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Understanding the Asthyashraya Vyadhi - in the view of Asthishula Chikitsa

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ABSTRACT

Understanding the Asthyashraya Vyadhi is mandatory when a physician wants to treat the diseases related to Asthi. Hetu Gnana is obligatory in planning the Chikitsa. Ashraya-Ashrayee Sambandha of Dhatu & Dosha also acts as a prime factor in employing the appropriate treatment for the specific Vyadhi . In the process of treatment of Asthi Shula such as Katishula and Janu Sandhi Shula, the specific treatment/ therapy is required so that the treatment given at the root would give complete relief for the patient. Understanding the disease at the level of Dhatu Pradosha would become the right path in planning the specific treatment. Approaching Asthi Shula through the Dhatu Pradoshaja Vikaras would be more appropriate. The Chikitsa of Dhatu Pradoshaja Vikara corrects the Mula Dhatu Asthi, thereby the treatment of Asthi Shula would become complete.

Key words: Asthyashraya Vyadhi, Asthishula, Katishula, Janushula, Dhatu Pradoshaja Vikara.

INTRODUCTION

There are many ways of understanding the diseases and planning the treatments for them. Understanding Vyadhis based on the classification is one method. Vyadhis are divided considering the factors such as Mruduta - Darunata ; Guruta - Laghuta ; Utthana -Gambhirata ; Bala - Sthana etc. of the Vyadhis. Ultimately, all the Vyadhis involve Doshas. Dosha is the destruction of the Vyadhi i.e. Samvata Arogata. Dosha Vaishamya involves either Dosha Vriddhi or Dosha Kshaya. Doshas take shelter in Dhatus, in turn vitiate Dhatus. The vitiated Dhatus produce numerous diseases. Instead of treating the

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diseases individually, if the main *Dhatu* related to the disease is treated, the treatment would win over all the diseases related to the respective Dhatu. In the present article, in view of treating the Katishula and Janushula i.e. forms of Asthishula, an attempt is made to understand the related Dhatu Vikara i.e. Asthyashraya Vyadhi.

MATERIALS AND METHODS

Ayurveda classical texts, particularly Brihattrayee.

Shareera is made up of Dosha, Dhatu and Mala. Among these three, *Dhatu* beholds strength & energy and gives sustenance to Shareera (Dharanat dhaatavaha). Dhatus become Ashraya for Doshas which carry out their respective functions for the maintenance of life in Shareera. Thus Dhatu s become 'Ashraya' and Dosha s become 'Ashrayee'. The Dosha, i.e. Ashrayee and Dhatu, i.e. Ashraya are inter related closely in such a way that, if Ashrayee is increased, Ashraya gets enhanced and if Ashrayee is decreased, Ashraya gets depleted. This is the general rule. Vayu, the Ashraya Dosha takes shelter in Asthi Dhatu, i.e. Ashrayee; There is exception for the Vata Dosha & Asthi Dhatu.^[1] If Vata Dosha increases, Asthi Dr. Madhumalathi BV et al. Understanding the Asthyashraya Vyadhi - in the view of Asthishula Chikitsa

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gets depleted and if *Vata Dosha* decreases, *Asthi* is nourished.

Asthyashrayavyadhis are those diseases which take shelter in the skeletal system, alter the natural structure & functioning of the bones leading to several disorders. The Nidana Panchakas i.e. Nidana, Purvarupa, Rupa, Upashayaanupashaya and Samprapti of Asthyashraya Vyadhi need to be understood before planning the treatment.

Nidana

Main causative factors for the occurance of *Asthyashrayavyadhis*^[2] are:

- Ati Vyayama: Ati Vyayama is that activity which is carried out beyond one's capacity. Doing Vyayama even after sweating on forehead by a person is considered as 'Ati Vyayama'.
- 2. Ati Sankshobha: Excessive movement of Asthi / Asthi Sandhis is understood as Ati Sankshobha.
- Ati Vighattana of Asthi: Unusual or additional movements of Asthi / Asthisandhi is Ati Vighattana of Asthi.
- 4. Vaatala Ahara and Vihara: Food and activities which increase Vata Dosha are termed as Vatala Ahara and Vihara.

The overall *Nidanas* are classified and tabulated as below,

Table 1: Showing overall Nidanas of AsthyashrayaVyadhi.

Aharaja Nidana	Viharaja Nidana	Manasika Nidana	Anya Nidana (Viprakrishta Nidana)
Katu Rasa	Ati Vyayama	Chinta	Dhatu Kshaya
Tikta Rasa	Langhana	Shoka	Margaavarana
Kashaya Rasa	Plavana	Krodha	Ati Mamsa Kshaya
Rooksha	Atyadhwa	Bhaya	Asrik Kshaya
Laghu	Pradhavana		Rogaatikarshana

Sheeta	Pratarana	Kshudhitambupar a
Alpabhojana	Atyuccha Bhashana	
Abhojana	Balavadvigrah a	
<i>Vallora</i> (dry meat)	Abhighata	
Shushka Shaka	Marmaghata	
Uddhalaka	Bharaharana	
Neevara	Dukha Shayya	
Mudga	Sheegrayana	
Chanaka	Prapeedana	
Masura	Atyadhyayana	
Harenu	Ati Vyavaya	
Kalaya	Ati/ Ratri Jagarana	
Trunadhany a	Vega Dharana / Udeerana	
Virudaka Dhanya	Vishamopach ara	
	Sahasa Karma	
	Upavasa	
	Purovata Sevana	
	Divaswapna	

Poorvarupa

- There is no specific Purvarupa for Asthyashraya Vyadhi.
- Purvarupa of Vatavyadhis are not expressed; they are Avyakta. Chakrapani comments that, "Avyaktam" means 'Laghuta' of disease.^[3]

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 Vijayarakshita states in Madhava Nidana, "Na Ati Abhivyakta" - the symptoms which are not manifested completely or not exhibited completely are the Purvarupa.

Thus mild recurrent backache, slight stiffness of joints with mild joint pain, sudden pain of bones on lifting weight or bending down etc. may come under premonitory symptoms of *Asthyashraya Vyadhi*.

Rupa

Rupa mentioned in prominent *Brihat Samhitas* are tabulated as below:

Asthi Kshaya and Vikruta Asthivriddhi Lakshanas are considered under Asthyashraya Vyadhis by most of the Samhitas.

Table 2: Showing Rupa of Asthyashraya Vyadhiaccording to different Acharyas.

Rupa	C.S	s.s	А.Н	A.S
Adhyasthi	+	+	-	-
Adhidanta	+	+	-	-
Asthibheda	+	+	-	-
Asthishula	+	+	+	+
Asthitoda	-	-	+	-
Kesha, Loma, Smashru, Nakha Vikara	+	+	-	-
Sandhishula	-	-	+	+
Sakthi Shula	-	-	+	+
Teevra Balakshaya	-	-	+	+
Deha Rukshata	-	+	-	-
Danta, Nakha Bhanga	-	+	-	-
Danta, Kesha, Nakha Shadana	-	-	+	-

Upashaya- Anupashaya

Upashaya (Pacifying factors)

 Vatadosha is the Ashrayee that resides in Asthi Dhatu, 'Vata Prakopana Viparyaya' Ahara & Viharas pacify the Doshas in Asthi Dhatu. Thus, Vata Prashamana Ahara and Vihara act as Upashaya for Asthyashraya Vyadhi.

- Ahara should be predominantly consisting of Madhura, Amla and Lavana Rasa along with Snigdhaguna.
- Residing in a Nivata Sthana, Pravarana , Veshtana, Bandhana, Abhyanga, Avagaha etc.^[8]

Anupashaya (Aggravating factors)

All the factors responsible for Vatadosha Vriddhi aggravate the Asthyashraya Vyadhis.

- Vatala Ahara: Ruksha, Sheeta, Laghu, Katu-Tikta-Kashaya Rasa Pradhana Ahara Dravya Sevana etc.
- Vatala Vihara: Ati Vyayama, Ati Vyavaya, Ati Jagarana, Chinta, Shoka, Krodha, Vega Dharana etc.

Samprapti Ghatakas

- Nidana : Vata Prakopaka Nidana
- Dosha : Vata
- Dushya : Asthi Dhatu; Upadhatu and Malas of Asthidhatu.
- Srotas : Asthivaha.
- Srotodushti : Sanga, Vimarga gamana, Atipravritti.
- Agni : Jataragni and Dhatvagni Mandyata
- Doshagati : Marma Asthi Sandhi^[9]
- Rogamarga : Madhyama^[10]
- Udbhavasthana : Pakvashaya
- Adhisthana : Asthi/ Sandhi/ Kesha/ Danta/ Nakha

Vyavacchedaka Nidana

The *Prakupitavata* produces various types of diseases depending on the *Hetu* i.e. 'causes' and the *Sthana* i.e. 'place of manifestation' of the diseases.

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Table 3: Showing Vata Prakopa in Inter-related Dhatus.^[11]

Factors	Medodhatu Gata Vata	Asthidhatu Gata Vata	Majjadhatu Gata Vata
Shula Swarupa	Dandamushtihata m i.e.Pain of the whole body as if hit by big stick or fist	Asthiparva Bheda i.e.breaking type of pain in the joints Santata Ruk i.e.continuou s pain of joints.	Asthiparva Bheda i.e.breaking type of pain in the joints Santata Ruk i.e. continuous pain of joints
Shula Sthana	Not particular to joints; pain all over the body present.	Sandhi Shula i.e.pain of joints especially weight bearing joints.	Sandhi Shula i.e. pain of joints especially involving long bones.
Nidra	Not disturbed	Aswapna i.e. sleeplessness	<i>Aswapna</i> i.e. sleeplessnes s
Other Lakshana S	Shrama i.e. tiredness. Anga Gourava i.e.heaviness of body. Anga Toda i.e.pricking sensation of the body	Mamsa Bala Kshaya i.e. weaknesss of muscles.	Mamsa Bala Kshaya i.e. weaknesss of muscles.

Table 4: Showing Vata Prakopa in Inter-relatedDeha-Avayavas.

Factors	Snayu Gata Vata	Siragata Vata	Sandhigata Vata
Shula	-	<i>Mandaruk</i> i.e. mild bodyache	Prasaranaakunch ana Savedana Pravritti i.e. pain during flexion & extension of joints

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Shotha	-	Shopha i.e. slight swelling of the body	Vatapoornadruti Sparsha Shotha i.e. swelling of joints as if filled by the air.
Roga Anubandh a	Manifestation of diseases such as, Bahyaayaama , Abhyantaraay aama, Khalli, Kubjatwa, Sarvanga Vata, Ekanga Vata	Shoshana i.e. emaciated body Spandana, Supti of Sira i.e. pulsatile & numbness of veins	-

Considering the above points of *Vyavacchedaka Nidana*, it can be concluded that, the *Prakupita Vata* taken shelter in *Asthidhatu* produces the specific *Lakshanas* such as continuous pain in bones & joints i.e *Asthishula*; breaking pain in bones i.e. *Asthibheda*; severe tiredness i.e. *Balakshaya* and Sleeplessness i.e. *Anidrata*.

Upadrava^[13]

Sandhichyuti, Kunchana, Kubjatha, Angasamshosha, Pangutwa are the possible Upadravas which show poor prognosis.

DISCUSSION

The science of Ayurveda views the diseases from their basic root of origin. Ultimately, all the diseases should be categorized under the 7 basic components that are responsible for the creation of the body, known as *Sapta Dhatus. Asthi* is the deep seated *Dhatu* proved to be the supporting pillar of the body. *Asthyashraya Vyadhi* is the disease affecting the *Asthi Dhatu*. All those diseases which take *Ashraya* in *Asthi* come under the heading of *Asthyashraya Vyadhi*. Before treating, *Asthyashraya Vyadhi* has to be studied conceptually, so that the *Chikitsa Siddhanta* can be understood and applied with perfection.

Ahararasa is the Moola for Sapta Dhatu Nirmana. Asthi is formed on 20th day after the intake of Ahara. In the process of 'Dhatu Sneha Parampara'^[14] i.e. the

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chronological formative heritage of Dhatus one after the other, 'Medas' the softer preceding Dhatu gives rise to 'Asthi' the hardest of all Dhatus. Kharatwa of Asthi Dhatu is brought about by the action of Asthidhatwagni. By the Sanghata of Prithwi, Agni and Vayu Mahabhutas, 'Shoshana' Karma takes place i.e. drying out the Dravatva / Kledata of Medas to get modified as harder Asthi.[15] The Dharana Karma of Asthi is mainly supported by the Jaghana or the entire hip region, which balances the upper and lower parts of the body. Jaghana gets affected when Asthivaha Srotodushti occurs. During old age, when degeneration of Asthi Dhatu occurs, primary site of affection is the entire Hip region / Jaghana. It is evident that the neck of femur, the prominent bone of Jaghana Pradesha is most frequently fractured in old age. Even the Basti Chikitsa given is nearer to the Jaghana Pradesha, and it is the specific Chikitsa in treating Asthi related diseases. Therefore, Jaghana is righteously considered as Moola of Asthivaha Srotas.^[16]

Prakupita Doshas get collected in the Asthivaha Srotas by means of Srotodushti Prakaras such as Sanga, Atipravritti or Vimargamana. Due to Nidanas like Ativyayama, Atisankshobha, Asthi Vighattana and due to Vatakara Ahara & Viharas, Asthivaha Srotodushti takes place which is characterized by either Vriddhi or Kshaya of Asthi Dhatu.

Doshas lodged in *Asthi Dhatu* are not so easily removed because of following reasons.

- Since Asthi is the Gambheera Dhatu.
- Among the three Rogamargas, Asthi is included under Madhyama Rogamarga which is difficult to treat.
- Doshas that have taken shelter in Asthi need well planned specific treatment for their removal. This is the reason behind Charakacharya's unique design of Tikta Ksheerabasti in Asthyashraya Vyadhi.^[17]

Rupa of Asthyashraya Vyadhi

Adhyasthi

Adhyasthi can be understood as the unhealthy growth or remodeling of the Bone called as

Osteophytes, when *Asthi* undergoes stress as seen in *Ativyayama, Atisankshobha* or injury (*Asthi Vighattana*). Usually, these Osteophytes / Bony spurs are formed marginally in the joints of Bones. Bone spurs cause pain when rubbed or pressed against the surrounding tissues.

Asthibheda

Breaks or cracks observed in Bones are another form of expression of *Asthyashraya Vyadhi*. Increased *Rukshata* and *Shushkata* due to *Vatavriddhi* causes breaks/cracks in Bones or Teeth.

Asthishula

Pain in the affected Bone is the *Pratyatma Lakshana* often observed in *Asthyashraya Vyadhi. Asthishula* is the result of *Vatadosha* being lodged in *Asthi* or it may be due to degenerated *Asthi*. When the activities such as walking, climbing, squatting, stretching, lifting weights etc. are carried out in excess, disproportional to the nourishment of *Asthi Dhatu*, it results in the depletion of *Asthi*. Hence, *Asthishula* is often expressed in *Kati, Janu, Prishta, Greeva, Amsa* etc. most commonly used *Asthi Sandhis* in such activities.

Asthitoda

Asthitoda, the pricking pain in Asthi is also one of the Rupa of Asthyashraya Vyadhi, as told exclusively in Ashtanga Hridaya Samhita. Severity of the Vyadhi may present this Rupa.

Adhidanta

The extra unusual growth of Teeth is also one of the *Rupa* of *Asthyashraya Vyadhi*. *Danta* is the *Upadhatu* of *Asthi Dhatu*, therefore abnormal growth is also seen in Denture.

Dantashula & Dantabheda

Because of the under nourished *Asthi Dhatu*, its *Upadhatu Danta* also undergoes degeneration.

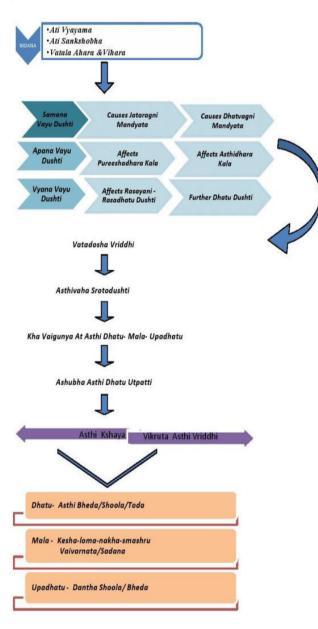
Vivarnata & Sadana of Kesha, Loama, Nakha, Smashru

Discoloration of Nails/ Hairs and fall of Hairs on Scalp/ body, of Nails, of Moustache are other *Rupa* of

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Asthyashraya Vyadhi . Kesha, Loama, Nakha & Smashru are the Asthi Malas which also exhibit the Rupa of Asthyashraya Vyadhi .

Illustration 1: Showing *Samprapti* of *Asthyashraya Vyadhi*



Upashaya

Control over *Vatala Ahara* and *Vihara* are the factors of comfort.

Anupashaya

The activities involving excess movements of *Asthi*, giving stress to *Asthi*, usage of *Vatala Ahara & Vihara* are the triggering factors.

CONCLUSION

Asthi is the deeper Dhatu which has its Utpatti mula as Medas and Jaghana. Subsequent formation of Sapta Dhatus depends on each person's Kayagni and hence enhancement of the Kayagni is required for the proper formation of Asthi Dhatu. Asthyashraya Vyadhi is characterized by Asthi Dhatu Vikruti based on 'Ashrayashrayee Sambandha' mainly depending on increased Vata Dosha either by Ahara or Vihara. Contribution of Viharaja Nidanas such as Ativyayama, Ati Sankshobha and Vatala Viharas are more in Asthyashraya Vyadhi. Asthishula is one of the Pratyatma Lakshanas of Asthyashraya Vyadhi expressed very commonly in Kati and Janu due to repeated stress imposed on them. As Asthi is the Gambheera Dhatu, Asthyashraya Vyadhi Chikitsa involves Panchakarmas especially Basti. Kharatva / Hardness of Asthi requires the combination of both 'Snigdha and Shoshaka' Dravyas.

REFERENCES

- Pt. Hari Sadashiva Shastri Paradakara, editor; Commentaries Sarvangasundara of Arunadatta & Ayurvedarasayana of Hemadri; Ashtanga Hridaya of Vagbhata; Sutrasthana, Doshadivignaneeya, Chapter 11, Verse 26-27; Varanasi: Choukhamba Surbharati Prakashan,2017; P.no.186
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Vimana sthana, Srotasam Vimanam, Chapter 5, Verse 17; Varanasi: Choukhamba Surbharati Prakashan, 2017; P.no.251
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Chikitsa sthana, Vatavyadhi chikitsitam, Chapter 28, Verse 19; Varanasi: Choukhamba Surbharati Prakashan, 2017; P.no.617
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Sutra sthana, Vividhashitapitiyam, Chapter 28, Verse 16; Varanasi: Choukhamba Surbharati Prakashan,2017; P.no.179
- Vaidya Yadavji Trikamji Acharya and Narayan Ram Acharya Kayatirtha,editor; Commentary Nibandha Sangraha of Sri Dalhanacharya; Sushruta Samhita of Sushruta;Nidanasthana, Vatavyadhi nidanam, Chapter 1, Verse 28; Varanasi: Choukhambha orientalia,1992; P.no.261

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- Pt. Hari Sadashiva Shastri Paradakara, editor; Commentaries Sarvangasundara of Arunadatta & Ayurvedarasayana of Hemadri; Ashtanga Hridaya of Vagbhata; Sutrasthana, Doshadivignaneeya, Chapter 11, Verse 19; Varanasi: Choukhamba Surbharati Prakashan,2017; P.no.185
- Dr. Shivaprasad Sharma, editor; Commentary Shashilekha by Indu; Ashtanga Sangraha of Vriddha Vagbhata; Sutrasthana, Doshadi vignaneeya, Chapter 19, Verse 9; Varanasi: Chowkhamba Sanskrit Series Office, 2016; P.no.150
- Vaidya Yadavji Trikamji Acharya and Narayan Ram Acharya Kayatirtha,editor; Commentary Nibandha Sangraha of Sri Dalhanacharya; Sushruta Samhita of Sushruta; Chikitsasthana, Vatavyadhichikitsitam, Chapter 4, Verses 21-26; Varanasi: Choukhambha surbharati prakashana, 2018; P.no.422
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Sutra sthana, Kiyantahshirasiyam, Chapter 17, Verse 113; Varanasi: Choukhamba Surbharati Prakashan,2017; P.no.105
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Sutra sthana, Tisraishaniyam, Chapter 11, Verse 48; Varanasi: Choukhamba Surbharati Prakashan,2017; P.no.105
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Chikitsa sthana, Vatavyadhi chikitsitam, Chapter 28, Verse 32-33; Varanasi: Choukhamba Surbharati Prakashan,2017; P.no.617
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Chikitsa sthana, Vatavyadhi chikitsitam, Chapter 28, Verse 35-37; Varanasi: Choukhamba Surbharati Prakashan, 2017; P.no.617, 618

- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Chikitsa sthana, Vatavyadhi chikitsitam, Chapter 28, Verse 72-74; Varanasi: Choukhamba Surbharati Prakashan, 2017; P.no.620
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Chikitsa sthana, Grahani *Dosha* chikitsitam, Chapter 15, Verse 16; Varanasi: Choukhamba Surbharati Prakashan, 2017; P.no.514
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Chikitsa sthana, Grahani *Dosha* chikitsitam, Chapter 15, Verse 30-31; Varanasi: Choukhamba Surbharati Prakashan,2017; P.no.515
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Vimana sthana, Srotasam Vimanam, Chapter 5, Verse 8; Varanasi: Choukhamba Surbharati Prakashan,2017; P.no.250
- Vaidya Yadavji Trikamji Acharya, editor; Commentary Ayurveda Deepika of Sri Chakrapanidatta; Charaka Samhita of Agnivesha; Sutra sthana, Vividhashitapitiyam, Chapter 28, Verse 27; Varanasi: Choukhamba Surbharati Prakashan,2017; P.no.180

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