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scientific evaluation of Rasnadashamula Kwatha in the management of Amavata w.s.r. to Rheumatoid arthritis: A Review Article

Dr. Harshitha K.S.¹, Prof. Ram Kishor Joshi², Dr. Ajay Kumar Sahu³, Dr. Bharat Kumar Padhar⁴

¹Post Graduate Scholar, ²Professor and HOD, ³Associate Professor, ⁴Lecturer, Dept of Kayachikitsa, National Institute of Ayurveda, Jaipur, Rajasthan, INDIA.

ABSTRACT

Background: Rheumatoid arthritis (RA) is the most common inflammatory arthritis in women and hence an important cause of potentially preventable disability. Many of the clinical features and management strategies in RA are relevant across the spectrum of inflammatory joint disease. The typical clinical phenotype of RA is a Symmetrical, deforming, small and large joint polyarthritis, often associated with systemic disturbance and extraarticular disease. The clinical course is usually life-long, with intermittent exacerbations and remissions and highly variable severity. In Ayurveda, 'Amavata' was mentioned for the first time by Acharya Madhavakara has a special disease entity in which both 'Ama' as well as 'Vata' play a predominant role in the pathogenesis of this disease. Aim: The Article is written with the aim to analyze the of mode of action of the ingredients of Rasnadashamula Kwatha and explore its importance in relieving the symptoms of Amavata w.s.r. to Rheumatoid arthritis. Methodology: Rasnadashamula Kwatha is described in Amavata Rogadhikara in Chakradatta . Various peer reviewed articles, Ayurvedic classical textbooks, Modern Rheumatological textbooks as well as the online databases were analyzed under the relevant key words in understanding the importance of the above-mentioned formulation in treating the symptoms of Amavata w.s.r. to Rheumatoid arthritis. Conclusion: It can be concluded through literary review that Rasnadashamula Kwatha is efficient in relieving the symptoms of Amayata but to establish the final conclusion clinical trial of this drug should be conducted so that this drug can be used for therapeutic purposes in general patients of Amavata.

Key words: Amavata, Rasnadashamula Kwatha.

INTRODUCTION

Rheumatoid arthritis (RA) is a chronic inflammatory disease of unknown etiology marked by symmetric, peripheral polyarthritis. It is the most common form of chronic inflammatory arthritis and often leads to joint injury and disability.[1] Because it is a systemic disease, RA may lead to the distinct manifestation of

Address for correspondence:

Dr. Harshitha K.S.

Post Graduate Scholar, Dept of Kayachikitsa, National Institute of Ayurveda, Jaipur, Rajasthan, INDIA.

E-mail: harshithasathyakumar94@gmail.com

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other systems with the symptoms including fatigue, underlying skin lesions, lung involvement, pericarditis, peripheral neuropathy, vasculitis, and hematologic abnormalities. [2] The science of RA has made great strides in identifying disease-related genes and in advancing the molecular mechanisms of infectious diseases. The limited significance of these different procedures is highlighted by the perceived benefits of a new class of highly targeted therapies. Apart from these benefits, incomplete understanding of the early stages of RA is always a major obstacle to its treatment and prevention.[3]

The condition of RA increases between 25 and 55 years of age, after which it becomes flat until it is 75 years old and then decreases. Symptoms of RA are usually caused by inflammation of the joints, muscles, and bursae. Patients often complain of joint stiffness in the morning lasting for more than 1 hour and gradually decrease of stiffness after some physical

activity. The first affected joints are usually small joints. The first pattern of joint involvement may be monoarticular, oligoarticular (4 joints), or polyarticular (> 5 joints), usually in parallel distribution.^[4]

Acharya Gananatha Sena (1943) has coined the term Rasavata for Amavata. The clinician of modern era Prof. Yadunandan Upadhayaya (1953) and other eminent scholars has equated the Amavata with rheumatoid arthritis. Thus in short, it can be concluded that critical analysis of the medical importance of Ama begins from Samhita period, thereafter Madhava Kara has established it as an independent disease after having understood the specialty of the disease. [5] Acharya Chakra Datta later on described the line of treatment [6] and Bhava Prakasha elaborated it further, which can be seen fully developed in Bhaisajya Ratnavali.

Comparison between *Amavata* and Rheumatoid arthritis

Most of the symptoms of *Amavata* are directly corelated with Rheumatoid Arthritis which are as follows: ^[7,8]

Sandhishoola - Joint pain.

Sandhishotha - Swelling of joints.

Sparshasahyata - Tenderness at the joints.

Gatra Stabdhata - Stiffness of joints and whole

body.

Raga - Erythema of the joints.

Jwara - Low grade fever.

Daha - Burning of fingers & toes.

Aruchi - Anorexia.

Daurbalya - Weakness due to anemia.

Gaurava - Heaviness in body parts.

Shoonataanganama- Numbness at joints.

Utsahahani - Loss of enthusiasm

Bhrama - Vertigo

Murchha - Loss of motor function.

 Hritgraha - Pericarditis, myocarditis, conduction defect.

Angavaikalyata - Deformities.

Jadya - Inability to perform action due to stiffness.

Mamsa-shosha - Muscle wasting.

Granthi - Rhumatoid nodule.

Anyaniupdravani - Carpel tunnel syndrome,
 Felty's syndrome,

OBJECTIVES

To understand the mode of action of Ayurvedic formulation *Rasnadashamula Kwatha* in *Amavata* w.s.r. to Rheumatoid arthritis

METHODOLOGY

Ayurvedic classical text books and various peer reviewed articles were searched to understand the mode of action of *Rasnadashamula Kwatha* in *Amavata* w.s.r. to Rheumatoid arthritis

Contents of Rasnadashamula Kwatha^[9]

Table 1: Showing the contents of Rasnadashamula Kwatha[10]

SN	Drugs Botanical Name		Part Used	Quantity in Ratio
1.	Bilwa	Aegle marmelos Corr.	Moola (Root) / Moola Twaka (Root Bark)	1 Part (1kg)
2.	Agnimantha	Premna mucronata Roxb.	Moola (Root)	1 Part (1kg)
3.	Shyonaka	Oroxylum indicum Vent.	Moola (Root) / Moola Twaka (Root Bark)	1 Part (1kg)

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4.	Patala	Stereospermum suaveolens DC.	Moola (Root)/ Moola Twaka (Root Bark)	1 Part (1kg)
5.	Gambhari	Gmelina arborea Linn.	Moola (Root) /	1 Part (1kg)
			Moola Twaka (Root Bark)	
6.	Prishnaparni	Uraria picta Desv.	Moola (Root) / Panchaanga (Five Parts)	1 Part (1kg)
7.	Shalaparni	Desmodium gangeticum DC.	Moola (Root) / Panchaanga (Five Parts)	1 Part (1kg)
8.	Brihati	Solanum indicum Linn.	Moola (Root)	1 Part (1kg)
9.	Kantakari	Solanum xanthocarpum Linn.	Moola (Root) / Panchaanga (Five Parts)	1 Part (1kg)
10.	Gokshura	Tribulus terrestris Linn.	Phala (Fruit)	1 Part (1kg)
11.	Amrita	Tinospora cordifolia Willd Miers ex Hook and Thomas.	Kaanda (Stem)	1 Part (1kg)
12.	Eranda	Ricinus communis Linn.	Moola (Root)	1 Part (1kg)
13.	Rasna	Pluchea lanceolata C.B Clarke.	Patra (Leaves)	1 Part (1kg)
14.	Nagar (Shunthi)	Zingiber officinale Roxb.	Kanda (Rhizome)	1 Part (1kg)
15.	Devadaaru	Cedrus deodara (Roxb) Loud.	Kaandasaara (Heart wood)	1 Part (1kg)

Method of Preparation[11]

All the contents of 'Rasnadashmoolakam Kwatha' will be taken equal in quantity and Yavakuta Churna will be prepared and stored. Kwatha (decoction) will be prepared by taking 20 grams of Kwatha Dravya and adding 16 times of water (320g=320ml) and it will be boiled and reduced upto Ashtamansa (40gm=40ml)

Fresh *Kwatha* will be prepared for every time of its use.

Dose of Kwatha

40ml Kwatha added with 10ml Eranda Taila, (depending on the Koshta i.e, Krura, Mridu and Madhyama) twice in a day

Table 2: Ayurvedic pharmacology of the drugs of Rasnadashamula Kwatha^[12]

SN	Drugs	Rasa	Guna	Veerya	Vipaka	Karma	Doshaghnata
1.	Bilwa	Kashaya, Katu	Ruksha, Laghu	Ushna	Katu	Hridya, Shula Prashamana, Raktastambhaka, Garbhashaya Shothahara	Kapha Vata Shamaka
2.	Agnimantha	Tiktha, Katu, Kashaya, Madhura	Ruksha, Laghu	Ushna	Katu	Shothahara, Raktashodhaka, Pramehaghna, Twachya	Kapha Vata Shamaka
3.	Shyonaka	Madhur, Tikta, Kashaya	Laghu, Ruksha	Ushna	Katu	Amahara, Deepana-Pachana, Krimighna, Shothahara, Swedajanana, Vrana Ropana, Vedana Sthapana	Kapha Vatahara

4.	Patala	Tikta, Kashaya	Laghu, Ruksha	Ushna	Katu	Shothahara, Hridya, Vedana Sthapaka, Trishna Shamaka, Yakruddetjaka	Tridoshahara
5.	Gambhari	Tikta, Kashaya, Madhura	Guru	Ushna. Sheeta (fruit)	Katu	Raktapitta Shamaka, Hridya, Sandhaniya, Balya, Mutrajanan, Vrishya	Tridoshahara
6.	Prishnaparni	Madhura, Tikta	Laghu, Snigdha	Ushna	Madhur a	Angamarda Prashamana, Vrishya, Dahaprashamana, Jwaraghna, Mutrala	Tridosha Shamaka
7.	Shalaparni	Madhura, Tiktha	Guru. Snigdha	Ushna	Madhur a	Vrishya, Balya, Mutrala, Krimighna, Shonitasthapana	Tridoshahara
8.	Brihati	Katu, Tiktha	Laghu, Ruksha, Tikshna	Ushna	Katu	Mutrala, Shothahara, Raktha Shuddikara, Deepana, Pachana, Rochaka, Keshya, Twachya	Kaphavatasham aka
9.	Kantakari	Tikta, Katu	Laghu, Ruksha	Ushna	Katu	Kantya, Mutrala, Krimighna	Kapha Vatahara
10.	Gokshura	Madhura	Guru, Snigdha	Sheeta	Madhur a	Mutrala, Vrishya, Hridya, Vedanasthapana	Vatapitta Shamaka
11.	Amrita	Tikta, Kashaya	Guru, Snigdha	Ushna	Madhur a	Medhya, Chakshushya, Brhamahara, Bhutaghna, Pathya, Vishaghna, Krimighna	Tridoshshamaka
12.	Eranda	Madhura, Katu, Kashaya	Guru, Snigdha, Tikshna, Sukshma	Ushna	Madhur a	Vedanasthapana, Shulahara, Medhya, Angamardaprashamana, Deepana, Bhedana	Kaphavata Shamaka,
13.	Rasna	Tikta	Guru	Ushna	Katu	Sheetahara, Shothahara, Rechana, Shulaprashamana	Kaphavata Shamaka
14.	Nagar (Shunthi)	Katu	Laghu, Snigdha	Ushna	Madhur a	Amavataghni, Pachani,	Kaphavatanut, Sangrahi, Vibandhabhedini
15.	Devadaaru	Kashaya, Katu, Tikta	Snigdha	Ushna	Madhur a	Rasayana, Vrishya, Amavata Hara, Medhya, Agni-Varnya-Kanti Kara	Vatahara

Scientific evaluation of each content of Rasnadashamula Kwatha

Dashamula^[13]

The study demonstrated that *Dashamoola* had antiinflammatory, analgesic and anti-platelet effects comparable to that of aspirin.

Agnimantha^[14]

Many studies reveal P.integrifolia to possess analgesic/antinociceptive, anti-arthritic, antibacterial, anticancer / antitumor / cytotoxic/tumor suppression, anti - inflammatory, anti - microbial, anti - obesity /

hypolipidemic, antioxidant, antiparasitic, antiulcer / gastro-protective, cardiac stimulant cardioprotective, CNS depressant, hepatoprotective, immunomodulatory, hypoglycemic, longevitypromoting and neuroprotective activities. According to the literature, most of the pharmacological activities of P. integrifolia is investigated by using methanol and ethanol as extractive solvents. This solvent generally contains high quantity of phenols, flavonoids, amino acids, vitamins, carbohydrates, etc., phytoconstituents. The activities may be due to the presence of these phytocompounds in the extracts. Most of the times, leaves and roots were selected for

evaluating pharmacological activities. This article is providing a ready accessible source for pharmacological activities of various parts of *P. integrifolia* plant.

Guduchi^[15]

The reviews describe medicinal applications of T. cordifolia in countering various disorders and usages anti-oxidant. anti-hyperglycemic, as antihyperlipidemic, hepatoprotective, cardiovascular protective, neuroprotective, osteoprotective, radioprotective, anti-anxiety, adaptogenic agent, analgesic, anti-inflammatory, antipyretic, thrombolytic agent, anti-diarrheal, anti-ulcer, antimicrobial and anti-cancer agent. The plant is also a source of micronutrients viz. copper, calcium, phosphorus, iron, zinc and manganese. A special focus has been made on its health benefits in treating endocrine and metabolic disorders and its potential as an immune booster. Several patents have been filed and granted to inventions encompassing T. cordifolia as a major component of therapeutics for ameliorating metabolic, endocrinal and several other ailments, aiding in the betterment of human life expectancy.

Eranda^[16]

Ricinus cmmunis L. (Castor oil plant) is an important medicinal plant belonging to family Euphorbiaceae. Its phytochemistry, biological and pharmacological activities, and ethnomedicinal uses have been reviewed in the present study. The reported chemical constituents showed the presence of flavonoids, phenolic compounds, fatty acids, amino acids, terpenoids, phytosterol etc. The compounds have been reported to exhibit anticonceptive, antidiabetic, antifertility, anti-inflammatory, antimicrobial. antioxidant, hepatoprotective, insecticidal wound-healing activities. They also showed free radical scavenging and Hg scavenging activities, and repellent properties. Various parts of R. communis have been widely used in traditional medicine such as abdominal disorders, arthritis, backache, muscle aches, bilharziasis, chronic backache and sciatica, chronic headache, constipation, expulsion of placenta, gallbladder pain, period pain, menstrual cramps, rheumatism, sleeplessness, and insomnia. Castor oil plant has also revealed toxic effects due to the presence of ricin (protein) and ricinine (alkaloid). Comparatively, ricin is more toxic. But still there is need of more research to be conducted with reference to its medicinal importance (particularly exploring of medicinal recipes) and active compounds responsible for various activities.

Rasna^[17]

Pluchea is a genus of flowering plants in the Asteraceae family and comprises 80 species distributed mainly in Northern and Southern America, Africa, Asia, and Australia. Sesquiterpenoids and flavonoids are the main constituents of this genus. Compounds isolated from plants of the Pluchea genus display a variety of biological properties, viz., anticancer, antileishmanial, immunosuppressive, antioxidant, anti-acetylcholinesterase, antimicrobial, trypanocidal, hepatoprotective, cytotoxic, larvicidal, anti-ulcer, anti-inflammatory, and antinociceptive activities

Shunti^[18]

The main pharmacological actions of ginger and compounds isolated there from include immuno-modulatory, anti-tumorigenic, anti-inflammatory, anti-apoptotic, anti-hyperglycemic, anti-lipidemic and anti-emetic actions. Ginger is a strong anti-oxidant substance and may either mitigate or prevent generation of free radicals. It is considered a safe herbal medicine with only few and insignificant adverse/side effects

Vriddhadaru^[19]

Argyreia speciosa (Linn. f.) Sweet is a popular Indian medicinal plant, which has long been used in traditional Ayurvedic Indian medicine for various diseases. This plant is pharmacologically studied for nootropic, aphrodisiac, immunomodulatory, hepatoprotective, antioxidant, anti-inflammatory, antihyperglycemic, antidiarrheal, antimicrobial, antiviral, nematicidal, antiulcer, anticonvulsant, analgesic and central nervous depressant activities. A

wide range of phytochemical constituents have been isolated from this plant. A comprehensive account of the morphology, phytochemical constituents and pharmacological activities reported are included in view of the many recent findings of importance on this plant.

Discussion and Conclusion

RA results in more than 9 million physician visits and more than 250,000 hospitalizations per year. [20] Disability from RA causes major economic loss and can have a profound impact on families. Since DMARDs control rather than treat RA, RA management is a repetitive process, and patients should be screened periodically for evidence of disease progression or progression and toxic effects of the drug. Repetitive flares, unacceptable disease activity (e.g., ongoing disease activity after 3 months of intensive treatment), or ongoing joint injury requires consideration of significant changes in DMARD type. [21]

Active joint disease can interfere with physical activity and can also be aggravated by physical activity. While the main purpose of treating RA is to include complete remission, this often happens. Complete remission is defined as the absence of the following:

1) symptoms of active joint pain (unlike mechanical joint pain), 2) morning stiffness, 3) fatigue, 4) synovitis in joint examination, 5) continuous radiographic damage on radiographs consecutive, and 6) elevated levels of erythrocyte sedimentation (ESR) or Creactive proteins (CRP). [22]

Ama and Vata are the two chief pathognomic factor in production of Amavata. Ama is Guru, Snigdha, Sthira, Sthula and Pichhila while the Vata have the properties like Laghu, Ruksha, Chala, Sukshama and Vishada. [23] The properties of both are on opposite pole of each other. Only the Sheeta Guna is common to both. These are the things, which comes in across while treating the Amavata, because any measure adopted will principally appose one another. So, a very careful approach can only benefit the patient. The line of treatment laid down by Chakrapani denotes firstly the Pachana of Ama, then restoration

of *Agni* and finally control of *Vata Dosha*. Here an attempt is being made to substantiate these principles.^[24]

- Tikta Dravyas are Ama and Pitta pachaka and Srotomukhvishodhaka and having Vishaghna and Lekhana properties.^[25]
- Katu rasa is Chedaka, Margavivaraka and Kapha Shamaka.^[26]
- Tikta & Katu Rasa is Laghu, Ushna and Tikshna and having Kleda and Meda Nashaka properties, which are very useful for Ama Pachana. These are also Deepana and Pachana, so by means of these properties digestion of Ama, restoration of Agni (Deepana) removal of excessive Kledaka Kapha and bringing of the Pakva Dosha to the Kostha from the Shakha takes place.
- Totally they bring about Deepana, Pachana, Rochana and Laghuta in the body.
- But care should be taken in monitoring the extent of vitiation of Vata Dosha because the Tikta-Katu rasa Dravya increases the Vata Dosha. The drugs selected with Tikta and Katu Rasa should also possess the Vataghna properties

Dashamula is Tridoshahara in action and the Dravyas mainly Rasna, Eranda, Vriddharu etc. are Vatahara by nature. Βv assessing the Rasa Panchaka, Rasnadashamula Kwatha is Vata Pradhana Tridosha hara with other actions of Shothahara. Vedanasthapana and Ama pachana. The Anupana Eranda Taila not only improves the potency but also helps in Vatanulomana and Vedanahara actions. The scientific evaluation also provides anti arthritic, analgesic, hepatoprotective and immunomodulatory action of Rasnadashamula Kwatha.

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