



# Ayurvedic Management of Cervical Spondylosis: A Case Study

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## **Abstract:**

Cervical spondylosis is a degenerative condition and due to current life-style it is occurring in early to middle aged persons. A patient aged 44 years came to our institute with the complaints of pain and stiffness in the cervical region for one year and pain radiating to both upper limbs from seven months. Since one month she is having painful neck movements. She was diagnosed as a case of cervical spondylosis. MRI report suggested C4-C5 level asymmetrical disc protrusion, peridiscal osteophytes, and ligamentum flavum thickening causing thecal sac indentation and compression of bilateral exiting nerve roots. In this case study, effect of Nasya, Manyabasti and Yogbasti krama along with shamana aushadhi, Yogaraja guggulu, Gokshuradi guggulu, combination of Devdaru(Cedrus deodara), Guduchi(Tinospora cordifolia), Gokshura(Tribulus terrestris), Punarnava(Boerhavia diffusa), Rasna(Pluchea lanceolata), Ashwagandha(Withania somnifra), Dashamoola kwatha, Mahavatavidhwans, Sameera pannag, Ekangweera ras, Sootshekhara, Lajari (Mimosa pudica), Khurasani owa(Hyoscyamus niger) is evaluated. Patient got complete relief in neck pain and stiffness and radiating arm pain.

Key words: Cervical spondylosis, Manyabasti, Nasya, Shaman aushadhi Yogabasti krama

## **Quick Response code**



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#### **Introduction:**

Cervical spondylosis is degeneration of the intervertebral discs and osteophyte formation. [11] It is a degenerative condition and nowadays it's common due to current lifestyles like continuous sitting or standing postures, working on computers for hours and lack of exercise. It is becoming common in early to middle aged persons also. Cervical spondylosis or osteoarthritis of the cervical spine produces neck pain radiating to the shoulders or arms with headache

(posterior occipital region). Narrowing of the spinal canal by an osteophyte, ossification of the posterior longitudinal ligament or a large central disc may compress the cervical spinal cord. [2] Common causes of cervical spondylosis are bone spur,ie, overgrowth of bone, Dehydrated spinal discs, Herniated discs, Injury, Trauma, Ligament stiffness, overuse, etc. [3] Pathology starts at the intervertebral disc with degeneration of disc resulting in the compression of the cervical nerve along with





space reduction. It leads to pain [4], stiffness in the neck, pain radiating to shoulders, forearm, headache, vertigo, paresthesia at the base of the thumb, etc. [5] Age, gender, and occupation are the main risk factors for cervical spondylosis. [6] Nearly 50% of people over the age of 50 and 75% of those over the age of 65 have typical radiographic of cervical spondylosis. Analgesics and physiotherapy will help to a certain extent but are not the ultimate cure for cervical spondylosis. Surgeries are more expensive and again there are chances of recurrence as well. [8] In modern medicine treatment includes physical therapy (traction. exercise) NSAIDs, muscle relaxants, cervical collar, etc. [9] Cervical spondylosis can be correlated with Griva Stambha in an Ayurvedic perspective. [10] Griva Stambha is one of the eighty Nanatmaj Vatavyadhi. [11] The symptoms of Vata Vyadhi (various neurological and musculoskeletal disorders) are Sankocha (contraction), Stambhana (stiffness) of joints and Shoola in the joints well as in bones, Lomaharsha Graham (spasticity) of (horripilation), hands, back as well as the head, Shosha (atrophy) of body parts, Spandana (trembling of the body), Gatrasuptata (numbness), Hundana (shrinking) of head, nose, eyes, clavicles region and neck, Bheda (breaking pain), Toda (pricking pain), (trembling), Bala Kampana Indriya Bhramsha (loss of strength and sensory function), etc. [12] Cervical spondylosis may also be considered as manyagata vata, especially in degenerative condition. Pain during the movements, flexion-extension of a joint along with swelling and crepitation on joint movements is the typical clinical features of sandhigatvata. [13] We present a case that was successfully treated on the line of Ayurvedic management of Vata Vyadhi.

## Case report:

A 44-year-old female patient tution teacher by occupation consulted in the outpatient department, with the complaint of pain and stiffness in the cervical region for one year and pain radiating to both upper limbs for seven months. Before one month, she had a painful neck movement. She was diagnosed as a case of cervical spondylosis. She consulted neurological and orthopedic doctors in Mumbai and surgical intervention was advised, which the patient refused. She was advised to take analgesics and antiinflammatory medications for management by a previous consultant. There was no history of hypertension, diabetes mellitus, tuberculosis, and any other serious illness. No relevant hereditary, congenital and surgical illnesses were found. On physical examination, the general condition of the patient was good, her pulse was 82/min, regular; BP was 120/90 mm of Hg; the respiratory rate was 18/min regular and the patient was afebrile. The tongue was clean, the voice was clear, the bladder habits were normal and the bowel constipated. She had Vata-Kapha Prakriti with Madhya Vayah (Medium age), Madhyama Sara (medium purity of body tissue), Madhyama Satva (Medium mental strength), Madhyama Satmya (homologation), Sama Pramana (equal body proportions), Avara Vyayama Shakti (least physical endurance), Madhyama Ahara Shakti (medium food activity and digestive power). The patient had a normal gait. The active movements of the range of the cervical spine was restricted. Pain aggravated on the movement of the neck. On examination, tenderness was found. over C3, C4, C5, C6, and C7 vertebras. All cranial nerves were well intact. There was no significant finding on lab investigations. Magnetic resonance imaging (MRI) of the cervical spine that was done on (07/11/2020), suggested C4-C5 level asymmetrical disc protrusion,





peridiscal osteophytes, and ligamentum flavum thickening causing thecal sac indentation and bilateral exiting nerve roots. C5- C6 level disc osteophytic complex and ligamentum flavum thickening causes thecal sac indentation.

### **Treatment plan:**

In Ayurveda, general line of management of Urdhwajatrugata Roga and Nanatmaja Vatavyadi such as Snehana (oleation), Swedana (sudation), and Nasya (drug administration through the nose) were adopted for the case. Manya Basti is a type of Mridu Snehana & Swedana, was adopted patient. Three Panchakarma interventions were adopted to treat this patient. Manya Basti with Sahachara Taila For 14 days and Nasya Karma by anu taila for 14 days were administered and yogabasti krama. Along with these Panchakarma interventions. combinations of medicines such as Yograja guggulu 250mg 2TDS, Gokshuradi guggulu 250mg 2BD, Rasnadi ashwagandha churna 1gm each TDS, Dashamoola kwatha 30ml TDS combination of Mahayatvidhwans, Sameera pannaga, Ekangweera rasa, Sootshekharaa, Lajari, Khurasano owa each 60 mg BD. These oral medications were continued for the following 15 days after the completion of the Panchakarma schedule.

### Yogabasti:

One course of *yogabasti* was administered for 8 days. During this period *sthanik snehana* and *swedana* was done.

## Preparation and Doses of Basti -

Niruha Basti — Dashmool kwath -700 ml Tila taila-40 ml Honey -20ml Saindhav lavan -1 gm Anuvasana Basti- Tila tailaa Dose -80ml

## Manyabasti:

*Manyabasti* is an ayurvedic procedure that is done primarily to pacify aggravated *doshas* in the neck region. It was done for 15 days. *Sahacharadi* tail is used for *Manya Basti* which has been indicated in the different types of *vata vyadhi*. <sup>[14]</sup>

## Nasya karma:

14 Days Nasya Karma with Anu Taila

#### **Assessment criteria:**

- 1. Neck pain -
- 0 Absent
- 1 Mild and intermittent pain
- 2 Moderate and bearable pain 3-Severe and unbearable pain
- 2. Neck stiffness -
- 0- Absent
- 1- Mild stiffness
- 2- Moderate stiffness with partially restricted movements
- 3- Severe stiffness
- 3. Pain in arm-
- 0 Absent
- 1 Mild intermittent pain radiating to arms
- 2 Moderate pain radiating to arms
- 3 Severe pain radiating to arms
- 3 VAS SCALE





**Table 1: Treatment plan** 

Name of the Drug	Dose	Time
Yograja guggulu	250 mg	2TDS
Gokshuradi guggulu	250 mg	2BD
Devdaru (Cedrus deodara)	500 mg	3 gm TDS
Guduchi (Tinospora cordifolia)	500 mg	
Gokshur (Tribulus terrestris)	500 mg	
Punarnava (Boerhavia diffusa)	500mg	
Rasna (Pluchea lanceolata)	500 mg	
Ashwagandha (Withania somnifra)	1 gm	
Dashamoola kwatha	30ml	TDS
Mahavatvidhwans	Each 60 mg	BD
Sameer pannag Ekangweer ras Sootshekhar		
Lajari (Mimosa pidica)		
Khurasani owa (Hyoscyamus niger)		

Table 2: Type of Basti

Day	1	2	3	4	5	6	7	8
Type	A	N	A	N	A	N	A	A

**Table 3: Observations:** 

Parameters	Before Treatme	ent (17/11/2020) After Treatment (05/01/2020)
Neck Pain	3	0
Stiffness	3	0
Pain In Arms	3	0
VAS	80	10

#### **Discussion:**

According to Ayurveda, the main etiological factor of Manyastambha is vitiated Vata and Kapha Dosha. In the present case study, treatment has been planned to manage cervical spondylosis with a prime focus to alleviate Vata and Kapha Dosha. Snehana Karma (Massage) Lubricates the Srotansi (microcirculatory channels) displaces exudates and thus may relieve tension and pain. Softens muscles, ligaments, and tendons. Thus, correct stiffness and rigidity and induces elasticity in the body. Prepares smooth passages (microchannels) for the elimination of vitiated Doshas during Swedana therapy. Swedana Karma (Sudation

fomentation heat), Induces sweating and removes body toxins. Induces *Srotoshuddhi* (cleanses microchannels), Liquifies morbid *Doshas* and expels them out with sweat. Recovers vascular insufficiency of the joints and muscles. Causes relaxation of muscles and tendons. Activates the local metabolic processes which in turn produce relief of pain, swelling, tenderness, and stiffness, etc. [15] Basti is very useful in painful disorders predominant of *vata*, *anuvasana*, and *niruhabasti* is advised for the management of pain. *Asthapanabasti* i.e., *Niruh Basti* with decoction removes vitiated *vata* thus relieves pain. [16]

Nasya used in Urdhwajatrugata Roga. Oil





poured in Nasya enters the head region and pacifies the Dosha. [17] Nasya with Anu Taila helps in the elimination of vata- Kapha dosha and clears obstruction in the channels. Manya Basti is a procedure in which both the properties of Snehana and Swedana are incorporated. Manya Basti comes in direct contact with the affected region. Vata Dosha is Sheeta, Ruksha, and Manya Basti being opposite to Vata Dosha Guna i.e., Snigdha (unctuous) and *Ushna* in nature alleviates the disease. Swedana removes Kleda along with the sweat from body resulting in the reduction of Gaurav (heaviness) Stambha (stiffness). **Application** therapeutic heat causes vasodilatation, because of which the blood circulation improves, resulting in the removal of catabolic waste such as lactic acid. Heat increases the local metabolism of the cell and increases 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 the matrix decreases, consequently, connective tissue such as tendon tissue and ligament will also become more elastic. Because of Manya Basti, the muscles supporting the cervical spine get strengthen. So, pressure gradient on the cervical spine gets reduced. Yograja guggulu is very effective in Vata Vyadhi and Asthi-Majjagata Vata Roga. It increases the Agni (digestive power) and Bala (strength). [18] Yograja Guggulu is superior for its Amadoshaghna property. It regulates the Pachakagni and digest the Sanchitha ama and stopes the formation of new ama. Gokshuru is having Mutrvirechniya (diuretics) and Shothahara property. It is used in jeerna sandhigata vata. Devadaru due to its tikta rasa and Ushna Virya it is Kaphashamaka and Snigdha Ushna Guna it is Vata Shamana and hence it relieves pain (Vedanasthapana). Guduchi

Tridoshshamaka, Snigdha Ushna Guna. It is Vata Shamaka, Tikt Kashaya Rasa. It is Kapha Pitta Shamaka. Gokshura is a Vata-Pitta Shamaka and pain reliever (Vedanasthapana). Punarnava Tridhoshashamaka and helps to reduce swelling. Due to Madhura Tikta Kashaya Rasa it is Pittashamaka. Ushna Virya it is Vata Shamaka. Rasna Ushna Virya is Kaphavatashamaka. It is the superior drug in vatashamana hence it is the best pain reliever (Vedanasthapana) Amapachaka Rasayana Balavardhaka. It reduces swelling. Ashwagandha is giving strength to the muscles and ligaments and promotes health. Ashwagandha possesses Rasayana (immuno-modulator) and Brihana (nourishes the bone and muscles) properties, so it is useful in all types of Dhatukashya (diminished body tissue). [19] Dashmoola kwath is Tridoshara (alleviating all deranged doshas), Vedanasthapana (pain killer), and Shothahar (subside inflammation). Mahavatavidhwansana rasa is effective in vitiated vata dosha, and in neuritis (vatavahini kshobha) it brings equilibrium in vata dosha. It is mainly used in throbbing pain where the aim is to relieve the pain without ama dosha sangrahana. Ekangaveer Rasa is effective in Vatakaphaj disorders and Pakshaghata (hemiplegia). [21] Mahavatvidhwansa rasa metabolism of CNS and PNS, co-ordinates neuromuscular activity Sameerpannag rasa is used in Ardhangvata and Amavata. Sameerpannnaga rasa is kapha kaphavataghna. It is used in Jeernavastha like Jeerna Pakshaghata, Apatanaka, Apatantrak, Jivhasthambh, Hanugrah, Ardit, Dhanushkampa. It is also used in the vatavikar where pain and stiffness are there. Ekangveer Raspromotes healing of damaged nerves and blood vessels recanalize and activates a sensory and motor function. Chopachini is Vedanahara (pain relief), Shothanashaka (subside inflammation),



very effective in Vata Vyadhi, and able to carry drugs in Sukshma Srotasa (microchannel). So, it helps in decreasing the pain and facilitates the penetration of drugs to deeper tissues like Asthi Dhatu. [22] Sameerpannaga improves tissue oxidation overcomes anoxia normalizes neuromuscular metabolism. Sameerpannaga rasa is kaphavataghna and it acts in rasarakta and mansa. It works on vatavahini (nerves). Lajjalu is laghu and ruksha kashaya tikta rasa katu vipaka and sheeta virya. It is used in kapha pitta vikara. It is used in kapha pitta vicar. It is used to reduced inflammation. It is a bone healing drug(sandhananiya). Lajjalu-regenerative effect on neuro lesions Khurasani owa is Madak and Vedanasthapak Kapha Vata Shamaka used to reduce pain inflammation. Khurasani Owa checks neural irritation. Sutshekhar provides nutritional support for the faster healing of damaged organelles.

#### **Conclusion:**

The case report shows clinical improvement in cervical spondylosis with Panchakarma and Ayurvedic medicinal interventions.

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