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# THE SYSTEMATIC CONCEPTUAL STUDY ON AMAVATA (RHEUMATOID ARTHRITIS)

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### **ABSTRACT**

Madhavakara (700 AD) described first time Amavata as a separate disease entity in details. Ama and Vata have important role in Nidana (etiology) as well as in Chikitsa (treatment) for Amavata. Amavata is very closely resembles with Rheumatoid arthritis on the basis of its pathogenesis and clinical manifestations. Viruddh ahara (Unwholesome Diet), Viruddha cheshta (Erroneous Habits), Mandagni (Diminished Agni), Nishchalata (Sedentary Life), Snigdham bhuktavatohi annam vyayamam (Exertion immediately after taking Snigdha Ahara i.e. oily food) are important causative factors for Amavata. Pratyatma Lakshana (Cardinal Clinical Features), Samanya Lakshana (General Clinical Features), Doshanubandha Lakshana (Clinical features according to Dosha predominance) and Pravriddhavastha Lakshana (Clinical features in aggravated condition) are manifested in Amavata. Samprapti (Pathogenesis), Upadrava (Complications) and Sadhyasadhyatva (Prognosis) of Amavata are clearly described in Madha Nidan. The principles of treatment of Amavata have been first described by Chakradatta. Pathya and Apathya for Amavata have been mentioned by in Bhaisajya Ratnavali. Purvarupa (Prodromal symptoms), Samprapti Ghataka (factors for pathogenesis), Sapeksha Nidana (Differential diagnosis) and Upashaya (Reducing factors)-Anupashaya (Aggravating factors) of Amavata are described by different authors.

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# INTRODUCTION

In Ayurveda, most of the diseases have been taken nomenclature by consideration of the vitiated dosha, dushya, marga, nidan, lakshan, samprapti e.t.c of the concerned disease. In the same way Amavata nomenclature has been done on the basis of its two predominant pathological factors i.e. Ama and Vata having their important role in Nidana (etiology) as well as in Chikitsa (treatment) for the disease Amavata. The term Amavata consists of two words Ama and Vata. Ama is an important causative factor which is associated with vitiated Vata dosha and producing the disease Amavata. The entity Amavata has been described in different Ayurvedic texts since ancient period in different context. The Amavata as a special disease entity was mentioned first by Madhavakar. Pancha Nidan or Nidan panchak i.e. Nidan (etiology), Purbarupa (prodromal symptoms), Rupa (clinical features), Upashaya (Reducing factors)-Anupashaya (Aggravating factors) and Samprapti (pathogenesis) of Amavata are described by different scholars in Ayurveda. Rheumatoid arthritis is a chronic, progressive autoimmune arthropathy and characterized by bilateral symmetrical involvement of joints with some systemic clinical manifestations<sup>1</sup>.

*Amavata* is very closely resembles with the Rheumatoid arthritis on the basis of its pathogenesis and clinical manifestations.

### HISTORY OF AMAVATA

As a reference the entity Amavata is available since the period of Charaka in the context of various treatments of the disease. Madhavakara (700 AD) described first time Amavata as a separate disease entity in details with a full chapter (25<sup>th</sup>) for Amavata in his famous treatise Madhava Nidanam narrating vividly the aetiology, pathogenesis, signs, symptoms and complications of this disease in a systematic manner. Amavata is described since ancient period which can be shown in the following manners:

- Vedic Kala: In texts of the Vedic Kala Amavata word is not mentioned but Ama related words have been noticed in Rigaveda and Atharvaveda. The term Ama is found in different forms like 'Amayath' and 'Amayatham' in Rigaveda.<sup>2</sup> 'Amaya' and 'Amayam' words are found in Atharvaveda in the context of a disease caused by Ama which is toxic or harmful substance.<sup>3</sup>
- Samhita Kala: In Samhita Kala Amavata is not mentioned as a special clinical entity in Ayurvedic texts but few

descriptions have been noticed in context with Ama or Amavata. The term Amavata is mentioned in Charak Samhita in the context of therapeutic uses of Kansa Haritaki, therapeutic uses of Vishaladi Phanta and in case of Avarana of Vata with Ama. In Sushrut Samhita Ama has not been described. Nidana (etiology), Rupa (clinical features) and Chikitsa (treatment) are described in Bhel Smihita in context of Ama Pradoshajanya Vyadhis and most probably it may be like that of disease Amavata. Harita Samhita and Anjana Nidana both have described Amavat but due to some controversial reason these are not considered in Samhita Kala.

• Sangraha Kala: Amavata is described more precisely as a specific disease entity in different texts in the Samraha kala. Vagbhatta first mentioned as a Samavata in the Astanga Hridaya and described its clinical features likely to Amavata. Madhavkara first mentioned Amavata as a specific disease entity in his book Madhav Nidan and described etiology, pathogenesis, clinical manifestations, classification and prognosis of Amavata elaborately. Later many authors described vividly Amavata as a disease in their book such as Vrindamadhava in 9th Cent., Chakradatta in 11th Cent., Vangasena in 12th Cent., Gada Nigraha in 12th Cent., Sharangadhara in 13th Cent., Rasaratna Samuchyaa in 13th Cent., Bhavaprakasha in 16th Cent., Yoga Ratnakar in 17th Cent., Yoga Tarangini and Bhaisajya Ratnavali in18th Cent. etc.

#### NIDANA (ETIOLOGY) OF AMAVATA

As per opinion of Acharya Charaka, single causative factor may generate single disease or many causative factors together may generate single disease and vice-versa. Amavata (Rheumatoid arthritis) is a disease having a multi-factorial aetiology. Acharya Madhavakar has described the causative factors specifically responsible for the disease Amavata which are Viruddh ahara (Unwholesome Diet), Viruddha cheshta (Erroneous Habits), Mandagni (Diminished Agni), Nishchalata (Sedentary Life), Snigdham bhuktavatohi annam vyayamam (Exertion immediately after taking Snigdha Ahara i.e. oily food).

Viruddha Ahara: Viruddha means unwholesome or not suitable for our health and Viruddha Ahara vitiates the doshas. Acharya Charaka has mentioned 18 types of Virudha Aharas which are Desha (Place) viruddha, Kaal (Time) viruddha, Agni (Digestion power) viruddha, Matra (Dose) viruddha, Satmya (Suitability) viruddha, Sanskara (Processing) viruddha, Doshaviruddha, Virya (Active Principle) viruddha, Koshtha (Bowels) viruddha, Avastha (State of health) viruddha, Krama (Order) viruddha, Parihara (Contra Indication) viruddha, Upachara (Prescription) viruddha, Paka (Cooking) viruddha, Sanyoga (Combination) viruddha, Hrita (Palatability) viruddha, Sampat (Richness in properties) viruddha, Vidhi (Rules of eating) viruddha.

Viruddha Cheshta: Cheshta means habits and Viruddha Cheshta means some erroneous habits which exert unfavourable effect on our health and it also vitiates the doshas. viruddha ahara has been mentioned specifically in Ayurvedic classics but viruddha cheshta is not described clearly. Some habits may be considered as Viruddha cheshta which are Vega vidharana (avoid essential urges), Vega udirana (intentionally increase urges), Divaswapa (day sleep), Ratri jagarana (awakening at night), Ativyayama (excessive physical exercise), Vishama shayya shayana (sleeping in improper posture), Ativyavaya (excessive sexual intercourse). 12

**Mandagni:** Mandagni means diminished of such factors which are responsable for proper nutrition of our body. So, *mandagni* is the vital cause of all diseases.

*Nishchalata*: *Nishchalata* means inactiveness in physical work or it is the habit of sedentary life style. It causes the aggravation of *Kapha dosha* which is responsible for *mandagni*.

**Snigdham bhuktavatoha annam vyayamam:** Any person when starts physical work or exercise immediately after taking snigdha ahar i.e. oily food, maximum blood circulation will be shifted to skeletal muscles, as a result digestion and absorption will be hampered which disturbs the normal metabolism and assimilation of ahara (food).

**Purvarupa** (Prodromal symptoms) of Amavata: Only in Vangasen Samhita Purvarupaor (prodromal symptoms) of Amavata had been mentioned which are Shiraruja (Chephalgia) and Gatraruja (bodyache). <sup>13</sup>

**Rupa** (Clinical features) of Amavata: The Rupa/Lakshana (Clinical features) of Amavata have been described vividly by Madhavakara, Bhavamishra and others. It can be described as follows:

### PRATYATMA LAKSHANA (CARDINAL CLINICAL FEATURES)

Sandhi Shula (Joint-pain), Sandhi Shotha (Joint-swelling), Sandhi Stabdhata (Stiffness of joint), Sandhi Sparshasahyata (Tenderness over joint).

#### SAMANYA LAKSHANA (GENERAL CLINICAL FEATURES)

Angamarda (bodyache or malaise), Aruchi (anorexia), Trishna (thirst), Alasya (laziness/lethargy), Gaurava (heaviness of body), Jwara (fever), Apaka (indigestion), Angashunata (oedema of deferent parts of body including joints).<sup>14</sup>

Doshanubandha Lakshana (Clinical features according to Dosha predominance): Vatanubandha - Ruka (pain). Pittanubandha - Daha (burning sensation), Raga (redness of affected joints). Kaphanubandha - Stimita (lack of mobility), Guruta (heaviness), Kandu (itching). VataPittanubandha - Ruka (pain), Daha (burning sensation), Raga (redness of affected joints). VataKaphanubandha - Ruka (pain), Stimita (lack of mobility), Guruta (heaviness), Kandu (itching). KaphaPittanubandha - Stimita (lack of movility), Guruta (heaviness), Kandu (itching), Daha (burning sensation), Raga (redness of affected joints). Sannipataja - Symptoms for all three doshas. 15

Pravriddhavastha Lakshana (Clinical features in aggravated condition): Agnidaurbalya (lack of digestive capacity), Praseka (excessive salivation), Aruchi (anorexia), Gaurava (heaviness of body), Vairasya (improper taste sensation), Ruja and shotha in Hasta, Pada, Shiro, Gulpha, Trika, Janu, UruSandhi (pain and swelling in hands, legs, head, ankle, lowback, knee, hip joints), Vrishchika damshavata vedana (scorpion bite like pain), Utsahahani (lack of enthusiasm), Kukshikathinya (tightness in abdomen), Kukshishula (pain in abdomen), Vibandha or Vidvibaddhata (constipation), Antrakujana (borborygmi), Anaha (bowel and urine not clear), Chhardi (vomiting), Hridgraha (pain in precordial region), Jadyata (less physical activity or stiffness of the body or immobility), Bhrama (vertigo), Murchcha (lack of sensory & motor functions), Nidraviparyaya (disturbed sleep), Daha (burning sensation), Bahumutrata (polyuria). 16

# UPASHAYA (REDUCING FACTORS)-ANUPASHAYA (AGGRAVATING FACTORS) OF AMAVATA

The factors which are *Ahara* (dietary regimens), *vihara* (daily life activities) and few medicaments helping to reduce the clinical manifestations of the disease or disease process are known as *Upashaya*. On the contrary, the factors which help to aggravate the clinical manifestations of the disease or disease process are known as *Anupashaya*.

Upashaya: Katu (pungent), Tikta (bitter), Ruksha (rough) drugs, Deepan (gastric stimulant), Pachan (digestive) drugs, Langhan (lightness the body), Ruksha Sweda (dry hot fomentation), Ushna Kala (summer season) etc.

Anupashaya: Amla Rasa (sour taste), Santarpana (heavy meal), Sheeta Kala (winter season), Meghodaya Kala (cloudy weather),

Prataha Kala (morning), Abhyanga (massage) Snehayukta Sweda (fomentation with oil) etc.

### SAMPRAPTI (PATHOGENESIS) OF AMAVATA

Intake of ahita ahara (faulty diet) and ahita vihara (faulty daily life activities) produces agnimandya (impaired digestive function) and dosha prokapa (aggravation of dosha) especially vata dosha. As a result ingested foods are not digested properly and undigested food materials generates Ama or Apakka ras (impaired substances) in the Amasaya (stomach), then it is absorbed in the system and it is taken up by the aggravated and vitiated vata dosha especially to the Kapha sthans mainly Sandhi (joints), Uras (chest), Kantha (throat) etc. and this Ama or Apakka ras (impaired substances) enters Dhamani (channels) with the help of aggravated Vata. Here it amalgamates with the existing prokopita (aggravated) doshas and vitiated further in more and creates distress or obstruction into the body channels due to excessive unctuous nature of Amarasa i.e. Ama (impaired substances). This Ama is important responsible factor for producing the clinical manifestation of Amavata. 17

# SAMPRAPTI GHATAKA (FACTORS FOR PATHOGENESIS) OF AMAVATA

Dosha :Vata-Kapha-pradhana Tridosha

(Samana and Vyana Vayu, Kledaka and Shleshmaka Kapha and Pachaka Pitta)

Dushya :Rasa.
Srota :Rasavaha
Srotodushti :Sanga.

Agni : Jatharagni, Dhatvagni.

**Rogamarga**: Madhyama.

Udbhava Sthana : Amashaya, Pakvashaya.

Adhisthana : Sleshma Sthana (Specially Sandhi)

Vyadhi Swabhava: Chirakari.

# UPADRAVA (COMPLICATIONS) OF AMAVATA

Upadrava or complications are manifested in the later period of the Amavata. Various updravas of Amavata are mentioned by different scholars of Ayurved. Madhavakara mentioned upadrava or complications of Amavata in Pravridhamana lakshana (Clinical manifestations in aggravated condition of Amavata) as Anyani Upadravani (other complications), Vijay Rakshita mentioned upadrava as Sankocha (contraction of affected body parts)<sup>18</sup> and Khanja (lameness), Vachaspati mentioned upadrava as Various Vatika disorders (problems due to aggravation of vata dosha), and Harita mentioned upadrava as Angavaikalya (physical deformity).

### SADHYASADHYATVA (PROGNOSIS) OF AMAVATA

*Madhavkara* described clearly the *Sadyasadhyatva* of *Amavata* in his book *Madhav nidan* on the basis of *dosha* predominance in *Amavata* which is given below:<sup>19</sup>

*Sadhya*: Dominancy of single *dosha* in *Amavata* indicates disease is *sadhya* (curable).

**Yapya:** Dominancy of two *doshas* in *Amavata* indicates disease is *yapya* (manageable condition).

*Krichchhrasadhya*: Dominancy of all three *doshas* associated with *sarvanga shotha* (generalized oedema) indicates disease is *Krichchhrasadhya* (difficult to cure).

### SAPEKSHA NIDANA (DIFFERENTIAL DIAGNOSIS) OF AMAVATA

Sapeksha Nidana or differential diagnosis of the disease Amavata can be done from Vata Rakta (Gout), Sandhigata Vata (Osteoarthritis), Kostruka Sirsha (Infective arthritis), and Sandhigata Sannipatika Jwara (Rheumati fever).

### CHIKITSA (MANAGEMENT) OF AMAVATA

The principles of treatment of Amavata have been first described by Chakradatta which are Langhana (lightness the body), Swedana (warm compress), drugs having Tikta-Katu Rasa (bitter-pungent taste) and Deepana (gastric stimulant) action, Virechana (purgation), Snehapana (intake of gritaor oil) and Anuvasana (enema with Ayurvedic oil) as well as Kshara basti (enema with Ayurvedic alkali preparation). Upanaha (locally applied Ayurvedic medicinal paste) without Sneha (oil) is also mentioned to these therapeutic measures by Bhava Mishra and Yogratnakara.

- i) *Langhana*: *Langhana* is the first line of therapeutic measures for the management of *Amavata* (Rheumatoid Arthritis). It helps to lightness the body.
- ii) *Swedana: Ruksha Sweda* (dry warm compress) is advised in the treatment of *Amavata* and it is usually applied by *Baluka Pottali* (warm compression with sand).
- iii) Katu Tikta Deepana Dravyas: Katu (pungent), tikta (bitter) and deepana (gastric stimulant) dravyas (substances) are administered in treatment of Amavata (Rheumatoied Arthritis) as these have Deepana and Pachana (digestive) actions.
- iv) Virechana: Ama doshas are come to the niramavastha (without ama) by applying the therapeutic measures of Langhana, Swedana and Tikta, Katu, Deepana dravyas and then the niram doshas should be eliminated from the body with the help of Virechana karma (purgation therapy).
- v) Snehapana: Shamana Sneha pana (intake of gritae.t.c. in reduced dose) is advised to the Amavata patient to reduce the rukshata (dryness) after taking the above mentioned therapies.
- vi) Basti: Basti is an important therapeutic measure for the treatment of Amavata and it is a special type of enema therapy. Anuvasana basti (enema with Ayurvedic oil) and Kshara basti (enema with Ayurvedic alkali preparation) are administered in the management of Amavata.

### PATHYA (SUTIBLE)-APATHYA (UNSUITABLE) OF AMAVATA<sup>21</sup>

Pathya and Apathya for Amavata patient have been mentioned by Govinda Das Sen in his book Bhaisajya Ratnavali which are as follows:

Pathya: The word 'Pathya' means the foods or drinks which are good or suitable for the channels of the body as per the disease concern. The pathya for Amavata patients are Purana (old) shali (Indian traditional rice), Purana (old) shashtika shali (Indian traditional rice), Yava (barley), Panchakola siddha anna-pana (five Ayurvedic herbs added with food preparation), Kodrava (Kodo millets), Ushna jala (luke warm water), Purana (old) madya (alcoholic preparation), Gomutra (cow urine), Patola (parwal), Karavellaka (bitter guard or Momordica charantia), Shigru (dramstick), Varuna (Crataeva nurvala), Gokshura (Tribulus Terrestris), Nimba patra (neem leaves), Lahashuna (garlic), Shunthi (dry ginger), Takra (butter milk), Jangala mamsa (meat of animals of arid regions).

Apathya: The word Apathya means the foods or drinks which are bad or unsuitable for the channels of the body as per the disease concern. The apathya for Amavata patients are Masha (black gram), Upodika (Indian spinach or Malabar spinach, Basella alba), Anoopa mamsa (meat of animals living in marshy lands), Matsya (fish), Dahi (cards), Dushita jala (contaminated water), Sheeta jala (cold water).

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