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CLINICAL EFFECT OF *VIRECHANA* AND BADARA CHURNA IN THE MANAGEMENT OF *TAMAKA SHWASA* (BRONCHIAL ASTHMA)

1*Dr. Shailej Gupta and 2Dr. Twinkle Gupta

¹Professor & HOD Panchakarma Department JIAR, Jammu. ²Professor & HOD Kaychikitsa Department JIAR, Jammu.

Corresponding Author: Dr. Shailej Gupta

Professor & HOD Panchakarma Department JIAR, Jammu.

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ABSTRACT

To evaluate comparative effi cacy of Samshodhana and Samshamana Chikitsa, the current study is planned in 24 patients of Tamaka Shwasa. Thirteen patients (Group A) were treated with Samshodhana, particularly with Virechana Karma. The patients of this group received Abhyantara Snehana with Tila Taila followed by Bahya Snehana with Tila Taila and Saindhava Lavana. After observations of proper signs of Snehana; Virechana Karma was performed with Aragvadha Phala Majja. Samsarjana Krama was followed for fi ve days. Subsequently all the patients were given the trial drug (powder of Badara). The patients of group B, were treated only with the powder of dried ripe fruits of Badara. In both groups, the dose of Badara powder was 5 g, twice a day, with luke warm water, for a period of 60 days. In group A, maximum number of patients (61.45 %) showed good response, while in group B, 45.45 % patients showed good response. No side effects were observed during the clinical trial. Based on the observations, it was concluded that, group A is more effective than group B.

KEYWORDS: Aragvadha Phala Majja, Badara Phala Majja, Bronchial Asthma, Tamaka Shwasa.

INTRODUCTION

Tamaka Shwasa is a type of Shwasa Roga (respiratory disease) affecting the Pranavaha Srotas and characterized by *Pratiloma Vayu* (prolonged expiration), Ghurghuraka (wheeze), Ativa Tivra Vagam Ca Shwasam Pranaprapidakam (dyspnoea of exceedingly deep velocity, which was immensely injurious to life) and so on Tamaka Shwasa, in Ayurvedic classics seems to be identical with the description of bronchial asthma in modern medicine. Bronchial asthma is a major global health problem, which can affect the population irrespective of age, sex, economical status, etc. At present, asthma is reported in 1.2 - 6.3% adults in most countries. About 300 million people worldwide suffering from asthma and the number has risen by around 50% in the last decade. There are only a few studies from India on epidemiology of asthma. Overall burden of asthma in India is estimated to be more than 15 million patients. Five percent of children under 11 years have asthma in India.

A number of drugs are available in modern system of medicine to counter this condition, but are known to develop various adverse drug reactions. Considering these reactions, the suffering population is searching certain traditional remedies for better relief that are comparatively safe in nature. Ayurveda can provide promising results in *Tamaka Shwasa* through a set of

treatment modalities. *Shodhana* and *Shamana* are some of such modalities. Currently, an attempt has been made to evaluate comparative efficacy of *Shodhana* and *Shamana Chikitsa* in case of *Tamaka Shwasa*.

MATERIALS AND METHODS

Patients fulfilling the criteria of *Tamaka Shwasa* (Bronchial Asthma) were registered in the clinical study, irrespective of sex and religion from the OPD & IPD of JIAR hospital, Jammu.

Inclusion criteria

- (1) Age: Patients between 17 to 70 years of age.
- (2) Presence of features of *Tamaka Shwasa*.
- (3) Patients not taking any other medicines for *Tamaka Shwasa*.

Exclusion criteria

Patients suffering from major disorders like hypertension, cardiac asthma, tropical pulmonary eosinophilia, acute and chronic bronchitis, bronchiectasis, spontaneous pneumothorax, complicated bronchial asthma, drug dependent cases and pregnant women were excluded from the study.

A detailed history and physical examination was done on the basis of the standard proforma, which included both Ayurvedic and modern methods of examination:

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Agnibala, Dehabala, Prakriti were recorded. For selection of the patients the diagnosis was based on subjective criteria and objective criteria as follows:

- A. Subjective criteria: Presence of symptoms of Tamaka Shwasa. The symptoms were based on textual references like Pratiloma Vayu (prolonged expiration), Ghurghuraka (wheeze), Ativa Tivra Vegam Ca Shwasam Pranaprapidakam (dyspnea of exceedingly deep velocity, which was immensely injurious to life), Shlesmanyamucyamane Tu Bhrsam Bhavati Duhkhita (as the phlegm does not come out, the patient became more restless), *Uddhvamsate* Kantha (choked throat), Asino Labhate Saukhyam (comfortable in orthopnea position), Tasvaiva Ca Vimoksante Muhurtam Labhata Sukham (patient found momentary relief after the expulsion of phlegm), Shayanah Shwasapiditah (patient had more dyspnea when lying down), Ruksa Bhasana (hoarseness of voice).
- **B. Objective criteria:** As objective criteria, the following investigations were carried out –
- (a) Blood: Total leucocytes count, differential leucocyte count, hemoglobin percentage, Erythrocyte

Sedimentation Rate (ESR), (b) Stool: Routine microscopic examination of the stool., (c) Urine: Routine urine examination, (d) Radiological examination: X-ray of the chest, (e) Pulmonary Function Tests: (i) Breath Holding Time and (ii) Peak Expiratory Flow Rate.

Plan of study: Total 24 patients have been enrolled in the trial and were divided into two groups viz *Samshodhana* and *Samshamana* (Group A) and *Samshamana* (Group B).

(A) 13 Patients in group A, received *Samshodhana* therapy (*Virechana Karma*). *Snehana* (oleation therapy) with *Tila Taila* in increasing dose (1st day – 40 ml, 2nd day – 80 ml, 3rd day – 120 ml, 4th day – 160 ml and 5th day – 200 ml) was administered to produce the optimum *Snehana* effects. The duration of intake of *Snehapana* in all cases was five days. On the 5th day the features of proper oleation were observed. Along with internal oleation, external oleation of the patients was done with *Til Taila* added with *Saindhava Lavana* particularly over the chest and back was done.

	Group A (n=13)					Group B (n=11)					
	Mean	SD	SE	t	р	Mean	SD	SE	t	р	
Prolonged expiration	1.76	2.06	0.57	03.10	< 0.01	1.54	0.69	0.21	7.14	< 0.001	
Cough	1.09	0.49	0.14	06.78	< 0.001	0.64	0.81	0.24	2.67	< 0.02	
Rhinitis	0.92	0.64	0.18	05.21	< 0.001	0.64	0.50	0.14	4.26	< 0.01	
Wheeze	2.46	0.66	0.43	05.72	< 0.001	1.55	0.69	0.21	7.45	< 0.001	
Dyspnoea	1.85	0.55	0.15	12.30	< 0.001	1.88	0.87	0.26	4.54	< 0.001	
Restlessness	1.69	0.48	0.12	13.7	< 0.001	1.45	0.69	0.21	6.90	< 0.001	
Choked throat	1.23	0.44	0.17	10.11	< 0.001	1.00	0.77	0.23	4.35	< 0.001	

Table 2: Effect of therapy on objective features.											
	Group A (n=13)					Group B (n=11)					
	Mean	SD	SE	T	р	Mean	SD	SE	t	p	
BHT	17.615	8.231	2.282	7.719	< 0.001	5.00	2.86	0.869	5.8139	< 0.001	
PEFR	78	28.03	7.77	10.038	< 0.001	20.909	23.855	7.192	2.9069	< 0.02	
TLC	4077.9	3707.2	1028.2	3.96	< 0.01	6272.72	3875.32	1168.4	5.3683	< 0.001	
ESR	13	5.49	1.52	8.55	< 0.001	4.72	3.07	0.93	5.1010	< 0.001	

DISCUSSION

Comparative data revealed that the 'p' value in almost all the features was highly significant, except *Pratiloma Vayu*, where the response was moderately significant in group A. On the other hand the response in group B was highly significant in maximum subjective features. The response to *Pinasa* was moderately significant, whereas that to *Kasa* and *Ruksa Bhasana* was less significant in group B. From the data of the objective features, the 'p' values were almost highly significant (*P*<0.001) in the maximum parameters. When the overall effect of therapy was considered, it was found that the response in group A was highly significant when compared to group B. Hence, it can be concluded that the *Shodhana* with '*Badara Churna*' is more effective. The results are encouraging and support the classical claim that *Badara*

is effective in alleviating the symptoms of *Tamaka Shwasa* and can be used extensively in the treatment.

Probable mode of action of the drug

Charaka has advised Samshodhana in Tamaka Svasa & has given more emphasis on Virechana Karma to correct the dearranged Doshas (Vata and Kapha). In addition, ingredients that alleviate Vata and Kapha (Kapha-Vataghnam), Ushna Virya (hot in potency) and which cause a downward movement of Vata (Vatanulomanam) are useful as medicines (Bhesaja), Pana (drinks), and Anna (food) for a patient suffering from asthma. A number of drugs are described for Virechana Karma in classical texts. Out of these, for the present study Aragvadha (Cassia fistula Linn) was selected. Charaka has considered it as the best Mridu Virechana Dravya

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and Badara (Zizyphus jujuba Lam) is considered as useful in *Shwasa* by *Sushruta* Govinda Das *Aragvadha* is Madhura, Tikta Rasa; Guru, Mridu, Snigdha Guna; Shita Virya and Madhura Vipaka. Hence, the drug is useful as Vata-Pitta Shamaka. Due to Madhura, Snigdha Guna it helps in Vatashamana as well as Kaphanihsarana and due to Sransana property it excretes Kosthagata Kapha and Pitta. In Ashtanga Hridaya, Aragvadha is described in the Kaphaghna Gana and in Sushruta Samhita, Aragvadha has been described as the Adhobhagadosahara Dravya. As per Charaka Samhita, Aragvadha is the best Mriduvirecana drug. Therefore, it helps in Kapha Nirharana along with Vatanulomana. Thus, the drug helps in Dosha-Dushya Vighatana in the disease Tamaka Shwasa. According to different Ayurvedic textual references, Badara Phala Majja possesses Madhura, Amla, Kasaya Rasa; Laghu, Snigdha Guna; Shita Virya and Madhura Vipaka. As per Charaka, Badara has been described in Virechanopaga Mahakasaya as Virechana Dravya and also described in Amla Skandha. As per Sushruta, Badara has been described in Vata Samshamana Varga. Hence, the drug fulfils the criteria of the line of treatment described in Charaka Samhita, Chikitsasthana.

CONCLUSION

Tamaka Shwasa is a type of Shwasa Roga affecting the Pranavaha Srotas, which is significantly distressing and a fatal disorder of the present-day-life. Tamaka Shwasa has been described in various Ayurvedic classics and seems to be identical to bronchial asthma. On comparative analysis of the data, it appears that Shodhana Chikitsa is more effective than Shamana Chikitsa in Tamaka Shwasa. On the basis of the findings it can be concluded that *Virechana Karma*, a purification therapy is the potential procedure for the treatment of Tamaka Shwasa. Badara Phala Majja Churna is found to be an effective drug for Tamaka Shwasa. It has also been observed that the drug is found to be more effective in patients after purification. No side effects have been observed during the present study. Further studies in this direction are essential in a good number of cases, for a longer period, to establish probable mechanism of action of the drug.

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