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A CLINICAL STUDY TO EVALUATE THE EFFICACY OF CHITRAKADI CHURNA IN AMAVATA

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ABSTRACT

According to "रोगाः सर्वेडिपमन्देडग्नौ ॥"- (अ. ह. नि.12/1) means the majority of disease occur due to Mandagni. Amavata is one among them. It is a disease in which vitiation of Vata Dosha and accumulation of Ama take place in joints. The first detail description of Amavata was found in 7th century in a diagnostic manual called "Madhava Nidana" by Acharya Madhava. In this Acharya Madhava describes the aetiology, pathogenesis, symptoms and types of Amavata. Acharya Madhava has described causative factor for the diseases as Virudhahara (Unwholesome diet), Virudhacheshta (Erroneous habit), Mandagni (Diminished digestive fire), Nishchalata (Sedentary life), Vyayama (exertion) immediately after taking Snigdha Ahara. Amavata is generally compared with Rheumatoid Arthritis based on similarities on sign and symptoms. Rheumatoid Arthritis (RA) is a chronic inflammatory, destructive and deforming symmetrical polyarthritis associated with systemic involvement. Due to progressive, chronic nature of disease it affects the quality of life of the patients and decreases their activity at work.

KEYWORDS: Amavata, Rheumatoid Arthritis, Ama, Vata.

INTRODUCTION

From stone age to space age living pattern of people have undergone numerous changes. Countries become more industrialized and technically strong. Depending on high technology machines and transport, hence lack of physical activity combination with fatty fast-food leads to bad effect on health, physically, psychologically and socially. This leads to the sluggish function of Agni. Due to Mandagni digestion of food does not occur properly that leads to production of *Ama*. *Ama* is most important pathological factor in Ayurveda that leads to many diseases. One of the most difficult diseases caused by Ama is Amavata. Ama and Vata are the two chief pathogenic factors in Samprapti of Amavata. The disease is primarily caused by Agni derangement, such as Jatharagni, Dhatvagni, Bhutagni etc., which produces *Ama*. This *Ama* is then circulated throughout the body by vitiated Vata and ends up in the Shleshmasthanas (Amashaya, Asthisandhi etc.) causing pain, stiffness and swelling over both small and large joints, ultimately rendering a person lame¹. Amavata's manifestation is quite similar to that of Rheumatoid arthritis.

The first person to describe the principles of treating *Amavata* was *Chakradatta*. These principles included *Langhana*, *Swedana*, drugs having *Tikta Katu Rasa* and *Deepana- Pachana* action, *Virechana*, *Snehapana* and *Anuvasana* as well as *Ksharavasti*.^[2]

AIMS AND OBJECTIVES

- 1. To Evaluate the efficacy of *Chitrakadi Churna* in the management of *Amavata*.
- 2. To Provide an effective and safe *Ayurvedic* management for *Amavata*.

MATERIAL AND METHODS

Selection of the Patients - In the present study, total 30 patients were registered from the OPD of P.G. Department of *Kayachikitsa*, Rishikul Campus, UAU, Haridwar. The patients were selected on the bases of inclusion and exclusion criteria. Out of which 28 patients completed the trial for the period of 60 days and 2 patients left the trial in between. The study being part of MD was approved by Institutional Ethical Committee.

Drug- Chitrakadi Churna

"चित्रकं कटुका पाठा कलिंगातिविषाsमृता |

देवदारुवचाम्स्तनागरातिविषाऽभया ।

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पिबेदुष्णाम्बुना नित्यमामवातस्य भेषजं $\|^{[3]}$ " - (भा प्र मि ख 26/25)

Table 1: Method of administration of drug.

Kalpa	Chitrakadi Churna
Dose	5 gm BD
Route	Oral
Anupana	Warm water
Duration	60 days
Assessment	4 times at an interval of 15 days
Follow up	15 days after completion of treatment

Table 2: Constituents of Chitrakadi Churna.

DRUG	BOTANICAL NAME	FAMILY	PART USED	PART
Chitraka	Plumbago zeylanica	Plumbaginaceae	Moola	1
Katuka	Picrorhiza kurroa	Scrophulariaceae	Moola	1
Patha	Cissampelos pareria	Menispermaceae	Moola	1
Kalinga	Holarrhena antidysenterica	Apocynaceae	Twaka	1
Ativisha	Aconitum heterophyllum	Ranunculaceae	Moola	2
Amrita	Tinospora cordifolia	Menispermaceae	Kaand	1
Devadaru	Cedrus deodara	Pinaceae	Kaand-sara	1
Vacha	Acorus calamus	Araceae	Moola	1
Musta	Cyperus rotundus	Cyperaceae	Kanda	1
Nagar	Zingiber officinale	Zingiberaceae	Kanda	1
Haritaki	Terminalia chebula	Combretaceae	Phala	1

CRITERIA FOR SELECTING THE PATIENT (A) Inclusion criteria

- Patients having classical features of *Amavata*.
- Age group of 20-60 years.
- Patients fulfilling American College of Rheumatology (ACR) criteria, 2010.

(B) Exclusion criteria

- Chronicity for more than 10 years.
- Having severe crippling deformity.

- Patient with known case of Cardiac disease, Tuberculosis, Diabetes mellitus, Hypertension.
- Any other serious medically and surgically ill patients.

CRITERIA FOR ASSESSMENT

The assessment of the trial was done on the basis of following parameters:

- 1. Subjective
- 2. Objective
- **1. Subjective:** The subjective assessment was done on the basis of improvement in following signs and symptoms of *Amavata* as described in classics.

1.	Sandhishoola [Joint pain]	6.	Jaadya [Morning stiffness]
2.	Sandhishotha [Joint swelling]	7.	Sparsh-Asahayta [Tenderness]
3.	Gaurav [Heaviness in the body]	8.	Apaaka [Indigestion]
4.	Jwara [Fever]	9.	Bahumutrata [Frequency of micturition]
5,	Aruchi [Loss of appetite]	10.	Utsaha-hani [Loss of vigour]

- **2. OBJECTIVE:** The objective assessment was done on the basis of changes in clinical findings, relevant laboratory parameters and Functional assessments.
- (1). Hb, TLC, DLC
- (2). ESR
- (3). RA Factor
- (4). CRP

- (5). Functional assessment- a). Goniometry (Range of motion)
- b). Grip strength
- c). Foot pressure
- d). Walking time.

Table 3: Grading of subjective criteria.

SUBJECTIVE PARAMETERS	GRADE 0	GRADE 1	GRADE 2	GRADE 3
Sandhishoola	No pain	Pain felt only at time of movement.	Persistent pain not affecting daily routine	Persistent pain that affecting daily routine
Sandhishotha [Joint swelling]	No swelling	Joint swelling which is only recognizable to an experienced examiner	Joint swelling obvious even on casual observation	Joint swelling to a maximal abnormal degree
Gaurav [Heaviness in the body]	No Heaviness	Occasionally heaviness in body after meals	Occasionally heaviness even without meals	Persistent heaviness throughout the day
Jwara [Fever]	Absent	Occasionally (99° F-100° F)	100° F-102° F	>102° F
Aruchi [Lack of desire to eat]	Normal desire for food	Desire for food, little late than normal time	Desire for food only after long intervals	No desire at all
Jaadya (Stiffness)	No Stiffness	Stiffness lasting for 2 hours	Stiffness lasting for more than 2 hours	Stiffness lasting throughout the day
Sparsh-Asahayta [Tenderness]	No Tenderness	Subjective experience of tenderness	Wincing of face on pressure	Wincing of face and withdrawal of the affected part on pressure
Apaaka [Indigestion]	No Apaaka	Occasionally prolonged food digestion period after heavy meals	Occasionally prolonged food digestion period even after normal diet	Consistently prolonged food digestion period even after normal diet.
Bahumutrata [Frequent urination]	<4 times/24 hr	4-6 times/ 24 hrs.	6-10 times/24 hrs.	> 10 times/24 hrs.
Utsaha-hani [Loss of vigor]	No Fatigue with normal desire for work.	Works full time but feels fatigue more than normal.	Interruption of work due to fatigue with loss of desire to work.	Fatigued at rest with loss of desire at work.

OBSERVATION AND RESULTS

- 1. Maximum patients were belonged to the age group of
- 31-40 years and 51-60 years (30% in each group).
- 2. Maximum patients were females (70%)
- 3. Maximum number of patients were belonged to Hindu community (96.70%).
- 4. Maximum patients were married (83.4%).
- 5. Maximum number of patients were from urban area (93.34%).
- 6. Maximum patients had educational qualification up to higher secondary (26.7%).
- 7. Maximum patients were belonged to lower middle class (60%).
- 8. Maximum patients were housewives (56.66%).
- 9. Maximum patients had no addiction (60%).
- 10. Maximum patients had disturbed sleep (53.33%) and 46.67% patients had sound sleep.
- 11. Family history was not present in 83.34% patients.
- 12. Maximum patients had *Mandagni* (63.66%).
- 13. Maximum number of patients (93.33%) were vegetarian.
- 14. Maximum patients (43.3%) were of *Vata-Kaphaja Prakriti* followed by *Kapha-Pittaja Prakriti* (40%).
- 15. Majority of patients were of *Madhyama Sara* (66.7%), *Madhyama Samhanana*
- (56.67%), Madhyama Satmaya (53.34%), Madhyama Satva (63.33%).
- 16. Maximum patients in the present study had *Avara Abhyavarana Shakti* (50%).

- 17. Maximum patients in the present study had *Avara Jarana Shakti* (63.3%).
- 18. Maximum patients in the present study had *Avara Vyayama Shakti* (76.70%)
- 19. RA Factor was positive in 66.70% patients.
- 20. CRP was raised in 53% patients.
- 21. ESR was raised in 60% patients.

Table 4: % Relief in subjective parameters.

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Subjective Parameters	% Effect	
Sandhishoola	30.55%	
Sandhishotha	28.2%	
Gaurav	36.1%	
Jwara	72.7%	
Aruchi	59.2%	
Jaadya	27.5%	
Sparshasahyata	35.1%	
Apaaka	50%	
Bahumutrata	21.4%	
Utsahahani	38.9%	

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Table 5: % Relief in objective parameters.

Objective parameters		% Relief	
Hb		1.43%	
TLC		13.59%	
	Neutrophil	4.15%	
DLC	Lymphocyte	3.47%	
	Monocyte	-10.34%	
	Eosinophil	2.12%	
	Basophil	45.61%	
ESR		1.52%	
CRP		5%	
RA Factor		20.20%	

Table 6: % Relief in functional parameters.

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Functional Parameters		% Relief
Goniometry		
DID (Element)	RH	3.4 %
PIP [Flexion]	LH	3.6 %
MCD [Festor signal	RH	3.4%
MCP [Extension]	LH	4.71%

	DII	2.22.0/
MCP [Flexion]	RH	3.23 %
Wici [Flexion]	LH	3%
Wrist [Extension]	RH	4.3%
Wrist [Extension]	LH	3.3%
Wrist [Flexion]	RH	4.98%
	LH	3.6%
Elbow [Flexion]	RH	2.3%
	LH	2.31%
V[Florian]	RL	3.05%
Knee [Flexion]	LL	2%
Andre [Dlantar Florian]	RL	2.9%
Ankle [Plantar Flexion]	LL	5.9%
Ankle [Done; Florian]	RL	5.7%
Ankle [Dorsi Flexion]	LL	5.7%
Code Started	RH	6.1%
Grip Strength	LH	9.09%
Foot Programs	RL	6.38%
Foot Pressure	LL	6.25%
Walking Time		5.10%

Table 7: Estimation of overall response.

Overall Effect	No. of Patients	Percentage
Marked improvement	5	17.86%
Moderate Improvement	2	7.14%
Mild Improvement	8	28.58%
No improvement	13	46.42%
Total	28	100%

DISCUSSION

While observing subjective assessment following result was found.

Statistically highly significant result was found in subjective parameters like Sandhishoola, Aruchi, Apaaka and Utsahahani.

Sandhishoola.

Shoola is the result of Vata vitiation. This highly significant relief may be due to Shoolaghna and Vatahara properties of Chitraka, Ativisha, Devadaru and Haritaki.

2. Aruchi

Aruchi is found in Amavata because of Sama condition. Highly significant result in Aruchi may be due to Ama Pachana properties of Musta, Ativisha and Nagar.

3. Apaaka

Apaaka occur in Amavata because of Agnimandaya. Agnimandaya is the root cause of Amavata. Highly significant result in *Apaaka* may be due to *Agni-Deepana* properties of Chitraka, Ativisha, Devadaru and Nagar.

4. Utsahahani

Utsahahani occur in Amavata because of insufficient nutrition of Sharir dhatus, Indriya and Mana. Highly significant result in Utsahahani may be due to Rasayan properties of Amrita and Haritaki.

Statistically significant result was found in subjective parameters like Sandhishotha, Gaurava, Jwara, Jaadya and Sparsha Asahayata.

1. Sandhishotha

Significant result in Sandhishotha may be justified on the basis of Ama Pachaka Guna and Shothahara properties of drugs like Musta, Ativisha, Devadaru, Nagar and Haritaki.

2. Gaurava

Significant result in Gaurava may be due to Kapha Shamak properties of Chitraka, Katuka, Kalinga, Devadaru, Vacha and Musta.

3. Jwara

Significant result in Jwara may be due to Ama Pachana and Jwaraghna properties of Amrita, Ativisha, Musta, Patha and Nagar.

4. Jaadya

Significant result in Jaadya may be due to the resolution of Ama in affected parts by Amahara properties of Musta, Ativisha and Nagar.

5. Sparsha- Asahayata

Tenderness represents the state of Ama and Shotha at the same time. It may be due to the chronicity and Avarana of Kapha. The significant relief was observed may be due to the resolution of the Ama in affected parts by the Amahara properties of drug.

Statistically non-Significant result was found in Bahumutrata.

 In functional parameters statistically non- significant result was found in goniometry, grip strength, foot pressure and walking time.

CONCLUSION

In Ayurveda various studies have been done earlier to find out the potential remedy for Amavata (rheumatoid arthritis) but due to the complex nature (etiopathogenesis) of the disease no single drug or combination of herbal drug has been proved to be effective in treating it, so the present study aims to finding effective management of Amavata (rheumatoid arthritis) without any side effects.

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REFERENCES

- Vijayarakshita and Srikanth Datta: Madhukosha commentary on Madhava Nidana, Reprint, Choukhamba, Orientalia, Varanasi.
- 2. Chakradatta: Indradev Tripathi, Choukhambha Sanskrit Samsthan, Varanasi reprint edition, 2005.
- 3. Bhava Mishra: Bhava Prakasha, Vidyotini Teeka, ed. 11, by Bhrama Shankar Mishra, 2009; Madhyama Khand, 26/25, Page no- 284.
- 4. Dr. Pravin A Patil, Dr. Swati R. Ubarhande, Dr.Rajeshwar T. Ubarhande, Dr. Deepak Sumbe, A Clinical study to evaluate the efficacy of Chitrakadi Churna in Kaphaja Kasa. J Ayurveda Integr Med Sci, 2019; 5: 97-99.

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