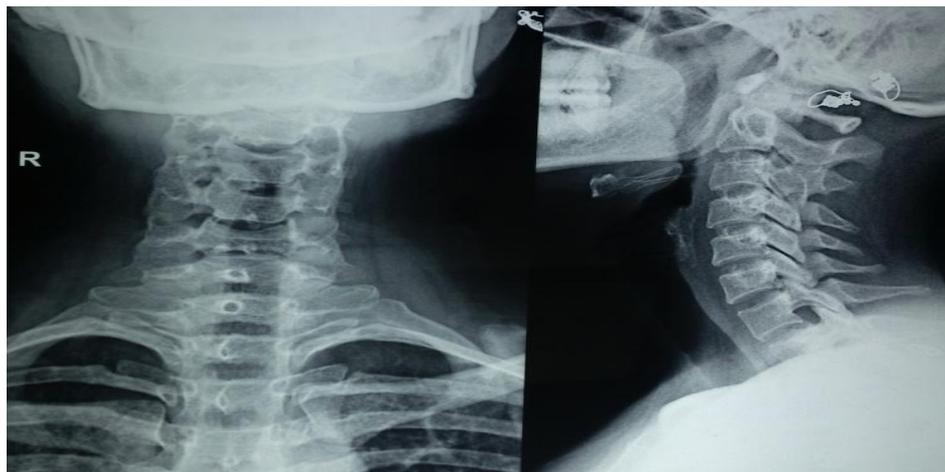


Image No: 1. X-Ray of cervical spine showing spondylotic changes.

No any specific *Nidana* was found. The patient was *Vata Pitta Prakruti*, having *Madyam Koshtha* and *Madyam Bala*. *Rasavaha*, *Medovaha*, *Mamsavaha*, *Asthivaha* and *Majjavaha Srotodushti Lakshanas* were observed. Range of movement assessment was done with the help of Goniometry and for pain Numeric pain Rating Scale was taken. Patient was treated with *Manya Vasti* and certain *Ayurvedic* Medicines.

Manya Vasti Procedure

Manya Vasti is a treatment procedure in which medicated oils are

poured and pooled for a fixed duration of time in a compartment or a cabin constructed over the nape of the neck using wet flour of black gram. In simple words, *Manya Vasti* is pain relieving oil-pooling treatment conducted for neck and upper back pain with associated symptoms.

Pre-treatment: Collection of required Materials- *Dashamoola* oil, Flour of black gram, water, heating apparatus/ stove, bowls, vessels, spoons, towel, Sponge etc. *Abhyanga* (light massage) to the neck and upper back region with *Dashamoola* oil and hot fomentation was done.

Treatment: *Manya Vasti* was done in the morning for consecutive 7 days. The patient was made to lie face down on the *Droni* (treatment table). Finely pounded black gram flour was taken in a bowl or vessel. Water was added to it (preferably warm water) and kneaded well so as to prepare a bolus. From this bolus a ring was made. The ring was having a diameter so as to accommodate and enclose the vertebrae of neck and 2-3 vertebrae of thoracic region. The height of the ring was 4-5 inches. The junction of the ring and skin was sealed with wet flour. A small amount of oil was now poured in the ring (compartment) of flour and checked for leakage. *Manya Vasti* was started after confirming that there was no leakage at the base of the walls of the ring. *Dashamoola* oil 250 ml was taken in a bowl and heated passively. The bowl was kept in the vessel filled with hot water. When the oil got warm, the bowl was removed. Oil was poured into the compartment (space within the constructed ring of wet flour). Care was taken to maintain the comfortable temperature to the patient in the *Manya Vasti* pool. The temperature was maintained uniform throughout the procedure. For this to happen, the oil from the pool was removed at regular intervals (leaving some oil in it i.e. oil should not be completely removed) and replaced by warm oil (on the other side, simultaneously oil was passively heated.)

Post procedures: At the end of fixed duration meant for completing a schedule (35-45 minutes roughly) the oil was slowly removed from the pool and stored in a

container or bottle. On the next day, the same oil was reused after adding some more oil. The whole oil was replaced after 3 days of the treatment. A light massage was given using the same oil for 5 minutes. Care was taken not to apply more pressure while massaging.

Internal Medicines

Dasamoola decoction 40 ml 2 times a day on empty stomach morning and evening, *Aswagandha* (*Withania somnifera*), *Sathawari* (*Asparagus recemosus*), *Madhuyesthi* (*Glycerhiza glabra*) *churna* 2 gms each 3 times a day with a cup of milk and *Kaishor Gugullu* 500mg three times a day with warm water after food for consecutive 7 days during hospital stay and during follow up was advised. *Dashamoola* decoction was freshly prepared every time from *Dashamoola* i.e. combination in equal quantities of the roots of following 10 herbs: *Bilva* (*Aegle Marmelos*), *Agnimantha* (*Premna mucronata*), *Shyonaka* (*Oroxylum indicum*), *Patala* (*Stereospermum suaveolens*), *Gambhari* (*Gmelina arborea*), *Shalaparni* (*Desomodium gangeticum*), *Prishniparni* (*Uraria picta*), *Brihati* (*Solanum indicum*), *Kantakari* (*Solanum xanthocarpum*), and *Gokshura* (*Tribulus terrestris*). 10 gm coarse powder of *Dashamoola* was boiled with 16 times water (160ml). It was boiled until 4 parts water was remaining, i.e. reduced to ¼ quantity of the content (40ml). The decoction thus prepared was filtered through a cloth or sieve into a small vessel and taken in the morning and evening before food twice daily.

RESULTS

Table 1: Goniometry measurement of the Range of Movement of Cervical Spine

Range Of Movement	Before Treatment	After Treatment	On Follow Up
Flexion	20 ⁰	50 ⁰	50 ⁰
Extension	50 ⁰	60 ⁰	60 ⁰
Rotation to Right	50 ⁰	80 ⁰	80 ⁰
Rotation to Left	80 ⁰	80 ⁰	80 ⁰
Lateral flexion to Right	25 ⁰	45 ⁰	45 ⁰
Lateral flexion to Left	20 ⁰	45 ⁰	45 ⁰

Pain assessment with Numeric Pain Rating Scale recorded was before treatment -7, after treatment -2 and after follow up- 1.

On the day of discharge (After 7 days of *Manya Vasti*) and internal medicines patient had marked relief in pain and tingling

numbness. There was no stiffness and full range of cervical movement was possible. On follow up after 30 days patient had no any stiffness and marked improvement was present in symptoms. Patient was very happy and satisfied with the management.

DISCUSSION

In this disease *Samprapti* (pathogenesis) is at *Manya Pradesha* and is mostly associated with changes in cervical vertebral column. There is degeneration of intervertebral disc and lubrication function of *Shleshaka Kapha* is affected which results in compression, irritation or inflammation in *Manya Pradesha* resulting in pain. Therefore local *Snehana* and *Swedana* are very effective and give quick result because they act at the site of *Samprapti*. *Manya Vasti* is a procedure in which both the properties of *Snehana* and *Swedana* are incorporated. *Manya Vasti* comes in direct contact with painful region and *Vata Dosha* is *Sheeta*, *Ruksha* and *Manya Vasti* being *Snigdha* and *Ushna* in nature alleviates the disease. *Swedana* increases sweat and brings out *Maladravyas* along with sweat. It decreases *Kleda* in the body resulting in the reduction of *Gaurava* (heaviness), and *Stambha* (stiffness). Application of therapeutic heat causes vasodilatation, because of which the blood circulation improve, resulting in the removal of catabolic waste such as lactic acid. As the blood circulation improves the anabolism increases as tissue receives the nutrients and oxygen promptly. Heat results in an increase in the local metabolism of the cell and increase transport through the cell membrane. For every increase in one degree Celsius within the physiological limits the metabolic activity increase by about 10%. Heat can improve the elasticity of fibrous tissue. The viscosity of matrix decreases, consequently connective tissue such as tendon tissue and ligament will also become more elastic. Because of *Manya Vasti* the muscles supporting the cervical spine get strengthen. So pressure gradient on cervical spine gets reduced. *Dashamoola* oil used for

Manya Vasti may help to lubricate the joints. Thus *Manya Vasti* relieves pain and stiffness in the back, relieves swelling and inflammation in the back. *Manya Vasti* with *Dashamoola* oil may have nourished the joints of the neck region, pacified the *Dosha* causing pain or discomfort. Internal Medication *Dashamoola* decoction all *Dravyas* have *Vata Shamak* property and most of the ingredients have *Vata Kapha Shamak* property. *Dashamoola* poses anti-inflammatory and analgesic action. The action of the constituents of *Dashamoola* decoction break the basic pathology of cervical spondylosis consequently helps in relieving its clinical features. *Kaishora Guggulu*, acts as analgesic and anti-inflammatory. Being a good *Rasayana* *Kaishora Guggulu* was preferred. *Aswagandha* (*Withania somnifera*), *Sathawari* (*Asparagus recemosus*), *Madhuyesthi* (*Glycerhiza glabra*) *churna* were advised as *Dhatu Suddhikara* and *Rasayana*.

CONCLUSION

There was marked improvement in the sign and symptoms of cervical spondylosis. Cervical Spondylosis though is difficult to manage, but *Manya Vasti* combined with internal medicines can be good option for better management.

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