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#### CONCEPT OF AGNIMANDYA & ROLE OF AMA IN VANDHYATVA

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#### **ABSTRACT**

In the Present era, human beings become very irregular in their lifestyle. A sedentary lifestyle and improper overeating habits lead to Vikriti of Agni. Due to the Vikriti of Agni, the food consumed needs to be adequately digested. The proper state of Agni keeps the body healthy. The concept of Agni governs the digestion and metabolism of food. Agni is responsible for the appropriate growth and development of the human body. Ayurveda describes 13 types of Agni. Agni specifically performs various enzymatic activities of the body, such as Deepan, Pachan, and Bhedan. If a person's Agni is normal or Prakrit, then that person will be healthy and long-lived. Bal, Swasthya, Pran, and Aayu of the body depend on Agni. When Agni is Dushti occurs, Samyak Pachan of Ahara gets disturbed, leading to indigested food (Ama formation). This Ama adheres to cell walls and obstructs the body's channels (Srotas) because of its sticky nature (Bahu pichhila guna). Multiple diseases are thereby brought on. Ama's effects also weaken the body's resistance and strength. According to Ayurveda, Mandagni or the Activity of Agni is the root cause of all diseases. So, to prevent and treat diseases, it is necessary to maintain the normal functioning of Agni.

Keywords: Agni, Ama, Agnidushti

#### INTRODUCTION

The term Agnimandya comes from the combination of the words Agni (Fire or Digestive fluids) and Manda (Low). Hence, Agnimandya refers to the state in which the power of Jatharagni (digestive fluids) is reduced, leading to improper digestion of food. According to Ayurveda, Agnimandya is the primary cause of all metabolic diseases, starting with Indigestion (Ajeerna). In present times, due to abnormal eating habits and mental stress of humans, many diseases arise by distorting Agni present in the body like Agnimandya, Ajeerna, etc. According to Ayurveda, there are 13 types of Agni present in the body, out of which 1 is Jatharagni, 5 are Bhutagni and 7 are Dhatwagni. Specifically, women had a somewhat higher prevalence of FGIDs (32.5%) than did men (30.9%). Among the several FGID categories, functional dyspepsia and constipation had the highest prevalence rates, at 10.7% (220/2057) and 9.3% (191/2057), respectively. 6.8% (140/2057), 2.2% (47/2057), 2.2% (46/2057), 1.5% (30/2057), 1.5% (32/2057), and 0.98% (20/2057) were the prevalence rates of the other FGIDs, in that order. Among these were fecal incontinence, functional heartburn, belching problems, functional diarrhea, and irritable bowel syndrome (IBS).

**Agni** - A thorough analysis is necessary to evaluate the scientific validity of many of the Ayurvedic concepts. The concept of *Agni* is one such aspect, the study of which is done here. The importance of *Agni* in the animal body is highlighted. It is said that all internal ailments stem from the vitiation of this *Agni*. The other factors that are responsible for maintaining health, producing diseases, and causing degeneration circle around this. *Nyaya-Vaishesika* states that *Agni* can be categorized into three groups:

Bhauma or the Physical fire.

- i. *Divya* or the celestial fire like the lightning, sun rays, moon, and the stars.
- Audarya, or abdominal fire, is responsible for digestion and metabolism.
- iii. Akaraj which is present in metals such as gold and silver.

Aside from its role in digestion, *Agni* also produces strength, which is divided into two halves –

- Strength to withstand illness and deterioration in the human body
- Strength to engage in physical activity.

The metabolism of tissue generates heat and energy, which is the direct result of *bala*, or strength.

The Pitta idea in this system reflects *Agni* in Ayurveda. The root "*Tapa*" is where the word "*Pitta*" originates. This term has three interpretations: *Tapa aishwarye*, *Tapa daahe*, and *Tapa santaape*.

- Tapa santape refers to the generation of heat.
- *Tapa daahe* relates to the act of burning the nutrition consumed.
- *Tapa aishwarye* refers to the factor that is responsible for helping one achieve the benefits.

The medical term for an abnormality in food digestion or poor digestion is called dyspepsia or indigestion. Several digestive problems, including upset stomach and gas (belching or flatulence), are called "indigestion". According to Ayurvedic medicine, eating without moderation and not following dietary regulations can lead to indigestion or Ajeerna. This makes preexisting conditions worse and raises the possibility of food poisoning. Prevalence rate of Dyspepsia worldwide is 20-30%, and in India it is 30-49%.

#### AIMS AND OBJECTIVES -

- To study the concept of *Agni* and *Ama* according to Ayurveda.
- To understand the importance of *Agni* in treating *Vyadhi* concerning current research work.
- To study the role of *Ama* in different *Vyadhis*.

#### **MATERIAL AND METHODS -**

A review of Ayurvedic writings served as the foundation for this article. There is a collection of materials on *Agni, Agnimandya*, and other pertinent subjects. The primary Ayurvedic texts utilised in this research are *Ashtanga Hridaya, Sushrut Samhita, Madhav nidana*, and *Charak Samhita*, together with any relevant commentary on these works. To learn about recent studies on the pertinent subjects, we have consulted various websites and scholarly magazines.

## Role of Agni in Ayurveda -

The central concept of Ayurveda is *Agni* or digestive fire. It controls all metabolic functions, such as diges-

tion, excretion, and absorption. To put it simply, Agni is the energy that converts food into waste and fuel. Its equilibrium is essential to our lives and provides the basis for good health. In Ayurveda, the anatomy, physiology, pathology, and diagnosis of the human body are explained by the principles of Triguna (Sattva-Raja-Tama), Tanmatra, Panchamahabhoota, Tridosha (Vata-Pitta-Kapha), and Agni. According to Ayurveda, Agni is a physical fire, and a liquid state called "Pitta." According to Acharya Charaka, Agni and Pitta are inseparably interconnected in metabolic processes, and Agni cannot exist independently of Pitta. Food ingestion and metabolism involve the interaction of multiple Agnis, including Dhatvagni, Jatharagni, and Bhutagni. Jatharagni initiates the process of food digestion and encourages Bhutagnis, who disintegrates food into its parts. Dhatvagni uses the circulation in the Srotas to help her break down these digested nutrients so that the body's tissues can be powered. Jatharagni must function adequately to preserve health and prevent sickness. When Jatharagni is balanced, it supports immunity (ojas), strength, longevity, complexion, and other vital body processes. Imbalances in the Jatharagni can bring on many diseases and health issues. Ultimately, Ayurveda emphasises how Agni's condition affects the body's ability to remain healthy and how illness arises. In human bodies, Agni has various functions. Agni is responsible for breaking down food into tiny particles during digestion to facilitate the easy absorption and assimilation of nutrients.

**Metabolism**: It controls the metabolic reactions that turn food into tissues and energy.

**Detoxification**: *Agni* assists the body in eliminating harmful substances known as *Ama*. As such, it is an essential element of interior harmony and purity.

**Encourage mental stability**: *Agni's* role is to support mental qualities like comprehension, concentration, and clarity. *Agni* is, therefore, in charge of having a clear and focused mentality.

**Immunity**: Strong and balanced *Agni* is vital for the functioning of the immune system by producing healthy tissue and immune cells.

#### TYPES OF AGNI:

There are 13 types of *Agni* mentioned in *Samhita* and it is divided into three main categories:

- 1. Jathragni
- 2. Bhutagni
- 3. Dhatavagni

Apart from these types of *Agni*, there are mainly four major types of *Agni* mentioned

- 1. Samagni
- 2. Vishamagni
- 3. Tikshagni
- 4. Mandagni

Effect of Vishamagni (Irregular Agni) and Tikshanagni (Excessive Agni)

विषमो धात्वैषम्यं करोति विषमं पचन्।

तीक्ष्णो मन्देन्धनो धातून् विशोषयति पावकः॥५०॥

The *Vishamagni* causes improper digestion, which causes the *Dhatus* to form unevenly. The *Tikshnagni* (Excessive *Agni*), with a small amount of food, digests the complete food and starts digesting The *Dhatu*.

#### Samagni

युक्तं भुक्तवतो युक्तो धातुसाम्यं समं पचन्। Agni is Sama, or in a balanced state, when the right diet plan (described in [Cha.Sa.Sutra Sthana 5] and [Cha.Sa.Vimana Sthana 1/21]) is also followed. This results in appropriate food digestion, which supports preserving the dhatu's proper balance.

#### Mandagni

दुर्बलो विदहत्यन्नं तद्यात्यूर्ध्वमधोऽपि वा॥५१॥ Durbala (weak) Agni brings about partial digestion of food. These partially digested bio substances then enter circulation, which may move either upward or downward. Acharya Charak said, "Agni is the only factor whose presence is survival and absence is death." Grahani (the organ representing duodenum and small intestine) is the site of Agni (digestive enzyme). Agni lives dependent on their walls. Grahan means "to wear". Grahani, situated in the upper part of Nabhi, holds the food, digests the undigested food, and moves the digested food forward through its lateral walls. When Jatharagni becomes weak, Grahani also becomes contaminated, and then Pakwa-apakwa

anna starts coming out from the Guda marga. The state of Agni is totally under the control of Tridosha, which depends upon food intake. E.g., If Agneyamsha does not much exist in food, the state of Agni results in a Manda state. Where the predominance of kapha Lakshana. Prana Vayu, Samana Vayu, and Apana Vavu have played pivotal roles in regulating the gastrointestinal tract, more so Samana Vayu about Jatharagni. Samana Vayu is present near Agni, and it moves throughout the koshtha. In addition, it is stated that it enables the reception, digestion, and consumption of food. Thus, the entire digestive, absorption, and metabolic process regulated by *Tridosha*, in general, specifically Samana Vayu, has a predominant role in regulating Jatharagni and its moieties. Hence, Samana Vayu became the key factor in the formation of Ama.

#### Causes of Vitiation of Agni -

Vitiation of *Agni* can be caused by overeating, overindulging in food even when it causes indigestion, overeating, irregular eating habits, eating unwholesome food, indulging in food that is difficult to digest or has too much nutritional value, eating food that is dry or emaciating, contaminated food, perversion of procedures like *vamana*, *virechana*, and *sneha*, emaciation of body due to disease, sudden migration to an inappropriate place and time, and suppression of natural urges. Therefore, even light food cannot be digested by vitiated *Agni*.

This vitiated digestive agent first generates an intermediate material known as *Ama*, which ferments to sour (*Shukta*) and then transforms into a Poisonous Substance (*Amavisha*).

### Signs and Symptoms of Agnidushti (Indigestion)

This poisonous substance (*Amavisha*) manifests clinical features like flatulence, uncomfortable physical and mental miseries, headache, altered consciousness, giddiness, stiffness of the back and lumbar region, yawning, body ache, Obstruction of Urine and faeces malaise, morbid thirst, fever, vomiting, tenesmus, anorexia, and indigestion.

### Ama (Undigested food) -

The word *Ama* is used in everyday language to describe the unripened fruit, i.e., before its usual season of ripening. *Ama* word has meanings of "*Isatpakwa*",

Asiddha, Apakwam, Vyastatam, etc. In the Ayurveda text, Vagbhatta states that "The first dhatu, i.e. the rasa of chyle (not rasa dhatu), which is not formed properly due to hypo functioning of Ushma (Agni), being retained in Amashaya and undergoing fermentation or putrefaction (Dushti)". It is this state of rasa known as Ama.

**Definitions** – *Charak* says, "the undigested food which resulted due to various causes of *Mandagni* attain *suktwa* (fermentation) leading to a set of toxic states called as *Amavisha*".

Sushrut further adds 'vranapakabhave', i.e., "Vrana until it gets paripakwa state is called an Ama condition temporarily."

In *Shabda kalpa druma*, one more is added, stating that "*Ama* is the factor in causation of *Shatprakara Ajirna*.

Sharangdhar says, "The Samyak pakwa ahara rasa is called as "Rasa" and the apakwa ahara rasa as "Ama".

After going through all the definitions, three keywords, 'Ama', 'Amadosha', and 'Amavisha' 3 convey the same meaning. These words were coined for different states of apakwa dravyas.

<u>Amotpatti</u> – Let us discuss the role of specific obscure causes in the production of *Ama*.

**Primary causes** – Primary causes are those that have a direct influence on *Agni* leading to *Mandagni*, *which is* there by *Amotpatti*.

#### **Direct causes**

- ➤ Dietic incompatibilities Ansana, Atibhojan, Abhojan, Viruddha ahara, Atyambu swan
- ➤ Adverse effects of *Shodhana* therapy *Vamana*, *Virechana*, *Vasti*, including *Sneha Sweda*.
- Vega sandharana
- ➤ Unhygienic conditions and not following *Ahara* vidhi visheshavatan
- Manasika vikara –

#### **Indirect causes**

- ✓ Any disorders leading to *Agnimandyata*
- ✓ Any disorders leading to emaciation
- ✓ All kaphaj vikaras



Mental tension, stress, strain, and emotional instabilities like fear, anger, greed, anxiety, depression, etc., have a tremendous somatic impact on bringing down the digestive power.

The sympathetic nervous system and adrenaline have an inhibiting effect on gastric secretions, leading to the *mandagni* condition.

**Secondary causes**—Secondary causes trigger the *doshas* first, thereby affecting the *agni*, *leading to mandate*, *or Amotpattii*.

All *Kaphaj* and *Pittaj vikaras* are *Ama* in nature, further aggravating the *Amotpatti* by affecting *Agni*. Without *mandagni*, no *ama* production results; thus, *mandagni* is an intermediate and premier factor in the production of *Ama*.

Some of the disorders which in turn cause mandagni there by Ama –

- Grahani
- Ajeerna
- Jwara
- Rajayakshma
- Gulma
- Shotha
- Amavata
- Atisara
- Pravahika
- Arsha
- Udar roga

#### Role of Ama in Vandhyatva (Infertility) -

<u>Introduction</u> – According to *Shabda Kalpa Drum*, A woman who has any form of obstacle in the regular process of conception is referred to as a *Vandhya*,

A condition where a couple experiences difficulties conceiving or becoming pregnant after one year of regular sexual activity without the use of birth control. A problem with either the man or the woman, or both, can be the root of infertility.

Ritu, Kshetra, Ambu, and Beeja have all been identified as contributing factors in conception. Ritu is a Kapha phase that follows the proliferative period in

the uterus during ovulation. A healthy female vaginal tract, or kshetra, will make it easier for sperm to enter the body. Ambu contains hormones and nutrients disorders of the sperm and egg. Illness in Ritukala, A time of kapha-pitta preponderance, is known as ritual. Fertility may be abnormal if it is influenced by vata or pitta. Kshetra (the female vaginal tract) disorders of Fallopian tube obstruction and vaginal, cervical, or uterine pathologies that are hostile to spermatozoa are known as Margavarodha and Vyapannayoni, respectively. Ambu (nutritional fluids) disorders, dietary deficiency, amniotic fluid issues, or Garbhasravi ailments. In Bija, Subfertility can be brought on by Artavadosha or sukradoshas. It occurs due to an unbalanced lifestyle, inadequate digestion, or toxins in the body that disrupt the reproductive system. Ayurvedic infertility therapy improves health by supporting the body's balance. It focuses on how improving infertility treatment can improve an individual's overall health and quality of life. A recent WHO research states that infertility affects a significant portion of the population at some point in their lives. One in six adults globally, or 17.5% of the population, suffer from infertility, indicating the critical need to expand access to high-quality, affordable reproductive care for those who require it. The latest findings indicate that there is little regional difference in the prevalence of infertility. The figures show that this is an enormous worldwide health concern for high-, middle-, and lowincome nations. In high-income nations, the lifetime prevalence was 17.8%, while in low- and middleincome nations, it was 16.5%.

#### Female causative factors -

The important causative factors of female infertility can be classified as follows:

- 1. **Indirect or non-specific factors** These include *mithya ahara-vihara*, which are causative factors for *Vatadidosha prakopa* and *Amotpatti*.
- 2. **Direct or specific factors** These include primary and secondary factors.

**Primary factors** – These factors are causes of defects in *Ritu, Kshetra, Ambu,* and *Beeja*.

- a) Defects in Ritukala eg. Nashtartava
- b) Defects in *Kshetra* Diseases of the reproductive organ that can be classified as
  - Functional diseases eg. *Pradushta artava*, *Shweta pradaraetc*.
  - Organic diseases eg. Karnini, Mahayoni,
     Udavarta, Yonikanda, Yoniarsha,
     Garbhashaya arbuda, etc.
  - Congenital abnormalities eg. Antarmukhi, Suchimukhi, Sandiyoni, etc.

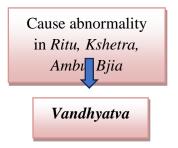
- c) Defects in *ambu* Improper formation of endometrial bed because of the defect in nourishment from *rasadhatu*.
- d) Defects in Beeja 1. Abnormal formation of Stree beeja (Ovum)
- 2. Abnormal formation of *Shukra beeja* (Sperm)

**Secondary factors** – Factors that are responsible for causing abnormality in *Ritu*, *Kshetra*, *Ambu*, & *Beeja*. Eg. *Madhumeha*, *Manasika roga*, Thyroid abnormalities, etc.

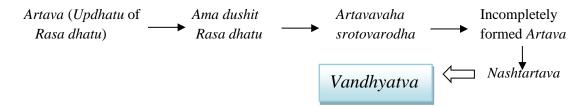
#### Role of Ama in Samprapti of Vandhyatva -

Ritu, Kshetra, Ambu & beej are the chief factors responsible for conception.

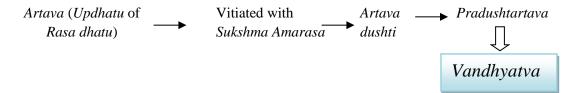




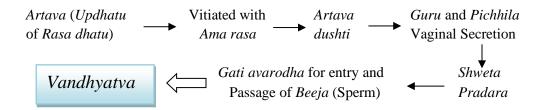
1. Samprapti of abnormality in Ritukala -



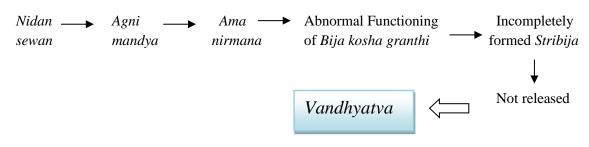
- **2. Samprapti of abnormality in Kshetra** Healthy Reproductive organs are responsible for conception, which are maintained functionally and structurally by proper nourishment from *Rasadhatu*. When *Rasa dhatu* is vitiated with *ama* it causes functional and structural abnormalities of *Kshetra*.
  - a) Pradushta artava (Menstrual abnormalities): -



b) Shweta pradara (Pelvic inflammatory disease): -

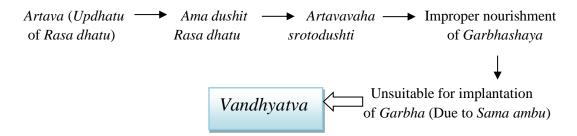


c) Beejkosha granthi Shopha (PCOD): -



Stribija

#### 3. Samprapti of abnormality in Ambu –



- **4. Samprapti of abnormalities in Beeja** *Shuddha shukra* and *Shuddha artava* are responsible for *Garbha* formation.
  - a) Samprapti of Abnormality in Shonit beeja (Ovum): 
    Mithya ahara
    Vihara

    Ama nirmana
    due to mandagni

    Rasa dhatu

    Improper formation
    of Shukra dhatu



# Chikitsa of Agni and Ama -

Nidana parivarjana i.e. Lifestyle modification is the most important and first line of treatment for diseases. Agni dushti and Ama formation is a very important treatment protocol because it is mainly caused by Vikriti in Nidana (Hetu), Dosha, Agni, and Srotas. Acharya Charak says that "No drug should be administered in Acute Ama condition" because of Mandagni i.e. insufficiency of Agni even to digest and assimilate the drug. Acharya Vagbhatta classified Ama dosha into 3 varieties – Langhana, Langhana-pachana, and Doshavasechana in mild, moderate, and severe conditions according to its severity. Sometimes it becomes difficult when dosha & Ama guna are at different poles. eg. When Ama and Vata are together involved, both have opposite lines of treatment, in this condition

treatment becomes difficult because of *Viruddha-upkramatvat*. In such conditions firstly *Pachana Dra-vya* should be given and wait up to *Ama vilayana* and then go for *Dosha nirharana* (*Shodhan karma*).

According to *Sthana Samsraya*, the principle of treatment varies.

**Sthoola Amarasa chikitsa**- *Sthoola amarasa* condition when *ama* is in *koshtha*, it can be eliminated conveniently either by *Urdhwa* or by *Adho marga* according to the principle of '*Asanna margen nirharet*'.

eg. If it is in abundance at *Amashaya*, it naturally causes *Utklesh/chhardi*, or if it is in abundance at *Adho amashaya*, it causes *Atisara*. Hence in such conditions the natural process of elimination by *Shodhan karma* through the nearest *marga* should be done.

#### Sukshma Amarasa chikitsa -

If Ama gets absorbed into the circulation, it is called Amarasa, which spreads all over the body and tissue. In such a condition, it will not come under the purview of Shodhana karma alone. Karma such as Swedan, Langhana, Deepan, and Pachan proceeded according to the involvement of dosha and dhatu. In acute conditions, the ama through circulation reaches every cell and tissue and next, it settles at any Srotovaigunya dhatu. Hence the treatment varies according to the site of pathogenicity and involvement of dosha.

If the *ama* is uniformly spread in all the tissues of the body *Swedan*, *Langhan*, *Pachan*, and *Deepan karma* are useful, whereas *Shodhan karma* is contraindicated.

#### **DISCUSSION**

According to the fundamental principles of Ayurveda Agni has an important role in the physiological functioning of the body. In Ayurveda, Agni is considered to be the root of life. The root cause of Ayu, Bala, Varna, Swasthya, Utsaah, Sharir samwardhan, Prabha, Oj, Dehagni, and Prana is the proper functioning of Jatharagni. Jatharagni is the most important Agni among all. The specific type of Jatharagni is of 4 types - Samagni, Vishamagni, Tikshagni, and Mandagni. In Mandagni, Agni gets decreased as a result of its digestion of food becoming affected which is known as Ama. Nowadays due to a sedentary lifestyle, overeating and mental stress, Ama formation occurs. In the initial stage, it is easy to remove Ama from the digestive tract, but it becomes much more difficult to do so once it spreads into deeper tissue. When ama builds up within the body, it eventually clogs the channels (Srotamsi) and interferes with tissue nourishment. Ama is not only harmful but also interferes with the cellular level and affects physiological function. Ama binds and clogs individual cell membranes when it enters deeper tissue preventing cellular communication and reducing immunological response. This ultimately results in cellular loss of intellect, which can give rise to even more dangerous diseases like Cancer or Autoimmune disorder. As the *Ama* is destructive in nature, positive thinking is important in the healing process.

It is therefore equally crucial to focus on honoring our bodies and their innate capacity to process and eradicate *Ama* (with the right support). Remember that completely balanced *Agni* prevents *Ama* formation. Therefore, proper care of *Agni* is ultimately just as crucial as getting rid of *Ama*.

For maintaining an imbalanced *Agni* and for *Agni*'s optimal functioning some important protocols or aid are given below:

#### **✓** The Importance of Healthy Digestion –

As an introduction to the critically important Ayurvedic concept of *Agni*, this resource explores the role of *Agni* in maintaining health and vitality throughout the body.

# ✓ The Importance of Agni –

This article explores the specific functioning of *Agni*, as well as the signs and symptoms of both healthy and impaired *Agni*.

### ✓ The Four Varieties of Agni –

This article compares balanced *Agni* to different types of imbalances that can disrupt it when excess *Tridosha* accumulates in the body and offers appropriate therapy for each type of imbalance.

✓ An Ayurvedic Guide to Healthy Elimination – For the successful eradication of *Ama*, the elimination process is crucial. This resource provides a comprehensive look at healthy elimination through the lens of Ayurveda; it highlights the importance of healthy bowel habits and stools, offers some general tips for supporting proper elimination, and links to more specific articles on *Vata*, *Pitta*, *Kapha*–type elimination.

#### CONCLUSION

In Ayurveda, 'Kaya' means Agni. Agni does the work of Digestion, Metabolism, Absorption, and Assimilation in the body. The absence of Agni causes many types of diseases. Due to the modern busy lifestyle, a person does not pay special attention to his food habits which play an important role in the formation of Ama due to the Dushti of Agni. The formation of Amavisha in itself is the cause of the origin of many dangerous diseases. To stop this process, the treatment of Agni and even before that its protection is very important.

Therefore, the *Agni needs* to remain balanced to run all the functions of the body. For this, *Agni* should be protected in a specific way by following a proper diet, *Dincharya, Ritucharya, Achar rasayan*, and *Sadvritta*, and by following the measures mentioned in Ayurveda.

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