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CONCEPTUAL STUDY OF TYPES OF DHATU KSHAYA: A REVIEW

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ABSTRACT

Dhatu-Kshaya essentially refers to the reduction or depletion of the bodily tissues, which can lead to various health imbalances and disorders. According to Ayurveda, the Dhatus are interdependent, meaning that any disturbance in one Dhatu can affect the others. For instance, if there's depletion in Rasa Dhatu (the first bodily tissue formed from the digestion process), it can impact the subsequent Dhatus, leading to a cascade of imbalances. Ayurveda emphasizes the importance of maintaining the balance of Dhatus through proper diet, lifestyle practices, and herbal remedies. Addressing Dhatu-Kshaya involves identifying the root cause of imbalance and employing holistic approaches to restore equilibrium and promote overall well-being. In real-world applications, understanding the concept of Dhatu-Kshaya can guide healthcare professionals and individuals towards personalized interventions aimed at replenishing depleted tissues and restoring health. This may involve dietary modifications, lifestyle

changes, specific herbal formulations and other Ayurvedic therapies tailored to the individual's unique constitution and needs.

KEYWORDS: Dhatu, Dhatu-Kshaya, Dhatu Siddhanta.

INTRODUCTION

Ayurveda indeed offers a unique approach to healing, combining medicinal treatments with rejuvenation therapies like Rasayana to promote health and address illnesse.^[1] Central to Ayurvedic philosophy is the concept that a healthy body is composed of well-functioning cells, which are sustained through the processes of Sharira Dharana (maintenance) and Poshana (nourishment) of the Dhatus or bodily tissues.^[2] The term "Dhatu" in Ayurveda

translates to "bearers" or "supports," indicating the fundamental role these tissues play in maintaining the structure and function of the body. [3] There are seven primary Dhatus: Rasa (plasma), Rakta (blood), Mamsa (muscle), Meda (fat), Asthi (bone), Majja (bone marrow), and Shukra (reproductive tissue). Sharira Dharana refers to the maintenance of these Dhatus, ensuring their integrity and proper functioning. This involves various physiological processes such as metabolism, cellular repair and waste elimination, which collectively support the health and vitality of the body. [4] Poshana, on the other hand, involves the nourishment of the Dhatus through appropriate diet, lifestyle practices and therapeutic interventions. Providing the body with essential nutrients, proper hydration, adequate rest and balanced activities supports the growth, repair and regeneration of the bodily tissues. Rasayana therapy in Ayurveda focuses on rejuvenating and revitalizing the body at the cellular level, enhancing longevity, immunity, and overall well-being. Rasayanas are specific formulations or practices that promote health, vitality and longevity by nourishing the Dhatus, improving metabolic processes and enhancing the body's resilience to stress and disease. By integrating medicinal treatments with Rasayana therapy, Ayurveda aims not only to address existing health issues but also to prevent disease and promote optimal health and vitality. This holistic approach considers the interconnectedness of the body, mind and spirit, emphasizing the importance of balance and harmony for overall well-being. In Ayurveda, the term "Dhatu" refers to the body's seven main tissues, which provide structure, growth and nourishment to the entire organism. These Dhatus, governed by the three biological humors or Doshas, are fundamental to maintaining health and vitality. Each Dhatu has an Updhatu or subunit, which works in harmony with the other Dhatus to fortify the body.^[5] Optimal tissue renewal is ensured by appropriate digestion and eating habits in Ayurveda. Following complete digestion of food, tissue formation begins. However, when there is thinning or loss of bodily tissues, it is referred to as "Dhatu-Kshaya". [6] Understanding Dhatu and Dhatu-Kshaya is crucial in comprehending disease processes, akin to the significance of understanding Tridosha. The balance between Dosha, Dhatu and waste materials (Mala) is vital for durability and a healthy life. The process of Saptadhatus' production starts with Rasa Dhatu and progresses through Rakta (blood), Mamsa (muscle), Meda (fat), Asthi (bone), Majja (bone marrow) and Sukra Dhatu (reproductive tissue). Each Dhatu is foundational for the next one and nourishes the one above it. This interdependence among Dhatus implies that modifications to one can cause modifications to the others. The integration of different sources and arriving at a consensus on Ayurvedic principles, particularly regarding Dhatu-

Kshaya, can provide valuable insights into its applications in real-world situations, guiding personalized interventions aimed at restoring balance and promoting well-being.

LITERARY REVIEW

Dhatu Siddhanta (Theory of tissues formation and differentiation)

Ayurveda's core tenet revolves around the equilibrium of Tridosha (three biological humors), Saptadhatu (seven bodily tissues) and Trimala (waste materials). Each of these components is nourished following a meal by their respective Jatharagni or digestive energy potency.^[7] After digestion, productive nutrients (Ahara Rasa) are delivered to each level of Dhatu for sustenance. These nutrients originate from a single pool and are transported to the locations of the Dhatus. The function of each Dhatvagni or tissue-specific metabolic energy, is to promote the growth of self-clones of the corresponding tissue and dependent tissues (Upadhatus). Additionally, each Dhatvagni supplies necessary vitamins to succeeding tissues, enhancing their ability to clone. Thus, the Dhatus of Rasa, Rakta, Mamsa, Meda, Asthi, Majja and Shukra grow in succession and nourish each other. The potency of Dhatvagni at each level is crucial to the development of subsequent Dhatus. Any change in potency could impact the process of creating the next Dhatu. During this process, metabolic byproducts called Dhatumala (tissue excreta) are produced. Throughout life, individuals undergo the same process of Dhatu differentiation and development. Tissue deformation can result from obstructions (Avarana) or vitiation (Dushti) in specific Srotas (tissue microcirculation). Ayurveda elucidates various theories of tissue genesis and development (Dhatu Pushti Nyaya), including Khale Kapota Nyaya, Ksheera Dadhi Nyaya, Kedara Kulya Nyaya and Ek Kala Dhatu Pushti Nyaya. These theories offer insights into the mechanisms of tissue nourishment and growth. During the feeding process from Rasa to Shukra Dhatu, the Dhatvagni of each Dhatu essentially divides essential materials into three divisions: Sukshma (subtle), Sthula (gross) and Mala Bhaga (waste). Organs can sustain throughout a lifetime because tissue-specific stem cells have the capability to self-renew and produce differentiated progeny.

Depletion of body tissues^[8]

Different types of Dhatu Kshaya or depletion of bodily tissues, along with their associated symptoms, provides a detailed understanding of how imbalances in the body can manifest in various health issues according to Ayurveda.

Each type of Dhatu Kshaya and its symptoms.

- **1. Rasa Dhatu Kshaya (Depletion of Plasma) Symptoms:** Restlessness, intolerance to loud sounds, palpitations, cardiac pain, exhaustion with slight exertion. ^[9]
- **2. Rakta Dhatu Kshaya (Depletion of Blood) Symptoms:** Roughness, cracks, dullness, dry skin (indicative of anemia). [10]
- **3. Mamsa Dhatu Kshaya (Depletion of Muscle tissue) Symptoms:** Emaciation of buttocks, neck, and abdomen, limb weakness, exhaustion, cracking sound in joints, tired eyes. [11]
- **4. Medo Dhatu Kshaya (Depletion of Fat tissue) Symptoms:** Thinning of the body, thinness of the abdomen. [12]
- **5. Asthi Dhatu Kshaya (Depletion of Bone tissue) Symptoms:** Falling of hair, nails, beard hair and teeth; tiredness, looseness of joints. [13]
- **6. Majja Dhatu Kshaya (Depletion of Bone marrow) Symptoms:** Emptiness of bones, thinness, weakness, lightness of bones, frequent affliction with Vata imbalance disorders.^[14]
- **7.** Shukra Dhatu Kshaya (Depletion of Semen/Female Reproductive tissue) Symptoms: Weakness, dryness of mouth, pallor, lassitude, tiredness, impotency, non-ejaculation of semen, non-ovulation. [15]

Each type of Dhatu Kshaya is associated with specific symptoms that indicate the depletion or imbalance of the corresponding bodily tissue. Understanding these symptoms can help in identifying potential health issues and guiding appropriate Ayurvedic interventions to restore balance and promote well-being.

DISCUSSION AND CONCLUSION

The concept of Dhatus and Malas in Ayurveda provides a holistic framework for understanding the structural and functional aspects of the human body, while Doshas represent the energetic principles. Dhatus, often described as Asrayas or the substrates, are the fundamental tissues that provide sustenance and support to the body. They are considered the building blocks of the physical body. According to Ayurveda, the genesis of the body begins with food substances (Anna), which are absorbed from various sources like plants, animals or humans. The body utilizes these food substances to sustain life and promote growth. Waste products or unusual parts of the body are eliminated through processes like perspiration, urine and stool, while the useful components, referred to as Anna-rasa or Adhyarasa, contribute to the formation and maintenance of the Dhatus. Acharaya Sushruta describes the body (Shareera) as the amalgamation of the five elements (Panchamahabhuta),

indicating that the Doshas, Dhatus, and Malas collectively contribute to the formation of the body's organs and tissues. This unity as the five elements manifests as various physiological and anatomical structures, forming the basis of Panchamahabhuta Vikara or the five-elemental transforms. Incorporating ideas from the Dhatu-Kshaya Siddhanta of Ayurveda into future medical research could offer valuable insights into understanding and addressing issues related to tissue depletion and imbalance. By integrating the principles of Ayurveda with modern medical knowledge, researchers may develop more comprehensive approaches to healthcare that encompass both physical and energetic aspects of health and well-beingrmations.

REFERENCES

- Central Council for Research in Ayurvedic Sciences. Rasayana -Ayurvedic rejuvenation therapy. Available from: http://ccras.nic.in/content/rasayana-ayurvedic-rejuvenationtherapy.
- 2. Sri Sri Tattva Panchakarma, Saptha Dhathu Vruddhi Lakshana. Available from: https://www.srisritattvapanchakarma.com/saptha-dhathu-vruddhi-lakshana/.
- 3. Astha Ayurveda. Saptadhatu: The seven bodily tissues. Available from: https://www.asthaayurveda.in/saptadhatu-the-seven-bodily-tissues.php.
- Sharma V, Chaudhary AK. Concepts of Dhatu Siddhanta (theory of tissues formation and differentiation) and Rasayana; probable predecessor of stem cell therapy. Ayu, 2014; 35(3): 231–236. DOI: 10.4103/0974-8520.153731.
- 5. Agrawal AK, Yadav CR, Meena MS. Physiological aspects of Agni. Ayu, 2010; 31(3): 395–398. DOI: 10.4103/0974-8520.77159.
- 6. Available from: https://www.sciencedirect.com/science/article/pii/S09 7594761830682X.
- 7. Dalhanacharya, commentator. Sushruta Samhita, Sutra Sthana, Doshadhatumala kshayavriddhi Vigyaneeyam Adhyaya, 15/41; pp. 75–6. 7th ed. Chaukhambha Orientalia, Varanasi, 2002.
- 8. Caraka Samhita. Available from: https://niimh.nic.in/ebooks/ecaraka/?mod=read.
- Available from: https://www.researchgate.net/publication/333519245_CORRELATION_OF_RASA_DH ATU_IN_MODERN_PRESPECTIVE_A_REVIEW.
- 10. Available from: https://www.sciencedirect.com/science/article/pii/S097594761830682X.
- 11. Girgune CS. Concept of Dhatu, Dhatu Poshana with reference to Sharira Bala. J Ayurveda Integr Med Sci, 2020; 1: 244-247.

- 12. Available from: https://www.arcjournals.org/pdfs/ijmpnp/v1-i1/4.pdf.
- 13. Gupta AK, Shah N, Thakar AB. Effect of Majja Basti (therapeutic enema) and AsthiShrinkhala (Cissus quadrangularis) in the management of Osteoporosis (AsthiMajjakshaya). Ayu, 2012; 33(1): 110–113. DOI: 10.4103/0974-8520.100326.
- 14. Available from: https://cdn.ymaws.com/www.iayt.org/resource/resmgr/docs_sytar2015_handouts/ayurved
- 15. Available from:

ainyogatherapy.pdf.

https://www.researchgate.net/publication/339781059_SHUKRA_DHATU_OF_AYURV EDA_AND_ITS_AFFILIATES_IN_MODERN_PERSPECTIVE_A_REVIEW