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EFFECT OF VYAGHRI TAILA NASYA IN THE MANAGEMENT OF VATAJA PRATISHYAYA W.S.R. TO ALLERGIC RHINITIS

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ABSTRACT

Pratishyaya is A condition of continuous Nasal discharge, Vata Pradhana disease occur due to accumulation of Doshas in Uttamanga. Vataja Pratishyaya is explained in Ayurvedic system of medicine as Sneezing, Watery discharge from nose, Stuffy nose, Itching in nose etc. which have relevance with Allergic Rhinitis. Allergic rhinitis is an IgE mediated immunologic response of nasal mucosa to airborne allergen and is characterized by watery nasal discharge, nasal obstruction, sneezing and itching in the nose In the present study 10 patients were selected randomly and treated with Vyaghri Taila as Nasya which is mentioned as best treatment modality for uttmanga shudhi by Acharyas. The signs and symptoms were studied before and after treatment. Results of study showed moderate (50%) and marked (50%) improvement in patients.

KEYWORDS: Pratishyaya, Pradhana, Uttamanga, Allergic rhinitis, Vyaghri taila, Nasya, Shudhi.

INTRODUCTION

Pratishyaya by word itself indicates that it is a recurrent attack and can precipitate even due to minute etiological factors. Vata is the main Dosha and Kapha, Pitta and Rakta^[1] are associated to it. So it can be concluded that Pratishyaya is:

- A condition of continuous nasal discharge
- *Vatapradhan* disease
- Accumulation of *Doshas* in *Uttamang*

In *Uttartantra*, *Acharya Sushruta* has devoted one separate chapter to *Pratishyaya* after explaining *Nasagataroga*. Vataja Pratishyaya is explained in *Ayurvedic* system of medicine as Sneezing, Watery discharge from nose, Stuffy nose, Itching in nose etc. ^[3] which have relevance with Allergic Rhinitis.

Allergic rhinitis is an IgE mediated immunologic response of nasal mucosa to airborne allergen and is characterized by watery nasal discharge, nasal obstruction, sneezing and itching in the nose. [4]

Administration of medicine through Nasal route is known as *Nasya*. Due to nearest route, the diseases related to head are best treated by this procedure. In modern medicine system a wide range of medicines are available but these drugs have nothing to do with such a chronic condition.

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. In the present study "Effect of Vyaghri taila nasya in the management of Vataja Pratishyaya w.s.r. to Allergic rhinitis" is planned to evaluate the nature of disease, course of disease and management with the help of some herbal drug. Vyaghri Taila used as drug for Nasya mentioned by Achrya Shargdhara and Chakradatta.

AIMS AND OBJECTIVES

- To establish the prevalence of the disease according to age and seasonal variations.
- Try to find out correlation of *Vataja Pratishyaya* with Allergic Rhinitis.
- To know the efficacy of *Vyaghri Taila* as *Nasya*.

MATERIAL AND METHOD

Selection criteria

Uncomplicated patients with signs and symptoms of Allergic rhinitis, attending OPD and IPD of RGGPG Ayurvedic college and Hospital Paprola were selected above 12 years age, irrespective of sex, religion and occupation etc.

Inclusive criteria

- Patients presents with sign and symptoms of Allergic rhinitis.
- Age above 12 years.

Exclusive criteria

- Patient below 12 years of age.
- Rhinitis caused by virus, bacteria etc.
- Hypertrophic rhinitis
- Atrophic rhinitis
- Rhinitis sicca
- Patient suffering from systemic disease like HTN, T.B., D.M. etc.

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 patients was done having signs and symptoms suggesting of Allergic rhinitis.

Assessment Criteria

General evaluating scoring

• Kshavathu (Sneezing)

No sneezing	0
1-10 sneezing in each bout	1
10-15 sneezing in each bout	2
15-20 sneezing in each bout	3
>20 sneezing in each bout	4

• Nasavarodha (Nasal obstruction)

No obstruction	0
Feeling of obstruction in inhalation and exhalation	
with one nostril	1
Feeling of obstruction in inhalation and exhalation	
with both nostril	2
Inhalation and exhalation with both nostrils with effort	3
Complete blockage with total mouth breathing	4

• Nasa srava (Rhinorrhoea)

No discharge	0
Occasional Rhinorrhoea with a feeling of running nose	
without visible fluid	1
Rhinorrhoea with occasional running nose with	
visible fluid	2
Rhinorrhoea with running nose which needs mopping	3
Severe Rhinorrhoea with copious fluid needs	
continuous moping	4

• Kandu (Itching)

No itching	0
Can tolerate without rubbing of nose	1
Can tolerate after frequent rubbing of nose	2
Continuous rubbing of nose	3
Irresistible itching	4

Aruchi

• Aruchi	
No anorexia	0
Occasional loss of appetite	1
Moderate loss of appetite	2
Continuous loss of appetite	3
Loss of appetite associated with nausea and vomiting	4

2. Investigations

Haematology- Hb%, TLC, DLC, ESR, LFT, RFT.

Biochemistry-FBS

Radiology- X ray PNS Water's view.

These investigations are done to rule out any other pathology e.g. DNS, Sinusitis, Polyp etc.

Clinical Assessment

Assessment of the effect of treatment has been done on the basis of relief of signs and symptoms of Allergic rhinitis were graded in 4 gradations. Most of signs and symptoms of Allergic rhinitis described in texts are subjective in nature. Hence multidimensional scoring system was adapted for statistical analysis and to give results on subjective parameters. Scores were given according to the severity of symptoms as follows:

• Shirogaurava Nil/Absent Mild Moderate Severe Very severe (forced to take medicine)	0 1 2 3 4
• Gandhahani No loss of smell Partial and unilateral Partial and bilateral Complete unilaterally Total loss of smell	0 1 2 3 4
• Swarbhanga No change of voice Occasional hoarseness of voice Frequent hoarseness of voice more in morning hours Frequent hoarseness of voice throughout the day Cannot speak due to hoarseness of voice	0 1 2 3 4
• Shirah shoola (Headache) No headache Headache occur sometimes Headache occurs frequently but is able to carry routine work Without difficulty Severe headache, patient restless and able to carry routine work With great difficulty Severe crippling headache that renders patient bed ridden	0 1 2 3 4
• Shwasa Kashtata No dyspnoea Dyspnoea after heavy work and walking Dyspnoea after moderate work and walking Dyspnoea after mild work Dyspnoea even at resting condition	0 1 2 3 4
• Kasa (cough) No cough Occasional cough Moderate cough Continuous cough with throat and chest pain Severe continuous cough with throat and chest pain	0 1 2 3 4
• Bhutwa Bhutwa (Recurrent attacks) No attacks Period between attacks more than two days Period between attacks 1-2 days Period between attacks 12-24 hrs Attack within 12 hrs	0 1 2 3 4
• Jwara No fever Intermittent fever Continuous fever Double rise with morning and evening peaks With high peaks and relative bradycardia	0 1 2 3 4

Criteria For Over All Assessment

The total effect of therapy was assessed considering the following criteria-

• Complete remission : 100% relief in the signs and symptoms

• Markedly improvement : >75% relief in signs and symptoms

Moderately improvement : > 50% relief in the signs and symptoms
 Mild improvement : >25% relief in signs and symptoms

• Unchanged : <25% relief in the signs and symptoms.

Drug review

Ingredients of vyaghri taila (Sha. Sm., C.D.)

- O;kÄzhnUrhopkf"kxzqrrqylh«;ks'klSU/koS%A
- dYdÜp ikpua rSya iwfruklkxnkige~~AA $^{1}\!\!/_{\!\!4}$ "kkee- $9@182^{1}\!\!/_{\!\!2}^{[5]}$
- O;kÄzhnUrhopkf"kxqzlqjlO;ks'klSU/koS%
- \bullet Ikfpra ukoua rSya iwfrukekxna t;sr~AA $^{1}\!/_{2}$ $^{-1}\!/_{2}^{[6]}$

Rasa Panchaka of Vyaghri Taila.

Rasa	Katu
Guna	Laghu
Virya	Ushna
Vipaka	Katu
Dosha karma	Kaphavatshamak

Method of Preparation of Vyaghari Taila

- Murchna of Til Taila is done as per Bhaisjya Ratnawali. [7]
- *Paka* of *Til Taila* done with drugs sr. No. 1-10 in table no. 3 in this section.
- Equal part of *Kantakari*, *Danti*, *Sodhit Vacha*, *Sahijan*, *Tulsi*, *Shunthi*, *Pippali*, *Marich* were coarsely powdered in Pulverizer.
- All these were dipped in water whole night and after that *Kalka* form prepared. *Saindhava Lavana* get mixed with it.
- This Kalka along with 4 parts til tail and 16 parts of Shuddhajala were added into it and took in a steel vessel and heated over Madhyama Agni till complete evaporation of moisture content. Heat was applied with intermediate stirring. Heating duration was adjusted until the appearance or Lakshana of Samyaka Sneha Siddhi. When Taila Paka completed with all its examination, allowed to cool and packing done. Then Vyaghri Taila was used as medicine for Nasya purpose.

Group, Dose & Duration Study design

Open uncontrolled study. Number of patients – 10

Drug Schedule

• Vyaghri Taila as Nasya drug.

Dose

• *Vyaghri Taila*- 6 drops in each nostril.

Duration

Vyaghri Taila Nasya - 7 days.
 Duration of treatment - 7 days
 Follow up - After 7 days

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. (Standard error). Student paired 't' test was carried out at p>0.05, p<0.05 and p<0.001.

The results were considered significant or insignificant depending upon value of 'p'.

➢ Highly significant - p < 0.001
 ➢ Significant - 0.05 0.001
 ➢ Insignificant - p > 0.05

Consent of patient

All the patients selected for trial were explained the nature of the study and their written consent was obtained on the proforma before including them in the clinical study.

OBSERVATIONS

In the present study maximum i.e. 40% of the patients were of age group 31-40 years, 80% were females, 80% were unmarried, 90% belonged to rural area, 90% were Hindus, 80% were graduates, 90% belonged to lower middle class, 80% patients were vegetarian, 60% of patients were addicted to tea/coffee, All 100% of patients were students, 30% of patients were having previous family history and no family history was recorded in 70% patients, Most of patients have chronicity of >4<5 years, almost all patients respond to aggravating factors like smoke, pollution, dust etc. and some to exposure to pollens, animal changes and climatic changes. Most of patients i.e. 60% belonged to Vatakaphaja Prakriti, 80% were having madhyama Satva, 70% were having madhyama Satmaya and Samhanana, 60% of patients were having madhyama Vyayama shakti. As incidence of signs and symptoms were concerned almost all patients showed symptoms like Kshavathu, Nasanaha, Nasasrava, 90% patients were having kandu, Bhutwa bhutwa and approx. 30-70% of patients showed symptoms like Gandhahani, Shorahshoola, Swarbhanga.

Effect of Therapy

- 1. *Kshavathu* (Sneezing): The initial score of sneezing was 2.3 which was reduced to 0.6 after treatment. The percentage relief was 73.91% which is highly significant statistically at the level of p<0.001 (t=11.129).
- 2. *Nasavarodha* (Nasal obstruction): The initial score of nasal obstruction was 1.9 which was reduced to 0.4 after treatment. The percentage relief was 78.94% which is highly significant statistically at the level of p<0.001 (t=8.573).
- 3. *Nasasrava* (Nasal discharge): The initial score of nasal discharge was 2.2 which was reduced to 0.6 after treatment. The percentage relief was 72.72% which is highly significant statistically at the level of p<0.001 (t=9.798).
- 4. *Kandu* (Itching): The initial score of itching was 2.3 which was reduced to 0.77 after treatment. The percentage relief was 66% which is highly significant statistically at the level of p<0.001 (t=6.424).
- 5. *Gandhahani* (Anosmia): The initial score of anosmia was 1.85 which was reduced to 0.42 after treatment. The percentage relief was 77.29% which is highly significant statistically at the level of p<0.001 (t=7.071).
- 6. **Swarbhanga** (Hoarseness of voice): The initial score of change in voice was 2 which was reduced to 0.33 after treatment. The percentage relief was 83.5% which is significant statistically at the level of p<0.050 (t=5.000).
- 7. *Shirah shoola* (Headache): The initial score of headache was 1.83 which was reduced to 0.5 after treatment. The percentage relief was 72.67% which is significant statistically at the level of p<0.050 (t=4.000).

8. **Bhutwa Bhutwa** (Recurrent attacks): The initial score of recurrent attacks was 2.22 which was reduced to 0.55 after treatment. The percentage relief was 75.22% which is significant statistically at the level of p<0.050 (t=5.000).

Among 10 patients, 5 patients were moderately improved and 5 patients were markedly improved. There was no patient who was cured, mildly improved or unimproved.

DISCUSSION

VatajaPratishyaya (Allergic rhinitis) is one of the most common ENT ailment affecting people in entire society and it is one of the challenging problem of all ENT surgeons. Repeated attacks and improper management of the disease leads to many complications like recurrent sinusitis, Nasal polyps, Serous otitis media, orthodontic problems etc. Keeping all this in mind an attempt had been made to evaluate the treatment protocol for patients suffering from VatajaPratishyaya (Allergic rhinitis).

Though *Pratishyaya* is said to occur due to vitiation of *Vata* and *Kapha* mainly. So any drug used for this disease should have *Vata* and *Kaphahara*properties but should also not aggravate *Pitta* and *Rakta*.

VatajaPratishyaya VIS-A-VIS Allergic rhinitis

The resemblance of *VatajaPratishyaya* with Allergic rhinitis in terms of aetiology, clinical features and complications is evident from following discussion:

Aetiology of *VatajaPratishyaya* grouped into various categories can be compared with etiological factors of Allergic rhinitis which include food and drug ingestion (*AharajaNidana*), Occupational (*ViharajaNidana*), allergy and infection (*Rogajanidana*) and iatrogenic causes.

Table 1: Symptoms of VatajaPratishyaya which ressemble those of Allergic rhinitis are as follow

Sr. No.	Samanya&VisheshLakshanas of Pratishyaya	Chief & associated clinical features of Allergic rhinitis
1.	Kshavathu	Sneezing
2.	AanadhaPihita Nasa (Nasavrodha)	Nasal obstruction
3.	TanusravaPravaritini	Watery nasal discharge
4.	Gal TaluOasthShosh	Dryness in throat, palate, lips
5.	Swaropghata	Hoarseness
6.	GranaatiToda	Painful sensation in nose
7.	NistodaSankhyostatha	Headache
8.	Kandu	Itching in nose
9.	Shirogaurava	Heaviness in head
10.	Kasa	Cough
11.	BhutwaBhutwa	Recurrent attacks

Allergic rhinitis is recurring frequently and attending the *JeeranaAwastha*, so *Shodhan* therapy is the line of treatment. *Nasya* is the Chief *Shodhan* procedure for *Uttamangashuddhi*. *Acharyas* has remarked *Nasa* as a door of entrance to the cranium. Therefore *VyaghriTailaNasya* therapy has been selected which is mentioned by Acharya Sharangdhara in Peenasa (Sh.

Md. Khn. 9/182)^[8] and in Nasarogadhikara in Bhaishjyaratnavali.^[9] The drug given in Nasya reaches to ShringatakaMarma and from there through different Siras spread to other parts like eyes, ears throat etc. and take out the morbid doshas. Thus in this way it causes Srotoshudhi and makes the AnulomanaGati of Vayu which is vitiated in VatajaPratishyaya.

In this formulation 'Kantkari' [10] which is main ingredient is having Katu Rasa and KatuVipaka mainly which help in opening of channels, Tikshnaguna which help in Bhedana and Rechana of KaphaDosha, UshnaVirya due to which KaphaVataShamaka. Due to these properties it help in Bhedhana and Rechana of Kapha, open channels and with the help of normal gati of Vata, Doshas are expelled out. It also showShothahar and Kandughan properties due to which help in reducing swelling due to inflammation and itching.

'Shunthi' ^[11] and 'Pippali' ^[12] used has Bhedhan action on KaphaDosha to expel it out after opening channel due to their Srotovibandhhar property. These also help in improving Vyadhikshamatva of the individual.

Shodhit Vacha, ^[13] is kaphavatashamaka, Shothhar, Deepana And Krimighana.

Sahijjan,^[14] is Shirovirechanopaga help in *Dusta KapahaDosha* elimination from *Shira*.

Til Taila, [15] used is *UshnaVirya* due to which *KpahavataShamaka*.

As this formulation is given through *Nasa Marga* as *Nasya* which is best for *UttmangaShuddhi* by *Acharyas* hence here mode of action changes as:

In Vyaghri Taila ingredients also have same predominant properties as Katu Rasa (61.53%), LghuGuna (30%), UshnaVirya (88.88%), KatuVipaka (66.66%) and KapkaVataShamaka properties. The dominant Rasa Katu properties having like GhranamAsravayati, ShwayathuAnupahanti, KrimiHinasti, MargaVivrinoti as per Ch. Su. 26, [16] helps a lot in reduction of signs and symptoms. The dominant Guna of drug is Laghu, that helps in relieving symptoms like heaviness. LaghuGuna relieves the oedema of nasal mucosa and clear the osteomeatal complex. As the Pratishyaya is aggravated by cold food habits and environment conditions UshnaVirya help to combat with this precipitating factor. Also UshnaVirya help in reducing Kapha i.e. discharge or over secretions & help to reduce Kapha and Vata, so act Vata and Kapha predominance VatajaPratishyaya. KatuVipakahave same function as Katu Rasa.

Because of *Tikshana* and *SukhshmaGuna*the medicine will penetrate into minute channels does *Srotoshodhana*. Most of ingredients possess anti-inflammatory activities which also prevent inflammatory process. Tail is best for *VataDosha*, so oil preparation may be best form for conditions like *VatajaPratishyaya* (Allergic Rhinitis).

The role of *ShringatakaMarma* in *Nasya Karma* can be interpreted in the following ways:

Table 2: Facts About Shringataka Marma.

Facts	Interpretation
Shringataka is the union point of Shrotas of Jihwa, Ghrana, Netra and Shrotra. (Su. Sha.6/27)	Confirms the influence of <i>Nasya karma</i> on senses.
Shringataka is a SadyaPranaharaMarma	Proper stimulus can cause desired effect suddenly.
Shringataka is a Siramarma	Through these <i>Nasya</i> , <i>Dravya</i> is absorbed in vascular circulation.

So in Ayurvedic point of view assimilation and transportation of *Nasya* drug take place through *ShringatakaMarma* and reaches to local as well as general circulation.

CONCLUSION

If we see the symptomatology of *VatajaPratishyaya* in *Ayurveda* we find the same symptomatology in Allergic rhinitis. Hence there is correlation between *Vataja Pratishyaya* and Allergic rhinitis.

In the present study the treatment given is proved cheap and effective without any complication in the management of this disease. In modern medical system a wide range of medicines are given but these are not so much effective in such chronic conditions. *Vyaghri Taila Nasya* should be given in routine OPD patients as these show good symptomatic relief to patients without any side effects.

Overall result of therapy in present study is

Among 10 patients, 5 patients were moderately improved and 5 patients had marked improvement. There was no patient who was cured, mild improved or unimproved.

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