



A COMPARATIVE STUDY OF CLINICAL EFFICACY OF SAUVARCHALDI CHURNA & TALISADI CHURNA IN AVEGAVASTHA OF TAMAKA SHWASA.(BRONCHIAL ASTHMA)

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ABSTRACT: - To Study the efficacy of Sauvarchaldi Churna & Talisadi Churna by conducting clinical trials in Avegavastha of Tamaka Shwasa & To see side effects or adverse effects (if any) of Sauvarchaldi Churna & Talisadi Churna during clinical trials. Method: Single blind controlled randomized study. 50 patients were selected for the study and divided into two groups randomly. Group A:(Trial Group): Contains 25 patients receiving Sauvarchaldi Churna and Koshna Jala as Anupan. Group B:(Control Group): Contains 25 patients receiving Talisadi Churna and Koshna Jala as Anupan. Duration of study was 28 Days. Result was Comparing all the symptoms before and after treatment both groups had significant action on Avegavastha of Tamaka Shwasa. Though group B (Talisadi Churna) was more effective than group A (Sauvarchaladi Churna). Both Churnas had no side effects on clinical trial. Statistical Analysis: The Statistical Analysis reveals that group B was more effective than group A. Conclusion: Both groups had significant action on Avegavastha of

Tamaka Shwasa. Though group B (Talisadi Churna) was more effective than group A (Sauvarchaladi Churna). Both Churnas had no side effects on clinical trial

KEY WORDS: - Tamaka Shwasa, Sauvarchaladi Churna, Talisadi Churna, Avegawastha, Chikitsa

INTRODUCTION: - Among the disorders affecting the Pranavaha strotas, Tamaka Shwasa is an important disease due to its higher and widespread incidence, chronicity and progression to grave condition in acute phase. The multifactorial origin of Shwasa evoking abnormal responses at the level of pranavaha strotas has been the subject of exposition by various Ayurvedic classical writers. The environmental exposure to unfavourable smoke, dust, wind etc are identified as important etiological factors of Tamaka Shwasa from the ancient time in Ayurveda.

The modern research on bronchial asthma is reached at a turning point, where immune mediated inflammatory response is recognised as having a number of distinct disease entities. These conditions are more effectively controlled by suppressing and reversing the inflammation rather than by only treating the bronchoconstriction and related symptom

The fundamental treatment method of Samshamana Chikitsa mentioned in Ayurvedic classics, if administered judiciously, the desired results can be achieved. In the present context, the re-validation of ancient ayurvedic or traditional compound preparations which can optimise the functions of respiratory tract by reversing the inflammatory responses and imparting the Balam of the system is important.

AIMS AND OBJECTIVES: -

AIM: - To Study the efficacy of Sauvarchaladi Churna and Talisadi Churna in the management of Avegavastha of Tamak Shwasa.

OBJECTIVES: -. 1) To study the Avegavastha of Tamak Shwasa 2) Comparative Evaluation between Sauvarchaladi Churna and Talisadi Churna in the management of Avegavastha of Tamak Shwasa.3) To see side effects or adverse effects of Sauvarchaladi Churna and Talisadi Churna during clinical trials.

MATERIALS AND METHODS: -

MATERIALS: - In the present study Sauvarchaladi Churna and Talisadi Churna were tried in the management of Avegavastha of Tamak Shwasa.

DRUG PREPARATION: - Sauvarchaladi Churna and Talisadi Churna was prepared in the Bharti Vidyapeeth College of Ayurved Rasashastra Dept. Standardization and authentication of drug was done.

Ingredients and quantity of 1)Sauvarchaladi Churna (Trial Group A) & Talisadi Churna (Control Group B):

1) Sauvarchaladi Churna (Trial Group A): (Ref. Cha. Chi 17/109)

Ingredients:	Proportion
Sauarchala	

Suntha	1 part
Bharangi	
Sharkara	2 parts
Anupan	Luke warm water

2) Talisadi Churna (Control Group B): (Ref. Sha.Samita- 132-136)

Ingredients:	Proportion
Talis Patra	1 Tola
Kali Miri	2 Tola
Shunti	3 Tola
Pippali	4 Tola
Vanshalochan	5 Tola
Choti Ela	½ - ½ Tola each
Dalchini	

METHODOLOGY: - Method of examination was followed as said in ayurvedic literature i.e., Rogapariksha by Nidanpanchak and Rogipariksha by Trividhpariksha And diagnosed Avegawastha of Tamak Shwasa on the basis Of Pratyatma lakshnas. Clinical trial special case paper proforma was prepared.

NUMBER OF PATIENTS: - In Clinical experimental sample study 50 number of diagnosed patients of Avegawastha of Tamak Shwasa was Selected into two groups each of 25 patients selected from OPD & IPD of Kayachikitsa Department in B.V.A.H. Pune and fulfilling the criteria.

DRUG ADMINISTRATION SHEDULE: was as follows

PARTICULARS	GROUP A - (TRIAL GROUP)	GROUP B - (CONTROL GROUP)
NO. OF PATIENTS	25	25
MEDICINS GIVEN	Suarchaladi Churna	Talisadi Churna
DOSE	3 Gms.	3Gms.
ANUPAN	Koshna jala	Koshna jala
TIME	Twice in a day in morning & evening half an hour before meal	Twice in a day in morning & evening half an hour before meal
DURATION	28 Days	28 Days
ROUTE OF DRUG ADMINISTRATION	Oral	Oral
ASSESSMENT	First day of before treatment. and last day of completion of treatment (i.e. 0 th , 7 th , 14 th , 21 st , 28 th)	First day of before treatment. and last day of completion of treatment (i.e., 0 th , 7 th , 14 th , 21 st , 28 th)
FOLLOW UP	(i.e. 0 th , 7 th , 14 th , 21 st , 28 th) day	(i.e. 0 th , 7 th , 14 th , 21 st , 28 th) day

ASSESSMENT CRITERIA: Diagnostic Criteria

SUBJECTIVE CRITERIA: - -Known patient of Avegawastha of Tamaka Shwasa with Signs and Symptoms of Avegavastha of Tamaka Shwasa

PRIMARY END POINT :- To reduce sign and symptoms of avegavastha of Tamaka shwas

SECONDARY END POINT:- To see the efficacy of Talisadi Churna and Souvarchladi Churna in the treatment of Avegawastha Of Tamakshwas.

EFICACY PARAMETER AND ASSESSMENT CRITERIA:- GRADIATION OF LAKSHANAS: Methods of scoring is adopted for every symptoms according to severity,duration and intervals of symptoms. Thus qualitative assessment is done 4) Which was assessed by grading lakshnas into 4 gradation as described as follows.1) Ayasenashwas 2) Kasa 3) Pinasa 4) Anidra 5) Aruchi 6) Trushna 7) Swidyata Bhrushamartiman 8) Daurbalya 9) Svarasada.

GRADE:- 1) Severe – 3, 2) Moderate – 2,3) Mild - 1, 4) Nil - 0

A)Ayasena shwas:- 0 -No symptoms, 1 - Mild (Appears after marked exercise), 2- Moderate (Appears after moderate exercise), 3 - Severe (Appears after gentle exercise)

B)Kasa:- 0 - Absent, 1 - Mild (Present Occasionally), 2 - Moderate (Present at night or early in the morning), 3- Severe (Present throught the day and night)

C)Pinasa:- 0 - No pinas, 1- Mild (Present occasionally), 2 - Moderate (present at night or early in the morning),3 = Severe (Present throught the day)

D) Anidra:- 0 - Absent (Good Sleep), 1 - Mild(6 hours Mild Disturbance), 2- Moderate(4 Hours Patient cant sleep at night due to Kasa and Shwas Krcchrata), 3 - Severe (Cant sleep throughout the day and night)

E) Aruchi:- 0 - Absent, 1 - Mild(Testless cant take diet occasionally), 2 - Modearate (Testless can take little amount of food), 3- Severe (Testless cant take regular diet)

F) Trushna:- 0 - Absent (1-2 Litres),1 - Mild(2-3 Litres),2 - Moderate(3- Litres), 3 - Severe (> 4 Litres)

G) Swidyata bhrushamartiman:- 0 – No,1 - Yes

H) Daurbalya:- 0 – No,1 - swaskruchrata after climbing 10 step, 2 -swaskruchrata after climbing 20 steps, 3 - swaskruchrata after climbing 30 steps

I) Svarasada:- 0 – No,1 – Yes

OBJECTIVE CRITERIA:- Investigation was done such as Haemogram with ESR, X-Ray Chest PA View ,ECG.There is no need to define peak flow metre in Avegavstha of Tamaka Shwasa.

OBSERVATIONS: - Evaluation of the results was done by clinical assessment and statistical data of the patients.

AGE DISTRIBUTION OF CASES

Age in Yrs.	Group A	Group B
<20	4	1
20 -39	14	16
40 -59	5	3
60+	2	5

SEX DISTRIBUTION OF CASES

Sex	Group A	Group B
Males	11	9
Females	14	16

OCCUPATION DISTRIBUTION OF CASES

Occupation	Group A	Group B
Students	8	3
Service	7	3
HW	8	14
Workers	2	5

COMPARISON OF AYASENSHWAS BETWEEN GROUP A AND GROUP B

Ayasenshwass	Mean score	
	Group A	Group B
Day 0	2.6	2.6
Day 14	1.4	1.16
Day 28	0.04	0.24

COMPARISON OF KASA BETWEEN GROUP A AND GROUP B

Kasa	Mean score	
	Group A	Group B
Day 0	2.52	2.56
Day 14	1.4	1
Day 28	0.16	0.2

COMPARISON OF PINASA BETWEEN GROUP A AND GROUP B

Pinasa	Mean score	
	Group A	Group B
Day 0	2.52	2.44
Day 14	1.04	0.84
Day 28	0.12	0.04

COMPARISON OF ANIDRA BETWEEN GROUP A AND GROUP B

Anidra	Mean score	
	Group A	Group B
Day 0	1.56	1.92
Day 14	0.84	0.68
Day 28	0.24	0.08

COMPARISON OF ARUCHI BETWEEN GROUP A AND GROUP B

Aruchi	Mean score	
	Group A	Group B
Day 0	1.68	2.2
Day 14	0.8	0.8
Day 28	0.24	0.04

COMPARISON OF TRUSHNA BETWEEN GROUP A AND GROUP B

Trushna	Mean score	
	Group A	Group B
Day 0	1.24	1.92
Day 14	0.6	0.64
Day 28	0.2	0

COMPARISON OF SWIDYATA BHRUS BETWEEN GROUP A AND GROUP B

Swidyata Bhrus	Mean score	
	Group A	Group B
Day 0	1.36	2.16
Day 14	0.44	0.72
Day 28	0.04	0.12

COMPARISON OF DAWRBALYA BETWEEN GROUP A AND GROUP B

Dawrbalya	Mean score	
	Group A	Group B
Day 0	1.92	2.08
Day 14	0.88	0.68
Day 28	0.2	0.04

COMPARISON OF SWARASAD BETWEEN GROUP A AND GROUP B

Swarasad	Mean score	
	Group A	Group B
Day 0	2.32	2.16
Day 14	0.72	0.64
Day 28	0.24	0.04

EFFECT OF THERAPIES ON LAKSHANA:-

THE TABLE SHOWS COMPARISON OF REDUCTION OF SYMPTOM OF AYASENSHWAS IN BOTH GROUP

Ayasenshwas Group A	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day0	2.60	.816	-	-
Day 14	1.40	.816	4.67	<0.001 HS
Day28	.04	.200	4.62	<0.001 HS

Ayasenshwas Group B	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day0	2.60	.816	-	-
Day 14	1.16	.746	4.51	<0.001 HS
Day28	.24	.436	4.42	<0.001 HS

Ayasenshwas	Mean score	Sd	Mann-Whitney test Z	P
Day 0				
Group A	2.60	.816	0	1.0 NS
Group B	2.60	.816		
Day 14				
Group A	1.40	.816	1.26	0.206 NS
Group B	1.16	.746		
Day 28				
Group A	.04	.200	2.02	0.044 Sig
Group B	.24	.436		

COMPARISON OF REDUCTION OF SYMPTOM OF KASA IN BOTH GROUPS

Kasa Group A	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	2.52	1.005	-	-
Day 14	1.40	.707	4.05	<0.001 HS
Day28	.16	.374	4.38	<0.001 HS

Kasa Group B	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day0	2.56	.821	-	-
Day 14	1.00	.645	4.44	<0.001 HS
Day28	.20	.408	4.48	<0.001 HS

Kasa	Mean score	Sd	Mann-Whitney test Z	P
Day 0				
Group A	2.52	1.005	0.13	0.893 NS
Group B	2.56	.821		
Day 14				
Group A	1.40	.707	2.12	0.034 Sig
Group B	1.00	.645		
Day 28				
Group A	.16	.374	0.36	0.716 NS
Group B	.20	.408		

THE TABLE SHOWS COMPARISON OF REDUCTION OF SYMPTOM OF PINASA IN BOTH GROUPS

Pinasa Group A	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	2.52	1.005	-	-
Day 14	1.04	.611	4.29	<0.001 HS
Day28	.12	.332	4.41	<0.001 HS

Pinasa Group B	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	2.44	1.158	-	-
Day 14	.84	.473	4.41	<0.001 HS
Day28	.04	.200	4.41	<0.001 HS

Pinasa	Mean score	Sd	Mann-Whitney test Z	P
Day 0				
Group A	2.52	1.005	0.14	0.889 NS
Group B	2.44	1.158		
Day 14				
Group A	1.04	.611	1.25	0.211 NS
Group B	.84	.473		
Day 28				
Group A	.12	.332	1.03	0.302 NS
Group B	.04	.200		

THE TABLE SHOWS COMPARISON OF REDUCTION OF SYMPTOM OF ANIDRA IN BOTH GROUPS

Anidra Group A	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	1.56	1.446	-	-
Day 14	.84	.943	3.63	<0.001 HS
Day28	.24	.436	3.46	0.001

Anidra Group B	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	1.92	1.187	-	
Day 14	.68	.557	3.96	
Day28	.08	.277	4.10	

Anidra	Mean score	Sd	Mann-Whitney test Z	P
Day 0				
Group A	1.56	1.446	0.91	0.363 NS
Group B	1.92	1.187		
Day 14				
Group A	.84	.943	0.33	0.738 NS
Group B	.68	.557		
Day 28				
Group A	.24	.436	0.53	0.127 NS
Group B	.08	.277		

THE TABLE SHOWS COMPARISON OF REDUCTION OF SYMPTOM OF ARUCHI IN BOTH GROUPS

Aruchi Group A	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	1.68	1.345	-	-
Day 14	.80	.816	3.79	<0.001 HS
Day 28	.24	.436	3.70	<0.001 HS

Aruchi Group B	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	2.20	1.118	-	-
Day 14	.80	.645	4.13	<0.001 HS
Day 28	.04	.200	4.45	<0.001 HS

Aruchi	Mean score	Sd	Mann-Whitney test Z	P
Day 0				
Group A	1.68	1.345	1.58	0.114 NS
Group B	2.20	1.118		
Day 14				

Group A	.80	.816	0.16	0.875 NS
Group B	.80	.645		
Day 28				
Group A	.24	.436	2.02	0.044 Sig
Group B	.04	.200		

THE TABLE SHOWS COMPARISON OF REDUCTION OF SYMPTOM OF TRUSHNA IN BOTH GROUPS

Trushna Group A	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	1.24	1.332	-	-
Day 14	.60	.645	2.89	0.004
Day 28	.20	.408	3.02	0.002

Trushna Group B	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day0	1.92	1.320	-	-
Day 14	.64	.569	3.88	<0.001 HS
Day28	.00	.000	4.02	<0.001 HS

Trushna	Mean score	Sd	Mann-Whitney test Z	P
Day 0				
Group A	1.24	1.332	1.77	0.077 NS
Group B	1.92	1.320		
Day 14				
Group A	.60	.645	0.36	0.719 NS
Group B	.64	.569		
Day 28				
Group A	.20	.408	2.33	0.020 Sig
Group B	.00	.000		

THE TABLE SHOWS COMPARISON OF REDUCTION OF SYMPTOM OF SWIDYATA BHRUS IN BOTH GROUPS

Swidyata Bhrus Group A	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	1.36	1.350	-	-
Day 14	.44	.583	3.36	0.001
Day 28	.04	.200	3.36	0.001

Swidyata Bhrus Group B	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	2.16	1.143	-	-
Day 14	.72	.542	4.11	<0.001 HS
Day 28	.12	.332	4.16	<0.001 HS

Swidyata Bhrus	Mean score	Sd	Mann-Whitney test Z	P
Day 0				
Group A	1.36	1.350	2.12	0.034 Sig
Group B	2.16	1.143		
Day 14				
Group A	.44	.583	1.84	0.065 NS
Group B	.72	.542		
Day 28				
Group A	.04	.200	1.03	0.302 NS
Group B	.12	.332		

THE TABLE SHOWS COMPARISON OF REDUCTION OF SYMPTOM OF DAWRBALYA IN BOTH GROUPS

Dawrbalya Group A	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day0	1.92	1.222	-	-
Day 14	.88	.726	3.84	<0.001 HS
Day28	.20	.408	3.90	<0.001 HS

Dawrbalya Group B	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	2.08	1.152	-	-
Day 14	.68	.476	4.18	<0.001 HS
Day 28	.04	.200	4.25	<0.001 HS

Dawrbalya	Mean score	Sd	Mann-Whitney Test Z	P
Day 0				
Group A	1.92	1.222	0.53	0.598 NS
Group B	2.08	1.152		
Day 14				
Group A	.88	.726	0.94	0.348 NS
Group B	.68	.476		
Day 28				
Group A	.20	.408	1.72	0.085 NS
Group B	.04	.200		

THE TABLE SHOWS COMPARISON OF REDUCTION OF SYMPTOM OF SWARASAD IN BOTH GROUPS

Swarasad Group A	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day0	2.32	1.108	-	-
Day 14	.72	.458	4.31	<0.001 HS
Day28	.24	.436	4.20	<0.001 HS

Swarasad Group B	Mean score	Sd	Wilcoxon Signed Ranks Test Z	P
Day 0	2.16	1.179	-	-
Day 14	.64	.490	4.20	<0.001 HS
Day 28	.04	.200	4.16	<0.001 HS

Swarasad	Mean score	Sd	Mann-Whitney test Z	P
Day 0				
Group A	2.32	1.108	0.55	0.579 NS
Group B	2.16	1.179		
Day 14				
Group A	.72	.458	0.60	0.548 NS
Group B	.64	.490		
Day 28				
Group A	.24	.436	2.02	0.044 Sig
Group B	.04	.200		

EFFECT OF THERAPIES ON HAEMATOCRIT VALUES: -

Group A	Mean score	Sd	Paired t	P
HB				
Pre	12.20	1.84	0.21	0.836 NS
Post	12.21	1.85		
ESR				
Pre	9.16	5.07	1.37	0.183 NS
Post	8.88	5.29		
E				
Pre	66.52	11.87	0.87	0.395 NS
POst	67.20	11.98		

Group B	Mean score	Sd	Paired t	P
HB				
Pre	12.24	1.83	1.69	0.103 NS
Post	12.27	1.83		

ESR				
Pre	7.04	0.67	1.44	0.161 NS
Post	6.80	0.76		
E				
Pre	67.60	3.92	4.27	<0.001 HS
POst	69.44	3.59		

DISCUSSION: - Out of the 53 patients registered for the study, 3 patients dropped out and the remaining 50 patients completed the full course of treatment. In group A of Sauvarchaladi Churna 25 patients completed the full course of treatment, while in group B of Talisadi Churna 25 patients completed the full course of treatment. In the group A, patients were subjected for Sauvarchaladi Churna in dose of 3 gm. morning & evening with lukewarm water. In group B, the patients were given Talisadi Churna in the dose of 3 gm. morning & evening with lukewarm water. The follow up was up to 28 days in both the groups. Each patient is assessed on the basis of lakshanas in them according to gradations.

Symptomatic relief is the main criteria for the assessment. Haemogram with ESR. CXR – PA view, & ECG was carried out before treatment. The observations made on all the 50 patients and the results obtained in both the treated groups are discussed ahead.

Age and Sex: In the present series of 50 patients of Tamaka-Shwasa, maximum number of patients i.e., 60 % were in the age group of 20- 39 years and 60% patients were female & males are 40%. This corroborates with that Tamaka-Shwasa is more prevalent in the younger age groups.

Occupation: Among 50 patients of Tamaka Shwasa , 44 % had House wife and 22 % of the patients were Students and 20% of the patients were Service and 14% of the patients were Workers . The significance in increased number of sufferers from house-wife class can be accounted to frequent exposure to house dust, smoke etc.

Addiction: This series showed that 45% patients having an addiction of chewing tobacco and 55% of patients having addiction of smoking.

Prakruti: Observations of the patients showed that maximum no. of patients i.e., 75% were belonged to Vata Pradhan kapha type of Sharira Prakruti & Kapha Pradhan vata in 18%, Pitta pradhan in 7%.

Socio-economical status: This study showed that maximum number of patients i.e. 45.5% were belonged to lower middle, 35.5% higher class, 19% patients of lower class.

AharaVidhi: Out of the 50 patients of Tamaka-Shwasa, maximum of 100 % patients have shown virudhasana

Ahara - Nidana: 100% patients where with ruksha & guru bhojan &

Vihara Nidana: In 63.33 %, Divaswapna was reported, which is the cause of Kapha prakopa. Excessive exposure to Dhuma in 31.66 %, Raja in 28.33 %, Sita sthana in 30 % of patients may act as both utpadaka and vyanjaka nidana. In 26.66 % of the patients, Ativyayama and in 28.33 % Vega vidharana are supposed to responsible for Vata prakopa.

Effect of Therapies on Lakshana (Symptoms) in Both Groups: - 1) Ayasena Shwasa - in this lakshana both Sauvarchaladi Churna & Talisadi Churna were effective. But Sauvarchaladi Churna showed slightly better result than Talisadi Churna. 2) Kasa - in this lakshana both groups were effective but. Group A (Sauvarchaladi Churna) showed slightly better result than group B (Talisadi Churna). 3) Pinasa - Both groups were effective but group B was better effective than group A. 4) Anidra - Both groups were effective but group B was better effective than group A. 5) Aruchi - Both groups were effective but group B was more effective than group A. 6) Trushna-- Both groups were effective but group B was more effective than group A. 7) Swidyata Bhrushmartiman-- Both groups were effective but group A was more effective than group B.8) Both groups were effective but group B was more effective than group A. 9) Svarasad - Both groups were effective but group B was more effective than group A.

Effect of Therapies on Haematocrit Values: 1) Haemoglobin: There is no significant change in both groups. 2) Erythrocyte Sedimentation Rate: There is no significant change in both groups. 3) Eosinophil: Eosinophil count was highly significantly reduced in group B than group A. 4) TLC: There is no significant action on Total Leucocyte Count in both groups. 5) CXR: There is no significant change in chest x-rays of Group A & Group B. 6) ECG: There is no significant change in ECG of Group A & Group B.

CONCLUSION: - 1) Talisadi Churna & Sauvarchaladi Churna were found to be effective in avegavstha of tamaka swasa.2) 60% patients of Avegavstha of Tamaka Shwasa were found in age group of 20 to 39 yrs. 3) Female patients found to be more prone to avegavstha of Tamaka Shwasa. 4) According to occupation house wife were found to be more prone to this disease. 5) Talisadi Churna was found to more effective than Sauvarchaladi Churna. 6) Statistically group B (Talisadi Churna) is more effective than group A (Sauvarchaladi Churna).7) There is no significant change in Haemoglobin, Erythrocyte Sedimentation Rate & Total Leucocyte Count in both groups. 8) There is highly significant reduction of Eosinophil count in group B than group A. 9) No serious adverse effects were found both groups.

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