IJCRT.ORG

ISSN: 2320-2882

d459



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

Concept Of Upadhatu: A Review Study

Author name: Dr. Rina Manohar Malunjkar

Author's designation: Assistant Professor in Kriya Sharir Dept.

Institute Name: Sai Ayurved Medical College & Research Institute, Khandala, Sambhaji Nagar.

ABSTRACT: Food get digested after action of Agni and results in formation & nourishment of dhatu along with upadhatu by tridhaparigaman in their respective Srotasas. Upadhatu are obtained from Dhatus and resembles dhatu in terms of structure, function and nature. Upadhatus are important connecting element between Dosha, Dhatu and Mala which are responsible for all physiological functions in human body. Upadhatus are sub tissues or secondary tissues in the body which serve as important components and are important physiological units that perform specific functions. Such important topic of Upadhatu explained in various Samhitas, but their references are scattered and very less. While studying about upadhatu, it's been really very difficult to come to the certain opinion of all Acharayas. Thus, it's honest effort to gather all data about Upadhatu. Various Samhitas, textbooks, journals, etc. were reviewed for this study. In this article, detailed concept of described in various texts of Ayurveda.

Keywords: Upadhatu, Dhatu, Agni, Srotas, Tridhaparigaman, Dosha, Dhatu, Mala.

INTRODUCTION: Ayurveda is the traditional science of medicine practiced in India since centuries. It is the science for long life which cures not only the diseases but also teaches how to live healthy life & prevent diseases. A living body constituted with three basic elements namely Dosha, Dhatu and Mala. Out of them, Dhatus formed the basic structural architecture of the body. Dharan and poshan of body is the important function of the dhatu. That's why, it is called that Dhatus are the most stable constituents of the body and form the substratum of the body. Apart from the dhatus, there are certain elements that are resembles to the dhatus in terms of structure, function and nature. Therefore, they termed as Upadhatu by ancient Ayurvedacharyas. The word 'Upadhatu' consist of two parts i.e. prefix 'upa' and word 'dhatu'. The prefix 'upa' means close resemblance to dhatu element. Unlike dhatu, upadhatu perform only dharan function of the body, not poshan of the body. Dhatu form the basic architecture of the body, but they are unable to execute functions of body without the support of Upadhatu. So, Upadhatus are the important connecting element between dosha, dhatu, mala of those fundamental entities which are also known as secondary element or sub tissues.

MATERIAL AND METHODS: The literature collected from various *samhitas*, textbooks, journals. Data taken from ancient period *samhitas* till date published journals.

REVIEW ON UPADHATU:

Etymology (*vyutpatti*): close resemblance to word *dhatu*.

Definition (*Nirukti*): Those who are derived from *dhatus*, produced as complementary, subsidiary level are called *Upadhatus*.

Upadhatu Formation: Secondary tissue (*Upadhatu*) is formed as a byproduct of tissues during metabolism of the tissue. At the end of food digestion, it divides into two forms i.e. *Prasadaja* and *kitta*. *Upadhatus* are nourished from *Sukshma bhaga* of *Prasadaja* part. *Upadhatus* get nourishment by the process of *poshana karma* of *dhatu*.

Upadhatu Nourishment (*Poshan*): *Dhatu* gets nourished by *aahar rasa* formed within body and nourishment of *upadhatu* completely depends upon *poshan karma* of their respective *dhatu*. When there is *vridhhi-kshay* of *dhatu*, in that case, it affects also on respective *upadhatu*. e.g. if there is *vridhhi* in *rasa dhatu*, then *stanya vridhhi* happens also. Vice Versa.

Emergence of *upadhatu*: Acharya Vagbhat has explained 'nitya bhawa' and 'anitya bhawa'. Nitya bhawa are like their presence since birth upto death e.g. dhatu. Upadhatu includes snayu, sira, twak are also nitya bhawa. But, Upadhatu stanya and raja are exceptional elements. As they emerges few years after birth, also not continue throughout life are called as anitya bhawa.

Upadhatus quoted by various Acharyas:

Dhatu		Upadhatu			Mary Mary
(7)		Charak	Sharangdhar,	Bhoja	Vridhha Vagbhat,
		Chakrapa <mark>ni</mark>	Bhawamishra,	(5)	Dalhan
7		(7)	Trimalla Bhatta		(8)
4	195		(7)		
1.	Rasadhatu	Stanya, Raja	Stanya	Stanya,	Stanya, Raja
	100			Raja	
2.	Raktadhatu	Kandara,	Raja	Sira	Kandara, Sira
1		Sira	1 3/		
3.	Mansadhat	Vasa, twak	Vasa	twak	Vasa, twak
	и		322		10
4.	Medadhatu	Snayu	Sweda	Snayu	Snayu, Sandhi
5.	Asthidhatu	- 76	Danta	j	
6.	Majjadhatu	-	Kesha	1	are a Bray area a
7.	Shukradhat	-	Oaj		
	и				

Acharya Sushrut has not explained upadhatu, but Sushrut Samhita commentator Dalhan acharya quoted Sandhi as upadhatu of medadhatu.

Clinical importance of *Upadhatu*: Proper knowledge about *upadhatu* gives direction to diagnose the cause of the disease. Physician can identify the *vikruti* wheather in *dhatu* or *upadhatu*. According to that physician can treat the disease and also find out the *Sadhyasadhyatwa* of that disease. Because *dhatu vikruti* causes chronic diseases/disorders, meanwhile *upadhatu vikruti* causes acute diseases/ disorders. Whenever there is *vikruti* in *dhatu*, at that time there is presence of *vikruti* in *upadhatu* also. *Upadhatu vikar* gets cure on treatment of route *dhatu*. Therefore, significant knowledge about *upadhatu* gives proper direction to physician for diagnosis and treatment of disease. To know these *dhatu-upadhatu* terms better, there is significant difference between them as explained below:

Dhatu	Upadhatu		
1. Dhatu performs function of Dharan and	1. Upadhatu performs function of dharan,		
<i>Poshan</i> within the body.	but not <i>Poshan</i> within the body.		
2. Dhatu are nitya bhawa, as their presence	2. <i>Upadhatu</i> emerges few years after birth,		
since birth and performs <i>Dharan</i> function.	also not continue throughout life are called as		
	anitya bhawa.		
3. <i>Dhatu</i> always stays within the body while	3. In most of the cases, <i>Upadhatu</i> performs		
performs their function.	their function out of the body e.g. <i>stanya</i> ,		
personal and removal.	raja.		
4. Each and every <i>dhatu</i> have their own <i>Agni</i> .	4. <i>Upadhatu</i> don't have their own <i>Agni</i> .		
5. Formation of Dhatu happened from	5. No any element formed from <i>upadhatu</i> .		
consequent dhatu. e.g. Rakta dhatu formed			
from Rasa dhatu.			
6. Formation of <i>Mala</i> takes place from	6. There is no formation of <i>Mala</i> from		
Dhatu.	Upadhatu.		
7. Formation of <i>Dhatu</i> takes place since birth	7. Formation of <i>Upadhatu</i> takes place upto		
upto death.	certain age or period. e.g. stanya, raja, danta.		
8. <i>Upadhatu vikruti</i> is directly depends upon	8. <i>Dhatu vikruti</i> is independant upon <i>updhatu</i>		
Dhatu vikruti.	vikruti.		
9. Dhatu vikruti shows re <mark>sults as Sarv</mark> adehik.	9. <i>Upadhatu vikruti</i> shows results as <i>Sthanik</i> .		
10. Immunity and strength of that person	10. Immunity and strength of that person do		
depends upon <i>dhatu</i> .	not depend upon updhatu.		
11. Dhatus are unidirectional (Gatiman).	11. <i>Upadhatu</i> don't have their own direction.		
12. Dhatu vikruti causes chronic diseases.	12. <i>Upadhatu vikruti</i> causes acute diseases.		
13. But <i>dhatu vikruti</i> is easily treatable.	13. <i>Upadhatu vikruti</i> takes time to treat as		
	compare to dhatu vikruti.		
14. <i>Dhatu</i> never causes any <i>shalya</i> to body.	14. Few of upadhatu may act as shalya to		
	body e.g. danta, kesh.		

DISCUSSION: Discussion is the logical reasoning of the study which helps to summarise the conclusion of the study. It is very essential to discuss about the finding obtained during study which helps to improve knowledge. *Upadhatus* are byproduct of the *dhatu* metabolism but they cannot be considered as *Malas*. But they are nourished by the *prasadaj* part of *Dhatu*. But this term '*Upadhatu*' was not available in *samhita kala*. *Charakacharya* mentioned '*Upadhatu*' collectively as a unit. In 11th century, *Bhoja acharya* and *Gayadasa acharya* might have introduced term '*Upadhatu*'. In 11th and 12th century, *acharya dalhan* and *chakrapani* also contribute study to elaborate the concept of *upadhatu*. In *Sharangdhar samhita*, there is also brief explanation about *Updhatus* which is accepted by *acharya Bhawamishra* of 16th century. *Acharya Sharangadhara* added *Sweda, Danta, Kesha, Oja* to the list of *upadhatu* and deduct *sira, kandara, twak, snayu* from the list. Because these three are *mala poshaka* components of the body. So, it cannot be included under *upadhatu*, as *upadhatus* are nourished by *prasadaja* part of *dhatu*. *Vridhha Vagbhat* of *Ashtang Sangraha* adds *Sandhi* as a *Prasadaja* entity, which is accepted by *Dalhana*. *Dhatus* are dissimilar from *upadhatus* in some manner which are mention below:

- 1. *Upadhatus* are byproduct formed during metabolism of *dhatu*.
- 2. *Updhatus* do not get transformed into another component.
- 3. *Upadhatus* do not nourish *Dhatus* or any other body component.
- 4. Some of *upadhatus* in function for specific time only e.g. *raja*, *stanya*.
- 5. Some upadhatus act as mala bhawa in the body e.g. kasha, nakha.

Agni present at *upadhatu* level is a type of *Bhutagni* which is essential for any type of transformation. *Dhatvagni* of each *dhatu* is closely related with *upadhatu* because it resides at *srotasa*, which is responsible for *parinamana* of *dhatu* from one state to another state. Deteriorated status of *dhatwagni*

d461

affects the normal function of *upadhatu*. *Srotasa* is necessary to convey the nourishment to the abodes of *upadhatu*. So, it can be say that *upadhatu* have their own *srotasa* through which they receive their own nutrients. Hence it is stated that *dhatvagni*, *srotasa*, *vayu* plays an important role in the process of nourishment of *dhatu* and *upadhatu*.

CONCLUSION: Various acharyas at different period of time explained the concept of upadhatu in their own way. At first, Charakacharya has introduced the term Upadhatu. Later on many commentators have contributed significantly to elaborate the concept. Upadhatus are closely resemblance to dhatus. Upadhatus are byproduct of dhatu metabolism. They are nourished from Sukshma prasadaja portion of dhatus, which also nourishes successive dhatu. Because of that they show close resemblance to successive dhatu. dhatvagni, srotasa, vayu plays an important role in the process of nourishment of *upadhatu*. Status of *dhatvagni* is directly related to the normal functioning of upadhatu. Upadhatu have their concern srotasa through which they receive their own nutrients. Vayu is responsible for transportation of specific amount of nutrients to upadhatu. Widely upadhatus are classified under two categories i.e. structural entities and functional entities. Kandara, Sira, Snayu, Sandhi, Twak are basically involved to design the structural architecture of the body. Kandara is upadhatu of rakta, while snayu is upadhatu of meda. Both show anatomical and functional resemblance. Vasa is updhatu of mamsa which is lubricating in nature placed for smooth functioning of muscles. Twak provides physical barrier to the whole body against external environment which also provides platform for various functions of doshas and vayu. Sandhis are upadhatu of meda which are articulating joints of the body. All the movements of the body can occur due to presence of this entity. Significant knowledge about *upadhatu* gives proper direction to physician for diagnosis and treatment of disease. Upadhatus contribute important role in pathogenesis of diseases, because Kandara, Sira, Snayu, Sandhi are part of Madhyama roga marga, which are intricate for treatment.

REFERENCES:

- 1. Vridha Vagbhat, Ashtang Sangraha, Edited by Shivaprasad Sharma, Varansi, Chaukhamba Prakashan, Edition-2012.
- 2. Dr Brahmanand Tripathi, Charak-Samhita of Agnivesha, publish by chaukhamba Surabharati Prakashan, Varansi, Reprinted in 2006, Charak samhita.
- 3. P. K. Sharma, Bhagwan Das, *Charak samhita* (English translation), *Chaukhamba Sanskrit Sansthan*, *Varanasi*, 6th Edition.
- 4. Sharma PV, Sushrut Samhita, Chaukhamba Visvabharti, Varanasi, 2005.
- 5. Sharaf A, Bhavprakash Nighantu Pradeep, Aatreya Prakashan, Nashik, 2007.
- 6. Pt. Kashinath Shastri, *Charaka Samhita*-I. Ayurveda Dipika Commentor of *Chakrapanidatta*, Chaukhamba Sanskrit Sansthan, Varanasi, 6th edition, 2000.
- 7. Shaveta Sawhney & Piyush Versha: concept of Upadhatu in Ayurveda- A Review Article IAMJ, March 2018; 6(3):645
- 8. Vaidya Dattatraya Kodape, Kriya Sharir,(Human Physiology), Shri Dhanwantari Book Publishers, Nagpur, 4th Edition, 2021.
- 9. *Acharya Sharangdhara, Sharangdhara Samhita* with Hindi Commentary "*Dipika*" by Chaukhamba Surbharti, Varanasi, 6th edition, 2016.