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**Review Article** 

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# A COMPREHENSIVE REVIEW OF ASTHI KSHAYA IN RELATION TO VATA VRIDDHI: CLINICAL INSIGHTS AND DIAGNOSTIC RELEVANCE

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## **ABSTRACT**

Background: In Ayurvedic physiology, Asthi Dhatu (bony tissue) and Vata Dosha share a unique and interdependent relationship. The classical texts highlight that Asthi Kshaya (depletion of bony tissue) leads to Vata Vriddhi (aggravation of Vata Dosha), resulting in various clinical manifestations, particularly those resembling osteopenic and degenerative disorders in modern medicine. Aim & Objectives Aim -To critically evaluate the clinical correlation between Asthi Kshaya and Vata Vriddhi based on classical Ayurvedic literature and modern clinical understanding. Objectives-To explore the classical Ayurvedic references on Asthi Dhatu and Vata Dosha. To analyze the cause-effect relationship between Asthi Kshaya and Vata Vriddhi. To correlate the symptoms of Asthi Kshaya with modern degenerative disorders. To highlight diagnostic and prognostic significance of this relationship in clinical practice. Materials and Methods: This review is based on a comprehensive analysis of classical Ayurvedic texts including Charaka Samhitā, Suśruta Samhita, and Astanga Hridaya, along with recent scholarly commentaries and peer-reviewed journals in modern medicine. Cross-referencing with pathophysiological correlations like osteoporosis, degenerative joint

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diseases, and neurological dysfunctions has been applied. Results: The review reveals that

Asthi Kshaya manifests through signs such as dental fragility, hair fall, nail brittleness, and

skeletal weakness, which clinically correlate with conditions like osteoporosis,

osteoarthritis, and spinal degeneration. These conditions often coincide with Vata

dominance symptoms like pain, stiffness, crepitus, and dryness. The classical Ayurvedic

understanding offers a predictive model for early diagnosis and holistic management

Conclusion: The dynamic relationship between Asthi Dhatu and Vata Dosha serves as a

diagnostic and therapeutic cornerstone in *Ayurveda*. Recognition of *Asthi Kshaya* as a trigger

for Vata Vriddhi can improve early diagnosis, enable preventive care, and guide treatment

protocols for degenerative disorders in integrative medicine.

**KEYWORDS:** Asthi Dhatu, Vata Dosha, Asthi Kshaya, Vata Vriddhi, Osteoporosis, Degenerative

Disorders

INTRODUCTION

The science of Ayurveda is founded on the balance of Tridosha and Saptadhatu for the

maintenance of health. Among these, *Asthi Dhatu* holds structural and functional importance

in supporting the body framework, mobility, and strength. Classical Ayurvedic literature

describes that each *Dhatu* nourishes the next, and depletion in one leads to pathology in the

subsequent *Dhatu*. In the case of *Asthi Kshaya*, the most prominent response is the

aggravation of *Vata Dosha*, establishing a clear *Karya Karana* (cause-effect) relationship.<sup>2</sup>

According to Charaka Samhita, Asthi Dhatu is predominantly composed of Prithvi and Vayu

Mahabhuta, and it is stated that "Asthi Kshaye Vata Vriddhi".3 This indicates that when the

quality or quantity of Asthi Dhatu diminishes, it creates a vacuum or space that becomes a

conducive site for *Vata* to aggravate. *Vata*, being *Ruksha*, *Laghu*, *Chala*, and *Khara*, further

accelerates the degenerative process, causing a vicious cycle of deterioration.4

Suśruta Samhita and Astanga Hrdaya provide elaborate insights into the clinical features of

Asthi Kshaya, including Dantabheda (loosening of teeth), Kesha Patana (hair fall), Nakha

*Nasha* (brittle nails), and *Sandhi Shula* (joint pain). These symptoms align with modern-day

conditions such as osteoporosis, arthritis, and various degenerative spinal disorders. The

textual descriptions offer not only early signs but also guidance for *Chikitsa Siddhanta*.<sup>6</sup>

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Modern medicine identifies similar pathologies under the umbrella of osteopenia,

osteoporosis, and degenerative joint disease. However, it often lacks an integrative causality

model like the Ayurvedic doctrine of Asthi Kshaya leading to Vata Vriddhi.7 Thus, Ayurveda

provides an advantage in both preventive and promotive health strategies by identifying

subtle imbalances before gross pathological changes manifest.8

The Dhatu Poshana Nyaya, including Ksheera Dadhi Nyaya and Kedari Kulya Nyaya,

emphasizes that improper metabolism or disturbance in *Agni*, particularly *Dhatvagni*, may

hinder the nourishment of Asthi Dhatu.9 This metabolic disturbance is another causative

factor of Asthi Kshaya, which indirectly contributes to Vata Vriddhi due to lack of

unctuousness and structural integrity in the tissues. 10

Therefore, the interrelationship between *Asthi Dhatu* and *Vata Dosha* is not only foundational

to understanding degenerative diseases in Ayurveda, but it also opens the possibility of

correlating these ancient insights with modern diagnostic and therapeutic principles. A

deeper exploration of this link provides a holistic model for diagnosis, prevention, and

treatment that is both time-tested and integrative.<sup>11</sup>

AIM & OBJECTIVES

Aim

To critically evaluate the clinical correlation between *Asthi Kshaya* and *Vata Vriddhi* based on

classical Ayurvedic literature and modern clinical understanding.

**Objectives** 

1. To explore the classical *Ayurvedic* references on *Asthi Dhatu* and *Vata Dosha*.

2. To analyze the cause-effect relationship between *Asthi Kshaya* and *Vata Vriddhi*.

3. To correlate the symptoms of *Asthi Kshaya* with modern degenerative disorders.

4. To highlight diagnostic and prognostic significance of this relationship in clinical

practice.

MATERIALS AND METHODS

This review is conducted through an in depth literary analysis of classical Ayurvedic texts

such as Charaka Samhita, Sushruta Samhita, Ashtanga Hridaya, and Bhavaprakasha, along

with their respective commentaries including Ayurveda Deepika, Nibandha Sangraha, and

Sarvanga Sundara. Relevant shlokas explaining the concepts of Asthi Dhatu, Asthi Kshaya, and Vata Vriddhi were identified and examined contextually. Contemporary clinical literature, standard modern medical textbooks, and peer reviewed journals were also reviewed to establish a correlation between Ayurvedic principles and modern clinical conditions such as osteoporosis, osteoarthritis, and degenerative bone diseases. The collected information was synthesized to provide an integrative understanding of the pathological interlink between Asthi Kshaya and Vata Vriddhi, emphasizing their diagnostic and therapeutic implications.

## **CONCEPTUAL STUDY**

The term *Vata* is derived from the root "*Va gati gandhanayoḥ*" meaning movement and sensation. According to *Ayurvedic* literature, *Vata Dosha* is responsible for all movements in the body, both voluntary and involuntary. It governs the nervous system, circulation, respiration, and all micro and macro activities at the physical and mental level. <sup>12</sup>

## PANCHABHAUTIKA COMPOSITION

*Vata Dosha* is predominantly composed of *Vayu Mahabhuta* and *Akasha Mahabhuta*. This composition explains its subtle, mobile, and expansive nature, which allows it to pervade every cell and system of the body.<sup>13</sup>

## GENERAL CHARACTERISTICS (GUNA) OF VATA<sup>14</sup>

As per *Charaka Samhita*, *Vata* possesses the following *Guna* (qualities):

Guna	Description
Ruksha	Dryness
Laghu	Lightness
Sheeta	Coldness
Sukshma	Subtlety
Chala	Mobility
Vishada	Clarity
Khara	Roughness

# LOCATION (STHANA) OF VATA15

As described in *Ayurvedic* texts, the major *Sthana* (sites) of *Vata Dosha* are:

- Pakvashaya (large intestine)
- Kati (pelvic region)
- *Shroni* (hip region)
- Asthi (bones)
- *Udara* (abdomen)
- Basti (urinary bladder)

# FIVE SUBTYPES (PANCHA VATA)<sup>16</sup>

Name	Location	Function
Prana Vata	Head, chest	Respiration, swallowing, cognition
Udana Vata	Chest, throat	Speech, enthusiasm, memory, upward movement
Samana Vata	GI tract	Digestion, separation of nutrients
Vyana Vata	Entire body	Circulation, locomotion
Apana Vata	Pelvic region	Defecation, urination, menstruation, childbirth

## FUNCTIONS (KARMA) OF VATA DOSHA<sup>17</sup>

- Controls all sensory and motor functions
- · Maintains circulation and respiration
- Governs speech, locomotion, excretion, and nerve impulses
- Facilitates psychological processes like enthusiasm, fear, and creativity
- Aids in separation and assimilation of nutrients

## **ROLE IN PATHOGENESIS**

When *Vata* becomes vitiated (*Vata Prakopa*), it leads to conditions characterized by pain, dryness, tremors, constipation, anxiety, insomnia, and neurological or degenerative diseases. *Vata* is the first *Dosha* to get vitiated and the last to be pacified, making its management critical in chronic illnesses. <sup>18</sup>

**ASTHI DHATU-** The word *Asthi* is derived from the root "*Asi sthau*" meaning that which provides stability or support. *Asthi Dhatu* is the fifth of the *Saptadhatu*, and it represents the structural component of the body that maintains posture, provides support, and protects internal organs. It is primarily responsible for the formation of bones, teeth, nails, and hair. <sup>19</sup>

#### PANCHABHAUTIKA COMPOSITION

According to *Ayurvedic* philosophy, *Asthi Dhatu* is predominantly made up of *Prithvi Mahabhuta* (earth element) and *Vayu Mahabhuta* (air element). *Prithvi* provides hardness and strength, while *Vayu* is responsible for its hollow spaces, flexibility, and porosity.<sup>20</sup>

## FORMATION AND METABOLISM (DHATU POSHANA KRAMA)

Asthi Dhatu is formed as a result of the transformation of Meda Dhatu (fat tissue) through the action of Asthivaha Dhatvagni. The metabolic process follows the Ksheera Dadhi Nyaya and Kedari Kulya Nyaya, illustrating the sequential nourishment of one Dhatu from the previous. Any disturbance in this transformation can lead to Asthi Kshaya or pathological bone conditions.<sup>21</sup>

## FUNCTIONS OF ASTHI DHATU (ASTHI KARMA)

- Sharira Dharana Provides structural support and maintains posture
- *Majja Nirmana* Acts as the source for *Majja Dhatu* (marrow)
- *Chalana Karma* Enables movement by serving as points of attachment for *Snayu* and *Peshi*
- *Sharira Avayava Rachana* Formation of hard organs like bones, teeth, nails, and hair<sup>22</sup>

## SEAT (STHANA) OF ASTHI DHATU

The main *Sthana* of *Asthi Dhatu* is the entire skeletal framework. According to *Ayurveda*, structures such as *Danta* (teeth), *Nakha* (nails), *Kesha* (hair), and *Asthi* (bones) are direct derivatives or indicators of *Asthi Dhatu* health.<sup>23</sup>

## SIGNS AND SYMPTOMS OF ASTHI KSHAYA

- Dantabheda Loosening or falling of teeth
- Kesha Patana Hair fall
- Nakha Nasha Brittle or broken nails
- Sandhi Shula Pain in joints
- *Asthi Shaithilya* Weakness or softening of bones
- *Stambha* and *Toda* in the limbs Stiffness and pricking sensation

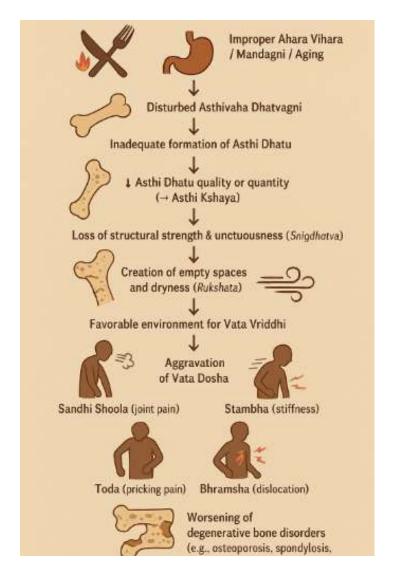
These symptoms correlate with modern conditions like osteoporosis, osteomalacia, and degenerative bone diseases.<sup>24</sup>

#### RELATION WITH VATA DOSHA

Classical texts emphasize that *Asthi* and *Vata* have a reciprocal relationship. It is stated that "*Asthi Kshaye Vata Vriddhi*". This means that depletion of *Asthi Dhatu* leads to the aggravation of *Vata Dosha*, which further intensifies degenerative changes, creating a vicious cycle.<sup>24</sup>



CLINICAL CO-RELATION BETWEEN ASTHI KSHAYA AND VATA VRIDDHI



#### RESULTS AND FINDINGS

- Asthi Kshaya leads to Vata Vriddhi due to loss of Snigdhatva and structural integrity. 25
- Clinical features like Dantabheda, Kesha Patana, and Sandhi Shula align with modern degenerative disorders.<sup>26</sup>
- *Vata Vriddhi* worsens *Asthi* degeneration, forming a progressive pathological cycle. <sup>27</sup>
- Early detection of Asthi Kshaya is crucial for preventing chronic Vataja disorders.<sup>28</sup>

## **DISCUSSION**

The human body is sustained through the balanced functioning of *Tridosha* and *Saptadhatu*. Among them, *Asthi Dhatu* provides the primary structural framework, enabling support and movement. According to *Ayurveda*, *Asthi Dhatu* is formed from *Meda Dhatu* through the action of *Asthivaha Dhatvagni*.<sup>29</sup> When this *Dhatvagni* is weak or impaired, the quantity and quality of *Asthi* becomes deficient, resulting in *Asthi Kshaya*. This depletion of *Asthi Dhatu* affects the integrity of bones, teeth, nails, and hair, which are considered the by-products or *Upadhatu* of *Asthi*.<sup>30</sup>

Physiologically, *Asthi Dhatu* not only supports the musculoskeletal structure but also serves as a container for *Majja Dhatu*, which is crucial for neurological and marrow functions.<sup>31</sup> When *Asthi* is compromised, there is an intrinsic alteration in bone porosity and density. *Ayurveda* explains that the deficiency of *Asthi* creates *Khara* (roughness), *Ruksha* (dryness), and *Shunyata* (hollow spaces), which are ideal for *Vata Dosha* to occupy and aggravate. This establishes a foundational physiological connection: *Asthi Kshaya* directly results in *Vata Vriddhi*.<sup>32</sup>

*Vata Dosha*, being the principle of movement and neurological regulation, is subtle, dry, and mobile in nature. When *Asthi Dhatu* is healthy, it restricts and stabilizes the functions of *Vata*.<sup>33</sup> However, with *Asthi Kshaya*, the loss of containment allows *Vata* to move erratically, manifesting symptoms like joint pain, tremors, and neuromuscular dysfunctions. This reflects a classical *Ayurvedic* principle: when structure is compromised, function is disturbed, especially those governed by *Vata*.<sup>34</sup>

Moreover, physiological aging is a *Vata* dominant phase (*Vata Avastha*), during which natural degeneration of *Asthi Dhatu* occurs.<sup>35</sup> This explains why elderly individuals are more prone to *Vataja Vikara* such as osteoarthritis, cervical spondylosis, and spinal disc disorders. Thus,

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the physiological interplay between *Asthi* and *Vata* is bidirectional — *Asthi Kshaya* promotes *Vata Vriddhi*, and *Vata Vriddhi* accelerates *Asthi Kshaya* — making it essential for preventive and promotive approaches in *Ayurveda* to preserve *Asthi Dhatu* health.<sup>36</sup>

## **CLINICAL INSIGHTS**

The clinical understanding of *Asthi Kshaya* reveals a spectrum of degenerative presentations, including *Dantabheda* (loose teeth), *Kesha Patana* (hair fall), *Nakha Nasha* (brittle nails), *Sandhi Shula* (joint pain), and generalized skeletal fragility. These symptoms correspond closely with clinical entities such as osteoporosis, osteoarthritis, and spondylosis in modern medicine. The *Ayurvedic* explanation that *Asthi Dhatu* depletion leads to *Vata Vriddhi* gives insight into the underlying pathophysiology where loss of structural integrity promotes dryness (*Rukshata*), instability (*Chalatva*), and neurological disturbances. This bidirectional pathology explains why chronic *Vataja* disorders often worsen with progressing *Asthi Kshaya*, especially in elderly individuals or those with poor metabolic function (*Dhatvagni Mandya*). Clinical insights also emphasize the importance of preserving *Asthi Dhatu* through early intervention with *Brimhana*, *Snehana*, and *Basti* therapies.

#### DIAGNOSTIC RELEVANCE

From a diagnostic perspective, recognizing the early features of *Asthi Kshaya* is vital for preventing long-term disability. The association with *Vata Vriddhi* serves as a clinical marker for evaluating both structural and functional deterioration. Assessment of *Rukshata*, *Stambha*, *Toda*, and *Sandhi Shula* in conjunction with signs of *Asthi* depletion enables a comprehensive *Ayurvedic* diagnosis that can be corroborated with modern tools such as bone mineral density (BMD) testing, radiography, and neuro-musculoskeletal assessments. Moreover, *Asthi Kshaya* can serve as a prognostic indicator in elderly patients or those at risk of *Vataja* disorders. Diagnostic relevance also lies in identifying *Agni Dushti* and faulty *Ahara Vihara* patterns that initiate the cascade of *Dhatu Kshaya* leading to *Vata Prakopa*. Hence, the classical principle "*Asthi Kshaye Vata Vriddhi*" is not just philosophical but highly applicable in clinical diagnostics and integrated practice.

## CONCLUSION

The physiological relationship between *Asthi Dhatu* and *Vata Dosha* is intricately interdependent. *Asthi Dhatu* provides the structural stability required to regulate and contain the mobile nature of *Vata*. When *Asthi Kshaya* occurs due to impaired *Dhatvagni* or other

causative factors, it leads to the creation of *Ruksha* and *Khara* spaces, promoting *Vata Vriddhi*. This vitiated *Vata* further disrupts the nourishment and integrity of *Asthi Dhatu*, forming a vicious physiological cycle. Thus, maintaining the equilibrium of *Asthi* is essential to preserve the functional harmony of *Vata* in the body.

#### **CONFLICT OF INTEREST -NIL**

## **SOURCE OF SUPPROT -NONE**

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