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TITLE

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RASHMI PANDEY<sup>1</sup>, ANAND B .MORE<sup>2</sup>, NANDINI A. MORE<sup>3</sup>

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#### STUDY THE AETIOPATHOGENESIS OF ASTHIKSHAYA

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#### **ABSTRACT:**

Asthikshaya is a degenerative disorder that Ayurveda has mentioned, where there is kshaya of Asthi dhatu. According to ashrayashrayi bhav asthi is the seat for vata and asthi and vata are inversely proportional to each other. Increase of vata leads to decrease of asthi dhatu.and vice versa. Since a major population is suffering from Asthikshaya due to lifestyle modification and improper eating habits, the study is planned to know the Etiological factors and the Pathogenesis involved in Asthi kshaya and various diseases related to Asthi kshaya. It is based observational study, review of Asthi kshaya is done in all samhita. Patients has been examined with asthavidha pariksha. RESULT -Maximum volunteers were females who were having katu tikta kashaya rasatmak ahar,akaal bhojan as aharaj hetu, Ratrijagran as viharaj Hetu, Chinta Shoka and Bhaya as Manas Hetu. Due to sevan of these hetu vitiation of vata takes place causing Asthikshaya by ashrayaashrayi bhav sambandh. Volunteers were suffering from Manya shool and sandhigata vata followed by katishool and katimanya shool . All these diseases have Asthi as Ashraya sthan so hetu sevan leads to vata prakopa which will further lead to asthi kshaya. Conclusion-Vata pitta prakruti is predominant. Vata dosha is predominant in asthi kshaya. Mainly Annavaha ,asthivaha and strotas dushti is seen in asthikshaya.Vata prakopak aharaj ,viharaj and manas hetu sevan for long duration of time leads to Asthikshaya.

KEYWORDS: Asthi, Asthikshaya, Dhatu, Hetu, Vata

PUNARNAV: JAN: FEB 2016: VOL: 4 ISSUES: 1

#### INTRODUCTION

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"Dosha HiDhatu Mala Mulam Shariram". 1 Ayurveda explains human body as an affable balanced state of dosha, dhatu and mala. This point can be fortified by the definition of the swastha purusha from Sushrut . Acharya Shurut defines Swastha as equilibrium of dosha, agni, dhatu, mala kriy<mark>a and p</mark>rasannata of atma, indriya and mana. As Ashtanga samgraha says Shareeram dharayenthe sarvada<sup>3</sup> means the dhatvaharashcha supporting of the human body is done by dhatu and ahara. Among the sapta dhatu the ashti dhatu is the one which is concreted with the function of shareera dharana. Asthi dhatu is the dhatu which gives a profile to the body and protects the vital organs. Thus a state of symmetry of dhatu is health and the commotion of the same is termed as disease. This vaisamyam or the commotion can be broadly classified in to two types, vriddhi and kshaya <sup>4</sup>.Asthi is the seat of a reciprocal vata and they share

relationship according sambandh.5.The ashrayaashryibhav lakshanas of Asthikshava is Asthitoda .shrama .dant prapatam ,kesha, nakhaprapatam and sadan<sup>6</sup>. Due to change food habit and lifestyle modification asthikshaya has become very common so present study is planned to know the etiological factors responsible for asthikshaya and the pathogenesis involved and to see the various diseases related to Asthikshaya.

# AIM AND OBJECTIVE

- Study the etiological factors of Asthikshaya.
- Study the pathogenesis of Asthikshaya and its relation to various diseases.

# MATERIAL AND METHODOLOGY

The present Study has been done on 60 volunteers'. The study was a survey based observational study. Literature such as various research papers, journals and different text of modern science was referred. Separate case paper Performa and questionnaires was prepared as per need. Patients were examined thoroughly with *Asthavidha pariksha* to diagnose Asthikshaya. Selection of patient was done irrespective of sex, socio-economical status. Patient aging from 18 to 60 years was included.

#### **OBSERVATIONS**

Table no.1. Division of volunteers according to *Prakruti*:

Prakruti	No. of Volunteers	Percentage
Vata-Pitta	36	60%
Vata-Kapha	12	20 %
Pitta-Kapha	0	0%
Pitta-Vata	12	20 %
Kapha-Pitta	0	0 %

60% of the volunteers had *vata pitta prakruti* as vata being predominant vata pradhan vyadhi occurs in this type of

prakriti followed by pitta vata prakruti and vata kapha both being 20%.

Table no.2. Division of Volunteers according to Atirasa sevan.

Rasa	No. of Volunteers	Percentage
Madhura	18	30%
Amla	8	13%
Lavan	15	25%
Katu	36	58%
Tikta	24	41%
Kashaya	36	59%

Maximum volunteers had consumed *Katu* i.e 58% followed *by Kashaya rasa* i.e 59%

and *tikta* rasa i.e 41% which causes *Vata vridhi* leading to *Asthikshaya*.

Table no.3. Division of Volunteers according to Ahara Vidhi.:

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Ahar Vidhi	No. of Volunteers	Percentage
Akaal Bhojan	12	20%
Adhyashan	24	40%
Vishamashan	36	60%
Asatmya Bhojan	24	40%
Upawasa	48	78%
Vyasan	36	60%

According to observations Upawas was

may cause vata vriddhi showing symptoms

(78%) , visham ashan(60%)

of asthikshaya.

adhyashan(40%) and 60%vyasan which

Table no. 4. Division of Volunteers according to Viharaj Hetu.

Viharaj Hetu	No. of Volunteers	Percentage
Diwaswap	10	16%
Ratri Jagran	45	74%
Vegavidharan	17	28%
Atishrama	38	63%
 Pravas	36	60%

#### STUDY THE AETIOPATHOGENESIS OF ASTHIKSHAYA

According to observations 74% volunteers had *Ratrijagrana* as *viharaj hetu* followed by *Atishrama* (63%) and *pravas* (60%)

which may leads to vitiation of *vata dosha* which manifests into *asthikshaya* symptoms.

Table no 5.Division of Volunteers according to Manas Hetu.

Manas Hetu	No. of Volunteers	Percentage
Chinta	38	63%
Shoka	32	53%
Bhaya	28	46%
Krodha	6	10%

According to observations, 63% volunteers had *a chinta* and 53% *shoka* and 46% *bhay*a observed as a *manas hetu*.

Table no.6.Division of volunteers according to lakshana

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Lakshana	No. of Volunteers	Percentage
Asthi toda	52	86%
Sadan	47	78%
Dantprapatan	7	12%
Nakhaprapatam	37	63%
Keshaprapatam	48	78%
Shrama	39	64%

According to observations maximum volunteers had *Asthi* toda in 86%, *Sadan* in 78% and *Keshaprapatam* in 78% and these were the major *lakshana* seen in volunteers

Table no.7. Division of volunteers according to srotodushti

Srotodushti	No. of Volunteers	Percentage
Asthi vaha	60	100%
Majja vaha	60	100%
Anna vaha	60	100%

In 100% volunteers had Annavaha, Asthivaha and Majjaavaha srotas dushti.

Table no.8. Division of volunteers according to types of *vyadhi*.

Vyadhi	No. of Volunteers	Percentage
Kati shool	14	24%
Manya shool	19	32%
Kati manya shool	10	16%
Sandhi gata vata	17	28%

PUNARNAV: JAN: FEB 2016: VOL: 4 ISSUES: 1 Page No: 04

According to observations maximum volunteers were suffering from *manya* shool(32%) followed by sandhigata vata

(28%) were the major diseases observed in volunteers of *Asthikshaya*.

#### **DISCUSSION**

#### 1. PRAKRUTI

Maximum volunteers were of *vata pitta prakruti* that is 60% followed by 20% *vata kapha* and 20% *Pitta Vata*. As *vata* being predominant *vata pradhan vyadhi* occurs in this type of *prakriti* followed by *pitta vata prakruti* and *vata kapha* 

#### 2. ATIRASA SEVAN

Among 60 patients (58%) patients had consumed *Katu* and *Kashaya rasa* and (41%) patients has *tikta rasa*. As *madhur rasa* is inevitable rasa in everyones life but in my study patients had consumed excess amount of *katu,tikta,kashaya rasa*. The Pancha bhoutika composition of *Vata dosha* is very much similar to that of the *panchabhoutika* composition of the *Katu, tikta* and *kashaya rasa pradhana dravya* Due to consumption of this rasa, there is *vata prakopa* and ultimately leads to *asthikshaya*.

#### 2. AHAR VIDHI

Maximum volunteers had *vishamashan* (60%), *adhyashan*(40%) and *akaal bhojan*(20%).Due to above hetu sevan there is less formation of *asthi poshakansha*.The requirement of *dhatu* cannot be fulfilled by such less amount

of *poshakansha*. So there is improper nourishment of dhatu which leads to *dhatukshaya*.

#### 4.VIHARAJ HETU

According to observations maximum volunteers did ratrijagran (74%) followed atishrama (63%) by followed pravasa(60%) Excessive indulgence in v<mark>yayama, ad</mark>hyayana, pradhavan , plavana and pratarana leas to vrddhi in the chala guna of the vata dosha. This gunataha vriddhi of vata dosha leas to asthi kshaya because of ashrayahshrayi bhava. The indulgence in Ratrijagran will cause vitiation of vata because of increased ruksha guna of vata dosha leading to Asthikshaya. Vyasan like tobacco chewing and alcoholism also causes vitiation of vata showing asthikshaya lakshanas.

### 5.MANASIK HETU

The manasik nidana like chinta 63%, shoka 53%, and bhaya 46% was found in my study. These psychological factors have direct effect on agni due to vata prakopa. Agni becomes visham causing apakwa ahar ras nirmiti causes undernourishment of dhatu which further leads to asthikshaya.

#### 6.LAKSHANA

In 60 patients 86% volunteers has Asthitoda as pradhan lakshana and 78% volunteers had sadan as lakshana followed 78%. keshaprapatam nakhaprapatam63% and dantaprapatam12%. In dhatuposhan krama dhatwagni of related dhatu upon ahar rasa and out of which there is sara bhag and kitta bhag. The Sara bhag gives nourishment to dhatu and while kitta bhag will nourish the mala of dhatu so dant being upadhatu of asthi and nakha mala of asthi is kesha the undernourished due to undernourishment of asthidhatu. Other symptoms like balakshaya, shrama, rukshata were also seen since all these are caused due to increase in vata dosha.

#### 7.SROTAS

According to observation, the volunteers had Annavaha Asthivaha, Majjavaha and srotas dushti.i.e 100%. Due to Hetu sevan first agnidushti takes place which produces improper rasa dhatu which causes further causes undernourishment of asthi dhatu leading to asthikshaya. Hetu sevan causes dushti of asthivaha srotas showing lakshana of Asthikshaya. The most symptoms observed in study are related to asthi, kesha, danta and sandhi. Therfore asthivaha srotasa is affected. As Asthi

and *Sandhi* are the moolasthana of *Majjavaha Srotas* and we observed pain in various joints therefore Majjavaha *srotas* is also involved.

#### 8. VYADHI

Majority of the volunteers were suffering from Manya shool 32% and sandhigata vata 28% followed by katishool 24% and katimanya shool 16%. All these diseases have Asthi as Ashraya sthan so hetu sevan leads to vata vriddhi .This vitiated vata circulates in body.asthi dhatu is sthan of vayu and vayu and asthi are inversely proportional to each other. Increase in vata will lead to decrease in asthi dhatu due to ashrayaashrayi bhav sambandh.This prakupit vata may cause depletion of asthi dhatu. Manifestation of various vata vyadhi will take place.

## 9. PATHOGENESIS OF

**ASTHIKSHAYA** -Due to the hetu sevan mainly Aharaj (katu, tikta , Kashaya rasatmak akaal, bhojan) Viharaj(ratrijagran, vegadharan ,atishrama),and Manasik Hetu (chinta,bhaya,shoka) regularly for 2 to 3 years leads to vitiation of *vata*, this vitiated vata lodges into rikta strotas where there kha vaigunya and due ashrayashrayibhava sambandh there is decrease in asthidhatu leading asthikshaya.

#### STUDY THE AETIOPATHOGENESIS OF ASTHIKSHAYA

#### **CONCLUSION**

- Vata Pitta Prakruti is Predominant.
- *Vata Dosha* is Predominant.
- Katu tikta kashaya rasatmak and Ruksha Gunatmak ahar are major Aharaj hetu in Asthikshaya volunteers.
- Ratri jagran and Vega dharan are the major viharaj hetu in Asthikshaya volunteers.
- Mainly Chinta, Shoka and bhaya are the major manas hetu in volunteers of Asthikshaya.

- Aharaj ,Viharaj , and Manas Hetu sevan leads to vata prakop which further manifest into Asthikshaya.
- Annavaha, Asthivaha, and Majjavaha srotasa were predominantly involved.
- Asthikshaya is *chirkari* condition.
- Manifestation of asthikshaya was prominent after 2 years of duration of hetu sevan.
- Mainly Manyashool ,Katishool,
   Sandhigata vata and Kati manyashool
   are seen in Asthikshaya volunteers .

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PUNARNAV: JAN: FEB 2016: VOL: 4 ISSUES: 1 Page No: 07