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# Cervical Spondylosis as Manyāstambha: An Ayurvedic Review with Lifestyle and Yogic

# Recommendations

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#### **ABSTRACT**

Introduction: Cervical spondylosis is a common degenerative condition of the cervical spine, often characterized by neck pain, stiffness, and radiating sensations such as tingling or numbness from the shoulders to the fingers—typically due to nerve root compression. In the modern era, sedentary lifestyles, poor posture, prolonged computer usage, shift duties, irregular eating habits, and frequent travel contribute significantly to the development and progression of cervical spine disorders. In *Āyurveda*, a similar condition is described as *Manyāstambha*, one of the *Nānātmaja Vāta Vyādhi*. According to the Suśruta Saṃhitā, causes like daytime sleep, prolonged static postures, and continuous upward gazing disturb the balance of *Vāta* and *Kapha*, leading to stiffness and restricted movement in the neck. Clinically, *Manyāstambha* can be correlated with cervical spondylosis.

**Methods:** The present study is based on a thorough review of classical Āyurveda texts including Caraka Saṃhitā, Suśruta Saṃhitā, and Aṣṭāṅga Ḥṛdaya, alongside contemporary medical textbooks and published research articles. The focus was to explore the etiopathogenesis and symptomatology of *Manyāstambha* in light of cervical spondylosis and to understand the commonalities between Āyurveda and modern views on this condition

#### **Results:**

The literary analysis revealed that *Manyāstambha* closely resembles the clinical presentation

of cervical spondylosis. The involvement of  $V\bar{a}ta$  Doṣa, especially  $Vy\bar{a}na$   $V\bar{a}yu$ , in the  $Gr\bar{v}a$  Pradeśa (cervical region), is emphasized in  $\bar{A}yurveda$ . Additionally,  $\acute{S}leṣaka$  Kapha is often noted as an associated or supporting doṣa ( $Anubandh\bar{v}$  Doṣa), contributing to the stiffness and reduced mobility of the neck.

**Discussion :** This study supports the conceptual correlation between  $Many\bar{a}stambha$  and cervical spondylosis, offering a dual understanding rooted in both classical  $\bar{A}yurveda$  principles and modern biomedical science. Recognizing this overlap opens pathways for integrative approaches in the management of cervical spondylosis, including  $\bar{A}yurveda$  therapies aimed at balancing  $V\bar{a}ta$  and reducing stiffness. Further clinical studies are warranted to validate  $\bar{A}yurveda$  interventions in managing such degenerative spinal conditions effectively.

**Keywords:** Cervical Spondylosis, *Manyāstambha, Vātavyādhi, Grīvāstambha, Grīvāgatavāta Roga, Pathya* and *Apathya* 

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## Introduction

Cervical spondylosis is a degenerative disorder of the cervical spine, often referred to as "osteoarthritis of the neck." It results from age-related changes in the intervertebral discs and adjacent vertebrae. As the intervertebral discs undergo dehydration and shrinkage, they may lead to disc protrusion and the formation of osteophytes (bone spurs) along the margins of the vertebral bodies. These structural alterations can cause narrowing of the spinal canal foramina, intervertebral potentially resulting in cervical cord or nerve root compression [1].

# **Epidemiology**

Cervical spondylosis is a highly prevalent condition, with radiographic evidence observed in approximately 13% of males by the third decade of life, increasing to nearly 100% by the age of 70. In females, the prevalence ranges from 5% in the fourth decade to 96% in women over 70 years of age. Radiographic changes are generally more severe in males than in females [2]. It is considered the most common cause of cervical cord and root compression in individuals over the age of 40, primarily due to degeneration of cartilaginous and ligamentous structures

of the cervical spine [3]. Hormonal factors also appear to play a role, with postmenopausal estrogen deficiency contributing to greater susceptibility in women [4].

# Concept of Cervical Spondylosis in $\bar{A}yurveda$

In *Āyurveda*, cervical spondylosis can be correlated with the condition known as Manyāstambha. The term is derived from two Sanskrit roots: Manya, referring to the region of the neck, and Stambha, meaning rigidity or stiffness. According to Arunadatta, the commentator of Astānga Hrdaya, Manya denotes the two Nāḍīs (nerves) situated laterally on either side of the neck. Amarasimha, the commentator of Bhāva Prakāśa, interprets Manya as the  $\dot{s}ir\bar{a}$  (vessel) located posteriorly in the neck. As per Monier-Williams Sanskrit Dictionary, the word Manya refers to the "nape" or "back of the neck," while Stambha is defined as niścalīkarana, indicating stiffness or immobility.

Cervical spondylosis represents a midlife degenerative condition associated with progressive deterioration of the dhātus (tissues). Ācārya Suśruta enumerates various causative factors (nidāna) for Manyāstambha, including divāsvapna (daytime sleeping), which

Kapha doṣa, upaveśanam aggravates posture while sitting (improper sleeping), and *ūrdhvadarśana* (frequent gazing) [5]. Additionally, upward rātrijāgaraņa (night vigil) is said to provoke Vāta dosa. The interaction of aggravated Kapha and obstructed Vātatermed Kapha-āvṛta Vāta—is understood result in the development of to Manyāstambha.

Gadānigraha and Harita Samhitā also describe similar etiological pathological frameworks for this condition. Dalhana, the commentator of Suśruta Samhitā, elaborates that continuous upward gazing with improper neck posture causes microtrauma, eventually manifesting as neck rigidity. Ācārya Caraka mentions śirobhighāta (trauma to the head) another as contributing factor.

Various causes for *Vāta* vitiation relevant to *Manyāstambha* include:

- Sva-prakopakā (natural aggravators)
- *Mārgāvaraṇakāra* (obstructive factors)
- *Marmaghatakāra* (trauma to vital points)
- Dhātukṣayakāraka nidāna (tissuedepleting causes)

# Clinical Features (Lakṣaṇa) of Manyāstambha

The cardinal signs and symptoms of *Manyāstambha* include:

- *Śirhśūla* (headache)
- Stambha (rigidity or stiffness) in the Manya (nape of the neck)

These symptoms closely align with the clinical presentation of cervical spondylosis, including pain, restricted range of motion, and discomfort radiating to adjacent regions.

# Pathogenesis (Samprāpti)

By the age of 60 years, a majority of individuals exhibit signs of spondylotic This degeneration. age-related transformation corresponds with Vātapredominance, leading to increased vulnerability to disorders involving structural deterioration. The causative factors (nidānas) discussed above suggest the pathological involvement of Vyāna Vāyu in the Grīvā pradeśa (cervical region). This may manifest as muscular contraction, neurological deficits, and Asthi-kṣaya (degeneration of bony tissue) the in cervical vertebrae. thereby reinforcing the conceptual link between Manyāstambha and cervical spondylosis.

Figure No: 1 Showing Samprapti

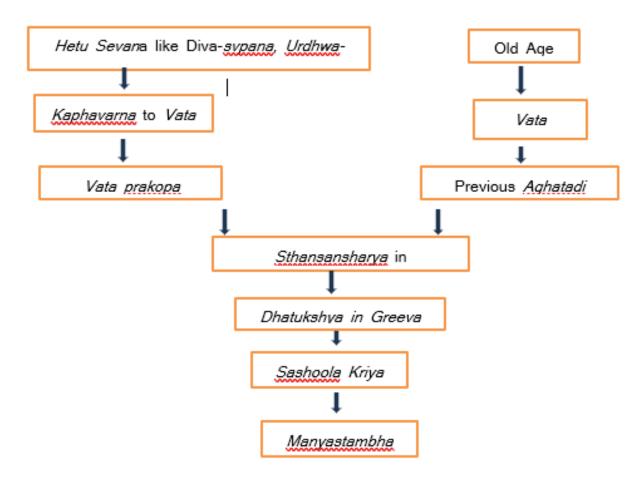


Table No 1: Differential Diagnosis of Manyastambha

Parikshavidhi	Manyastambha	Avabahuka	Vishwachi
Nidana	Diwaswapna (excessive sleeping during the day time) Asamasthan(sitting and standing in fixed position/uneven surface) Urdhwa Neeriksha(upward gaze in excess)	Vata Doshaprakopaka like- injury to the vital part of the body/carrying heavy load over the shoulders/over exertion in the joints etc.	load over the
Purvaroopa	Alpashula in Manya(minor pain in the nape of the neck)	Shoola in Manya Karna (moderate to severe pain in the nape of the neck/Ear)	Prutyanguli( pain in
Roopa	Shoola & Stambha in Manya (pain and stiffness in the nape of	in Prusta, Bahu Manya(stiffness and	,

Binjhwar D. et al. Review on Cervical Spondylosis as Manyāstambha & Yoga

	the neck)	the neck/back of arm)	over the back of arm)
Dosha	Vata kapha	Vata kapha	Vata
Adishthana	Manya pradesha (the nape of the neck)	Bahupradesha (back of arm)	Hastatalam (tendon of palm & fingers)

# Treatment Modalities in $\bar{A}yurveda$

According to  $\bar{A}c\bar{a}rya$   $Su\acute{s}ruta$ , the foremost principle in the management of any disease is  $Nid\bar{a}na$  Parivarjana—the avoidance of causative factors.  $Many\bar{a}stambha$  is classified under  $V\bar{a}taja$   $Vy\bar{a}dhi$ , and hence, treatment principles applicable to  $V\bar{a}tavy\bar{a}dhi$  are generally adopted.

To pacify the vitiated Vāta and associated Kapha, classical texts recommend a combination of therapies including Snehana (oleation), Nasya (nasal administration of medicated oils). Rūkṣasvedana (dry fomentation)(6) and *Kvātha* (herbal decoctions) prepared using formulations like Daśamūla and Pañcamūla.

# **External Therapies**

- Abhyanga (therapeutic oil massage) with medicated Taila and Ghṛta is considered beneficial in reducing stiffness and improving mobility.
- Kukkutāṇḍa Sveda (fomentation using boiled hen's eggs) is specifically indicated.
   Bhāvaprakāśa describes a formulation where the entire egg is

heated with *Saindhava* (rock salt) and *Ājya* (clarified butter), and then applied over the *Grīvā pradeśa* (neck region) followed by *Mardana* (gentle massage) to alleviate *Manyāstambha*.

 Rasōna Taila (garlic-infused medicated oil), mentioned in Caraka Saṃhitā, is particularly effective as a Vātahara application.

Internal Therapies and Panchakarma
In cases where *Vāta* is obstructed by *Kapha*, *Caraka Saṃhitā* advises dietary modifications such as consumption of barley, and the meat of animals and birds dwelling in arid regions. Additionally, classical detoxification therapies like:

- Snehana (internal oleation)
- Swedana (fomentation)
- *Nirūha Basti* (medicated decoction enema)
- Vamana (therapeutic emesis)
- *Virecana* (therapeutic purgation) are recommended to eliminate the aggravated *doṣas* and restore balance.

## **Medicated Formulations**

1. Nasya (Nasal Medications): Nasya is particularly indicated in Manyāstambha to relieve cervical rigidity and promote circulation to the head and neck region. Useful formulations include:

- Gudādi Nasya
- Māśabalādi Nasya
- Ksīrabala Taila
- 2. Gutikā (Medicated Pills):
  - Yogarāja Guggulu a classical Vātahara formulation widely used in Vātavyādhi including Manyāstambha.(7)
- 3. Kvātha (Decoctions):
  - Daśamūla Kaṣāya
  - Pañcamūlī Kvātha
  - Māśabalādi Kvātha

These decoctions serve anti-inflammatory and analysesic purposes, supporting tissue regeneration and *dosa* balance.

- 4. Rasakalpa (Mineral-Metallic Preparations):
  - Vāta Gajāṅkuśa Rasa(7)
  - Vāta Vidhvamsa Rasa
  - Vāta Kūlāntaka Rasa

These rasa medicines are potent in pacifying chronic  $V\bar{a}ta$ -induced disorders with neuromuscular involvement.

- 5. *Taila Kalpanās* (Medicated Oils): Used for both *abhyanga* and *basti*, the following oils are therapeutically beneficial in *Manyāstambha*:
  - Nārāyaṇa Taila
  - Prasāriņī Taila
  - Māśabalādi Taila
  - Mahāmāsa Taila

• Gandha Taila

**Topical Applications** 

According to *Bhaiṣajya Ratnāvalī*, *Aśvagandhā Lepa* (paste) is advised as an external application over the *Grīvā pradeśa* for its anti-inflammatory and *balya* (strengthening) properties.

# Role of Yogic Practices and Diet in the Management of *Manyāstambha* (Cervical Spondylosis) Yogic Practices Beneficial in Cervical Spondylosis

Yogasana and related practices have been shown to improve flexibility, enhance muscular strength, increase endurance, reduce stiffness and and pain individuals with cervical spondylosis. practice, Regular when performed mindfully and under supervision, can contribute to both prevention and rehabilitation. It is advisable to begin with Sūksma  $Vy\bar{a}y\bar{a}ma$ (subtle joint movements) to prepare the body.

- 1. Neck and Spinal Exercises:
  Gentle neck movements—such as flexion, extension, lateral bending, and rotation—help in mobilizing the cervical joints, reducing stiffness, and improving blood circulation.
  These should be practiced slowly and consciously to avoid any strain.
- 2. Selected *Āsanas* for Cervical Spine Health:

Binjhwar D. et al. Review on Cervical Spondylosis as Manyāstambha & Yoga

The following postures are particularly recommended:

- Tāḍāsana, Ūrdhva
   Hastottānāsana, Katichakrāsana, Ardhachakrāsana, Koṇāsana
- Vajrāsana, Uṣṭrāsana,
   Vakrāsana, Ardha
   Matsyendrāsana, Mārjarīāsana
- Gomukhāsana, Uttāna
   Maṇḍūkāsana, Sarala
   Matsyāsana, Bhujaṅgāsana
- Śalabhāsana,
   Dhanurāsana, Makarāsana,
   Śavāsana

These postures promote spinal alignment, muscular balance, and release of muscular tension in the cervical region.

- 3. Prāṇāyāma (Breathing Practices):
  - Nāḍī Śuddhi (alternate nostril breathing)
  - Sūryabhedana (right nostril breathing)
  - Bhrāmarī (humming bee breath)

These techniques assist in calming the nervous system, balancing *doṣas*, and improving oxygenation.

- 4. Meditation (*Dhyāna*):
  - o Breath awareness
  - o Om chanting
  - o *Om* meditation

Such practices enhance mental relaxation and are known to reduce the perception of pain and stress associated with chronic conditions like cervical spondylosis.

- 5. Special Yogic Techniques:
  - o *Yoganidrā* (yogic sleep)
  - Antarmauna (inner silence meditation)

These are deep relaxation techniques that help in resetting the autonomic nervous system, reducing muscular tension, and improving overall wellbeing.(8)

# Pathya-Apathya in the Management of *Manyāstambha*

While there are no *specific* dietary regulations prescribed solely for *Manyāstambha* in the classical texts, it is categorized under *Vātavyādhi*, and thus, the general dietary guidelines for *Vāta* management apply.

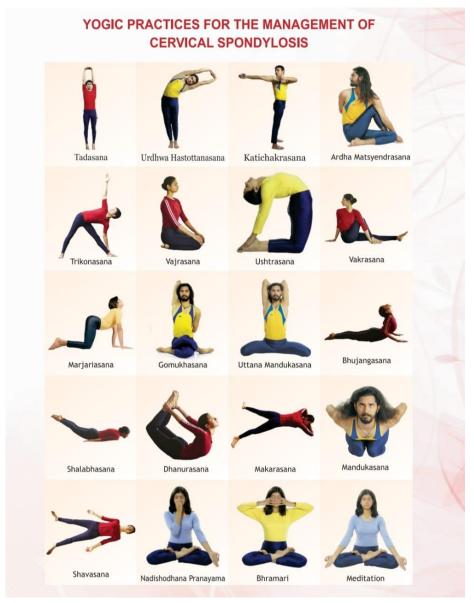
Table No 2: *Pathya-Apathya* for *Manyāstambha*(9)

Factor	Pathya(wholesome)	Apathya(unwholesome)
Sneha and others	Sarpi(old cow's ghee) Vasa(fats) Taila(oils) Majja(bone marrow) Gritha(cow's ghee) Dugdha(cow's milk) Dadhi(curd) Kurchika(cheese like substance derived from curd)	-

Binjhwar D. et al. Review on Cervical Spondylosis as Manyāstambha & Yoga

Harita, Shakha, Shimbhi and Phala varga	Kulatha(chickpea) Masha(black gram) Godhuma(wheat) Raktashali(red rice) Patola(pointed gourd) Vartaka(brinjal) Dadima(pomegranate) Parushaka(falsa) Badara(jujube) Lashuna(garlic) and Draksha(grapes)	Chanaka(gram) Kalaya(pea) Shyamaka (Echinochloa frumentacea) kuravinda, mudga(green gram) rajamasha(special black gram) Guda(gegry) Jambuka(Syzygium cumini) Kramuka(betel nut) Mrinala(leaf-stalke of blue totus) Nishpava(flat bean) Taalaphala(palmyra palm) Shimbi(pulses) Shaka(green vegetabels) Udumbara(cluster fig)
Mansa verga	Kukkuta (cock)	All jangala mamsa varga
Raspradhan	Madhura(sweet) Amla(sour) Lavana (salt)	Kashaya(astringent) Katu(pungent) Tikta(bitter)
Manasika	Sukha (Happiness)	Chinta(anxiety) Prajagaran (staying awake at night)
Vihara	Snehana(medicated oleation therapy) Swedana(medicated steam therapy Snehapana(intake of medicated ghee) Snana(medicated bathing) Abhyanga(medicated oil massage) Rechana(purgation) Mardana(pressure massage) Basti (the introduction of herbal decoctions and medicated oils into the colon through the rectum) Avagahana(tub bath) Samvahana(external oliation therapy) Agni-karma(therapeutic heat burn) Upanaha(poultice) Tailadroni(specialized wooden bed) Shirobasti(intensive herbal oil bath for head) Nasya(administration of herbal oil/medicated powders/decoction through the nasal passage) Santarpana(process of nourishing the body) and Brimhana (nourishing/strengthing the body)	Vyavaya(sexual intercourse) Ativyayama(over exercise) Basti(the introduction of herbal decoctions and medicated oils into the colon through the rectum) Ashvayana(horse riding) Chankramana(walking)  Vegadharana(forceful suppression of natural urges) Chardhi(vomiting) Shrama(exhausation)





## **Discussion**

Cervical spondylosis is a degenerative disorder of the cervical spine and does not correspond exactly to a single disease entity in Ayurveda. However, it can be closely associated with conditions such as *Grīvahundana*, *Grīvāstambha*, and *Viśvācī*, based on overlapping symptomatology.

From the Ayurveda perspective, multiple causative (nidāna) factors contribute to the aggravation of doṣas and subsequent development of Manyāstambha. These include:

• **Dietary factors** such as the regular intake of *kaṭu* (pungent), *kaṣāya* (astringent), *tikta* (bitter), *rūkṣa* (dry), *laghu* (light), and

śītavīrya śuṣka āhāras (cold and dried foods), as well as irregular eating habits like ādyāśana and viṣama āśana.(10)

- **Physical** factors such as prolonged study or desk work (adhyayana), falls (prapātana), excessive running (pradāvana), undue pressure on the neck (prapedana), night shifts (rātrijāgaraņa), heavy lifting (atibhāraharana), and frequent travel.(10)
- Psychological factors including krodha (anger), bhaya (fear), and śoka (grief or emotional stress), all of which disturb the doshic balance [10].

The cervical region is considered the sthāna of kapha doṣa, characterized by qualities such as snigdha (unctuous), śīta (cold), guru (heavy), ślākṣṇa (smooth), and sthira (stable), associated with the dominance of prthvī and jala mahābhūtas. When *vāta*—possessing opposite properties—gets aggravated due to the aforementioned factors, it vitiates the kapha sthāna, leading to rapid degeneration of cervical tissues. Clinically, this manifests as karṣṇya (discoloration from disc dehydration), balahāni (muscle weakness), nidrāhāni (disturbed sleep), indriyabhramśa (sensory and motor deficits), bhrama (dizziness), asthiśūla (bone pain), and *majjāśoṣa* (degeneration of bone marrow).

Further degenerative changes such as śramsa (disc prolapse), pāruṣya (loss of disc elasticity), śaukṣirya (osteophyte formation), and śyāva-aruṇa varṇatva (dark discoloration due to disc dehydration) are corroborated by radiological findings [11][12].

The Ayurveda line of treatment primarily aims to reverse or arrest vāta aggravation, enhance lubrication (snehana), and reduce degeneration. These principles are in line with modern research, which emphasizes the role of oxidative stress in intervertebral disc degeneration. The inhibition of RANKL receptor activation and TNF-α expression has emerged as a promising approach to delay or prevent bone degeneration. Antioxidant supplementation, therefore, plays a critical role in neutralizing free radicals and reducing oxidative stress.[13] In Ayurveda, therapeutic formulations and possess procedures that antioxidant properties, vāta-hara (vāta-pacifying), and pṛthvī-jala dominant attributes are ideal choices. Snehana-both internal and external-is considered the first line of management in such vāta-vyādhis.

#### **Conclusion**

Manyāstambha, which aligns closely with cervical spondylosis in modern medical understanding, is a degenerative

condition increasingly prevalent in the present era. The disease process involves the vitiation of  $V\bar{a}yu$ —specifically  $Vy\bar{a}na$   $V\bar{a}yu$ —often associated with Śleṣaka Kapha. The chronic nature of this condition affects not only physical health but also the socioeconomic and psychological well-being of individuals.

The pathology involves *mārgāvarodha*-janya *vāta prakopa* (obstruction-induced vāta aggravation), leading to the degeneration (*kṣaya*) of *asthi* and *snāyu*, manifesting as structural and functional

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abnormalities in the cervical spine. Management involves a multidimensional approach: internal and external *snehana*, *swedana*, *nāsyakarma*, *abhyanga*, *rūkṣa sweda*, and the application of medicated *lepas* have all shown effectiveness in clinical practice.

Holistic integration of Ayurveda treatments, yogic practices, and dietetic modifications may provide a sustainable and individualized approach in the long-term management of *Manyāstambha*.

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# Binjhwar D. et al. Review on Cervical Spondylosis as Manyāstambha & Yoga

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