

## Research Study Of Sapta Dhatu According To Ayurveda

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**ABSTRACT:** Dha in Sanskrit means to build. So Dhatu, in Ayurveda, means the building element of the body. In English, Dhatu is termed as Tissue. According to Acharya Charak (the principal contributor of Ayurveda), The human body is primarily made of seven Tissues or Saptadhatu (Sapta=seven, dhatus=tissues). Saptadhatu in Ayurveda are the seven body tissues. The dhatus are the structural components. They also maintain the functioning of different organ systems and play a significant role in the nourishment & growth of the body as well as the mind. Any imbalance in their quantity leads to disorders in body.

**KEYWORDS:** Dhatu, Ayurveda, Tissue, Acharya Charak, Saptadhatu, Components.

**INTRODUCTION:** The saptadhatu can be called the building blocks of the body. They are: i. Rasa (Plasma) ii. Rakta (blood) iii. Mamsa (muscle) iv. Meda (Adipose tissue) v. Asthi (bones and Cartilage) vi. Majja (bone marrow) vii. Shukra (Reproductive fluid)

**Origin and formation of Dhatu:** The food which we intake is digested, absorbed and assimilated by the bioenergy of the body called Agni. The most important Agni is Jatharagni which when works upon the ingested food, converts it into two parts: Saar and Mala.

1. Saar: Saar contains all the nutrients and energy which after various processes converts into dhatu.

2. Mala: Mala or Trimalas are the undigested waste matter of the body which is discarded.

Formation of Sapta dhatus can be compared with the ecological food chain pyramid. As In food chain, the food energy passes from one trophic level to other, similarly the formation and health of one dhatu is dependent on the previous dhatu. Each Dhatu is formed with the combination of Panchamahabhuta (The five great elements)- Fire, water, earth, air, space and Tridosha- Vata, Pitta and Kapha- regulate the Dhatus. Each Dhatu nourishes and supports updhatus (sub-tissue or secondary tissue).<sup>1</sup>

**Nourishment of dhatu:** Every dhatu has its own digestive fire (dhatvagni). Each dhatu gets digested by their respective dhatvagni and nutrients thus obtained helps to form the succeeding dhatu and sometimes updhatus too. Each dhatu nourishes the next dhatu. i. Food nourishes Rasa ii. Rasa nourishes Rakta iii. Rakta nourishes Mamsa iv. Mamsa nourishes Meda v. Meda nourishes Asthi vi. Asthi nourishes Majja vii. Majja nourishes Shukra.

### Overview of Saptadhatu:

#### 1. Rasa Dhatu

Origin: It is first dhatu. It represents plasma. This dhatu is formed in the digestive system soon after digestion. It is formed from the essence of the food we ingest.

Quantity: 9 anjali

Function: It is major constituent of human body. Its main function is preenana, i.e. nourishment of all the tissues, cells and organs. It mainly nourishes and strengthens blood.

Predominating mahaboot: Jal mahabhuta (water)

Dominant Dosha: Kapha

Dhatvagni: Rasagni

Corresponding Updhatu: breast milk(Stanya), menstrual flow (Rajastrav)

Mala produced: Sweat, tears and saliva, cough

Symptoms of Increase in Rasa dhatu:

- weak digestion • Vomitting • Nausea • Excess salivation • breathing related problems • cough • excessive sleep • sluggish digestion

Symptoms of Rasa deficiency:

- palpitation • increase in heart beat • pain in heart • early exhaustion • dryness in mouth and body parts • thirst • emaciation • intolerance to sound

Diseases caused due to imbalancing of Rasa dhatu:

- Poor appetite • pigmentation • wrinkles on face • pain in body parts • drowsiness • tastelessness • impotence • lack of interest in the food • fever

Treatment of Rasaj rog:

- fasting • taking rasayan • nourishment therapy (tarpan): for example, netra tarpan • therapeutic emesis, vamana(vomiting)

## **2. Rakta Dhatu**

Origin: Rakta dhatu is blood without plasma. This dhatu is formed by the nutrients present in Rasa dhatu.

Quantity: 8 anjali

Function: Its main function is jeevana, i.e. enlivening. It maintains life, transports oxygen to all the vital organs, clears complexion of skin, increases strength and immunity.

Predominating mahaboot: Agni and jal mahabhuta (fire and water)

Dominant Dosha: Pitta dosha

Dhatvagni: Raktagni

Corresponding Updhatu: Blood Vessels/vein (Shira), Fascia/Tendon (Kandara)

Mala produced: various pigments and acidic secretions

Symptoms of Increase in Rasa dhatu:

- Redness in skin • Redness in eyes • fullness of veins

Symptoms of Rasa deficiency:

- paleness in skin • loss of lustre from hair • weak blood vessels • dryness and cracks in skin • craving for sour and cold food items

Diseases caused due to imbalancing of Rasa dhatu:

Following disorders are caused due to blood vitiation:

- Anemia • leprosy • blood cancer • bleeding disorder • haematuria • discoloration of skin • state of confusion • saline taste in mouth • fetid odour in body • foul smell in nose and mouth

Treatment of Rakta rog:

- purification of blood • therapeutic purgation (virechana) • bloodletting (rakta mokshana) • pacification therapy (shamana) • therapeutic fasting

## **3. Mamsa Dhatu**

Origin: Mamsa dhatu represents the muscles. This dhatu gets nourishment from Rakta as well as Rasa dhatu.

Quantity: 3 anjali

Function: Its main function is lepana, i.e. protection and covering. It covers the delicate vital organs, enables movement and provides physical strength to the body.

Predominating mahaboot: vayu, jal and agni (air, water and fire)

Dominant Dosha: Kapha dosha

Dhatvagni: Mamsagni

Corresponding Updhatu: Muscle fat, skin

Mala produced: Earwax, mucus, eye discharges

Symptoms of Increase in Mamsa dhatu:

- thickness of buttocks, arms, thighs, cheeks • heaviness of body • extra muscular growth

Symptoms of Mamsa deficiency:

- loss in flesh of the buttocks, neck and abdomen • fatigue • dryness • craving for sour and cold food items

Diseases caused due to imbalancing of Rasa dhatu:<sup>2</sup>

- burning sensation in the body • thirst • swelling • skin disorders • tertiary fever • piles • inflammation of epiglottis • obstinate urinary diseases

Treatment of Mamsa rog:

- fasting • purification • application of alkali • cauterization • enema therapy

#### **4. Meda Dhatu**

Origin: It indicates fat and adipose tissue of the body. This dhatu is formed by the nutrients present in Majja dhatu in addition to Rasa and Rakta dhatus.

Quantity: 2 anjali

Function: Its main function is snehana, i.e. lubrication. It maintains the lubrication of all the tissues. It provides insulation to the body and increases strength, stability and nourishment to bone tissue. Predominating mahaboot: prithvi, jal and agni mahabuta (earth, water and fire)

Dominant Dosha: Kapha dosha

Dhatvagni: Medagni

Corresponding Updhatu: ligaments (snayu), joints (sandhi)

Mala produced: sweat, sebum

Symptoms of Increase in Meda dhatu:

- abdominal obesity • unctuousness of body • cough • bad body odour

Symptoms of Meda deficiency:

- decreased abdominal girth • exhaustion • cracking sound in joints • dryness and cracks in skin • craving for fatty food • weak muscles

Diseases caused due to imbalancing of Meda dhatu:

- obesity • diabetes • high cholesterol • emotional disturbances • numbness • thirst

Treatment of Meda disorders:

- adopting healthy lifestyle • regular yoga practices • therapeutic fasting • eating ghee, milk (in case of deficiency of meda)

#### **5. Asthi Dhatu**

Origin: It represents bones and cartilage. It is the hardest dhatu. This dhatu is formed from nutrients in Meda Dhatu in addition to Rasa, Rakta, and Mamsa.

Quantity: 206

Function: Its main function is dharana, i.e. to hold up body structure. It provides structure and support to the body. It protects internal organs, helps in movement. It also nourishes the bone marrow tissue. Predominating mahabhuta: Prithvi mahabhuta

Dominant Dosha: Vata dosha

Dhatvagni: Asthyagni

Corresponding Updhatu: No updhatu

Mala produced: body hair, nails

Symptoms of Increase in Asthi dhatu:

- bony growth • extra tooth • increase in body hair and nails • pain in bones and joints

Symptoms of Asthi dhatu deficiency:

- loss of body hair • loose joints • fatigue • breaking of teeth and nails • dryness

Diseases caused due to imbalancing of Asthi dhatu.

- extra growth of bones and teeth • discoloration of body hair • pain in body parts • fractures

Treatment of Asthi dhatu disorders:

- taking supplements with calcinated powder • enema • exposure to sunlight • panchakarma • oleation • eating food rich in calcium

## **6. Majja Dhatu**

Origin: It denotes bone marrow. This dhatu is formed in the digestive system soon after digestion. Quantity: 1 anjali

Function: Its main function is poorana, i.e. filling up bone cavities. It produces white and red blood cells, gives nourishment to shukra dhatu.

Predominating mahabhuta: Jala mahabhuta (Water)

Dominant Dosha: Kapha

Dhatvagni: Majjagni

Corresponding Updhatu: No updhatu

Mala produced: sebum, mucus of faeces, thick secretions from eyes

Symptoms of Increase in Majja dhatu:

- heaviness in eyes and entire body • formation of carbuncles in between joints

Symptoms of Majja deficiency:

- vertigo • weakness • pain in bones • hollow bones • blackouts

Diseases caused due to imbalancing of Majja dhatu:

- Osteoporosis • Rheumatid artheritis • osteopenia • blood cancer • vertigo • bone cancer

Treatment of Majja dhatu disorders:

- intake of food with sweet and bitter taste • exercise • body purification • enema

## **7. Shukra Dhatu**

Origin: Shukra dhatu relate to the generative tissue. It is the most powerful and refined dhatu. This dhatu is formed by the nutrients in the Majja Dhatu in addition to Rasa, Rakta, Mamsa, Meda, and Asthi. Quantity: half anjali

Function: Its main function is garbhotpadan, i.e. reproduction. It mainly nourishes and strengthens blood. It constitutes semen and ovum, increases courage and attraction towards opposite sex. Predominating mahabhuta: vayu, agni, prithvi, jal (air, fire, earth, water) in equal proportions.

Dominant Dosha: Kapha

Dhatvagni: Shukragni

Corresponding Updhatu: No updhatu

Mala produced: body hair, nails

Symptoms of Increase in Shukra dhatu:

- excessive production of semen • excessive libido

Symptoms of Shukra deficiency:

- weakness • anemia • delayed/absence of ejaculation • pain in reproductive organs • semen mixed with blood

Diseases caused due to imbalancing of Shukra dhatu:

- Impotency • non ovulation • non ejaculation of semen • weakness

Treatment of Shukra dhatu disorders:

- fasting • balanced diet • Aphrodisiac therapies (vajikarana) in case of diseases of semen • Jeevaneeyaghritam • chyavanaprasha

**Oj or Ojas:** The essence of all the seven dhatus is called Oj or Ojas. It is also known as mahadhatu. Quality of Oj is dependent on the quality of all dhatus. Reduction (Kshaya) of both the quality and quantity of each Dhatu leads to corrosion of immunity (Ojakshaya). From an Ayurvedic perspective, it takes about 30-35 days for the food to transform into seven tissues (dhatus). These Dhatus are the by-products of the food that a person consumes. Hence one should eat Good quality , nourished food, diet having rich fats , proteins , minerals , carbohydrates , aromatic herbslike ghee, dairy products such as milk and yogurt, root veggies , fruits and grains, etc . Apart from this , some satvik ( righteous ) practices such as - daily moderate exercise routine , yoga , meditation , seva & satsang , healthy relationship with all at every level must be included in daily life.

**DISCUSSION AND CONCLUSION:** Any disease where **vata-pitta-kapha** are involved, the vitiated **doshas** directly affect the **dhatus**. With insight into the governing **dosha**, the cause of a diseased **dhatu** is accurately determined. The disturbed **dosha** ( vata, pitta or kapha ) and improper **dhatus** are always directly involved in the disease process. Once the root cause of the illness is known, the corresponding therapies are used to balance the system through reducing the excess elements and increasing the deficient ones. Balance of the **dhatus** can be maintained by taking steps to keep the **tridoshas** in balance through a proper diet, exercise and recovery program.

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