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Ayurvedic interventional management of Manyagatavata w.s.r. to Cervical Spondylotic Myelopathy (CSM) - A Case Study

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ABSTRACT

Cervical Spondylotic Myelopathy (CSM) is a degenerative spinal disease which may lead to significant clinical morbidity. The onset of symptoms is usually insidious, with long periods of fixed disability and episodic worsening events. Regarding the pathophysiology of CSM, the repeated injuries to the spinal cord are caused by both static and dynamic mechanical factors. Only limited surgical procedures, neuroplasticity and other medical interventions are employed in modern medicine. The standard treatment for moderate to severe CSM is operative procedures which are least preferred by the elderly patients. Hence there is a need to search for effective treatment in alternative medicine. According to Ayurveda, cervical spondylosis can be co-related with Manyagatavata, a type of Vataja Vyadhi. A 48 years old male patient presented with Neck pain, neck stiffness, and back pain since 4 years. Here, we are presenting a case of Cervical Spondylotic Myelopathy (CSM) which was treated with Ayurvedic Panchakarma procedures such as Virechana with Mahatikta Ghruta, Tiktaksheera Basti, Greeva Basti, Nasya Karma with Vacha Taila along with Ayurvedic oral drugs like Tab Brihatvata Chintamani Rasa, Ashvagandha Churna with Kavacha Beeja Churna, Amruta Guggula, Ekangaveera Rasa and Chaturbhurja Rasa. These entire drugs were prescribed for twice a day after meals. This case report revealed usefulness of Panchakarma procedures and Ayurveda oral medicines in the management of Manyagatavata w.s.r. to Cervical Spondylotic Myelopathy (CSM).

Key words: Manyagatavata, Cervical Spondylotic Myelopathy, Neck pain, Tiktaksheera Basti, Virechana.

INTRODUCTION

Neck pain is a symptom of many pathological conditions cervical spondylosis also called as cervical degenerative arthritis is one of them and is the most

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common. Cervical spondylosis is the most common non-traumatic cause of myelopathy in the cervical spine. Different from the majority of the other spinal problems in which the clinical treatment is usually the first option, early surgery is a key point to interfere in the natural history of cervical spondylotic myelopathy (CSM) and improve the neurological prognosis. Cervical spondylotic myelopathy (CSM) is a compression of the spinal cord in the neck. It is the most common spinal cord problem in the worldwide for people ages 45 and older. Cervical intervertebral disc has long been considered a common source of neck pain. The pathophysiology of CSM is thought to be multifactorial. Both static factors causing stenosis and dynamic factors resulting in repetitive injury to the spinal cord and spinal cord ischemia are involved in pathophysiology. People who suffer from neck pain

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may experience acute, chronic, or intermittent pain or a combination of them. In case of chronic neck pain, both mechanical and degenerative factors are more likely to be found. Sometimes, severe degeneration of cervical spine remains asymptomatic but can lead to neck pain. stiffness and other neurological complications in later stage. [Fig-1] Lifestyle is also an important predictor of CSM. Certain risk factors are includes blow injuries, sports injuries, and trauma. The type of pillow used during sleep and poor posture is the major predisposing factor for cervical spondylosis.^[1] The incidence of CSM-caused hospitalization in eastern Asia is 4.04 per 100,000 person-years, with higher incidences observed in older and male patients. The growing prevalence of cervical spondylosis worldwide, demands proper attention and appropriate intervention to be put in place.^[2] Only limited surgical procedures. neuroplasticity and other medical interventions are employed in modern medicine. The standard treatment for moderate to severe CSM is operative procedures which are least preferred by the elderly patients. Hence there is a need to search for effective treatment in alternative medicine.

Cervical spondylosis can be correlated with Manyagatavata in Ayurvedic prospective. It is one of the eighty types of Vatavyadhi. The symptoms of Vatavyadhi (various neurological and musculoskeletal includes Sankocha (contraction), disorders) Stambhana (stiffness) of joints and Shoola in the joints and bones, Grahama (spasticity) of hands, back as well as head, Shosha (atrophy) of body parts, Spandana (trembling of body), Gatrasuptata (numbness), Hundana (shrinking) of head, nose, eyes, clavicles region and neck, Bheda (breaking pain), Toda (pricking pain), Kampana (trembling), Balaindrivabhramsa (loss of strength and sensory function) etc.^[3]

It is a need of the time to use *Ayurvedic* treatment in the management of Cervical Spondylotic Myelopathy, here we are submitting the successful case report of *Ayurvedic* treatment of *Manyagatavata* w.s.r. to Cervical Spondylotic Myelopathy (CSM). The purpose of presenting the case report is to share the experience of a successful evidence based *Ayurvedic* treatment in *Manyagatavata*. So that the other *Ayurvedic* practitioners could be benefitted to develop their skills.

CASE REPORT

A 48-years- old married male patient of age, presented to Outdoor Patient Department of Kayachikitsa at A.S.S. Avurved Mahavidyalaya Arogyashala Rugnalaya, Nashik, India with the complaints of gradually weakness of both bilateral upper limbs and lower limbs with chief complaints such as positional vertigo, stiffness and pain around the neck region, since 4 years. The patient also reported sporadic low back pain, with decrease in muscle power in both upper and lower limbs, urinary and fecal incontinence and inability to sit even with support. There was no history of hypertension, diabetes mellitus, tuberculosis or any other serious illness. No relevant hereditary, congenital and surgical illness was found. Before two months he had painful neck movement. He was diagnosed as a case of cervical spondylosis with myelopathy. He consulted neurological and orthopedic doctors at Dhule and surgical intervention was advised, which the patient denied. He was advised to take analgesics and antiinflammatory medicine for pain management by previous consultant.

Clinical findings

After proper history taking, case was subsequently admitted to the Male *Kayachikitsa* ward of *A.S.S. Ayurved Arogyashala Rugnalaya, Nashik* on February 18, 2021 for the *Ayurvedic* therapeutics. On physical examination, the general condition of the patient was anxious with pulse rate 92/min, regular rhythm; BP was 128/90 mm of Hg; respiratory rate was 18/min regular and patient was afebrile, appetite was apparently normal and tongue was coated. Micturition and bowel movement were abnormal. Patient having Vatakapha Prakriti with Madhyama Samhanana (medium body built), Madhyama Sara (medium purest body tissue), Sama Pramana (symmetrical body proportion), Madhyama Satmya (medium homologation), Madhayama Satva (medium

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mental strength), Avara Vyayamshakti (less capability of physical activities), Madhyama Aharshakti and Jaranashakti (medium food intake and digestive power). The patient demonstrated normal gait with support. Straight leg raise (S.L.R.) was found to be negative bilaterally. The active movement of range of cervical spine was restricted. Pain aggravated on the movement of neck. On examination, tenderness was examined over C6-C7 vertebras. Pain and stiffness while movement of neck position from right to left and in circular motion. Lhermitte's sign was positive. The patient was right-handed. All cranial nerves were well intact. The range of motion for the bilateral knee and ankle joints was normal and the strength of the hamstrings and quadriceps musculature was also normal. On neurological examination, higher mental function and speech were normal. On motor examination, bulk, tone, power and coordination of arms and legs were normal bilaterally. Power in both upper limbs was grade 4 on medical research council score. Power in left leg was grade 4 and in right leg was grade 3. Babinski reflex were positive bilaterally. Deep tendon reflex examination revealed a diminished left Achilles tendon reflex. All laboratory biochemical investigations were normal. and Magnetic resonance imaging (MRI) of cervical spine that was done on October 27, 2017; revealed degenerative cervical osteoarthritis. maximum neurological compression is seen at C6- C7 level.

Diagnostic focus and assessment

Patient was known case of Cervical Spondylotic Myelopathy (CSM) which was confirmed by previous MRI report. In cervical spondylotic myelopathy, MRI shows narrowing of the spinal canal with decompression caused bv osteophytes. Manyagatavata considered Ayurvedic was as diagnosis which is included in Nanatamaja Vatavyadhi.

Treatment plan

Manyagatavata comes under Urdhwajatrugata Roga and Nanatamaja Vatavyadhi (various musculoskeletal and neurological disorder). In Ayurveda general line of management of Urdhwajatrugata Roga and Nanatamaja Vatavyadhi such as Snehana (oleation), Swedana (sudation), and Nasya (drug administration through the nose) were adopted for the case. Along with oral Ayurvedic medicines; considering the patient's Vatakapha Prakriti and physical constitution, mild massage and mild sudation adopted along with Tiktaksheera Basti were given to the patient.^[4]

Intervention

Total 5 Panchakarma interventions were adopted to treat this patient. Abhyanga with Ksheerabala Taila for 14 days, Navana Nasya with Vacha Taila for consecutively 14 days followed by Virechana (purgative therapy) with Mahatikta Ghruta Snehapana, Basti (enema) with Tikta Ksheera for 10 days and lastly Greeva Basti with Dashmoola Taila for 14 days [Table 1] Along with these Panchakarma combinations intervention of Ayurvedic oral medicines such as Ashvagandha Churna (Powder of Withania somnifera Dunal) 3g, Kavacha Beeja Churna (Powder of *Mucuna pruriens*) 3g with *Goghruta* (pure cow's ghee) after meal, Amruta Guggula 2 tablets (500 mg each tablet) with lukewarm water after meal twice a day, Brihatavata Chintamani Rasa 2 tablets (50mg each tablet) with lukewarm water after meal twice a day were prescribed. [Table 2] These oral medications were continued in following 2 months after the completion of Panchakarma schedule with addition of tablet Chaturbhurja Rasa 2 tablets after meal twice a day with (pure cow's milk).

Assessment Criteria

- 1) VAS (Visual Analog Scale)
- 2) CROM (Cervical Range of Movement)
- 3) MRCS (medical research council scale)
- 4) Lhermitte's sign
- 5) mJOA score (modified Japanese orthopedic association)

Outcome measures and follow-up

After completion of *Panchakarma* procedures patient condition was assessed for pain, giddiness, neck stiffness, neck motion, power and reflexes of upper and lower limbs. Pain had subsided. [Fig-2] Patient

had no giddiness. Neck stiffness had substantially reduced. Visual Analog scale was decreased from 60 to 30. [Table-3] Range of motion of neck was normal. [Table-4] Power of both upper and lower limbs was 5/5 on medical research council scale.^[5] Reflexes and movement of both upper and lower limbs were found to be normal. [Fig-3] Lhermitte's sign was negative at this time.^[6] mJOA score for cervical spondylotic myelopathy was-07 before treatment and improved to 12 after one month of treatment.^[7] Patient was discharged on March 10, 2021 with instruction to continue Avurvedic oral medicines. Patient condition

was stable after one month of treatment.

DISCUSSION

The patho-physiology of the development of CSM can be referred to as a cascade in which multiple factors play a role. The process usually begins with the degeneration of the cervical disc with further collapse of the discal space. The endplates of the vertebral bodies progressively suffer mechanical stress with the consequent formation of osteophytes. The repeated injuries to the spinal cord, which result in CSM, are caused by both static and dynamic mechanical factors. The combination of these factors affects the spinal cord basically through two mechanisms: direct trauma and ischemia are static mechanical compression, dynamic mechanical compression and spinal cord ischemia Mechanical factor contributes to the development of CSM, which can be divided further into three main types on the basis of pathophysiologic factors. 1) Static mechanical factors result in the reduction of spinal canal diameter and spinal cord compression. 2) Dynamic stress are refer to the abnormal motion of the cervical spine during flexion or extension, which can contribute to spinal cord injury synergistically with static mechanical factors. 3) Spinal cord ischemia occurs when degenerative elements compress blood vessels that supply the cervical spinal cord and proximal nerve roots. Ischemia may result from direct compression of larger vessels such as the anterior spinal artery and overall reduced flow in the pial plexus as well as in small penetrating arteries which supply the cord. The normal motion of the cervical spine may aggravate

spinal cord damage precipitated by this direct mechanical and static mechanical compression. The spinal cord lengthens during flexion, thus stretching over ventral osteophytic ridges.^[8] Ayurveda diagnosis of these problems can be correlated with Manyagatavata. Symptoms such as Bhrama (vertigo) and Bahushosha (weakness and emaciation of upper limbs). All these symptoms are considered in Nanatamaja Vatavyadhi (due to Vata dosha). Vata Dosha is vitiated due to several etiological factors, Margavarana (obstruction in natural course of Vata such as abnormal synthesis of tissues elements) and Dhatukshaya (depletion of body tissue). Manya pradesha (neck region) is mostly associated with changes in cervical vertebral column.^[9] There is degeneration of inter-vertebral disc and lubrication function of Shleshaka Kapha is affected which results in compression, irritation or inflammation in Manya pradesha resulting in pain. And this vitiated Vata leads to Margavarana and Dhatukshaya in vicious cycle and may lead to manifestation of CSM. There is depletion of Sthanika Kapha (localized Kapha Dosha at cervical region) due to vitiated Vata Dosha. Vitiated Pitta and Vata Doshas lead to Bhrama (vertigo). Vitiated Vata and depleted Kapha Dosha may lead to Bahushosha. Brihmana (nourishment) is the treatment for Dhatukshaya. Snigdha (unctuous), Srotoshodhaka (bio of micro-channels) purification Vatanulomaka (correction of function of Vata Dosha) treatment and treatment which is compatible to Kapha and Pitta Doshas was adopted for any Avarana or Margavarodha.^[10] Virechana with Mahatikta Ghruta, Basti with Tikta Ksheera, Guggula; and Rasayana (immunomodulatory) are also indicated for Nanatamaja Vata, Avrita Vata and chronic Vata Vyadhi. Panchakarma procedures and selected Ayurvedic oral drugs were employed according to all above said facts to manage this case of CSM.^[11] Abhyanga with Ksheerabala Taila was adopted. Abhyanga is one of the Bahira Parimarjana Chikitsa (external body oleation) which gives Bala (power) to the body. Dalhana commented that around eight hundred *Matrakala* needed for reaching the medicine up to Asthi Dhatu, so Abhyanga was performed for

around five minutes. After Abhyanga, Swedana was

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performed which are has very effective and give quick result as they act at the site of Samprapti. It increases sweat and brings out Mala Dravyas along with sweat. Also decreases Kleda in the body resulting in the reduction of Gaurava (heaviness) in Urdhvajatrugata.^[12] Nasya karma selected here is of Brimhana variety which successfully helps to counteract the degenerative process by exhibiting Brimhana effect on the part affected.^[13] Greeva Basti is a procedure in which both the properties of Snehana and Swedana are incorporated. Vata Dosha is Sheeta, Ruksha and Greeva Basti being Snigdha (unctuous) and Ushna (hot) in nature alleviates the disease. In Avurveda, brain and spinal cord is considered to be form of Majjadhara Kala (membrane surrounding the bone marrow) Bhrama. Tamahapravesha (temporary vision loss) are also the symptoms of Maija-Pradoshai Vikaras.^[14] Foods and drugs having sweet and bitter properties are indicated in Majja-Pradoshaj Vikaras. Tikta Rasa (bitter taste) is indicated for bone pathology. The drugs selected for Tikta Ksheera Basti are predominantly of Katu, Tikta Rasa, Ushna Virya, Katu & Madhura Vipaka and Tridosha Shamaka properties. Tikta Rasa has Vayu and Aakasha Mahabhuta in dominance. Hence it has got affinity towards the body elements like Asthi having Vayu and Aakasha Mahabhuta in dominance. Though, Tikta Rasa aggravates Vayu which may enhance the pathogenic process of Manyagatavata Vata but, as main principle of Ayurvedic treatment is "Sthanam Jayate Purvam". The main site of Manya is Asthi. And Sandhi which is the site of Shleshaka Kapha. So, by decreasing the Kapha Dosha, Tikta Rasa fulfills the principle.^[15] Ashvagandha has Rasayana and Balya (anabolic) properties. Kavach Beeja Churna balances Vata functions and acts as vigor.^[16] Combination and properties of the drugs in Amruta Guggula has efficiency in clearing the Margavarana. Guggula, Guduchi, and Triphala are the chief ingredients. It also has Rasayana properties.^[17] Ekangaveera Rasa is effective in Vatakaphaja disorders and Pakshaqhata (hemiplegia). Bruhatvatachintamani Rasa is the Kharaliya Swarna Kalpa which is used in various Vata Dosha imbalance diseases such as Paralysis, Hemiplegia, Facial palsy,

Tremors, Vatapittakruta Roga, it is act on body as well as mind.^[18] Virechana is aimed mainly for the elimination of Pitta Dosha, it also influences Vata and Kapha Dosha elimination. Hence many times it is prescribed as general line of treatment for Vata Vyadhi. Chaturbhurja Rasa acts as a nerve tonic. Along with this various non-surgical strategies have been in use such as cervical traction, cervical immobilization (collar or neck brace), skull traction and physical therapy. In the case of myelopathy, surgical intervention is necessary. The cervical laminectomy is not appropriate for all patients. It may lead to neurologic deterioration and attributed to a development of latent instability of the spine with development of kyphotic spinal deformities.^[19] This demonstrates the safety profile of multi-ingredient formulation and Panchakarma procedures. Hence this case study is important one as this shows the clinical improvement in cervical spondylotic myelopathy with and Ayurvedic Panchakarma oral medicinal interventions. Later there was no need to use any surgical intervention for this case.

CONCLUSION

The case report validates clinical improvement in a Cervical Spondylotic Myelopathy (CSM) with *Panchakarma* and *Ayurvedic* oral medicinal interventions.



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Figure 3: Movement of both Upper limbs Before and After Treatment

Table 1: Panchakarma Interventions

<i>Panchakarm</i>	Drugs	Methods of	Days of
a Procedures		Application	Treatment
Abhyanga with Ksheerabala Taila	Ksheerabala taila consists of Processed and purified Ksheera	Patient should be seated on the <i>droni</i> (table), with leg extended.	14 Days

	•	(cow's milk) Balamoola (Sida cordifolia) Murcchita Tila taila (Sesame oil)	The taila with optimum temperature should be applied to head, first in the anterior fontanelle and then the whole scalp. Then <i>Karnabhyanga</i> should be done, Palm and <i>Padabhyanga</i> are also done prior to the main process. The taila heated should be applied uniformly by two therapists on both sides of the droni. Start massaging scalp, head and move down to neck, upper back, shoulders, upper arms,		
			shoulders, upper arms, forearms & hands; then chest, abdomen, low back, lower limbs.		
Navana Nasya with Vacha taila Nasya	•	Vacha (acorus calamus) Murcchita tila taila (Sesame oil)	Abhyanga with Dashmoola taila over face followed by <i>Mridu</i> <i>swedana</i> . 6 drops of Vacha taila administered in each nostrils followed by Dhoomapana.	14 Days	
Virechanarth	•	Virechanart	Virechanartha	7 Days	

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a Cachanana	ha	Cachanana		1		120ml		
u Shenapana with	nu Spehanana	with Mahatikta				120111		
Mahatikta	with	abruta for A				 Kalka- 		
Ghruta	Mahatikta	consecutive				Shatapushp		
Ginata	Ghruta for A	davin				a (10gms) +		
	consecutive	increasing dose				Yastimadhu		
	day in	from Dav1-				(10gms)		
	increasing	30ml to Day 4 -				Panchatikta		
	dose from	120ml				ksheera		
	Dav1- 30ml	1201111.				naka -		
	to Day 4 -	Afterwards 2				300ml		
	120ml	days of						
		Swedana and				2) Anuvasana		
	• Virechana	Snehana given.				Basti –		
	Trivrutta	At 7 th day				Panchatiktaka		
	avaeha	Virechana				ghrita -		
	<i>kalpa</i> at last	Trivrutta				120ml		
	day of	Avleha Kalpa						
	Virechana ,	was given and			Greeva basti	Dashmoola Taila	The person	14 Days
	кагта	patient was				Ingradiants	undergoing	
		advised to take				ingreatents-	<i>Greeva Basti</i> is	
		rest with close				 Bilva (Aegle 	made to lie	
		observation of				marmelos),	face down on	
		number of				Shvonaka	the massage	
		defecation				(Oroxylum	table. The	
		achieved.				indicum).	dough is	
				-			prepared out	
<i>Basti</i> with	Ksheerpaka	Anuvasana	10 Days			 Gambhari 	of black gram	
Tiktaksheera	dravya	<i>basti</i> given				(Gmelina	flour or whole	
Basti	Guduchi	with				arborea),	wheat flour. It	
		Panchatiktaka				 Patala 	is then made	
	 Vasa 	Ghrita				(Stereosper	into a small	
	 Nimba 	on the first				mum	ring of four to	
		day, followed				suaveolens),	five inches in	
	 Patola 	by Panchtikta				Agnimantha	diameter	
	 Kantakari 	ksheera				- Ayninuntinu (Prompa	which is placed	
	(10grame)	1I				(Frennu mucronata)	over the neck	
	(40grains +	basti in the				macronata),	to cover all the	
	(300ml) + Water	morning ,atter				 Shalaparni 	vertebrae of	
	(1280ml) –	Sarvanga				(Desmodiu	the neck and 2-	
	(1200m) =	Abhyanaga				т	3 vertebrae or	
	Ksheeraysesha)	with <i>Murchita</i>				gangeticum		
	Kinceruvicinaj	tila Taila,),	is glued with	
	1) Basti	Followed by				Prishniparni	some water to	
	formulation:	Nadi sweda In				(Uraria	make it leak	
	Madhu-	the afternoon				picta),	proof	
	80ml	Anuvasana				- Duth sati	lukewarm	
		<i>Basti</i> was given				 Brinati Colorector 	medicated	
	 Saindhava- 	for 6days. Last				(Solanum	<i>Taila</i> is slowly	
	TOBMS					inaicum),	poured into it.	
	 Sneha- 	3 days				 Kantakari 	When this	
	Panchtiktak	Anuvasana				(Solanum	cools down it is	
	a ghrita-	Basti was given				xanthocarp	squeezed out	
		to the patients.		1				

eera rasa

Shuddha

Gandhak

Kantaloh

bhasma

Vanga bhasma

Naga

bhasma

а

а

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	um), Gokshura (Tribulus terrestris)	and replaced with warmer one. At the end of the procedure the dough is removed; a gentle massage is given over the area. The person is made to take rest for	
		person is made to take rest for a while.	

Table 2:	Aunoradia		icinel I:-	tonuonti	one		Tamra	Copper						
Table 2:	Ayurvealc			lerventi	UNS		bnasma	саіх						
Name of Drugs	Ingredie nt	Latin Name/	Dose	Anupa na	Days of Treatme		Abhraka bhasma	Mica calx						
		Name			nt		Tikshna Ioha	Iron calx						
Tab Amrutadi guggulu	GuduchiTinospor2 tabLukew1 monthadia500marmfrom theucordifoligwaterday ofaeach,admissio	w 1 month from the r day of admissio w Shunthi Zingiber officinali s												
	Guggulu	Commip hora mukul	a day after meals	ce n ny r als	ice n ay er vals	n	n	n		Maricha	Piper nigrum			
	Haritaki	Terminal ia									Pippali	Piper Iongum		
Vibh Amc Shui	Mikhitalii	chebula	inal ca ca nali per nali			Tab <i>Brihatav</i>	Swarna bhasma	Purified Gold calx	2 Tab 50mg each, twice a day after meal	Go dugdh a (cow's milk)	1 month from the day of admissio n			
	νιρητακι	ia belerica			ata chi ni r	ata chintama ni rasa	Raupya bhasma	Purified Silver						
	Amalaki	Emblica officinali s					Lauha bhasma	calx Purified Iron calx						
	Shunthi	Zingiber officinali s					Prawala bhasma	Coral calx						
	Maricha Piper nigrum Pippali Piper longum		Mukta bhasma	Pearl calx										
		Piper longum	Abhraka bhasma	Purified Mica calx										
	Vidanga	Embelia ribes					Rasasind oora	Purified Mercury						
Tab <i>Ekangav</i>	Shuddha Parada	Purified Mercury	2 tab 125m	Lukew arm	1 month from the	Ashvaga	bnasma Ashvaga	based Withani	1 tsp	Go	1			

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day of

n

admissio

water

g

each,

Twice

a day

after

meals

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Purified

Sulphur

Mangan

ese calx

Tin calx

Lead

calx

churna+ Kavacha beeja churna (in equal doses)	3gm <i>Kavacha beeja</i> 3gm	somnifer a Dunal Mucuna pruriens	equal quant ity, befor e meal	(cow's ghee)	day of admissio n
Chaturbh uja rasa	Mrita Suta	Purified Mercury	2 Tab 500m g	Go dugdh a	After the competiti on of
	Swarna bhasma Shilajatu	Purified Gold calx	each, twice a day after meal	(cow's milk)	Panchaka rma
		Asphaltu m			procedur es
	Kasturika	Musk			
	Tala	Purified orpimen t			
	Kumari	Aloe vera			
	Eranda	Ricinus commun is			

Table 3: Visual Analog Scale (VAS)

Visual Analog Scale (VAS)						
Before Treatment	After Treatment					
60	30					

Table 4: Cervical Range of Movement (CROM)

Cervical Range of Movement (CROM)											
Flexion Extensio n		Lateral Flexion (Lt)		Lateral Flexion (Rt)		Lateral Rotatio n (Lt)		Lateral Rotatio n (Rt)			
Pr e	Pos t	Pr e	Pos t	Pr e	Pos t	Pr e	Pos t	Pr e	Pos t	Pr e	Pos t
25	40	20	45	20	35	15	35	20	45	25	45

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