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# A CLINICAL STUDY TO EVALUATE THE EFFECT OF SHARISHARISHTA IN THE MANAGEMENT OF PRATISHYAYA W.S.RTO ALLERGIC RHINITIS

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#### ABSTRACT

*Pratishaya* is a *vata* pradhan disease occurs due to accumulation of *Doshas* in *Uttamanga*. In *Ayurvedic* system of medicine it is explained as Sneezing, Watery discharge from nose, Stuffy nose, Itching in nose etc. Allergic rhinitis is a global health problem and is increasing in prevalence. In the present study 56 patients were selected randomly and treated with *Sharisharishta*. The therapy proves to be an easily available, cost effective, herbal alternative in the management of *Vataja Pratishyaya* (Allergic rhinitis). The signs and symptoms were studied before and after treatment. Results of study showed marked (40%) and moderate (60%) improvement in patients in 1 month except Granulation on posterior pharyngeal wall which was found non significant.

**KEYWORDS:** Pratishyaya, Sharisharishta, Allergic Rhinitis, Pradhana.

#### INTRODUCTION

Allergic rhinitis, certainly one of the prime diseases of Rhinology, is such a disease, which hardly leaves any person of any age group<sup>[1]</sup> It is an acute IgE mediated, type 1 hypersensitivity reaction of nasal mucosa in response to antigenic substance associated with episodic attacks of sneezing, watery rhinorrhea & watering of the eyes.<sup>[2]</sup> According to WHO, 400 million persons world wide have Allergic rhinitis.<sup>[3]</sup> The international study of asthma and allergies in childhood (ISAAC) noted the prevalence of allergic rhinitis vary widely from 0.8 to 39.7% in different countries throughout world.<sup>[4]</sup>

It is similar to the disease 'Vataj Pratishaya' described in Ayurvedic classics. It is seen to be one of the major problems, which can cause disturbance in routine work. In Uttartantra, Acharya Sushruta has devoted one separate chapter to Pratishaya after explaining Nasagataroga,<sup>[5]</sup> Vata is the main Dosha and Kapha, Pitta and Rakta,<sup>[6]</sup> are associated to it.The disease Pratishaya in the initial phases a curable disease entity but if it takes, a chronic course may lead to many associated complications like Badhirya, Andhatva, and Shopha etc.<sup>[7]</sup> Aacharya Sushruta has mentioned dusty and sandy atmosphere (Dhuli,raja) as a potential cause of abrupt onset of rhinitis. These two etiological factors

are also described by *Aacharya Charaka* and *Aacharya Vagbhatta*. House dust is a mixture of approximately 28 allergenic components and one of the most common aetiological factors of Allergic rhinitis. House dust mites are the dominant allergens in house dust and world widely the commonest cause of perennial allergic rhinitis.<sup>[8]</sup> Allergic Rhinitis is the commonest disorder of the nose to be seen in an out patient department. Within minutes after exposure of an allergic patient to antigen, an inflammatory response occurs. The patient first senses congestion. The condition can cause emotional distress, impaired normal activity and reduced attendance at work or school.<sup>[9]</sup>

This present study includes detailed study of the disease, its nature and course and to evaluate the effect of *Ayurvedic* drug on chronicity of the disease. Therefore keeping in view the need of time and gravity of the disease, present study was undertaken with the topic entitled "A Clinical Study To Evaluate the Effect Of *Sharisharishta* In The Management Of *Pratishyaya* W.S.R to Allergic Rhinitis".

In this research work 56 patients were taken for study in single trial group. The duration for trial was 30 days for *Sharisharishta*, evaluation based on subjective criteria.

#### AIMS AND OBJECTIVES

- 1. To study the effectiveness of the drug.
- 2. To establish the prevalence of the disease according to age and seasonal variations.
- 3. To study the side effect or hypersensitivity of drug if any.

## MATERIALS AND METHODS

#### **Selection Criteria**

A total number of fifty six patients were selected from Shalakya Tantra OPD/IPD of R.G.G.P.G.Ayu. Hospital, Paprola, after obtaining their consent. Case study was random and irrespective of age, sex, caste, religion, occupation etc. All the patients were followed up every 15 days interval for 2 months after commencement of trial.

## **Inclusion Criteria**

Patients of different age group having features described in allergic rhinitis were selected.

## **Exclusion Criteria**

- 1. Severe nasal obstruction i.e. severs DNS, adhesion of nasal cavity, nasal polyp.
- 2. Active systemic disorders like hypertension, diabetes mellitus, cancer, renal, hepatic and gastrointestinal

#### • Itching in nose, palate & pharynx

• Itening in nose, parate & pharyinx	
No itching	0
Can tolerate without rubbing of nose	1
Can tolerate after frequent rubbing of nose	2
Continuous rubbing of nose	2 3 4
Irresistible itching	4
• Excessive sneezing	
No sneezing	0
1-10 sneeze in each bout	1
11-20 sneeze in each bout	2
21-30 sneeze in each bout	3
>30 sneeze in each bout	4
• Thin & watery nasal discharge	
No discharge	0
1 hanky/day	1
2 hanky/day	2
3 hanky/day	3
>3 hanky/day	4
Nasal obstruction	
No obstruction	0
off/on obstruction	1
Obstruction at night	2
Obstruction in day & night	2 3
Forceful opening	4
• Watering from eyes	
No watering	0
Fills the fornix	1

diseases.

- 3. Pregnancy and lactation
- 4. Regular medications for AR or cold and other allergic disorder.
- 5. Vasomotor rhinitis and rhinitis medicamentosa.
- 6. Received allergen injections in previous 2 years.

#### Plan of work

The study was planned in different steps as mentioned below:

**1. Proforma**: A special proforma will be prepared for the evaluation of the etiopathogenesis and assessment if treatment efficacy. A detailed history will be taken and simultaneously general and systemic examination of the patient was done having signs and symptoms suggesting of Allergic rhinitis.

## 2. Investigations

Haematology- Hb%. TLC, DLC, ESR, TEC, LFT, RFT. Biochemistry- FBS

Radiology-X ray PNS Water's view.

## **Clinical Assessment**

Assessment of the effect of treatment has been done on the basis of relief of subjective signs and symptoms of Allergic rhinitis on the basis of grading and scoring system.

Fills the lower edge of cornea Fills the pupillary area Fills the whole eye/ water comes out	2 3 4
• Mucosal Oedema No oedema Oedema upto 2mm Oedema upto 3mm	0 1 2
Oedema upto 4mm Compete oedema	3 4
Congestion of nasal mucosa	0
No congestion Capillary engorgement Arterial engorgement Bluish pink Reddish	0 1 2 3 4
Discharge collection in middle ears	
No collection Fills the lower 1/4 <sup>th</sup> of T.M. Fills the lower 1/2th of T.M. Fills the lower 3/4 <sup>th</sup> of T.M. Fills the whole of T.M.	0 1 2 3 4
Post nasal drip	0
No drip Off/on drip	0 1
Dripping behind uvula	2
Dripping below the uvula	3
Dripping in oropharynx	4
Retracted tympanic membrane	0
No retraction Obliteration in cone of light	0 1
Dull T.M. with obliteration	2
Loss of cone of light	3
Atelactasis	4
Granulation on post. Pharyngeal wall	
No granulation	0
2-3 granulations	1
4-5 granulations	2
6-7 granulations complete granulations	3 4
Criteria For Overall Assessment	
The total effect of therapy was assessed considering the follow	
• Complete remission : 100% relief in the signs and sy	ymptoms

- Markedly improvement :>75% relief in sign and symptoms
- Moderately improved :>50% relief in sign and symptoms
- Mild improvement :>25% relief in sign and symptoms
- Unchanged : <25% relief in sign and symptoms.

Drug review	
Ingredients of <i>Sharisharishta</i> (B.R. 72/72-74) <sup>[10]</sup>	

Sr.No.	Name ofplant	Botanical Name	Family	Parts used
1.	Sharisha	Albizzia lebbeck	Leguminosae	Twaka,Beej,pattar
2.	Pippali	Piper longum	Piperaceae	Phal, Mool
3.	Priangu	Callicarpa macrophylla	Verbenacea	Pushapa
4.	Kushata	Saussurea lappa	Compositae	Mool
5.	Choti Ela	Elettaria cardamomum	Zingiberaceae	Seeds
6.	Neel	Indigofera tinctoria	Leguminosae	Panchang
7.	Nag keshar	Mesua ferra	Guttiferae	Punkeshar
8.	Haridra	Curcuma longa	Zingiberaceae	Kand
9.	Daru Haridra	Berberis aristata	Berberidaceae	Kand
10.	Sonth	Zingiber officinale	Zingiberaceae	Kand

# Rasa Panchaka of Sharisharishta

Sharisharishta have Tikata Katu Ras, Laghu Rukasha Guna, Ushana Virya, Katu Vipaka and Kapha Vata Shamak properties.

# Methods of Preparation of Sharisharishta

- Decoction of coarse powder of the *Sharisha* chalk was prepared and ultra filteredthree times.
- Mixed jaggery and other ingredients in the decoction.
- Kept in a pot lubricated with ghee and fumed for a month.
- Prepared *arishta* were filtered and preserved in sterile bottles.

## Drug Schedule: Sharisharishta as oral drug.

**Dosage**: 20ml twice a day with equal amount of water. **Duration**: 30 days

**Follow up**: After completion of trial every fortnightly for 2 months.

# **Statistical Analysis**

The information gathered regarding demographic data is shown in percentage. The scores of criteria of assessment were analysed statistically in form of mean score B.T.(Before treatment), A.T. (After treatment), (B.T.-A.T.) difference of mean, S.D. (Standard deviation), S.E. (Standarderror), Student paired 't' test was carried out at p>0.05, p<0.05 and p<0.001.

# **OBSERVATIONS**

In the present study of 56patients 32.5% belonged to age 31-40 years, 54% were females, 88% were married, 100% belonged to rural area, 97% patients were Hindus, 38% patients were housewives, 30% were graduates, 44% were of lower class, 75% patients were consuming vegetarian diet, 63% were having no addiction, 77% were having good appetite, 74% were having sound sleep, 50% patients were taking *Madhura rasa*, 55% were of *Vatakaphaja Prakriti*, 85% were of *Madhyama Sara*, 60% were of *Madhyama Samhanana*, 75% were of *Madhyama Pramana*, 90% were of *Madhyama Satva*, 70% were of *Madhyama Vyayama Shakti*, 60% were of *Mandagni*, 80% were of *Madhyama Koshtha*, Most of the

patients had chronicity upto 1 year. 80% of patients were having previous treatment history of the disease. As incidence of signs and symptoms were concerned almost all patients showed symptoms like Itching in nose, palate& pharynx, Sneezing, Thin & watery nasal discharge, Nasal obstruction, Watering from eyes, Mucosal oedema, Congestion of nasal mucosa i.e. 100% frequency followed by Post nasal drip 88.1%, Granulation on post. Pharyngeal wall 80%, Retracted tympanic membrane 55%. Discharge collection in middle ears 39.38%.

# Effect of therapy

- **1.** Itching in nose, palate & pharynx: The initial score of itching was 2.482 which was reduced to 0.553 after treatment. The percentage relief was 77.69% which is highly significant statistically at the level of p=0.0000 (t=8.614).
- 2. Sneezing: The initial score of sneezing was 2.517 which was reduced to 0.66 after treatment. The percentage relief was 73.75% which is highly significant statistically at the level of p=0.0000 (t=8.299).
- **3.** Nasal discharge: The initial score of nasal discharge was 2.464 which was reduced to 0.696 after treatment. The percentage relief was 71.74% which is highly significant statistically at the level of p<0.0001 (t=8.170).
- 4. Nasal obstruction: The initial score of nasal obstruction was 2.411 which was reduced to 0.679 after treatment. The percentage relief was 72.59% which is highly significant statistically at the level of p<0.0001 (t=8.004).
- 5. Watering eyes: The initial score of watering eyes was 2.536 which was reduced to 0.714 after treatment. The percentage relief was 71.83% which is highly significant statistically at the level of p<0.0001 (t=7.996).
- 6. Mucosal oedema: The initial score of mucosal oedema was 2.607 which was reduced to 0.768 after treatment. The percentage relief was 70.55% which is highly significant statistically at the level of p<0.0001 (t=7.837).
- **7.** Congestion of nasal mucosa: The initial score of congestion nose was 2.571 which was reduced to 0.821 after treatment. The percentage relief was

68.06% which is highly significant statistically at the level of p<0.0001 (t=7.866).

- 8. Discharge collection in middle ear: The initial score of discharge collection in middle ear was 1.8 which was reduced to 0.4 after treatment. The percentage relief was77.78% which is highly significant statistically at the level of p<0.0001 (t=3.855).
- **9.** Post nasal drip: The initial score of PND was 2.21 which was reduced to 0.539 after treatment. The percentage relief was 75.65% which is highly significant statistically at the level of p<0.0001 (t=8.065).
- 10. Retracted tympanic membrane: The initial score of RTM was 1 which was reduced to 0.125 after treatment. The percentage relief was 87.5% which is highly significant statistically at the level of p<0.0008 (t=3.354).
- 11. Granulation on post. Pharyngeal wall: The initial score of granulation on post. Pharyngeal wall was 2.389 which was reduced to 02.361 after treatment. The percentage relief was 1.63% which is not significant statistically at the level of p=0.864 (t=0.170).

# DISCUSSION

To treat the disease in a proper way, it is necessary to know the causative factor and the disease process. The study of literature shows that this clinical entity, Pratishyaya results from the vitiation of Vata and Kapha. The aetiopathogenesis also brings out the fact that its causative factors are Vata and Kapha. So any drug advocated for this particular disease should have properties to bring the affected Doshas to normal level. Hence, the drug selected mainly possesses Vata and Kaphahar properties. The trial drug Sharisharishta is having predominance Tikta (35%) Katu (25%) Rasa, Laghu (40%) Ruksha (40%) Guna, Ushna (80%) Virya, Katu (70%) Vipaka and Kapha (44.66%) Vata (33.33%) Shamak properties which are countering the Samprapti (pathogenesis) of Vataj Pratishyaya. The Rasa Tikta and Katu having properties like Kandu Prashaman, Kleda, Meda, Pitta, Kapha Upshoshno, Ghranam Asravayati, Shwayathu Anupahanti, Krimi Hinasti, Marga Vivrinoti as per Ch.Su.26,<sup>[11]</sup> helps a lot in reduction of signs and symptoms. The Guna Laghu relieves the oedema of nasal mucosa and clears the osteo-meatal complex. Ushana Virya helps to combat with precipitating factors, as Pratishyaya is aggravated by cold food habits and environment conditions. Also Ushana Virya helps in reducing Kapha and Vata, so act against Vata and Kapha predominance of Vataja Pratishyaya. Katu Vipaka have same functions as Katu Rasa.

In this formulation '**Sharisha**'<sup>[12]</sup> which is main ingredient is having *Shothahara*, *Kaphaghana* properties which help in reducing swelling due to inflammation and itching. '*Kushta*'<sup>[13]</sup> have *Vatahar*, *Kaphaghana* properties. '*Haridra*'<sup>[14]</sup> have *Shothahar*, *Kaphaghana* properties. '*Daru Haridra*'<sup>[15]</sup> have *Shothahar*, Kaphaghana, Lekhana, Kanduhara properties. 'Shunthi'<sup>[16]</sup> have Shothahara, Pratishyayahar properties. 'Neel'<sup>[17]</sup> and 'Nag Keshar'<sup>[18]</sup> have Kaphaghana property. 'Pippali'<sup>[19]</sup> have Vatahar property.

# CONCLUSION

Allergic rhinitis is one of the prime disease of respiratory system found in all age groups irrespective of sex. The symptomatology of *Vataja Pratishyaya* and Allergic rhinitis was found to be same. Hence there is correlation between *Vataj Pratishyaya* and Allergic rhinitis.

In the present study the treatment given is proved cheap and effective without any complication in this management of disease.

All the *Pratishyaya* patients who received proposed formulation tolerated very well and no untoward effect were reported by the patients registered for the current trial. Follow up study of two month duration have not shown any recurrence up to follow up time.

Therefore, it can be concluded that *Sharisharishta* is the good, safe, effective and dependable remedy for the management of *Pratishyaya* as it not only lowers down the symptoms but alsoimparts a feeling of well being and provide significant symptomatic relief.

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