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Research Article

A CLINICAL STUDY ON THE EFFECT OF *UTKLESHANA, DOSHAHARA* AND *SAMSHAMANA VASTI* IN THE MANAGEMENT OF *AMAVATA*

Mahantagouda Biradar^{1*}, Parvati Birajdar², M.Srinivasulu³

*¹Assistant Professor Dept. of Panchakarma, S.V.P Ayurvedic Medical College Hospital & Research Center, Badami, Karnataka State, India.

²Assistant Professor Dept. of Prasooti Tantra & Stree Roga, S.V.P Ayurvedic Medical College Hospital& Research Center, Badami, Karnataka State, India.

³HOD, Professor Dept. of Panchakarma, N.K.J.Ayurvedic Medical College & PG center, Bidar, Karnataka State, India.

ABSTRACT

Basti Chikitsakarma is one of supreme therapy for the elimination of vitiated Vatadosha and has entity to entice all Doshas. In the present clinical practice with the reference of Acharya Sushruta, the scientific application of Utkleshana, Doshahara Samshana Vasti has an approach towards Datugatadoshaharana in all aspects of diseases. Among them one of the most crippling, disabling and debilitating disorder is Amavata. So looking to the etiopathogenesis of Amavata, it shows a Bahudoshayuktavyadhi mainly involvement Vata, Kaphadosha's and a part of Pitta predominantly. Its Udbhavasthana in Ama Pakwashaya, Sancharasthana in Rasavaha and Annavahasrotas, Adhistana and Vyktasthana are Kaphasthana like Amashaya Sandhi etc. As it is a Kastasadhyaswabhava, it needs a complete inclusive treatment. In that view the application of Utkleshanabasti, followed by Doshaharabasti and finally Samshamanabasti is selected.

A total of 30 patients presenting with symptomatology of *Amavata* were simple randomly selected for study. The study design, schedule, duration and follow-up of the treatment have clearly explained. Subjective and objective criteria's were statistically analyzed before and after treatment by applied standard statistical method. All subjective and objective parameters showed highly substantial significant result of 73.33% and 80.28 mean grade result found among 22 patients out of 30 *Amavata* patients and a high significant fair result of 26.66% and 71.96 mean grade result found among 08 patients out of 30 *Amavata* patients. The overall assessment mean result was 76.12 in both subjective and objective parameters were observed.

KEYWORDS: Utkleshana, Doshahara, Samshamana, Rasayana, Dhatugata Dosha, Amavata.

INTRODUCTION

Modern medicine has established its mastery in every branch of specialization. For *Ayurveda*, *Panchakarma* is its unique contribution in all perspectives. The importance of *Panchakarma* in *Ayurveda* is borne out by the fact that it is applicable to all cases covering a wide range of preventive, curative and promotive conditions. It is postulated that the vitiated *Doshas* and *Malas* of the body need to be eliminated before any specific measure is taken to cure the disease because no one therapy works well if *Shodhana* measures are not taken beforehand.

Aama is the basic concept of Ayurveda in several diseases. Diseases occurs by Aama is a type of constitutional diseases. 80% of the disorders in the world are of Samarogas. Out of them most crippling and debilitating disorder, which hampers the economy of the world as well as the individual, are musculoskeletal disorders. These are best known as rheumatic disorders. As per ACR (American college of Rheumatology) classification and international classification rheumatological disorders all appear to be *Samarogas*. Out of such disorders, many disorders have got signs and symptoms similar to Amavata. The disease was first explained in detail manner by Acharya Madhavakara in Madhavanidhana during the period of 7th century AD.1 He

covers a verity of Rheumatological disorders under the light of *Amavata*.

It is a disorder characterized by *Amadosha*, *Vatadosha*, *Kaphadosha* (*Bahudoshayukta*) morbidly. This is a disease where in *Rasavahasrotas* is primarily involved. Because of this, the pain spreads from one joint to another joint very quickly. *Rasavahasrotomoola* is *Hridaya* and "*Rasathiaharahargachathi*" *Guna* of *Rasadhatu* lead to the involvement of whole body in short span of time. Being a disease of *Madhyamarogamarga*, involvement of *Marma* (*Hridaya*) makes this disease more and more critical.² The treatment proper is also not unidirectional, for e.g.: the antagonistic treatment of *Kaphadosha*, *Amadosha* and *Vatadosha* must be carried out simultaneously and involvement of *Gambiradhatu* (*Asthi*) and *Uttanadhatu* (*Rasa*), makes the treatment still more puzzle.

So looking to the etiopathogenesis of Amavata, Sampraptivighatana chikitsa (Vatadosha, Kapha Dosha, Part of Pitta Dosha, Agnidusti and Ama in both Uttanadhtugataavastha as well as Gambhiradhaatugataavastha) demands Shodanachikitsa to eliminate the Anubanditadosha along with Vatadosha.

Acharyas told different type of Shodhana in our classics among them the best one and half of the treatment or full of the treatment credit goes to the Bastichikitsa because of Basti is one such Shodhana procedure having multifaceted approach. Simultaneously Basti is also considered as the treatment of excellence in controlling the painful conditions.

So in case of *Amavata* it is necessary to bring back the *Dosha's* from *Shakha* to *Kosta*, because of its complicated *Samprapti* and nature of wide spreading. For bringing the *Dosha* from *Shakha* to *Kosta*. *Acharya Sushruta* has made a set of Packaged *Basti* known as *Utkleshana*, *Doshahara and Samashamana* in a sequential manner.³ No doubt by *Snehana*, *Swedana* the tremendous *Utlkleshana* of *Doshas* and to bring back them to *Kosta* is achieved but as comparing to *Utkleshana Basti* the prior one has more time consuming, non-palatable and in case of emergency it's not so easy, in case of *Basti* it over comes all the problems of *Snehana* and *Swedana*. The similar concept also holds good in the *Doshahara* and *Samshamana Basti*.

For *Amavata* different variety of treatment concepts are explained in *Ayurveda*, in view of its acute level to chronic level. Among them *Basti* is one of the major treatment. Keeping the above in view the study of *Utklehana Basti, Doshahara Basti and Samshamana Basti* in Amavata in the frame of *Kala Basti* was taken up, as mentioned by *Acharya Sushruta*.⁴

The *Utkleshaka* drugs like *Erandabeeja*, *Madhuka*, *Pippali*etc, *Doshahara* drugs like *Shatahwa*, *Madhuka*, *Madhanaphala*, *Gomutra*, *Kanji*etc and *Samshamana* drugs like *Priyangu*, *Musta*, *Rasanjana*, *Goksheera* etc⁵ are schematically arranged in the pattern of *Kala Basti*, i.e. within total six *Niruha Basti*, the first two *Basti* are *Utkleshana*, the middle two are *Doshahara* and last two become *Samshamana*. The remaining ten are *Anuvasana Basti's* with *Bruhatsaindhavadhya taila*.⁶

The observations on the effect of these procedures will be studied in a specific manner and the results will be enlightened and it will be presented in scientific analytical way.

Aims and Objectives of the Study

- To assess the impact and consequences of Utkleshsana Basti, Doshahara Basti and Samshamaniya Basti in Amayaata.
- 2) An analytical study over *Doshotkleshata, Doshaharatwa* and *Doshashamanatwa* by *Basti* Procedure.

A clinical study was carried out in following ways:

Source of Data

- 1. The present study is a clinical trial. Hence the patients will be selected from N.K.J Ayurvedic medical college and hospital.
- 2. Ayurveda classics and Modern texts.
- 3. National and international Seminar, journals/magazines.

Methods of Collection of Data

- 1. Patients will be selected by simple randomised sampling procedure.
- 2. Separate Charts (proforma) will be prepared, recording the signs and symptoms of *Aamavata* and *Laxanas* of *Utkleshana*, *Doshahara* and *Samshamana* of *Dosha*, due to the impacts of *Basti karma* procedure respectively.
- 3. Procedure will be conducted under the supervision of guide and co guide.

Research design

- 30 Patients will be selected by simple randomized method for the study within a single group.
- It is a single blind clinical study with pre-test and post-test design.
- Utkleshana, Doshahara and Samshamana Basti as explained by Acharya Sushrutachikitsa 38/92 will be administered to all patients.
- Pre procedures i.e. *Poorvakarma* should be compulsory and mandatory.
- Before starting treatment thorough counseling of patient and brief explanation regarding the procedure of *Basti karma* will be done
- All Patients should be advised to follow the specific diet chart during the therapy and till *Pariharakaala* completes.

Selection of Chikitsa⁷

• Bastichikitsa selected

Selection of Basti⁸

- Utkleshana Basti
- Doshahara Basti
- Samshamana Basti in sequence

Schedule of Basti

Utkleshana, Doshahara and Samshamana Basti in sequence will be administered in the frame work of Kaala Basti as shown below.

Clinical Study Protocol

Table 1: Showing Schedule of Utkleshana, Doshahara and Samshamana Basti

				•				•								
No of <i>Vasti</i>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Type of Vasti	A	U	Α	U	Α	DH	Α	DH	Α	SS	Α	SS	Α	Α	Α	A

Note: Here UB= UtkleshanaBasti, DHB = DoshaharaBasti, SSB = SamshamanaBasti

Duration of Basti

• 16 days followed by Parihaarakala

Table 2: Showing Intervention chart

Sl. No	Procedure	Drug	Dose	Duration
1	Poorva karma			
	Sarvangaabhyanga	Moorchitatilataila	Q.S	30 to 40 mins.
	Bhaspasweda	Dashamooladravya's		10 - 15mins.
2	Pradhana karma			
	(Kaalavasti)			
	Anuvasanavasti	Bruhatsaindavadhyataila	120 ml	1st,3rd,5th,7th,9th,11th,
				13 th ,14 th ,15 th ,16 th
	Niroohavasti	Saindavalavana	10gm	
	a) Utkleshanabasti	Madhu	40-60gm	
	Dravya's	Moorchitatilataila	100120ml	2 nd , 4 th day
	Erandabija, Madhuka, Pippali,	Utkeshanabastigatadravyakalka	50-60gm	
	Saindavalavana, Vacha, and	Utkeshanabastigataquatha	500-550ml	
	Haphushakalka	Total Approximate	800 ml	
	b)Doshaharabasti Dravya's	Saindavalavana	10gm	
	Shatahwa, madhuKa, kutaja	Madhu	40-60gm	
	Beeja, Madanaphala, Kaanjika	Moorchitatilataila	100120ml	
	and Gomootra	Dishaharabastigatadravyakalka	50-60gm	6th and 8th day
		Doshaharabastigatakashaya	500 -550ml	
		Total Approximate	800 ml	
	c)Samshamanabastidravya's	Saindavalavana	10gm	
	Priyangu, Madhuka, Musta,	Madhu	40-60gm	
	RasanjanaandKsheera	Moorchitatilataila	100-120ml	10th and 11th day
		Samshamanabastigatadravyakalka	50-60gm	
		Samshamanabastigatakashaya	500-550ml	
		Total Approximate Total Approximate	800 ml	
	Paschath karma	Lift the legs, pa <mark>dding</mark> to the buttocks,		8-10 mins.
		anti-cloc <mark>k</mark> wise massage to abdomen		
		etc.		

Follow up

There will be two follow ups conducted i.e. 1st soon after the treatment (on 16th Day) and 2nd will be 32nd day after the treatment.

Selection Criteria

a) Inclusion Criteria

- 1. Patients presenting with the clinical signs and symptoms of *Aamavata* will be selected.
- 2. Patients age between 18-60 years irrespective of sex and socio economic state.
- 3. Patients fit for *Bastichikitsa*.

b) Exclusion Criteria

- 1. Amavata associated with Upadrava and Arista laxana.
- 2. *Amavata* associated with cardiac diseases other severe complicated diseases.
- 3. Amavata condition followed by or associated with involvement of Pitta, Rakta, Paaka and acute Dhatukshaya.
- 4. Patients with severe deformities, severe ankylosed joints, septic arthritis and gouty arthritis etc
- 5. Patients with genetic and hereditary disorders.
- 6. Pregnant women.
- 7. Patients not fit for *Bastichikitsa*.

Assessment criteria

Subjective and objective parameters will be assessed based before and after treatment with appropriate statistical analysis.

Parameters for Assessment

Table 3: Showing List of Subjective parameters9

	, .
1) ApakashoonataAnga	6) SandhiGraha (Restricted movements of joints)
2) Bhramanasheelatwa	7) Jwara
3) Vruschikadamshavatvedana	8) Vivarnata (Localized discoloration)
4) BahuSandhiShoola (Multiple joint Pain)	9) Bahumotratwa
5) BahuSandhiShotha (Multiple joint inflammation)	10) Stambha (Stiffness)

The above Parameters include standard ACR diagnostic criteria, due to the fear of expansion here not elaborated.

Objective Parameters

- 1. Hb%
- 2. ESR
- 3. CRP
- 4. ASO titre
- 5. RA Test

Clinical Assessment Scoring Method

The changes observed in the signs and symptoms were assessed by adopting suitable scoring method and the objective signs by using appropriate clinical tools. The details of scoring pattern adopted for assessment of clinical signs and symptoms is as follows:

Subjective Parameters Assessment Scoring Method

Table 4: Apakashoonataangha (swelling with no inflammatory changes)

No Swelling	Grade 0
Joint swelling which may not be apparent on casual inspection, but	Grade 1
difficult to recognize on casual observation	
Joint swelling obvious even on casual observation	Grade 2
Markedly abnormal swelling	Grade 3
Joint swelling to a maximally abnormal degree	Grade 4

Table 5: Bhramanasheelatwa

No Bhramanasheelatwa	Grade 0
Mild BhramanaSheelatwa	Grade 1
Minimal BhramanaSheelatwa	Grade 2
Moderate BhramanaSheelatwa	Grade 3
Severe BhramanaSheelatwa	Grade 4

Table 6: Vruschikadamshavatvedana

No tenderness	Grade 0
Slight or mild tolerable discomfort on palpation	Grade 1
More severe pain on ordinary palpation	Grade 2
More intolerable pain even with light palpation or pressure	Grade 3
Pain which may be caused by even a mild stimulus	Grade 4

Table 7: Bahusandhishula (multiple joint pain (as per Harrison's grading method)¹⁰

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Pain in 1 large joint.	Grade 0
Pain in 2-10 large joints with mild nature	Grade 1
Pain in 1-3 small joints (with or without involvement of large joints)	Grade 2
Pain in 4-10 small joints (with or without involvement of large joints	Grade 3
Pain in more than 10 joints (with involvement of at least 1 small joint	Grade 4

Table 8: Bahusandhishotha (multiple joint inflammation as per Harrison's grading method)¹¹

	,
Involvement of 1 - 2 large joint with minimal nature	Grade 0
Involvement of 3-10 large joints with mild nature	Grade 1
Involvement of 1-3 small joints (with or without involvement of large joints) with moderate nature	Grade 2
Involvement of 4-10 small joints (with or without involvement of large joints with marked nature	Grade 3
Involvement of more than 10 joints (with involvement of at least 1 small joint with severe nature	Grade 4

Table 9: Sandhi Graha (Restricted movements of joints)

Normal joint motion	Grade 0
About 25 - 49% loss of motion	Grade 1
About 50% loss of motion	Grade 2
About 75% loss of motion	Grade 3
100% loss of motion or complete ankyloses of the joint	Grade 4

Table 10: Jwara In Fahrenheit

No fever	Grade 0
Low Grade fever (100.4–102.2)	Grade 1
Moderate Grade fever (102.2–104.0)	Grade 2
High grade fever (104.0–106.0)	Grade 3
Hyper pyrexia (>106.0)	Grade 4

Table 11: Vivarnata (Localized discoloration)

Absent	Grade 0
Mild	Grade 1
Moderate	Grade 2
Marked	Grade 3
Severe	Grade 4

Table 12: Bahumotratwa

Normal(4 – 5 times/24 hrs)	Grade 0
Mild (6 – 7 times/24 hrs)	Grade 1
Moderate (8 - 9 times/24 hrs)	Grade 2
Severe (10 - 11 times/24hrs)	Grade 3
Very severe(More than 12 times)	Grade 4

Table 13: Sandhi Stambha (Morning Stiffness)

No stiffness or stiffness lasting for 5 minutes	Grade 0
Stiffness lasting for 6 minutes to 30 minutes	Grade 1
Stiffness lasting for 35 minutes to 1 hour	Grade 2
Stiffness lasting for 1 ½ hour to 2 hour	Grade 3
Stiffness lasting for more than 2 hour	Grade 4

Objective parameters assessment scoring method

Table 14: Hb% Assessment Grading

Normal (12 to 15.8 mg/dl)		Grade 0
Mild (10.4 to 11.9 mg/dl)	Ely spirit	Grade 1
Moderate (8.8 to 10.3 mg/dl)	JAPR VO	Grade 2
Marked (7.2 to 8.7 mg/dl)		Grade 3
Severe (6.6 to 7.1mg/dl)		Grade 4

Table 15: ESR Assessment Grading

0to20mm	Grade 0
21to40	Grade 1
41to60	Grade 2
61 to 80	Grade 3
Above 80	Grade 4

Table 16: CRP Assessment Grading

Negative (< 10 mg/dl)	Grade 0
Low (10.1 to 10.9 mg/dl)	Grade 1
Average (11 to 11.9 mg/dl)	Grade 2
Moderate (12 to 12.9 mg/dl)	Grade 3
High (More than 12.9 mg/dl)	Grade 4

Table 17: ASO Assessment Grading

Normal (< 200 IU/ml)	Grade 0
Low (200 – 300 IU/ml)	Grade 1
Average (301 – 400 IU/ml)	Grade 2
Moderate (401 – 500 IU/ml)	Grade 3
High (More than 501IU/ml)	Grade 4

Table 18: RF Assessment Grading

Negative RF(25 – 50 IU/ml)	Grade 0
Low positive(51 – 55 IU/ml)	Grade 1
Moderate positive(56 – 60 IU/ml)	Grade 2
Marked positive(61 – 65 IU/ml)	Grade 3
High positive (More than 65 IU/ml)	Grade 4

RESULTS

Effect on Subjective Parameters (Cardinal Signs & Symptoms)

Table 19: Showing, Effect of therapy on Apaka Shoonata Anga

Total no of	BT	AT	Mean	d	%	Paired 't	Result			
Patients						S.D.±	S.E.±	t	P	H.S
30	2.66	AT1	1.76	0.9	33.75	0.62	0.11	16.15	P<0.01	
		AT2	0.63	2.03	76.25	0.49	0.08	18.11	P<0.01	

Table 20: showing, Effect of therapy on Bramana Sheelatwa

Total no of	BT	AT	Mean	d	%	Paired 't	Paired 't' test				
Patients						S.D.±	S.E.±	t	P	H.S	
30	3.2	AT1	2.1	1.1	34.37	0.60	0.11	14.96	P<0.01		
		AT2	0.8	2.4	75	0.55	0.10	23.33	P<0.01		

Table 21: showing, Effect of therapy on Vruschika Damshavat Vedana

Total no of	BT	AT	Mean	d	%	Paired '	Paired 't' test				
Patients						S.D.±	S.E.±	t	P	H.S	
30	2.96	AT1	1.93	1.03	34.8	0.52	0.09	13.67	P<0.01		
		AT2	0.73	2.23	75.28	0.44	0.08	19.53	P<0.01	ļ	

Table 22: showing, Effect of therapy on Bahu Sandhishoola

Total no of	BT	AT	Mean	20	d	%	Paired '		Result		
Patients				정도	1		S.D.±	S.E.±	t	P	H.S
30	3.5333	AT1	2.13	150	1.4	39.62	0.62	0.11	15.38	P<0.01	
		AT2	0.76		2.76	78.30	0.50	0.09	30.06	P<0.01	

Table 23: Showing, Effect of therapy on Bahu Sandhishotha

Total no of	BT	AT	Mean	d	%	Paired '	Paired 't' test				
Patients						S.D.±	S.E.±	t	P	H.S	
30	3.533	AT1	2.2	1.33	37.73	0.66	0.12	13.35	P<0.01		
		AT2	0.9	2.63	74.52	0.66	0.12	20.07	P<0.01		

Table 24: Showing, Effect of therapy on Sandhi Graha

Total no of	BT	AT	Mean	d	%	Paired '	Paired 't' test				
Patients						S.D.±	S.E.±	t	P	H.S	
30	3.1666	AT1	2.5	0.66	21.05	0.73	0.13	7.61	P<0.01		
		AT2	0.76	2.4	75.78	0.67	0.12	23.33	P<0.01		

Table 25: Showing, Effect of therapy on Jwara

Total no of	BT	AT	Mean	d	%	Paired 't	t' test			Result
Patients						S.D.±	S.E.±	t	P	H.S
30	2.7666	AT1	2.33	0.43	15.66	0.71	0.12	4.70	P<0.01	
		AT2	0.7	2.06	74.69	0.70	0.12	21.73	P<0.01	

Table 26: Showing, Effect of therapy on Vivarnata

						F 3					
Total no of	BT	AT	Mean	d	%	Paired '	Paired 't' test				
Patients						S.D.±	S.E.±	t	P	H.S	
30	3.4	AT1	2.73	0.66	19.60	0.73	0.13	6.67	P<0.01		
		AT2	0.8	2.6	76.47	0.66	0.12	28.58	P<0.01		

Table 27: Showing, Effect of therapy on Bahu Mootratwa

Total no of	BT	AT	Mean	d	%	Paired 't	' test			Result
Patients						S.D.±	S.E.±	t	P	H.S
30	3.3333	AT1	2.6	0.7	22	0.62	0.11	8.93	P<0.01	
		AT2	0.66	2.66	80	0.60	0.11	30.46	P<0.01	

Table 28: Showing, Effect of therapy on Stamba

Total no of	BT	AT	Mean	d	%	Paired 't	' test			Result
Patients						S.D.±	S.E.±	t	P	H.S
30	3.5	AT1	2.6	0.9	25.71	0.67	0.12	9	P<0.01	
		AT2	0.8	2.7	77.14	0.61	0.11	27.64	P<0.01]

Effect of Therapy on Objective Parameters

Table 29: Showing, Effect of therapy on Hb%

Total no of	BT	AT	Mean	d	%	Paired 't	t' test			Result
Patients						S.D.±	S.E.±	t	P	H.S
30	2.6	AT1	0.53	2.06	79.48	0.50	0.09	21.73	P<0.01	
		AT2	0.36	2.23	85.89	0.49	0.08	21.52	P<0.01	

Table 30: Showing, Effect of therapy on ESR %

T	DIE	T	No.	J						Result
Total no of	BT	AT	Mean	a	%	Paired 1	Paired 't' test			
Patients						S.D.±	S.E.±	t	P	H.S
30	3.4	AT1	1.5	1.9	55.88	0.50	0.092	19	P<0.01	
		AT2	0.53	2.86	84.31	0.50	0.092	24.96	P<0.01	

Table 31: Showing, Effect of therapy on RA %

Total no of	BT	AT	Mean	d	1%urve	Paired 't	test			Result
Patients				wal		S.D.±	S.E.±	t	P	H.S
30	3.5	AT1	2.26	1.2	35.23	0.73	0.13	15.70	P<0.01	
		AT2	1.6	1.9	54.28	0.67	0.12	21.65	P<0.01	

Table 32: Showing, Effect of therapy on ASO %

Total no of	BT	AT	Mean	d	%	Paired '	t' test			Result
Patients				407U,	10	S.D.±	S.E.±	t	P	H.S
30	3.1666	AT1	0.7	2.46	77.89	1.05	0.19	15.01	P<0.01	
		AT2	0.4	2.76	87.36	0.67	0.12	26.66	P<0.01	

Table 33: Showing, Effect of therapy on CRP %

Total no of	BT	AT	Mean	d	%	Paired '	t' test			Result
Patients						S.D.±	S.E.±	t	P	H.S
30	3.7333	AT1	0.63	3.1	83.03	1.03	0.18	15.52	P<0.01	
		AT2	0.3	3.43	91.96	0.59	0.10	25.83	P<0.01	

Table 34: Showing, Overall effect of Therapy

Treatment Response	Total effect of	Total No. of Patients	Percentage	Mean grade result
	treatment in %			
No response to Therapy	0%	00	00	00
Mild response to therapy	1 - 25%	00	00	00
Moderate response to therapy	25.1% - 50%	00	00	00
Fair response to therapy	50.1% - 75%	8	26.66	71.96
Good response to therapy	75.1% - 100%	22	73.33	80.28

DISCUSSION

Brief mode of action of *Utkleshana*, *Doshahara* and *Samshanabasti*

The *Utkleshana Basti* having the properties of *Teekshana, Snigdha, Laghu, Sookshma, Picchila* and Part of Guru, are having similar properties of *Kapha* and *Ama* by that they spread to all over the body with the help of *Apana Samana* and *Vyanavayu* through the medium of

Rasavahasrotas, their increase in the quantitative consistency of Doshothklesha, and bring back to the Kosta i.e. Pakwashaya and expel the unwanted mala by keeping Uthklistadosha in their own site, followed by administration of Doshaharabasti causes the elimination of Dhatugatadosha and Utklistadosha from its root level by the virtue of its Ushana, Teekshna, Vyavayi, Vikashi and

Srotogamiguna's, after that, at lastly for the purpose of Pacification of Leenadosha, to prevent the further formation of Ama and restoration of normal health is achieved with the help administration of Samshamana Basti by the virtue of their Madhura, Tikta Rasa with Snigdha, Laghu and Rookshaguna's These three packaged Basti have mainly acts by virtue of their presence of drug effect as well as the procedure effect.

Discussion on effect of the therapy

- ➤ The administration of *Utkleshana*, *Doshahara and Samshamana Basti* showed the following results.
- ➤ The effect of treatment after follow up, in the parameter of *Apaka Shoonataanga* was 76.25%, in reducing the *Shotha*. Finally the treatment was found statistically highly significant (P<0.01) indicating that it is the best package of *Basti* to eliminate the *Ama* factors in the body by which the *Shotha* is relieved.
- ➤ The effect of treatment after follow up, in the parameter of *Bramanasheelatwa* was 75%, indicating that the treatment is highly effective in alleviating the *Srotavarodha* and *Khavaigunya* by which the movement of *Vata* is unopposed and pacified. Statistically also the treatment was found highly significant (P<0.01).
- ➤ The effect of treatment after follow up, in the parameter of *Vrushika Damshavata Vedana* was 75.28%, it alleviated the *Srotavarodha* and helped in free movement of *Vyanavata*, hence no pain and swelling. Finally statistically also the treatment was found highly significant (P<0.01).
- ➤ The effect of treatment after follow up, in the parameter of *Bahusandhi Shoola* was 78.28%,. Indicating the treatment was found statistically highly significant (P<0.01) in reducing the pain in multiple joints (poly arthritis).
- ➤ The effect of treatment after follow up, in the parameter of *Bahusandhi Shotha* was 74.52%, indicating the treatment is statistically highly significant (P<0.01). in reducing the inflammation in multiple joints because *Amapachana* and *Vatashamana* are effects of the treatment.
- ➤ The effect of treatment after follow up, in the parameter of *Sandhigraha* was 75.78%, indicating the treatment is statistically highly significant (P<0.01), in reducing the abnormal condition of joint movements.
- ➤ The effect of treatment after follow up, in the parameter of *Jwara* was 74.69%, indicating the treatment is statistically highly significant (P<0.01), in reducing the *Sookshma Ama rasa* by alleviating the *Ama* factors and *Amapachana* effect of the treatment.
- ➤ The effect of treatment after follow up, in the parameter of *Vivarnata* was 74.69%, indicating the treatment is statistically highly significant (P<0.01), in reducing the local discoloration.
- ➤ The effect of treatment after follow up, in the parameter of *Bahumootrata* was 80%, indicating that the treatment is statistically highly significant (P<0.01), in reducing the accumulation of *Ama* in

- circulation there by reduction in quantity and frequency of Urine.
- ➤ The effect of treatment after follow up, in the parameter of *Stambha* was 77.14%, indicating the treatment is found statistically highly significant (P<0.01). In reducing the Stiffness of *Gatra* and *Sandhi* by removing *Srotovarodha* and *Ama*.
- ➤ The effect of treatment after follow up, in the parameter of *Jwara* was 74.69%, in reducing the *Sooksma Ama rasa* and relieving the obstruction of the *Srotas*. Finally the treatment was found statistically highly significant (P<0.01).
- ➤ The effect of treatment after follow up, in the parameter of *Angamarda* was 70.29%, in reducing the *Vata Prakopa* relieve the body pain. Finally the treatment was found statistically highly significant (P<0.01).
- ➤ The effect of treatment after follow up, in the parameter of *Aruchi* was 76.63%, in reducing the *Ama rasa*, *Mandagni* and improves the loss of appetite. Finally the treatment was found statistically highly significant (P<0.01).
- ➤ The effect of treatment after follow up, in the parameter of *Gourava* was 77.22%, in reducing obstruction of the *Srotas* and relieves the heaviness of the body. Finally the treatment was found statistically highly significant (P<0.01).
- The effect of treatment after follow up, in the parameter of *Dourbalya* was 73.83%, in reducing the *Jataragni* and *Dhatwagni Mandhya*, improves the *Bala* of the patient. Finally the treatment was found statistically highly significant (P<0.01).
- The effect of treatment after follow up, in the parameter of *Agnimandhya* was 76.08%, in reducing the *Madagni* by elimination of *Ama* at *Jataragni* and *Dhatwagni* level. Finally the treatment was found statistically highly significant (P<0.01).
- ➤ The effect of treatment after follow up, in the parameter of *Vibhanda* was 74.10%, in reducing the constipation by *Vatanulomata* of *Vata*. Finally the treatment was found statistically highly significant (P<0.01).
- ➤ The effect of treatment after follow up, in the parameter of *Alasya* was 73.78%. Indicating that the treatment is statistically highly significant (P<0.01). in reducing the *Alasya* by providing proper neutrino to the *Dhatus* in the way of *Samsamana Basti*.
- ➤ The effect of treatment after follow up, in the parameter of *Nidralpata* was 75.51%, in reducing the irregularity of Sleep by elimination the *Ama* and by regulating the *Vata*. Finally the treatment was found statistically highly significant (P<0.01).
- ➤ The effect of treatment after follow up, in the parameter of Hb% was increased in 85.89%, indicating the treatment is statistically highly significant (<0.01) in oxidizing the *Sookshma Ama rasa* and improving *Raktadhatwagni*, giving rise to *Raktadhatuposhana* properly.

- ➤ The effect of treatment after follow up, in the parameter of ESR was 54.28%, indicating that the treatment is found statistically highly significant (P<0.01). in reducing the *Amatatwa* in *Rasa dhatu* and reducing the *Gurutwa* of fibrinogen, globulin and Plasma proteins resulting in normal ESR.
- ➤ The effect of treatment after follow up, in the parameter of RA was 74.69%, indicating the treatment is statistically highly significant (P<0.01) by reducing the positive antigen (*Amatatwa*) naturally results in reduction of antibody production, which expressed through the test for RA factor.
- ➤ The effect of treatment after follow up, in the parameter of CRP was 91.96%, indicating the treatment is statistically highly significant (P<0.01) by *Amapachana*, there is reduction of antigen antibody reactions resulting in absence of inflammation thereby lesser production of C Reactive proteins.

Discussion on retention of Basti

- ➤ During this research trial work after assessing the time period of retention capacity in 30 *Amavata* patients showed that, maximum number of patients i.e. 46.67% (14) have 11 to 15 hrs *Anuvasanabasti* retention capacity, followed by minimal number of patients i.e. 43.33% (13) have 16 to 20 hrs *Anuvasana Basti* retention capacity and remaining 10% (3) have 06 to 10 hrs *Anuvasana Basti* retention capacity.
- The above data suggests that the *Bruhat-saindhavadhyataila* having the nature of longer period of retention in the body due to its pharmacodynamics.
- ➤ During this research trial work after assessing the time period of retention capacity in 30 *Amavata* patients showed that, maximum number of patients i.e. 60% (18) have 06 to 10 mins. *Utkleshanabasti* retention capacity, followed by remaining minimal number of patients i.e. 40% (12) have 11 to 15 mins. *Utkleshanabasti* retention capacity. The above data revealed that, as *Utkleshanabasti* having the property of *Picchila, Snigdha, Sooksma* etc *Guna's* it has retained more time as compare to *Doshaharabasti*.
- ➤ During this research trial work after assessing the time period of retention capacity in 30 *Amavata* patients showed that, maximum number of patients i.e. 83.33% (25) have 06 to 10 mins. *Doshaharabasti* retention capacity, followed by remaining minimal number of patients i.e. 16.667% (05) have 0 to 05 mins. *Doshaharabasti* retention capacity. The above data envisage that due to *Ushna, Teekshna, Sookshma* property, it was come out suddenly after administration.
- ➤ During this research trial work after assessing the time period of retention capacity of *Samshamana Basti* in 30 *Amavata* patients showed that, maximum number of patients i.e. 70% (21) have 15 to 20 mins. *Samshamanabasti* retention capacity, followed by remaining minimal number of patients i.e. 30% (09) have 11 to 15 mins. *Samshamanabasti* retention capacity. The above data suggests that due to

- Mandha, Guru, Anabhishyandhiguna it will stay long time as compared to Utkleshana and Doshahara.
- The Overall effect of treatment after follow up, in all prescribed parameters was 73.33% (22) and 26.66% (08) which are rated as good and fair response respectively. Finally the overall mean grade result is 80.28 (22) under good response and 71.96 (08) under fair response in relieving the disease Amavata. Indicates that the administration of package of Utkleshana, Doshahara and Samshamana Basti in of adding sequence Kalavasti bv Rrihat Saindhavaditaila as Anuvasana Basti in between has good impact and to be considered as a best treatment in controlling, relieving and curing Amavata condition.

CONCLUSION

- ➤ No doubt *Basti* is one of the supreme line of treatment among all *Panchakarama's*, because of its multi-dimensional actions in a multi corners.
- ➤ The spectrum of *Amavata* is broad one; under this many Rheumatological disorders are explained.
- ➤ In Amavata only Kaphasthana's are becomes more susceptible to affect rather than others. In that only Sleshakaslesmayukta Sandhi's are affected.
- ➤ Basti is one of the prime treatment choice in chronic Amavata condition but in acute also has best therapy only when the condition of Ama becomes Niraama.
- Among all three Basti i.e. Utkleshana, Doshahara and Samshamana, Utkleshana has fine effect on Doshatkleshana due to presence of Erandabeeja, Pippali, Hapusha etc are most Utkleshaka drugs without irritating to the patient.
- The *Doshahara Basti* has supreme eradicative method of already *Utklishtadosha* as comparing to other *Teekshna Basti* mentioned in classics. Even after giving 800ml to the patients of *Madhymabala* etc., it not at all creates the side effects, because of presence of *Madhanaphala* and *Kutaja*.
- ➤ The Samshamana Basti has best choice immediately after Shodhana because as it digest the Linadosha's as well as prevents the further formation of Ama also it has prevents the complications if aroused by Doshahara or any Teekshna Basti and restore the normal health in all the ways, due to active ingredient like Goksheera, Priyangu, Rasnjana, Madhuka etc.
- ➤ All the *Basti's* are set under a packaged form having action like preventive, curative and promotive of health in a step ladder manner.
- ➤ This packaged form *Basti* if we used under the light of *Kaala Basti* has highly significant results as compared to *Yoga Basti*.
- ➤ The overall assessment mean result was 76.12 in both subjective and objective parameters of *Amavata*.
- ➤ The retention capacity of *Samshana Basti* (6 10 min, 70%) is relatively more compared to *Utkleshana Basti* (6 -10 min 60%).

- The retention capacity of *Doshahara Basti* was 6 10 mins. 83.33%.
- ➤ Retention time of *Utkleshana Basti, Doshahara Basti* and *Samshamana Basti* gradually increased and on the 8th day it was maximum up to 11 15 mins, 6 to 10 mins. and 15 to 20 mins. respectively.
- ➤ The retention capacity of *Anuvasana Basti* was 11 to 15 hrs. 46.67%.
- Retention capacity of Anuvasana Basti gradually increased on 7th day it was maximum up to 20 hours.
- ➤ The Overall effect of treatment after follow up, in all prescribed parameters was 73.33% (22) and 26.66% (08) which are rated as good and fair response respectively. Finally the overall mean grade result is 80.28 (22) under good response and 71.96 (08) under fair response in relieving the disease *Amavata*. Indicates that the administration of package of *Utkleshana*, *Doshahara* and *Samshamana Basti* in sequence of *Kala Basti*by adding *Brihat Saindhavaditaila* as *Anuvasana Basti* in between has good impact and to be considered as a best treatment in controlling, relieving and curing *Amavata* condition.

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*Address for correspondence Dr Mahantagouda.Biradar

Assistant Professor
Dept. of Panchakarma
S.V.P Ayurvedic Medical College
Hospital & Research Center,
Badami, Karnataka state, India.

Email: <u>klkbmahantesh@gmail.com</u> Mob No: 09739060393