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CASE REPORT

Patient Information

A 74-year-old, non-hypertensive, non-diabetic female patient reported to *Shalakya Tantra* OPD, with chief complaints of nasal blockage and difficulty in breathing, associated with sneezing, watery nasal discharge and loss of perception of smell for 4-5 years. The symptoms had aggravated since the past 6 months. No previous surgical or family history regarding the same was reported. (Table 1: Historical and current information of the case)

Clinical Findings

Anterior Rhinoscopy findings revealed the presence of glistening, smooth, pale mass in bilateral nasal cavities. The left and the right nostrils presented with a stage – III and stage – IV Ethmoidal Nasal Polyp, respectively.

Diagnostic Assessment

Nasal examination revealed findings like, presence of smooth pale nasal mass and pale nasal mucosa, indicating the presence of a Nasal Polyp.
(Table 2: National Polyp Grading System)

Diagnosis

Based on the clinical presentation and examination findings, the case was diagnosed as *Nasa Arshas* (Nasal Polyp).

Therapeutic Intervention

Application of *Shodhita Shweta Gunja lepa* over the *Nasa Arshas.*
(Table 03: Therapeutic Intervention)
Purva Karma – *Gunja* (*Abrus precatorius Linn*.), comes under the *Upavisha Varga* in which *Shweta* variety was chosen for this procedure and purification was done by soaking it in *Go Dugdha* for 24 hours. Written consent was obtained from the patient and the attenders prior to the procedure. Patient was advised to be nil per oral 2 hours prior to procedure.

Pradhana Karma – Patient was positioned in a sitting posture with the head tilted to expose the nasal cavity properly. Under all aseptic precautions the nasal cavity was exposed using Thudicum's nasal speculum and the secretion over the polyp was wiped out. *Gunja lepa* was applied over the nasal polyp by using the cotton rolled over the serrated end of Jobsons Probe and retained for 30 minutes. Then it was removed with a fresh piece of cotton rolled over Jobson's probe

Pashchat Karma -The patient was observed for bleeding, pain and burning sensation for a period of 2 hours and advised not to get exposed to dust, smoke, air or breeze.
(Image 01: *Gunja beeja* and *Gunja lepa* preparation)

Time of Procedure – Morning

NUMBER OF APPLICATIONS – 4 applications in both the nostrils on alternative days

Follow- up and Outcomes

Patient's complaints and anterior rhinoscopic findings were assessed before and after using suitable scales. National Polyp Grading System of 4 grades was used for assessing the patient's complaints. A significant reduction in the symptoms were observed after the treatment, which was evident through clinical examination.
(Table 04: Patient assessment outcome according to Grading system)

DISCUSSION

In the present case report, after 4 sittings of *gunja lepa* application, there was a marked reduction in the size of the polyp, thereby reducing the anatomical obstruction and the patient experienced relief from the symptoms like nasal obstruction and difficulty in breathing which was the patients main concern at the time of admission. Subsequent follow ups on 15^{th} day and 30^{th} day showed a significant relief in the complaints such as nasal obstruction along with the sneezing, mouth breathing along with restoration of smell perception.

Application of *Gunja Lepa* to nasal polyp may have a *Shothahara* action. Abrin is one of the active principles of *Gunja* which inhibits protein synthesis and causes cell destruction. The subunit A of abrin has got N-glycosidase & depurination action of 28-S RNA of ribosome, thereby arresting protein synthesis. So, in turn enhances cell destruction thereby helping in the reduction of the size of nasal polyp. From an Ayurvedic point of view, *Nasarshas* is caused by *Kapha Vata Doshas*. *Gunja* has *Kapha vatahara* and *Shothahara* properties which help in reduction of size of the polyp and inflammation of nasal mucosa.

CONCLUSION

In the present case it was found that application of *Gunja Lepa* over the *Nasa Arshas* showed marked decrease in its size and significant relief from the presenting complaints within a follow up period of 30 days. Further clinical trials on large sample size may be conducted to ascertain findings of these observations. Rather than statistically significant, subjective relief of the patient was more significant. This may be a new hope in the management of nasal polyp where surgical intervention can be avoided.

Patient's Perspective

The patient's response to the treatments was highly positive. Following the treatments, the patient reported significant improvement in his symptoms, experiencing substantial relief from breathing difficulties and notable alleviation of his other complaints.

Declaration of Patient Consent

The authors have secured consent from the patient for publication, with assurances of confidentiality and protection of identity.

Financial Support and Sponsorship

Nil

Conflicts of interest

There are no conflicts of interest.

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Table 1: Timeline

Historical and current information of the case

DATE	RELEVENT INFORMATION
12/08/2023	Nasal blockage and difficulty in breathing along with sneezing, watery nasal discharge and loss of perception of smell.
15/10/2023	Underwent home remedies and did not find any relief
2/02/2024	Patient was advised to use nasal sprays and advised to undergo surgery
24/04/2024	Admitted to the In-Patient department *Ayurvedic* treatments were started.

Table 2: National Polyp Grading System

STAGING ACCORDING TO THE SIZE[1]

Stage I: Limited to the extent of middle turbinate.
Stage II: Extending beyond the limit of middle turbinate.
Stage III: Approaching to inferior turbinate
Stage IV: Going up to the floor of nose

Table 3: Therapeutic intervention

Date	Treatment
24/04/2024	*Gunja lepa* application – Day - 1
26/04/2024	*Gunja lepa* application – Day -2
28/04/2024	*Gunja lepa* – Day -3
30/04/2024	*Gunja lepa* – Day -4

Image 01: *Gunja Lepa Preparation*



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Table 04: Patient assessment outcome according to grading system

	RIGHT NOSTRIL	LEFT NOSTRIL
BEFORE TREATMENT	 GRADE III- NASAL POLYP	GRADE III- NASAL POLYP 
AFTER TREATMENT AFTER – 4 SITTINGS OF GUNJA LEPA	 GRADE II -NASAL POLYP	 GRADE I -NASAL POLYP