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EFFECT OF NIRGUNDI (VITEX NEGUNDO L) AND SURANJAN (COLCHICUM LU-TEUM BAKER) ON AMAVATA- A LITERARY REVIEW

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ABSTRACT

Amavata 1st described by Acharya Madhava has striking resemblance to Rheumatoid arthritis which is a chronic multi system disease of unknown cause. Rheumatoid arthritis is a persistent inflammatory synovitis usually involving peripheral joints in symmetric distribution. In Amavata, Ama and vitiated vayudosha are the causative factors which are due to the various dietary and lifestyle related etiological factors which further leads to subnormal functions of jatharagni leading to agnimandya, affecting normal digestive process leading to appearance of ama dosha. Biologically, Ama is nothing but a true mixture of undigested protein, carbohydrate, fat and some bacterial flora. This ama dosha if gets stagnant particularly at the site of kapha-sthana vitiates vayu and ultimately gives rise to a clinical picture known as Amavata. The present work is to evaluate the efficacy of Nirgundi and Suranjan on the samprapti vighatana of Amavata

Keywords: Amavata, Mandagni, Amadosha, Nirgundi, Suranjan, Rasa panchaka, sampraptivighatana

INTRODUCTION

Amavata is a constitutional disorder with the clinical manifestation of joint inflammation along with gastro intestinal manifestation. Madhava was the 1st person to give a full length description about it. Though, Acharya Charaka was the first to mention about Amavata as an indication of kansa haritaki (a medicine in shotha adhyaya) and vishaaladi churna (a medicine in pandu adhyaya). Besides these, he also mentioned Amavata in kamla and

Vatavyadhi adhyaya. Bhavaprakasha, Yoga Ratnakara followed Madhava and included it in their treatise. The word Amavata includes combination of the two main internal causes of the disease viz. Ama and vata. Due to independent origin Ama and Vata, the word Amavata originates. ShabdaKalpadruma has given the meaning of Amavata as "Swanamakyatha Roga Vishesa". It implies Amavata as a disease named after its causative factors. The word Amavata

means "Amo apakwa hetuhvatah" (Vachaspatvam Vol.1) i.e. Amavata is the result of the morbid combination of Ama and vitiated vata. According to Madhava nidana Amavata is a disease caused by unwholesome food, sedentary lifestyle and if a person exercises after intake of oily food. This results in the movement of ama rasa by vitiated vata to the sites of shleshma in the body viz. amashaya (Stomach), sandhi (joints), ura (Chest), shira (head), and kantha (throat). On further formation of ama and vitiation of vata, ama and vata reach dhamani (arteries), thereby it reaches the hridaya (heart) resulting in weakness and heaviness. This is followed by body ache, loss of appetite, excessive thirst, lethargy, heaviness, fever, indigestion, swelling of different parts of the body. Amavata is marked by scorpion bite like pain and swelling of hands, feet, head, ankles, sacrum, knees, thighs and other joints. Nirgundi (Vitex negundo) and Suranjan (Colchicum luteum) both are Katu, tikta rasa, Laghu guna, ushna virya, which is why they are Vata kapha hara. Ama having properties similar to kapha, vatakapha hara dravya are expected to act against amavata as per samanya vishesha sidhhanta.

Aims and Objectives

- 1. To understand the properties of *ama* and *vata* in forming the disease.
- 2. To understand the *sampraptivighatana* of *amavata*.
- 3. To evaluate the properties and action of *nir-gundi* and *suranjan* in the management of *Amayata*.

Materials and Methods-

Classical texts and commentaries were studied to understand the underlying pathology of Amavata and texts were referred for the properties of Nirgundi and Suranjan.

CRITICAL REVIEW OF THE CONCEPT OF AMA: Ama Vimarsha

Ama means "Amayateishatpachayat" i.e. apak-vaahara rasa- a result of agnilaghutwa/ impairment of agni. Formation of ama is the primary event in the pathogenesis of the disease Amavata. Vagbhatta defined ama as a pathological entity which forms due to hypo functioning of ushma i.e. agni and as a result of which the 1st dhatu rasa isn't formed properly, instead the apakwaanna rasa retained in the amashaya undergoes fermentation and putrefaction (dushtatva)². It is this state of apakwa rasa which is termed as ama.

Sarangdhara views samyakapakwaahara rasa as rasa and apakwaahara as ama³.

Biophysical properties of *Ama* as described by *Vagbhatta* and *Madhavkara* can be summarized as follows⁴:

- 1. Ama rasa is in liquid form
- 2. It is *guru* in nature i.e. of high molecular weight
- 3. Snigdhatwa-moist
- 4. Bahupichhilatwam viscid or mucoid
- 5. *Tantumat* having the property of stickiness
- 6. Nana varnatwa- having different colours
- 7. Asamyuktam- non-homogenous
- 8. Durgandhatwa- foul smelling

Arundattain his commentary have stated that the impaired agni is responsible for the formation of Ama. But Hemadari stated in his commentary that formation of ama need not be due to jatharagnimandyaonly, but may also occur due to dhatwagni vvapara⁵.

Properties of *Vata***:** According to *Acharaya-Charakavata* has following properties⁶:-

Ruksha

- Sheeta
- Laghu
- Sukshma
- Chala
- Vishad
- Khara

Presence of *ama* and vitiation of *vayu-dosha* are major factors involved in the formation of *amavata*. During the process of circulation through the body, if it becomes stagnant particularly at the site of *kapha-sthana*, it vitiates the *vayu* and ultimately gives rise to a clinical picture-*Amavata*.

Samprapti factors in Amavata-

Udbhavasthana- Amashaya Sanchara- Rasa vahasrota Adhishthana- Asthisandhi

Marga- Madhyamrogamarga Agni- JatharagniDhat-

wagni(Rasagni)

Dosha- Vata- Samanavayu,

Vyanavayu, Apanavayu Pitta- Pachak pitta

Kapha- Kledaka kapha, Sleshaka kapha

• Mainly vatakaphavyadhi Dushya- Rasa

Srota- Rasa vaha and annavaha

Srotadushti- Sanga

Pratyatmalinga- Vrishchikdamsha-

vatapeeda - Asthisandhi

Swabhava- Chirakari

Schematic diagram of Pathogenesis of Amavata according to MadhavaNidana⁷

Viruddha ahara vihara

Snigdha Sleshmavardhaka ahara vihara

Kledaka kapha, Samana vayu dushti

Agni mandya ∏

Amotpatti

Rasa vaha srotagamana of ama- vyana vayudushti

Origin of ama rasa

Gamana of ama rasa in heart due to vyanavayu- pranavayudushti

Circulation of rasa by heart in vessels causes heaviness and weakness

Appearance of angamarda, alasya, aruchi during circulation in whole body –amavargi slesh-madushti

Srota avarodha of blood vessels – sleshma dushti

Amasanchaya leads to amotpatti- appearance of jwara, shoola, etc

Rasapanchaka of Nirgundi and Suranjana⁸

| Nirgundi (Vitex negundo) (Verbenaceae) | Suranjan (Colchicum luteum) (Liliaceae) | |
|---|--|--|
| Rasa- Katu, Tikta | Rasa-Tikta, Katu | |
| Guna- Laghu, Ruksha | Guna- Laghu, Ruksha | |
| Virya- Ushna | Virya- Ushna | |
| Vipaka- Katu | Vipaka- Madhura | |
| Karma- Vata-Kaphahara | Karma-Vata-Kaphahara, Raktashodhaka | |
| Indications- Sula, Sotha, Amavata, Krimi, Aruchi, Visa roga, etc. | Indications- Amavata, Vatarakta, Gridhrasietc. | |

In *Bhaishajyaratnavali*, the formulations consist the drug *Nirgundi* have been indicated mainly for the treatment of *Amavata*.

| Reference | Preparation | Indication |
|---------------------------|---------------------------------|--------------|
| 1. Bh.R. 8/303 | Shree baidyanathvati with takra | Amavata |
| 2. Bh.R. 8/324 | MahaAbharavati | JirnaAmavata |
| 3. Bh.R. 9/213 | Agnimukhalokam | Amavata |
| 4. Bh.R. 10/221 | Vishvodeepakabhara | Amavata |
| 5. Bh.R. 27/162 | Mahapinnda tail | Amavata |
| 6. Bh.R. 29/23 | Rasonadikwatha | Amavata |
| 7. Bh.R. 65/114,121 | Kanaka tail | Amavata |
| 8. Bh.R. Parisishtha 2/23 | Shasama- shalandra rasa | Amavata |
| 9. Bh.R. Parisishtha 2/28 | Kanaka tail | Amavata |

There are some references of *suranjana* indicated in *amavata* both external and internal application^{9, 10}. Also there is description of use of *suranjana* in *amavata* in *Unani* system of medicines e.g. *Habbanikarit* (tab)- Internal application 1-2 tab in *amavata*, *Majun Suranjan*- Internal application in *amavata* etc.

Researches already done on the antiinflammatory, analgesic and anti-arthritic activity of *Nirgundi* and *Suranjana*^{11,12}

Extract of *Vitex negundo* seeds (EVNS) using Freund's complete adjuvant induced arthritis in rat model. Histopathological studies showed a marked decrease of synovial inflammatory infiltration and synovial lining hyperplasia in the joints of EVNS treated rats. Results demonstrated that *V.negundo* seeds possessed potential therapeutic effect on adjuvant induced arthritis in rats by decreasing the levels of TNF- α , IL-and IL-6 and increasing that of IL-10 in serum as well as down-regulating the levels of COX-2

and 5-LOX, and therefore may be an effective cure for human rheumatoid arthritis.

Majoon suranjana (MS) in doses of 450,900 & 1800 mg/kg body weight was evaluated using turpentine oil induced paw oedema model and the anti-arthritic efficacy was evaluated using the formaldehyde and complete Freund's adjuvant (CFA) induced arthritis models. MS produced a dose dependent protective effect in all the experimental models. The anti-arthritic activity was due to the interplay between its anti-inflammatory and disease modifying activities, thus supporting its use in traditional medicine for the treatment of RA.

DISCUSSION

Probable action of *Rasapanchaka* of *Nirgundi* and *Suranjana* on the *sampraptivighantana* of *Amavata*:-

Ama is guru, snigdha, pichhila (properties similar to kapha) whereas vata is laghu, ruksha and

vishada i.e. opposite to the qualities of ama. Both ama and vata have opposite qualities except for the fact that both are sheeta. Hence, drugs which are ushna will be able to pacify both ama and vata. On the other hand in amavata, agnimandya occurs, both nirgundi and suranjana being katu, tikta and ushna endowed the effect of agnideepana and amapachana which is very necessary in this disease as ama in amavata makes it difficult to treat.

The *chikitsasiddhanta* of *amavata* according to *Chakarpani*¹³ states *langhana*, *tikta*, *deepana*, *katu* etc. all these properties are present in our chosen drugs while their *laghuguna* is in accordance to the *langhana* in this disease.

Both the drugs have *vedanasthapana* and *sothahara* property and *amavata* is a disease which is clinically marked by severe pain i.e *Vrishchikdamshavatapeeda* (pain is compared to scorpion sting) and inflammation of the joints. Both the drugs not only reverse the pathology of the disease as said above but also relieve the patient symptomatically.

CONCLUSION

Ama (result of impaired Agni) and vitiated vatadosha is the main culprit involved in the samprapti of amavata.

Nirgundi and suranjana both drug's rasa-panchaka has got potent action over the sam-praptivighatana of amavata. Their chief karma is vata-kaphahara and rasapanchakais in accordance of the chikitsasiddhanta of amavata as told by Chakarpani. The katu rasa is deepaniya rasa and tikta rasa is both deepana and pachana rasa¹⁴. Hence, one can conclude that drugs not only efficiently act upon the sampraptivighatana of amavata but also provide symptomatic relief from the severe pain and inflammation.

SCOPE FOR FURTHER STUDY

Considering the properties and the successful previous animal trials of *Nirgundi* and *Suranjan*, it will be wise to carry out further clinical trial on patients of *Amavata* and/or Rheumatoid arthritis.

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