Classical Review on Asthikshaya and Its Chikitsa

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Abstract: Ayurveda has emphasized on samata and vishamata of dhatu while mentioning the definition of health as well as disease. Here, dhatu means rasadi dhatu, vatadi dosha as well as mala. Hence, a state of equilibrium of all dhatu is health and vaishyam i. e. disturbance in this equilibrium is called disease. Vaishamya can occur in two ways- (i) Vriddhi – increase (ii) Kshaya – decrease. Asthikshaya is the condition where there is a decrease of Asthidhatu. Asthikshaya is occur due to Abhava of poshana bhava by Dhatvagimandya vypara. Asthikshaya lakshana was explained in almost all the Ayurvedic classical text book. Asthikshaya is one of the lakshana of Majjakshaya. Asthikshaya lakshana like Asthibheda, dhanta, kesha, nakha vikara and Patana etc. Acharya Charaka has explained Asthikshaya while explaining 18types of Kshaya. According to Dalhana Commentatator the meaning of kshaya is "Swapramana haani". In classical text book there is no separate Nidana panchaka mentioned for Asthikhaya. According to Ashraya and Ashrayi bhava, Vata and Asthi are inversely proportional to each other. The Bhaava which increases the vata dosha also decrease the Asthidhatu. Hence the vataprakopaka nidana may considerd as Asthikshaya nidana. In Asthikshaya there will be qualitatative and quantitative decrease of Asthidhatu. The Chikitsa mention for Asthikshaya is Panchakarma Tikta Ksheera Basti and Swyonidravya.

Keywords: Asthikshaya, vata, soushirya, panchakarma, Tiktha dravya

1. Introduction

Just as the tree remains firm on the ground by their pit inside them, similarly the body remains erect by the support of the bones inside it. Though the skin and muscle get destroyed after death but bones do not get destroy after the disintegration of *Shareera*.1*Asthikshaya* is the condition where there is a decrease of *Asthi dhatu* is seen. The meaning of *Kshaya* is loss, decline, decay, diminution or waning.2 Dalhana has defined *Kshaya* as '*Swapramana Haani*.3

According to the Principle of Ashraya and Ashrayee Bhava by Acharya Vagbhata⁴, when Vata increases, Asthidhatu decreases because Vata and Asthi are inversely proportional to each other.5In starting stage Asthikshaya can be taken as Lakshana, but when it get Sthana Samraya in Asthidhatu, its progress can be taken as Vyadhi. The clinical features of Asthikshaya are Asthishula, Rukshata⁶, Asthitoda⁷, Sandhi Shaithilya, Keshaya, Loma, Nakha, Danta vikara &Paatana, Sadana and Shrama⁸.

Asthikshaya is a condition where there is decrease in the bone tissue and Asthi Soushirya means Porosity of bone. Hemadri has commented on the word Soushirya as 'Sarandhratvam' which means with pores.9

2. Aims and Objects

To study the Nidana Panchaka of Asthikshya.

3. Material and Methods

The Asthiskaya lakshana is mentioned in almost all Brihatrya and laghutraya. The Asthikshya lakshana studied from various classical text book, scholarly article, internet source, Google scholar.

NIDANA (Etiological factors)

The etiological Factors of *Asthikshaya* are not explained separately in the classical texts. On the basis of Ayurvedic principle of *Ashraya-ashrayee bhava*, The increase or decrease of *Asthi* and *Vata* are inversely proportional to each other. Hence the factors aggavating *Vata* will cause decrease in *Asthi Dhatu*. Acharya Charaka had explained *Samanya Nidana* (general etiological factors) leading to the *Kshaya* of 18 types which includes mostly *theVata prakopaka Nidana*.1⁰

The factors provocating *Vata* are excessive exercise, intake of dry vegetables, irregular dietary habits which includes excessive fasting, dietingand limited foods, excess of food also, excess of worry, grief, fear, hunger, waking at night, letting out excess of blood, *Dosha, Dhatu Mala* and time factor (Adanakala and Vridhavastha).1¹

Majjadhatu is the next to *Asthidhatu*, which is present inside the *Asthidhatu* and closely realated tom each other. Hence the factors responsible for the vitiation of *Asthivaha* and *Majjavaha srotasa* are also responsible for *Asthikshaya*. The vitiating factors of *Majjavaha srotas* such as uttpeskha, *Abhishyandi, virudhha ahara*. I^2 vitiates vata due to *Margavodha*. Vitiation of *Asthivaha Srotas* directly leads to aggravation of *Vata*, resulting in *Asthikshaya*. I^3

Acharya Dalhana described the *Asthidhara Kala* as *Purishdhara Kala*.1⁴So the causative factors responsible for vitiation of *Purishvaha Srotas* are also responsible for *Asthikshaya*. It includes suppression of urge for stool, consumption of large quantity of food, eating during indigestion, eating before digestion of previous meal, person having weak Agni and emaciation.1⁵

(1) SAHAJA NIDANA

(a) Beeja, Beejabhaga, Beejabhaga avayava¹⁶: Abnormal or weak *beeja*, *beejabhaga and beejabhaga avayava related* to formation of asthi dhatu if passéd on to the garbha at the time of conception may lead to weak and disease prone asthi dhatu in the progeny.

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(b) Pitrij bhava¹⁷

Pitrij bhava among the six *bhava* is responsible for formation of *asthi dhatu* during development of fetus. Hence *pitrija bhava dushti* can lead to improper *asthi dhatu formation*.

(c) Kulaja

Certain diseases are observed more commonly in specific race and even run in families.

(d) Prakriti

Women with *Vata* dominant *prakriti* are more prone to develop osteoporosis.

(2) JATAJA NIDANA¹⁸

AcharyaVagbhatta has explained that *vriddhi* and *kshaya* of *vata dosha* and *asthi dhatu* are inversely proportional to each other. Hence due to provocated *vata, asthi dhatu* is more susceptible for any pathology amongest other *dhatu*.

Ahara and Vihara leading to vitiation of vata, as well as asthi posaka amsaalpata in ahara may lead to imbalance in asthi dhatu formation.

(a) *Manasika nidana*-While explaining the *manasika nidana* of *Vata prakopaChinta, Shoka, Bhaya* and *Krodha* are *manasika nidana* explained. *AcharyaCharaka* has explained about these *nidana* as follows;

Matraya apyabhyavahrutam pathyam Ca annam na jiryate Cinta soka bhaya krodha dhukha shayya prajagaraihi¹⁹

Some explanations regarding the effect of *Manasika nidana* on *Ahara pachana* is explained by *Acharya Charaka*. Though one takes *pathya ahara in samyakmatra* these *manasika nidana* leads to the improper digestion of such *ahara*. This leads to improper nourishment of the *dhatu* and obstruction in the *Asthi dhatuposhakha rasayani*.

Anya Nidana: Ashti kshaya can be caused due to the direct Vataprakopa caused due to the Abhighata and marmaghata. vishama upachara may be considered under the heading of vaidyakrta nidana.

Sa yevannaraso vruddhanam jaraparipakwa shariratwad aprimano bhavati. 2^0

Here commenting on the above *shloka Dalhana* says that, *ishat prinana* is more appropriate or *aprinana* should be understood as *ishat prinana* meaning slight nourishment. This type of nourishment cannot cause the *Vriddhi* of the *dhatu*. Instead this slight nourishment is meant to keep the person alive. Hence Kala is also the causative factor in the causation of *Asthi kshaya*.

(3) SVABHAVAJA NIDANA

The disease postmenopausal *Asthikshaya* as mentioned earlier is unique in women. This is explained by the fact that women possess genetically low bone mass than men. References related to this are available in our classics also.

In *stri kara bhava*²¹, while mentioning specific characteristics of male and female gender, *Asamhanana*, *Shaithilya*, *mardava* are described as features of female. *Strikara bhava* can be considered as important causative factor for occurrence of this disease uniquely in women²².

SAMHANANA²³

Proper distribution of *Asthi* which is examined by qualitative and quantitative wise of *Asthi dhatu*. Also, commenting on *stri kara bhava* in, *Gangadhara* in *Jalpakalpataru* explains-'*Asamhananam sarirdrudatwa abhava*'.

Dridhatva is a function of *asthi dhatu*. Hence *asamhanana* is related to *asthidhatu* that is weaker in female as compared to male. *Shaithilya* is laxity of joints and other body parts and *Mardava* means softness of all body parts.

Acharya Kashyapa has described the characteristics of *danta* in male and female while explaining dentition²⁴.

Dentition in girls is less painful as their teeth are *mridu* and *sushira* in constitution **by nature**, whereas in boys it is opposite; i.e. dentition is painful because of *Ghana* and *sthira* quality **by nature**. [*Danta* is classified under types of *asthi* (*Ruchaka asthi*]

All the above references suggest that *ashti dhatu* is naturally weak in women as compared to men. Hence in women, especially after *rajonivritti*, where *kshaya* of all *dhatu* occurs, *asthi dhatu* is most affected because of weak disposition of *asthi* in women.

JARA

Dhatukshaya and *vata prakopa* are natural phenomena occurring in *jarawastha*. Along with *kshaya* of all *dhatu*.

SAMPRAPTI OFASTHI KSHAYA

Acharaya have mentioned about the Ashraya-ashrayi bhava which explains the relationship of various dosha with the dhatu.

As per this theory *Vata* is the *ashrayi of Asthi dhatu*, thse are inversely proportional to each other. Hence all *vata propaka nidana* becomes the *nidana* for *Asthi Kshaya*. Keeping in mind all the *nidana* explained under *vata vyadhi* an attempt has been made here to formulate and explain the *samprapti of Asthi kshaya*.

SAMANYA SAMPRAPTI

Dhatu kshaya and *Margavarana* are the causative factors for *Vata prakopa*^{25.} Owing to the *Asrayasrayi bhava* between *Asthi and Vata dosha*, the *prakopa* of the *vata dosha* is said to be the causative factor for the *Asthi kshaya*.

Hence the *Nidanas* explained under the heading of *vata prakopa* may be further classified into *dhatu kshaya karaka* and *Margavarana karaka nidana*.

According to *Cakrapanidhatu kshaya* is explained as *sara kshaya* and *margavarana* as *vegapratibandha*, which leads to vata prakopa. Over indulging in the above said *nidana* leads to the *riktata* of the *srotases* due to *dhatu kshaya* and *Margavarana*. This leads to *vata prakopa* and the *prakupita vata* fills in the *rikta dhatuvaha srotas* and vitiate them further leading to the stronger provocation of its own. Commenting on the word *rikta Cakrapani* says;

"Riktani iti tucchyani, snehadi guna sunyani ityarthaha"²⁶

Gangadhara is also of the same opinion. This means that the empty *srotases* which are devoid of *snehadi guna* gets filled by the *prakupita vata* and produces either *Sarvanga* or *Ekanga roga*.

According to AcaryaCaraka Avrta marga of vata causes it to become prakupita and causes rasadi dhatu shoshana²⁷.

As a combined effect of these factors *dhatu kshaya* occurs. According to the principles of *Ashrayasrayi bhava* explained by *Vagbhatta Asthi dhathu* among the *saptha dhatu* is most fictile to be affected since *Vata* and *Asthi* are inversely proportional. So to sum up briefly, it can be said that *Asthi kshaya* is caused due to the *dhatu kshaya karaka* and *maragavaranakaraka nidana sevana* causing the *prakupita vata* to fill the *riktatata in astivahasrotases* which are barren of *snehadi guna* and cause *ASTHIKSHAYA*.

PURVARUPA

As we go through the classics we cannot find about the *poorvarupa* of *Asthikshaya*. Vata vardhaka nidana along with the other nidana itself forms the nidana for the *Asthikshaya* due to the *Ashraya-Ashrayi bhava* of the Vata and Asthi. So vriddhavata causes the disease Asthikshaya. As we all know that the *poorvaroopa* in Vatavyadhi is Avyakta.2⁸Chakrapani in his commentary has clarified that Avyakta can be taken as alpavyaktata or as asampoorna lakshana or as mild lakshana. So the lakshana in their mild form can be taken as the *poorvaroopa* of Asthikshaya in the initial stage of the disease. Manda vedana (dull aching type of pain) in the asthi, sandhi, and mildness of other lakshana such as kesha, roma, nakha, danta and smashru vikara may be taken as the *purvarupa* of Asthikshaya.

RUPA

The signs and symptoms are known by rupa or the *lakshana*. *Vyaktha avastha* is the fifth among the six *kriya kala*is responsible for the manifestation of the symptoms. Almost all the Ayurvedic classical text books have mentioned about the *lakshana* of *Asthi kshaya*.

According to Charaka samhita Asthikshaya lakshana are Asthibheda, Asthishula, kesha –loma-nakha-samshru –danta vikara and patana, shrama, sandhi shaithilya and Majjakshaya.2⁹

Susruta samhita have mentioned Asthikshaya lakshana as Asthitoda, Asthishula, Nakha-dhanta vikara and patana, Ruksha, bala kshaya. 3^0

Astanga Sangraha also have quoted that Asthikshaya lakshana are Asthibheda Asthishula,, kasha-loma-nakhadantavikaraandpatana, sandhishaitilya, Ruksha, parushya, ASthibheda, mamsakshya and Balakshaya.3¹

According to Astanga Hridaya Asthibheda, astibheda, falling of Danta-Kesha –Nakha etc, are the Asthikshaya lakshana.3²

Harita Samhita have mentioned Asthikshaya lakshana as Mand chesta, manda virya, medha kshaya, visamjna, krushata, kampana, Angamarda, vamana parusha, shosha, dosha sadana, shotana. 3^3 According to Bhavaprakasha Asthishula, Rukshata, Danta kasha vikara are the Asthi kshaya lakshana.3⁴

Chikitsa of Asthikshaya

The term *chikitsa* is derived from the root "*kit rogapsnayane*" *kit* is to adopt measures calculated to remove the factors of the disease. "*yaa kriya vyadhi harani sa chikitsa nigadhyate*" (vaidyaka shabda sindhu) the measures adopted for the removal of the disease is called as *chikitsa*. the first and formost is "*sankepat kriya yogo nidanaparivarjana*" avoiding the cause itself is the chikitsa. second is "*samprapthi vighatana meva chikitsa*"breaking the samprapthi itself is the *chikitsa* of the disease.

The principle of treatment for kshayaof all *dhatu* is described as, ^{35, 36} the *dravyas* (substances) which have same *mahabhuta* predominance (*svayoni*), or which are similar in properties of that particular *dhatu* are used for *vriddhi* of that *dhatu*.

- As per samanya theory -
- (1) $Dravya samanya^{3}$
- (2) Guna samanya
- (3) Karma samanya

Similarity (*samanya*) is *dravya*, *guna* or *karma* can be used for *vriddhi*.

For Asthi dhatu, Asthi tarunasthiis mentioned as dravya samanya. While describing management of Asthi kshaya, Acharya Vagbhatta quoted that Basti containing ksheera, ghrita and Tikta rasa should be given³⁸. Arundatta, while commenting on this in Sarvangasundara explains that the dravyas that will increase asthi dhatu will also provoke vata. Hence such such dravyas cannot be used for Asthivriddhi in Asthikshayajanya vikara.

Acharya Sushruta has explained the principle of Asthikshaya Chikitsa as " Tatra Swayoni Vardhana Dravya Prayoga Pratikara"³⁹

Acharya Charaka has given the similar line of treatment for which includes *Panchakarma*, *Bhesaja* and *Tiktha Dravya*, *Ksheera and Sarpi Prayoga*.4⁰

4. Discussion

Asthi and vata are inversely proportional to each other. The vata prakopaka nidana are the nidana for Asthikshaya. All the classical textbook mentionedthe differentAsthikshaya lakshana. According to Charaka samhita the chikitsa mentioned for Asthikshaya is Panchakarma, Bhesaja and Tiktha ksheera basti. Panchakrma is Ardha chikitsa among all the chikitsa because it eradicate the disease from its root and re-occurrence is less. Bhesaja can be take as shamanoushadi i, e sudhavarga dravya. Tiktha Rasa decreases vata dosha and increases Asthi dhatu. ksheera is good for Asthidhatuand pacifie vata and basti is best vata shamaka chikitsa. The chikitsa should increases the asthidhatu and decrease the vata dosha.

5. Conclusion

The Asthikshaya occurmay be kalaja or Akalaja. kalaja Asthikshaya i, e due to age factor. If it occure due to kalaja and treated with Rasayana and swayonidravya. The Akalaja Asthikshaya occur due to vata prakopaka nidana and Poshana Abhava and treated with Panchakarma, Bhesaja& Tiktha ksheera basti. Akalaja Asthisjaya is Suka sadhya and Kalaja is Kasta sadhya.

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