



# A Clinical Study on the Management of *Tamaka Shwasa* W.S.R. to Bronchial Asthma with Shrungyadi Shaarkar

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### **Abstract:**

At present, many chronic recurrent airway disorders are increasingly seen all over the global population. Ayurveda has described one of such disorder as *Tamaka Shwasa*. The parallel in western medicine to this disorder i.e. Bronchial Asthma calls the attention of Medical world due to significant burden in terms of health care costs as well as lost productivity and reduced participation in family life. The disease, Tamaka Shwasa is characterized by paroxysmal attacks of breathlessness, cough, coryza, chest tightness, rapid respiration, distress due to inability to expectorate and prolonged expiration. In this clinical study 30 diagnosed patient of Tamaka Shwasa was registered and given Shrungyaadi Shaarkar. The outcomes were assessed by WHO Ayurveda symptoms scorring. The outcome of the treatment after giving Shrungyaadi Shaarkar for 8 weeks was observed to be significant in the parameters of kasa, shwasa, shasabdashwasa, kaphanisthivanam, PEFR, Respiratory Rate, Breath sound, Heart Rate, Total count, ESR, and Absolute Eosinophil count. The effect of Shrungyaadi shaarkar in Tamaka Shwasa given significant result due to Ushna, Tikshana, Bhedana, lekhana as well as anti-inflammatory, antioxidant, Bronchodilator property of all the ingredients which may help to prevent and reverse the pathogenesis. The study confirms that Shrungyaadi Shaarkar which was selected for the study is effective in treating the Tamala Shwasa.

**Key words:** Bronchial Asthma, *Shrungyaadi Shaarkar*, *Tamaka Shwasa* 

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#### **Introduction:**

Tamaka Shwasa is one of the five types of disease Shwasa. It is mainly a disease of Pranavahasrotas. [1] The signs, symptoms and etiopathogenesis of Bronchial Asthma explained in modern science have a lot of similarities with the disease entity Tamaka Shwasa. The main features of Bronchial Asthma are recurrent episodes breathlessness, chest tightness, wheezing and cough. The prevalence of respiratory disorders like Tamaka Shwasa (Bronchial asthma) is now a day's increasing alarmingly due to excessive pollution, overcrowding, occupational conditions, stress and poor hygiene etc. Ayurveda and modern medical Science agree regarding the Nidana of the disease as host factors (Nija Hetus-Doshadushti and Ama) and Environmental factors (Agantuj Hetus - Raja, Dhuma, Pragvat, etc). It can be easily correlated with allergic condition. Nidana Parivarjan hence plays a key role in the management strategy in both sciences. [2] Bronchial Asthma is a major global health problem, affect the population irrespective of age, sex, economic status, etc. It is very common at all ages but predominantly in early life. Current estimates suggest that 300 million people worldwide suffer from asthma and an additional 100 million may be diagnosed with asthma by 2025.[3] Bronchial Asthma calls the attention of Medical world due to significant burden in terms of healthcare costs as well as lost productivity and reduced participation in family life. Acharya Charaka has mentioned that Tamaka Shwasa is Kapha-vatajavikar and site of its origin is Pitta sthana. "Kaphavatamkavetopittasthanasamudbha

va"<sup>[4]</sup> Tamaka Shwasa in general is described as Yapya (palliable) disease. However in individual with recent origin of disease, person of *Pravara bala* or both said to be Sadhya. [5] Acharya Charaka has clearly mentioned the importance parivarjana, and following principles for the management of Shwasa Roga. 'The medicine and dietetic regimen which controls the Kapha and Vata due to their Ushna guna and are Vatanulomaka in action must be utilized in Shwasaroga". [6] treatment of Brimhana is considered the best option compared to Shamana and Karshana when treating *Tamaka Shwasa* patient.<sup>[7]</sup> Also, any remedy which aggravates Vata and pacifies Kapha or which pacifies Vata and aggravates Kapha or which pacifies either Vata kapha or which pacifies only Vata should be used for the management of [8] Tamaka Shwas The current Tamaka management ofShwasa (Bronchial Asthma) by modern medicine is only providing short term symptomatic relief but does not provide any long term relief to the patient. On the other hand prolonged use of these drugs are not safe, as it has many adverse effect with systemic manifestation and as the Chronicity increases drug dose dependency increases & dilates the lung tissue to such an extent that at last it leads to respiratory failure. In present scenario Ayurveda is the best way to effectively & safely manage the condition without any drug dependency where various Shodhana procedures and use of internal medication not only detoxifies the body but also provides nutrition & increases the elasticity of lung tissue & develops natural immunity of the body. So with this aim present study was



conducted to provide a unique, but accurate & effective method of dealing with the complexities of the disease. Thus decreasing episodic recurrence of the disease and providing long term relief to the patient. For the present study drug has been selected from *Chakradatta Hikkashwasa-chikitsaprakarana*. [9]

Shrungyaadi Shaarkar drugs are selected as per the principles of Ayurveda and Research work conducted regarding these drugs in various research institutes. Drugs having Vatakaphahara, &Vatanulomaka property were selected & Compound preparation in the form of Shaarkar was prepared. Contents of Shrungyaadi Shaarkar is Karkatshringi, Shati, Pushkarmula, Maricha, Shunthi, Pippali, Musta and Sharkara in equal parts except Sharkara which is taken just double of all seven ingredients. After the evaluation of the trial, it has been proved that Shrungyaadi Shaarkara with luke warm water as Anupana Dravya shown

remarkably good results, in pacifying the symptoms and reducing the recurrence and frequency of episodes in the patients of *Tamaka Shwasa*. The study has been planned with aim to Evaluate the Therapeutic Effect of *Shrungyaadi Shaarkar* in management of *Tamaka Shwasa*.

# Material & Methods: Selection of Patients:

Total 30 Patients of *Tamaka Shwasa* were selected from the O.P.D. on the basis of inclusion and exclusion criteria, depending on the detailed clinical history, physical examination and other necessary / desired investigations and irrespective of their gender, caste or creed.

This work is approved by Institutional Ethics Committee (IEC No: PU/PIAIECHR/2017/40) and Registered in Clinical Trial Registry India (C.T.R.I. No. CTRI/2017/12/01099).

#### **Source of Data Points**

Patient screened (n= 40)



No screen failure n=0



Shrungyadi Shaarkar for 8weeks follows up each 15 days



Lost to follow up (n=10)



Completed (n=30)



Final analysis n=30



The study is open labelled single arm clinical study in which 30 patients of diagnosed cases of *Tamaka Shwasa* (Bronchial Asthma) were selected from Out-patient department of Kayachikitsa, Parul Ayurveda Hospital, Parul University and referred cases from other department's physicians. Patient's age group of above 16-30 years irrespective of sex, Religion, Socio-economic Status.

# **Inclusion Criteria**:

Patient of Age Group 16 to 60 years of age irrespective of caste, religion, gender, habitat, occupation and socio – economy status, Patient manifesting the symptoms of *Tamaka Shwasa* with symptoms *Shwasa vega*, *Kasavega*, *Sashabda shwasa*, *Kaphanisthivinama*, Decreased PEFR, Decreases breath holding time, Increase respiratory rate.

# **Exclusion Criteria:**

Severe cases of Asthma with complication like suspected infection larger airway lesion, heart disease etc. Chronicity more than 10 years, Cardiac complaints other chronic debilitating disease like HTN, T.B. AIDs, DM Allergic Bronchitis, COPD etc or other systemic and endocrine

## Criteria for Assessment:

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

**Subjective:** The subjective assessment was done on the basis of improvement in signs and symptoms of *Tamaka Shwasa* described in classics, before during and at the end of the trial.

**Objective:** The objective assessment was done on the basis of changes in clinical findings, relevant laboratory parameters and Pulmonary Function Test before during and at the end of the trial.

complaints associated with any degree of Asthma.

#### Criteria for withdrawal:

Some of patients withdraw the treatment of *Shrungyaadi Shaarkar* due to some Personal matters some due to intercurrent illness some due to Aggravation of complaints and some other difficulties.

# **Diagnostic Criteria:**

An extensive proforma was compiled on the basis of classical signs and symptoms of the Tamaka Shwasa as per the Ayurveda. A detailed clinical history and respiratory examination was done and the data was collected of each patient compiled and filled in proforma. All vital signs like B.P, Pulse Rate, and Respiratory rate were noted and Peak Flow Meter reading. Breath holding time was taken before and during for treatment assessment.

#### **Interventions:**

The trial drug chosen for the present studyan herbal preparation-ShrungyaadiShaarkar which containing-Karkatshrungi, Sunthi, Pippali, Musta, Pushkaramoola, Shaarkar all churna in equal quantity and Shaarkar is in 4 times more.

# **Laboratory Investigations:**

Complete blood count, Erythrocyte Sedimentation Rate, Absolute Eosinophile Count, X-Ray chest PA view.

For the sign and symptoms of the disease *Tamaka Shwasa*, grading was done depending upon the severity and assessment was done on the following *Lakshanas* graded. All the signs & symptoms were given scores depending upon their severity before, during and at the end study.





# **Preparation of the Drug:**

All the seven ingredients are taken in equal quantity and made into coarse powder; the quantity was 14 kg of weight of all drugs before making coarse powder and mixed well in 50 litres of water to prepare the decoction. The mixture is converted into *Kashaya* and later mixed 40 kg of

Sharkara was added. Then it converted in to Shaarkar Kalpana as per Sharangadhara Samhita. [10] Shaarkar was kept in under observation for 7 days. If there will be fungus formation or not after that confirmation Shaarkar packed in 100 ml bottle.

**Table-1: Interventions:** 

Drug	Dose	Time	Anupana	Duration	Follow Up
Shrugyadi	10 ml	After food	Warm water	8 weeks	2 weeks
shaarkar	thrice in a day				

**Table-2: Observations on Demographic Data** 

Observation	No of patients	Total
Age	$40.303 \pm 12.665$	30
Gender Female/Male	8/22	30
Religion Hindu/Muslim	29/1	30
Marital Status/ Married/ Unmarried/ Widow	25/4/1	30
Aggravating Factor/ Cold climate/Rainy Climate	30/17/30	30
Reliving Factor/ Hot treatment/ Expectoration/ Sitting	30/30/30	30
Postural Aggravation/ Sleeping/ Walking/ Exercise	12/8/30	30
Allergic factor/Dust/Fumes/Pollen	30/15/8	30
Onset/gradual/Acute/Insidious	29/1/0	30
Chronicity/<1/3-5/5-7/7-10	12/6/8/4	30
Severity/mild/moderate/sever	6/25/0	30
PEFRValue/<100/100-200/200-300/>300	0/12/16/2	30
Family History/ Present/ Absent	5/25	30
Bowel habit Regular/irregular/ Not At All	1/2/27	30
Diet/Veg/mixed	18/12	30
KosthaMrudu/madhyam/krura	13/9/8	30
Dietaryhabits Samashana/vishmashana/adhyashana	12/17/11	30
Prakruti Vata-Pitta/Kapha-Vata/Kapha-Pitta	6/8/16	30
Menstrual history Regular/irregular/menopause	6/1/1	30
Vyayama Regular/irregular/Not at all	1/2/27	30
Nidra/Sound/Disturbed/RatriJagaran	16/12/3	30
Occupation House-wife/ Labourer/ Service class/	6/13/3/5/3	30
Business/ Student	10/17/1	20
Vyasana/ Tobacco/ Smoking/ Alcohol	12/17/1	30





Table-3: Effect of therapy on physical parameter:

Physical	Mean	Mean	% of	SD	SE	T Value	P Value
parameter	BT	AT	changes				
BHT	1.333	2.333	42%	0.263	0.0479	20.857	< 0.001
Respiratory	22.567	20.667	8.41	3.033	0.554	3.432	0.002
rate							
Peak	236.333	349.900	48%	64.398	11.757	-9.659	< 0.001
Expiratory							
Rate							

**Table-4: Effect the Haematocrit values:** 

Investigation	Mean	Mean	% of	SD	SE	T	P Value
	BT	AT	changes			Value	
Hob%	12.537	13.387	-6.80%	0.842	0.154	-5.527	< 0.001
ESR	25.067	21.133	15.69 %	4.941	0.902	4.361	< 0.001
Europhiles	63.500	54.033	14.90%	7.642	1.395	6.785	< 0.001
Eosinophil	3.533	1.433	62.35%	1.094	0.200	10.515	< 0.001
T.L.C	8550.833	8647.556	0.29%	1178.348	226.773	0.162	0.873

Table-5: Statistical analysis: (Wilcoxone- signed Rank test):

Parameter	Sum of	Sum of	No of	Z	P value	Remarks
	rank of	rank of	Patients	Value		
	BT	AT				
Kasa intensity	1.00	15.50	30	4.965	.000	HS
Kasa frequency	3.00	15.50	30	5.025	.000	HS
Kasa life quality	6.00	15.50	30	4.893	.000	HS
Shwasa intensity	1.50	11.00	30	4.118	.000	HS
Shwasa frequency	.00	14.50	30	4.714	.000	HS
Shwasa life quality	4.00	15.00	30	4.870	.000	HS
Shwasa reliving factor	3.00	15.00	30	4.585	.000	HS
Kaphanisthinam	.00	15.00	30	4.231	.000	HS
Sashabdashwasa	3.00	13.00	30	4.457	.000	HS
Ronchi	4.5	4.00	30	2.121	0.030	NS
Crepitation	5.50	15.50	30	4.932	0.22	NS





**Table-6: Overall effect of therapy:** 

Symptoms	N	% Relief	P value	Statistically
Roga Bala				·
Kasa (Intensity)	30	88.70%	< 0.001	Highly Significant
Kasa (Frequency)	30	90.58%	< 0.001	Highly Significant
Kasa (Life Quality)	30	92.25%	< 0.001	Highly Significant
Shwasa (Intensity)	30	61.75%	< 0.001	Highly Significant
Shwasa (Frequency)	30	81.01%	< 0.001	Highly Significant
Shwasa (Life Quality)	30	65.94%	< 0.001)	Highly Significant
Shwasa (Relieving	30	58.76%	< 0.001	Significant
Factor)				
SashabdaShwasa	30	56.63%	< 0.001	Significant
KaphaNisthivana	30	96.87%	< 0.001	Highly Significant
(Sputam)				
Ronchi	30	53%	<0.001)	Significant
Crepitations	30	52%	<0.001)	Significant
Peak Expiratory Flow	30	48%	<0.001)	Not Significant
Rate (PEFR)				
Breath Holding Time	30	42%	<0.001)	Not Significant
(BHT)				
Respiratory rate	30	6.80%	< 0.002	Not significant
Agnibala				
Abhyavaharanashakti		62%	< 0.001	Highly Significant
Jaranashakti		58%	< 0.001	Significant
Ruchi hi Aharakala		71%	< 0.001	Highly Significant
Vatamutra Purish Rate		50%	< 0.001	Significant
Dehabala				
Balavriddhi		60%	< 0.001	Highly Significant
Shwara Varna Yoga		41.38%	< 0.001	Not Significant
ShariraUpachaya		4.51%	0.103	Not Significant
Chetasabala				
Status of sleep		62.23%	< 0.001	Highly Significant
Feeling of well being		56.67%	< 0.001	Significant
Dreams		11.58%	0.134	Not Significant
MBI avyaptti		42.85%	< 0.001	Significant



#### **RESULT:**

# **Effect of Therapy on Emergency Medicines**

The mean score of emergency medicines in prior to the treatment was 3.400 After the treatment the same reduced to 2.167 with mean difference of 1.233 The change that occurred with the treatment is greater than would be expected by chance; this improvement when analysed by the paired 't' test found significant (P = <0.001).

As Tamaka Shwasa is an episodic disease and acute dyspnoea attack may disturbs the patient at any time duration and interval. We found that all patients under this trial have remarkable improvement and also observed that, severity of symptoms and time period between two successive dyspnoea attacks increased. During the study also observed that relief in severity and increased in duration between two episodes is related to the Chronicity of the disease means lesser the Chronicity greater the relief and in more chronic patient we observed less significant improvement. We found this medicine gives significant improvement in the patients who have Chronicity less than 1 year.

#### **Discussion:**

The formulation which was used in trial have many drugs i.e. Karkatshrungi, Shati, Taritatu, Pushkarmoola, Musta, Sharkara. The all drugs are having Katu, Tikta, rasa, Usnavirya, Lekhana, Bhedan, chhedana, vatanulomaka property so it is very useful help to clear the blockage and normalizing the vitiated Doshas. These properties specifically katu Rasa and UshnaVeerya may act as Vata Hara i.e. the reaction of an towards organ any stimulus KatuVipakaproperty of the drug helps to cure Ama the inflammatory condition of the bronchial tree. *Laghu*, *Ruksha* and *Tikshana* property helps to control *Kapha* responsible for the mucogenic secretion in the respiratory track. <sup>[12]</sup>

The classical formulation of the Shrungyadi Shaarkar is mentioned in classical text of *Bhaisajya Ratnavali* in the form of churna Kalpana (powder form). But here the formulation is changed and is considered in the form of Shaarkar Kalpana (syrup form. In present study the formulation made in the syrup form for easy palatability of patient. In the research study, it is very necessary to fix the accurate dose of the drug. The fixation of the drug dose is very easy & accurate in the case of *Shaarkar* (Syrup) *Kalpana* than churna Kalpana.

So after the complete study results is statistically significant in all subjective or objective parameter some of them got significant result in subjective parameter but not in objective parameter i.e. Crepitation, Ronchi some of them got result in such as increases respiratory rate, and breath holding time. There is also result found Haematocrit value such as increased Hb%, reduction in ESR, AEC value.

On the basis of Statistical test, it can be concluded that Shrungyaadi shaarkar has shown excellent improvement in PEFR, BHT, Respiratory rate of the patient of Tamaka Shwasa with maximum no. of patients achieving a PEFR value between 90–100% of their normal predicted value according to height and age. The drug has shown effectiveness in lowering the raised eosinophils and ESR in the patients of Tamaka Shwasa.

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## Mode of action of drug:

Shrungyadi shaarkar is the Shaman yoga in Shwasa is expected to work on Pranaudaka and Annavahasrotasa and should provide Dipana- Pachana, Vatanulomana, Vatakaphahara property. All Characteristics made these drugs to act on Prana - Udaka and Annavahasrotasa so that the Samprativighatana occurs in a systemic manner starting from Aamashaya where the Dipana-pachana and Agniguna of these drugs helps in the Pachana of Ama in the body. Also Kaphaghna and Kaphanissaraakaguna will helps in the removing of blocked channels of the body i.e. Srotorodha will be cured and Vatanulomana will be achieved so that the Kupitavata will attain its Samyaka state and there will be relief in the symptoms of *Tamaka Shwasa*. Balya guna of these medicines on the other hand will prevent the Prakopa of Vayu which may occur due to continuous use of Kapahnashak & Kaphanissaraka aushadh.

# Pharmacological activities of trial drugs:

Pharmacological Action of all the drugs of Shrungyaadi Shaarkar are explained here like Anti-inflammatory action mentioned for Sunthi, Karkatshrungi, Kocher, Musta, Pippali, Anti-allergic action of Karkatshrungi. Pushkaramoola is Mast cell stabilization in action. Kocher is Anti-oxidant, Bronchodilator and Anti-histaminic. Karkatshrungi, Musta is Anti-jussive in action. Pushkaramoola, Sunthi, Pippali are Immunomodulatory

Features like appetite, digestion, weight gain, improved due to improved nutrition at the cellular level by *Deepan-Pachan* (carminative and digestive) and

Agnivardhan (increase digestive power of individual) properties of *Pippali* improved nutrition to each and every body tissue results in improvement in features like general and mental feeling of well-being, ability to work and fatigue Shrungyaadi Shaarkar through Vata-Kapha pacifying, Srotorodha and Kaphanissaran properties makes the pathway clear for proper circulation of Vata thus relieving various respiratory signs and symptoms. It was observed that Respiratory Rate reduces significantly. Breath Holding Time & Sustained Maximum Inspiration Increases significantly. Haemtocrit value increases Hb% significantly. Neutrophils & ESR reduces significantly. Mild changes were shown in WBC &Eosinophill count. No side effects were observed from the drug were noted during the trial and follow- up period.

#### **Conclusion:**

It can be used for long term management just because of it is an herbal formulation so that no side effect was found in all 30 patients. It may hinder the complication of Tamaka Shwasa. It may Enhances the life span of patient with good quality of life. It is very easy to take the medicines, good in taste, no offense smell, eco-friendly therapy, herbal drugs are containing of the drug. So, that by concluding this study the alternative hypothesis has been stabilized i.e. *Shrungyaadi Shaarkar* is effective the management of *Tamaka Shwasa*.

## **Limitation of the study:**

Small sample size i.e. study was carried out only in 30 patients. Future scope of this study may suggest Study should be carried out in larger samples Study should

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be carried out by adding another drug. Study should be carried out by changing preparation with different form of Anupana, Other Sodhana, with Sthanik Abhyanga Swedana, as an adjuvant in acute cases.

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