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A Case Study to Evaluate the Effect Nagar Ghrita Sneha Pan in the Management of Amavata w.s.r. of Rheumatoid Arthritis

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Abstract— Amavata is a disease affecting joints all over the body and also have other extra articular manifestation. Clinical feature of Amavata such as pain, swelling, stiffness, fever, general disability are more identical mentioned in classical texts.In classics, Acharya chakradutt has mentioned Treatment of Amavata is Deepan, Pachan, Shodhan, Shaman Snehapan, Vaitaran Vasti, Virechan^[1] etc. Among them Snehapan after Virechan is very effective in the chronic cases of Amavata Literary material from Ayurvedic texts was compiled critically analysed and clinically observed on patient to include the key references necessary for evaluating the hypothesis. Pachan Karma will be carried out with Nagar+Gokshur kwath 50ml twice daily for 3 days and then Sarvanga Abhyanga Swedana/Baluka swedana will be carried out for next 3 days and then Virechan karma will be with Eranda tail 30ml added to Haritaki kwath 50 ml.after Nagar Ghrita sneha pan for 10 days. The result suggest that Nagar Ghrit Pan after Virechan karma is effective in the management of Amavata.

Keywords— Amavata, Snehapan, Virechan, panchkarma, shodhan.

I. INTRODUCTION

Panchkarma's are the First essential step for the Ayurvedic management of disease. *Panchkarma* is the process which gets to the root cause of the problem. Acharya Chakradatta described panchkarma treatment in Amavata.in the Present Study is aimed to finding out an effective remedy for *Amavata*, well-known disease affecting masses. For this, we selected Nagar Ghrita Snehapan after Virechana to judge there efficacy in this disabling disease. Acharya Madhav has described Amavata as an independent disease. Amavata is one of the very painful disease describes the pain as "Vrischika Damshavata Vedana^[5]]the symptom of Aamavata is very much similar to the symptom of Rheumatoid arthritis. The Rheumatoid arthritis is a chronic immuno-inflammatory systemic disease that affect mainly synovial joints with possibility of extra articular manifestation. Generally the joint involvement is bilateral peripheral symmetrical and characterized by early morning stiffness with positive R.A Factor in 75% of patients. Rheumatioid arthritis occurs worldwide in all races, sexes, age and climates. This disease is three time more prevalent among females than among male by the usual diagnostic criteria. The onset is more frequent during 4th and 5th decade of life with 80% of patients developing the disease between the ages of 35 to 50 years. Acharya Chakrapani was the pioneer in describing the principles of treatment of Amavata. [1] According to above caption in the present study Sneha pan after Virechana has been

selected to evaluate the effect of these treatment modalities. *Nagar Ghrita* has been selected as *Shamana* after *Virechana*. *Nagar Ghrita* having *Amapachana* & *Vatakaphahara* properties, so it may correct the *Dosha*vitiation *Agnivaishamya*, *Dhatu Dushti* and *Alpa Vyadhi Kshamatva*.

II. MATERIALS METHODS

In the present study total 17 patients of *Amavata* were registered.

❖ Snehapan Group -i.e Nagar Ghrita Snehapan after Virechana for 10 days.

Aims and Objectives of the Research Work

- i. To explore the literature pertaining to *Amavata* in different *Ayurvedic Samhitas*.
- ii. To evaluate the effect of *Nagar Ghrita Snehapan* after *Virechana*in the management of *Amavata*.
- iii. To assess the effect of Nagar Ghrita Snehapan in the disease Amavata.
- *iv.* To develop cost effective *Panchkarma* treatment in the management of *Amavata*.
- **❖** *Materials and Methods:*
- 1. Literary: It was compiled from the available literature of *Ayurveda* and Modern classics & latest research papers published in reputed generals.
- 2. *Clinical:* By analyzing the data from the results obtained during the present study.
- > Selection Criteria:
- a) Inclusion Criteria
 - 1. Patient willing for trial.
 - 2. Age group 20-70 years irrespective of sex, race, religion and socio-economic status.
 - 3. Patient with clinical features of *Amavata* as described in *Madhava Nidana*.
 - 4. American criteria for Rheumatoid arthritis.
 - 5. Written consent of the patient was obtained before inclusion in the trial.
- b) Exclusion criteria
 - 1. Patients not willing for the trial.
 - 2. Patients below 20 and above 70 years.
 - 3. Patients having any associated chronic ailments like D.M, cardiac disorder, renal disorder and alcoholic liver disease, chronic hemolytic anemia.
 - 4. Pregnant and lactating mother.



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Nagar Ghrita Sneha Pan Group

Pachana	Shunti Gokshura kwatha ^[2]	50 ml BD for 3 days.			
Abhyanga	Brihat	75-100 ml sitting for next 3 days			
	Saindhavadi or as per requirement of patient.				
	Taila				
Virechanakalpa	Haritaki kwatha 30ml+Eranda Taila 30ml ^[3]				
Samsarjankram	According to shodhana				
Sneha Pan	Nagar Ghrita ^[4] 10 ml B.D for 10 days				

Criteria of Assessment:

Assessment was done on the basis of subjective, objective criteria and grading pattern adopted before treatment and after treatment.

- a. Subjective Criteria:-
 - Clinical Sign, Symptoms and functional ability of patient along with Laboratory Investigations.
- b. Clinical Assessment:-
 - Samanya lakshana and Pravriddha lakshana— Madhava Nidana ^[6].
 - Grading of the patients was done according to severity of the symptoms, signs and functional capacity of the patients.

Name of Symptoms	Grades	Score	ВТ	AT
Symptoms	No angamarda	0		
	Occasional <i>angamarda</i> but patient is able to do usual work	1		
Angamarda	Continuous <i>angamarda</i> but patient is able to do usual work	2		
	Continuous <i>angamarda</i> which hampers routine work	3		
	Patient is unable of do any work	4		
	No feeling of heaviness	0		
	Occasional heaviness in body but can do usual work	1		
Gauravata	Continuous heaviness in body but can do usual work	2		
	Continuous heaviness that hampers usual work	3		
	Unable to do any work due to heaviness	4		
	No Apaka at all (normal digestion)	0		
	Occasional indigestion once or twice a week in one meal	1		
Apaka	Occasional indigestion 3-5 times a week in one meal	2		
	Indigestion 3-5 times a week in both meals	3		
	Indigestion after every meal			
	Absent	0		
Vid	Motion once a day but not at regular interval	1		
Vibandha	Alternate day	2		
	Interval for more than one day	3		

c. Symptoms and Signs of R.A. given in modern texts are as follows:-

Name of Symptoms	Grades	Score	BT	AT
Tandamaga	No Tenderness	0		
Tenderness	Subjective feeling of Tenderness	1		

	Wincing of face on pressure	2	
	Wincing of face on pressure and	3	
	withdraw of concerned part		
	Resists touching	4	
	No morning stiffness	0	
	Morning stiffness>1/2 hour but >1	1	
Morning	hour		
Stiffness	Morning stiffness>1 hour but > 6	2	
	hour		
	Morning stiffness all the day through	3	
	No pain	0	
	Mild pain of low intensity, does not	1	
	hampers in daily routine work		
Joint Pain	Moderate pain hamper the daily	2	
	routine work		
	Severe pain causing definite	3	
	interruption in routine work		
	No Swelling	0	
C112	Mild Swelling	1	
Swelling	Moderate Swelling	2	
	Severe Swelling	3	
	0 – 30 mm Ist hour	0	
ESR	30-60 mm Ist hour	1	
Increased 60-90 mm Ist hour		2	
	90-120 mm Ist hour	3	
	Negative	0	
RA Factor	Weakly Positive	1	
Reactive	Positive	2	
	Strongly positive	3	

Functional assessment

Walking Time	Patient is asked to walk a distance of and time is recorded before and treatment and scored as follow	вт	AT	
	< 30 sec	0		
	31 - 40 sec	1		
	40 - 50 sec	2		
	51 – 60 sec	3		
	>60 sec	4		

General Functional Assessment

Name of Symptoms	Grades		ВТ	AT
Grade – I	Self- depended	0		
Grade – II	Perform light work only	1		
Grade – III	Can do very light work	2		
Grade – IV	Just able to care her/ himself	3		
Grade – V	Completely bed ridden or confined to wheel chair.	4		

Laboratory Investigations

Blood-Haematological- Hbgm%, TLC, DLC, ESR, FBS Bio-Chemical- R.A.factor, S.Cholesterol, S.Uric Acid, SGOT, SGPT, B.Urea, Sr.Creatinine, X ray as per need.

Urine-Routine and Microscopic.

Total Effect of Therapy

Steps for calculating overall percentage of improvement of individual patients-

All the BT score of every symptoms of a patient were added. All the AT score of every symptoms of that patient were added.

Overall percentage of improvement of each patients was calculated by the formula, (Total BT – Total AT) / Total BT X 100



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The results obtained were measured according to the grades given below:

Cured: 100 % relief in signs and symptoms.

Marked improvement: More than 60% improvement in signs and symptoms was recorded as marked improvement.

Moderate improvement: 31% to 60% improvement in signs and symptoms was considered as moderate improvement.

Mild improvement: 10% to 30% improvement in signs and symptoms was considered as mild improvement.

Statistical Analysis

This was assessed in terms of Mean score, Standard Deviation, Standard Error, Paired 't' test.

p > 0.05 Non significant result

p < 0.05 Significant

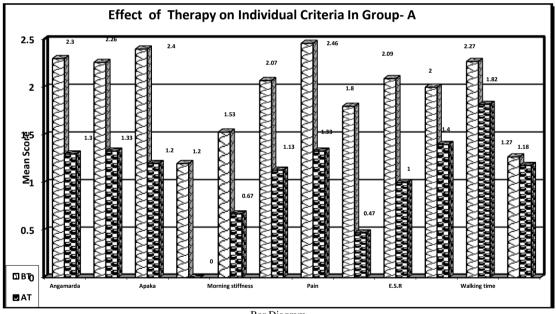
p < 0.01 and p < 0.001 Highly significant Effect of Therapy

In the present study 17 patients were registered out of which 15 completed the trial. The clinical data and effect of therapy on 15 patients is presented below.

Effect of Therapy on Individual Criteria

The efficacy of *Nagar Ghrita Pan after Virechana* was adjudged in 15 patients on the basis of assessment criteria's and results were derived after executing statistical analysis.

D	N	Mean		D	%age	SD ±	SE±	4	P
Parameters	18	BT	AT	ע	Relief	SD ±	SE±	t	r
Angamarda	13	2.30	1.30	1.00	45.16	0.58	0.16	6.25	< 0.001
Gauravata	15	2.26	1.33	0.93	50	0.35	0.09	12.47	< 0.001
Apaka	10	2.40	1.20	1.20	50	0.42	0.13	9.00	< 0.001
Vidvibandha	10	1.20	0	1.20	83.33	0.63	0.20	6.00	< 0.001
Morning stiffness	15	1.53	0.67	0.86	56.52	0.35	0.09	9.54	< 0.001
Tenderness	15	2.07	1.13	0.94	45.16	0.26	.067	14.00	< 0.001
Pain	15	2.46	1.33	1.13	54.05	0.48	0.13	10.58	< 0.001
Swelling	15	1.80	0.47	1.33	74.07	0.49	0.13	10.59	< 0.001
E.S.R. Increased	11	2.09	1.00	1.09	52.17	0.54	0.16	6.71	< 0.001
R.A Factor Reactive	10	2.00	1.40	0.60	17.64	0.97	0.31	1.96	>0.05
Walking time Increased	11	2.27	1.82	0.45	36	0.52	0.16	2.89	< 0.05
General Function Assessment	11	1.27	1.18	0.09	7.14	0.30	0.09	1	>0.05



Bar Diagram

Analysis of above table reveals following points:

Statistically Highly Significant relief (p<0.001, p<0.01) was found in *Angamarda* (%age relief=45.16%), *Gauravata* (%age relief= 50%), *Apaka* (%age relief=50%), *Vidvibandh* (%age relief = 83.33%), *Morning Stiffness* (%age relief=56.52%), Tenderness (%age relief=45.16%), Pain (%age relief=54.05%), Swelling (%age relief = 74.07%),E.S.R((%age relief = 52.17%),and Statistically Significant relief(p<0.05) was found in walking time(%age relief=36 %), Statistically Non

Significant relief(p>0.05) was found in R.A Factor (%age relief=17.64%), and General Function Assessment (%age relief = 7.14%)

Overall Effect of Therapy

S.N.	Result	No.	Of	Percentage
		Patients		
1	Cured	0		0%
2	Markedly Improved(>61%)	4		26.66%
3	Moderately Improved(31-60%)	11		73.33%
4	Mildly Improved(10-30%)	0		0%



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III. CONCLUSION

Amavata now a day, burning and challenging disease of Medical Science. First time Acharya Madhava has described the disease elaborately with the Nidana, Samprapti, Pratyatma Lakshanas etc. 'Ama' is one of the chief pathogenic factors of the disease. Ama is generated at various levels in the body which are at Jatharagni level, Bhutagni level and Dhatwagni level. Amavata in modern medical science, clearly resembles with RA. This comparison is almost undoubtful, but including RA, some other diseases in modern medical science also comes under the Amavata in Ayurveda. An exact comparision of Amavata with RA is still a matter of reasoning in Ayurvedic field. Predominance of Vata, Kapha & Mandagnialong with Tridosha dusti was found to play an important role. Maximum Doshanubandha found as Vata & Kapha in this study sample. Maximum number of patients in the study sample were having Madhyam kostha and Krura kostha which shows the disturbance Kapha & Vata dosha. Thus, it can be concluded that Nagar GhritaSnehaPan is quit effective in the managemaent of Amavata

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