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A case study report on Spondylosis (Asthimajjagat Vata)

Case Report

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Abstract

Spondylosis is one of the commonest forms of joint disorder. Mostly it comes under concept of Vatavyadhi which mainly occurs due to vitiated vat dosha which is due to dhatukshaya (1) Basically this disease involves asthi and majja dhatu. This disease limits our daily activities such as walking, running, gait up, dressing, cycling, bathing etc.which makes patient disabled or handicapped. It is a kashtasadhya vatavyadhi due to intensive pain and restricted movements of joints. Here we discuss a case report of asthimajjgat vatavyaddhi which is best treated by *ayurvedic* concepts which was described by *acharyas* in *vatvvadhi chikitsa adhyaya*.

Key Words: Spondylosis, Vatavyadhi, Asthimajjagata Vata, Kashtasadhya.

Introduction

Ayurveda is an holistic science of life and also the oldest and greatest surviving medical system in the world. It is based on various true principles. One of the important is Tridosha siddhanta under which a number of diseases are described in samhita granthas. Vatavyadhi is one of the important vyadhi which occurs due to vitiated vata dosha.(2) Followed by this pitta and kapha dosha plays important role in pathogenesis of disease development. Without vata dosha pitta and kapha dosha are helpless. Due to various causative factors in aahara, vihara vata dosha gets vitiated which obstructs various channels (srotasa) inside the body and results into development of two types diseases, one is dhatukshayatmaska vatavyadhi and margavarodhjanya vatavyadhi. Asthi-majjagata vata is one of them which is due asthi-majja kshay. Nirupasatambhit vata is the one of causative factor for dhatukshayatmaka vatavyadhi(3). Spondylosis a painful condition of the spine resulting from the degeneration of the intervertebral discs.occurs at different levels i.e. cervical, thoracic and spinal. It become severe when there is compression of nerve roots with subsequent sensory as well as motor disturbances which leads as pain, numbness and paresthesis, tingling and numbness, muscle weakness in the extremities & then radiculopathy.(4) When cervical vertebrae involved it is as called cervical spondylosis & lumber region verterbrae involved called lumbar spondylosis.

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Case report

A 50 years old female house wife, patient presented with complaints of bilateral upper limb & lower limb tingling and numbness sensation, difficult and painful joint movements since two years, loss of appetite since two months and intermittent constipation. She had no history of any major illness like Diabetes Mellitus/Hypertension/ Ischemic Heart Disease/Epilepsy/ Malaria/Typhoid/ Jaundice/ Blood Transfusion/ Drug allergy.In surgical history there is no any major operative in past. In obstetric history she had two children with normal delivery, G1-Male-45 years, G2-Female-40 years, In gynecological history she was menopause. For above complaints she consulted with orthopaedic and stared with allopathic medicines Tab Enzoflam One in thrice in a day, Tab Gabapentin one in twice in a day, Cap Sompraz D one in day on empty stomach, Tab Calcium one in day with milk, Tab Alprax 0.25mg SOS, Inj Vit D deep intramuscular once in a week, Inj Meganeuron intramuscular alternate day, Rhumacare oil for daily for massage. After taking this allopathic treatment she relived in pain and other symptoms but when stops the above symptoms gradually worsen so for reliving from above symptoms she consulted in Ayurvedic college. On Examination- her vitals were, Pulse- 78/min, regular, Blood Pressure- 130/68 mm of Hg Temp-98ºF, There was no Pallor/ Cyanosis/ Clubbing/ Icterus/ Lymphadenopathy, her JVP was within normal limit. In Systemic Examination-Respiratory System showed clear bilateral air entry, No adventitious sounds, no deformity in chest was found ,Cardiovascular system examination showed first sound (S1) and second heart sound (S2) normal, No murmurs were audible, Per abdominal examination found soft, non tender abdomen in all quadrants, bowel sounds were normal. In neurological examination she was well conscious, well oriented, obeys verbal commands, pupils-B/L normal size reacting to light, her planters reflexes in Right & Left extremities shows flexor response.

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Table 1: In Reflexes examination								
Extremity	Biceps Jerk	Triceps Jerk	Supinator Jerk	Knee Jerk	Ankle Jerk			
Right	++	++	++	++	++			
Left	++	+++	++	+++	++			

(++ - Normal, +++ -Exaggerated)

Neck stiffness was present, Babinski signnegative, while sensory system of joints examination for pain, touch, temperature was within normal limit.

Ashtavidha pariksha(5)

- Nadi- 78/min, regular (Vata-Pita Pradhanta),
- Druk- Dina
- *Mala- Asmayak* intermittent hard stool with tendency of straining
- Akruti- Krusha,(lean)
- *Mutra* Samyak approximately 5-6 times/ day, pale yellow in colour
- Sparsha-Ruksha (dry)
- Jivha- Niram
- Dushta Strotas parikshan-
- *Asthivaha Strotas- Asthi-sandhi shool* (joint pain), *balakshaya, angamarda* (body pain), *daurbalya* (generalized weakness)
- *Majjavaha Strotas- Aswapna* (no dreams), *stabdhata, asthiruja* (bone pain), *Asthi saushirya* (osteoporosis)
- **Purishvaha strotas** Asmayak malapravritti, malavshtambha intermittently (constipation)

Table 2: Local examination of joints

Table 2: 1	Local examination	i or joints	
Joint Name	Right Knee joint	Left Knee joint	
Local temperature	Slightly raised	Slightly raised	
Swelling	No	No	
Crepitation	3	4	
Redness(Rubor)	No	No	
Fluid	No	No	
Angle of flexion	35	30	
Angle of extention	140	160	
	Right Elbow	Left elbow	
Angle of Flexion	Full	Full	
Angle of extension	140	150	
	Present with	Present with	
Palmer grip	normal	normal	
	Cervical Joint		
	Inspection		
Alignment in sagitta	No		
(e.g., kyphotic cervi	INO		
Prior surgical scars	No		
nerve transposition			
surgery)			
Muscle atrophy (e.g	No		
decrease deltoid and		140	
	Palpation		
Local tenderness on	Present		
Asymmetric	No		
	OM (range of Motio	on)	
Flexion	30		
Extension	40		
Rotation	35		
Lateral bend	35		

eport on spondytosis	Motor Examination				
Primary motion	Primary muscle	Innervation and nerve root involment			
Scapular stabilization	Serratus muscle	Long thoracic nerve (C4)-mild involvement			
Shoulder abduction		Axillary nerve- mild involvement			
Shoulder internal rotation	Subscapularis muscle	Subscapular nerve- mild involvement			
Shoulder external rotation	Infraspinatus muscle	Suprascapular nerve- mild involvement			
Elbow flexion (palm up)	Biceps & brachialis muscle	Musculocutaneous nerve- mild involvement			
Elbow flexion (thumb up)	Brachioradialis muscle	Radial nerve- Moderate involvement			
Wrist extension	Extensor carpi radialis longus muscle	Radial nerve- Moderate involvement			
Wrist supination	Supinator muscle	Deep branch Radial nerve- Moderate involvement			
Elbow extension	Triceps muscle	Radial nerve- Moderate involvement			
Wrist flexion	Flexor carpi radialis & Planter nevre	Median nerve- Moderate involvement			
Wrist pronation	Flexor pollicis longus, and Pronator quadratus.	Median nerve- Moderate involvement			
DIP Finger	Flexor digitorum profundus	Ulnar nerve & Anterior interosseous nerve - Moderate involvement			
Thumb extension	Extensor pollicis longus muscle	Posterior interosseous nerve - Moderate involvement			
Finger abduction	Interossei muscle	Deep branch ulnar nerve- Moderate involvement.			
	Sensory system				
Touch		Within normal Limit			
Temperature Pain	Lumbar Joint				
Flexion	Dumbai Jumi	Unable to perform			
Extension	5-6 degree				
Lateral Flexion	20-30 degree				
Sensory system					
То					
Tempe	Within normal Limit				
Pain					

Xray cervical spine

Loss of curvature of cervical spine with degenerative changes at C1-C7 vertebra.



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Xray lumbar spine

Loss of curvatures of lumbar vertebrae with lordosis and degenerative changes. Osteoporosis of lumbar vertebras.

MRI Spine-

Loss of cervical lordosis. Diffuse bulging is seen at level of C3-C4 intervertebral disc resulting into cervical cord compression with posterior thickening if longitudinal ligament. There is deformity notes at dorsal spine where convexity present at right side. At the level of D3-D6 ligamentum flvam hypertrophy is noted. Lumbar lordosis is noted with bulging and desiccation at L1-L4 levels.

Laboratory Investigations

HMG- Hb- 12.4, WBC-4305, PLT-164000, ESR-28 BSL-F-80, PP-110, Rheumatic factor (RA)-Negative Sr. calcium -12, Urine Examination – WNL,ASO titre-Negative, Uric acid level-5.0,ECG – Sinus Rthym.

With all above investigations Diagnosis (*Vyadhi nidan*) was made as Cervical and Lumbar Spondylosis with degenerative changes while in point view of *ayurved* diagnosis was made as *Asthimajjgata vata*.

Nidan panchak

- a) Hetu (causes)-Considering point of sannikrishta hetus (causes) threre is excess lifting of things, ruksha ahar (dry food), excess chankraman,ativyayam, Various bad postural habits in sitting, similarly in viprakrushta hetusvardhakya(old age) is primarily considered.
- **b) Purvaroop-**Started with tingling and numbress in all extremities
- c) Roop (symptoms)-generalized weakness, difficult in gait, joints of all extremities become stiff, pain
- d) Samprapti (pathogenesis)



Figure 1: Showing the samprapti

e) Treatment and outcome (Chikitsa)

As per Samprapti of dhatukshayjanya vatavadhi i.e.asthimajjagat vata (spondylosis) is due to asthi saushirya (osteoporosis). Which is due to sarakta majja kshay due to vitiated vata¹ So as per etiopathogensis (samprapti) the asthivaha strotas & vat vrudhi are important factors so in the plan of treatment, So treatment plan is divided in two parts 1) Shodhan chikitsa2)Shaman chikitsa for 3 weeks

Shodhan Chikitsa

- Snehan Bala ashwagandha taila + Mahamash tail
- Swedan- Pinda sweda with shalishastikTandul
- Basti- Anuwasan and Niruha basti Vyatyasat A/N/A/ N/A/N/A followed by
- Panchatiktak kshirabasti-total 230ml

Shaman Chikitsa

- Mahayograj guggulu(5) 250mg 2 thrice in day ds before food, Ashwagandha ghanavati 250mg 2 tablets thrice in day before food,
- Vatahar yog 3gm+Eranda sneha 10ml nisha kala(at night),
- Shatavaryadi ghrita 30 ml on empty stomach,
- Baladi kshirapaka 30 ml twice in day before food

Lepa-dashang lepa in day time.

Pathya

- Avoid casutive factors
- Aharaj- Snigdha, madhur rasatmak, guru anna sevan, mug dal, ghrita, dugdh, luke warm water;
- Viharaj-, Excess travelling, No lifting of heavy weight, *divaswap*, proper sleep in night.

Observation		1st wk	2nd wk	3rd wk			
SLR Test	day						
Right Leg	40	60	80	80			
Left Leg	50	70	80	80			
Both limbs	30	35	40	60			
Knee joint	Right	Left	Right	Left			
Angle of flexion.	40	40	40	30			
Angle of Extion.	160	160	160	160			
Elbow joint	Right	Left	Right	Left			
Angle of flexion.	full	full	full	full			
Angle of Extension.	150	150	150	150			
Walk	Painful	Able	Stand with	Walk with			
	and	walk,	support	help of			
	restricted	Joints	Walk	walker			
	to walk	Movemen	improved				
		ts slightly	Pain				
		improved	decreased				
		with	significant				
		decreasing	ly				
		pain					
Cervical Joints/Lumbar Joints							
Tingling and	+++	++	+	+			
Numbness							
Pain	++++	++	+	+			
Stiffness	++++	+++	++	+			
Movements		nprovement					

Table 3: Treatment result

(+++) = Severe pain, (++)=Moderate pain, (+)=Mild pain

Discussion

Number of patients suffering from *asthimajjagatavata* is quite high because of today's life style. In *ayurveda asthimajjagatvata* is described under



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heading of *vatavyadhi* and any type of pain cannot be present without presence of *vatadosha*.In present case scenario the action of drugs is as follows

- *Bala Ashwagandha Tail* (7) One of favorite herbo mineral combination of oil which is used as external massage application which helps in pacifying for vitiated *vata dosha lakshans*, The base for this oil is blend which helps promote muscle strength and support to develop muscle tone. The combination of herbs helps is nourishing for the muscles and tissues of bones i.e.osteoporosis. While bala herbs helps to support energy and the nervous system, also calms the nerves and pacifies vata dosha which helps in reducing the *dhatukshayajnya lakshans of vatavyadhi*.
- *Mahamash Taila* (8) It is a very powerful oil used for various neurological condition including peripheral nervous system.Masha means black gram the important ingrident of this oil.his oil is helpful in reducing pain of multiple joints which is due to vitiated *vata dosha* in this oil the herbs are basically prepared in seasame oil with *kwath* i.e. decoction then the solid waste thrown out and remaining oil contains only oil base as well water base phytoactive principles of the herbs. After application of this oil over the skin and joint helps in reducing the symptoms if *sandhishoola*, *graha(stiffness)*, which is due to vitiated *vata dosha* can easily pacifies and strengthen the tissues and muscle.
- *Pinda Sweda with shalishastik tandul* It is one of the famous type of *swedan* for *vatavyadhi*.chikitsa. In *pinda sweda* it contains *Shali* (i.e.rice) which is boiled. It is used in the form of *pinda* and packed in piece of cloth. Then herbomineral preparation of decoction is prepared with milk then *swedan* was given over all body which helps in reducing the vitiated *vata dosha gunas* like *rukhsa,laghu, chala sheeta guna* and improves the muscle strength as well as reduces pain of lumbar as cervical region joints. It also increases the tone muscles and nutrition of muscles related with joints.
- Basti Basti or enema is one of the best treatment in Vatavyadhi(1).In Asthi majjagata vata diseases chikitsa here we used anuvasan basti with Dashamoola taila in 6oml and niruha basti 960ml in alternate days for 11 days which acts as vatanuloman karma from intestine relieves constipation and helps in apan vayu for its proper adhogati and karma and then started with Panchatiktak basti 260ml which for 10 days. Panchatiktak basti contains kantakari, nimb, patol, guduchi, vasa herbs which are all of tikta,katu rasa(taste) dravyas, and ushna veerya (potency) & after preparation of this decoction with milk it forms kshirpak with addition of ghrita after giving enema for in intestine it pacifies the vatadosha lakshanas and do vatashaman karma. The tikta guna of drvyas acts as pachan karma and as well as dhatvagni vardhan karma which increases asthi dhatvagni and helps in generation of good forms of asthi dhatu and that stops asthi kshay(osteoporosis). Also the sneha that means milk and ghrita also do vatashaman karma

due to its intellectual properties and do *bruhan karma* of *asthi dhatu*.

- *Mahayogaraja guggulu* (9) It is a very famous classical medicine used in relieving symptoms of various *vyadhi* (diseases) caused by vitiated vata dosha, specifically those which are associated with severe depletion of body tissues that is called ad *dhatu kshaya and due to its balya* properties that means strength promoting and *rasayana* effects (rejuvenating).
- Vatahar yoga with erand sneha Vatahar yoga is best yoga which contains rasna eranda, amrita, ashwagandha, balamula, punarnava, gokshu, shatavari shunthi,. This comnation of herbomineral preparation with errand sneha acts as *snhayukta virechana*. (purgation) which do *vatanuloman and purish shodhan karma* and helps in pacifying the vitiated vata dosha.
- *Shatavaryadi ghruta* It contains *shatavari, jivaniya gana,bala,rasna* etc. which acts as good quality of *balya* as well as *brihan* and *vata shamak* which helps in *samprati vighantan*.
- Baladi kshirpaka Bala,rasna,eranda ashvagandha, guduchi,shatavari, masha,devdaras are used in the preparation of kshirpaka which help us in the maintenance of mansa & asthi dhatu. so They pacifies vata vrudhi & do bruhan karma of asthi dhatu.

In this way after using this regimen as per suggested by *acharya*, in third week we found excellent result in decreasing symptoms of Spondylosis (*asthmajjagata vata*.) Patient got excellent result in their joint problems along with improvements.

Conclusion

Ayurveda treatment in the form of *shodhana shaman*, and internal medicines is a good alternative option in the management of such painful condition.

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