

**Case Study** 

# Ayurvedic Management of Traumatic Anosmia-A Case Study

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#### ABSTRACT

Anosmia is the inability to perceive smell. Anosmia can be temporary or permanent, acquired or congenital. Any disturbances in the pathway of perception of smell, whether mechanical or along the olfactory neural pathway, can lead to anosmia. Usually, it is seen in obstructive and inflammatory conditions of the nose, head trauma, aging, and neurodegenerative diseases. The management of anosmia depends on the underlying pathology.

Based on signs and symptoms Anosmia in Ayurveda can be correlated to *Gandhanasha*.

A male patient with an inability to perceive smell after a road traffic accident came to the OPD and was treated with Ayurveda therapeutics like *Pradhamana Nasya* and *Viddha Karma*. The patient observed considerable relief of the symptoms after the course of treatment.

This case report illustrates the significance of Ayurveda in the management of anosmia.

**Keywords:** Anosmia, Gandhanasha, Nasya, Pradhamana, Viddha Karma

#### Introduction

Anosmia is the inability to perceive smell. It can be temporary or permanent and acquired or congenital. Any, disturbances in the nasal pathway that leads to the perception of smell, whether mechanical or along the olfactory neural pathway, can lead to anosmia.<sup>1</sup>

Various causes for anosmia are mentioned in Table No. 1

#### **Materials and Methods**

#### **Case Study**

- Presenting Complaints: The Patient came to OPD with a complaint of inability to perceive smell for past 3 months after a road traffic accident (RTA).
- History: A 31-year -old male patient came to OPD on 10<sup>th</sup> June 2022 the complaint of inability to perceive

smell after RTA on 18th March 2022 with no loss of consciousness or orientation. A CT Brain was done on 18th March 2022(Fig. no 4-5) which was suggestive of subdural hematoma. The second CT scan, which was done on 23rd March 2022(Fig. no. 6) had an absence of Subdural hematoma. Later, he observed an inability to smell food, strong perfumes, or any other odors. So, he came to our hospital for management.

#### **Examinations**

- External and internal nose showed no significant changes.
- Cold spatula test showed equal fogging.
- Odor Identification Test<sup>2</sup>- illustrated in Table no. 2.

Treatments: Single sitting of all Treatments were done on OPD Basis.

Table I. Causes of Anosmia

Infective Conditions	Obstructions of nasal passage	Damage to brain or nerves:
Acute sinusitis (nasal and sinus infection)	Deviated septum	Aging
Chronic sinusitis	Nasal polyps	Alzheimer's disease, Paget's disease of bone, Parkinson's disease, Schizophrenia,
Common cold	Tumors	Brain aneurysm, Brain surgery, Brain tumor
Coronavirus disease 2019 (COVID -19)	-	Kallmann's syndrome, Klinefelter syndrome, Sjogren's syndrome.
Hay fever (allergic rhinitis)	-	Multiple sclerosis,
Influenza (flu)	-	Radiation therapy, Rhinoplasty
Nonallergic rhinitis (chronic congestion or sneezing not related to allergies)	-	Diabetes
Smoking	-	Zinc-containing nasal sprays (taken off the market in 2009), Zinc deficiency

**Table 2.Result of Smell Recognition Test** 

<u> </u>		
Common Smell	Before Treatment	After Treatment
Soap (Green Apple)	No sensation	Fruity smell perceived
Sanitizer	No sensation	Perceived and differentiation can be made. Fruity smell perceived
Savlon	No sensation	Perceived and differentiation can be made
Spirit	Mild Perception.	Perceived and differentiation can be made.
Pepper	No sensation	Smell perceived but no differentiation
Coffee	No sensation	Smell perceived but no differentiation
Vicks	No sensation	Smell perceived but no differentiation

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**Treatment Dosage** Duration 8-8 drops Once/day 4 days (11<sup>th</sup> June- 14<sup>th</sup> June 2022) Nasya with Pippali Ksheerapaka (empty stomach) Viddhakarma<sup>3</sup> over tip of nose and 5 days (15<sup>th</sup> June- 19<sup>th</sup> June 2022) lateral sides of Nose Viddhakarma + Pradhamana Nasya 3 muchyuti Once/day 6 days (20<sup>th</sup> June- 25<sup>th</sup> June 2022) with Chhinknichurna (empty stomach) 2-2 dropsOnce/day Pratimarsha Nasya with Ghrita 3 days (26<sup>th</sup> June- 28<sup>th</sup> June 2022) (early morning, empty stomach) Viddhakarma + Pradhamana Nasya 3 muchyuti 6 days (29<sup>th</sup> June- 4<sup>th</sup> July 2022) with Chhinkni churna

**Table 3. Treatments Given** 

#### **Procedure**

- Viddha Karma<sup>3</sup>: Viddha Karma is the procedure for removal of Vata Dosha in Sira's, which is done by puncturing the Sira with a hollow needle and allowing the removal of Vayu. Sites selected for Viddha Karma were Nasaagre (tip of nose) and Nasa Sameepe (sides of nose), as illustrated in Fig. no. 3.
- **1. Purva Karma:** 26 and ½ gauge sterile needle was taken. The site of *Viddha Karma* was cleaned with spirit and cotton.
- **2. Pradhana Karma:** Once the spirit dried, with the help of a sterile needle, a puncture was done over selected site.
- **3.** Paschat Karma: Site of Viddhawas cleaned with the help of sterile cotton.
- Pradhamana Nasya: Pradhamana is a type of Nasya where Sushma churna of dravyas is used for nasal inhalation.
- **1.** Purva Karma: Sukshma Churna for Pradhamana was kept ready. A small cylindrical pipe with open ends was made out of paper.
- 2. **Pradhana Karma:** Early morning around 8 AM, Patient with empty stomach was asked to sit comfortably. The required amount of *Chhinkni Churna* was blown into both nostrils with the help of rolled paper.
- **3.** Paschat Karma: Patient was instructed to avoid cold, wind, exposure to sun, and dust.
- Route of administration: Nasal administration.

#### Result

The result was compared using the Smell Recognition Test, where different, easily recognizable substances with strong volatility were used.

As observed, the patient was unable to smell any substance before treatment except for spirit, which was perceived as something irritating in front of the nose. After the treatment patient was able to perceive smell and differentiate strong odor substances.

He was able to perceive smell but not differentiate between substances with mild odor.

As per the patient same progress of perceiving and differentiating strong odor's is maintained till now without further intervention. (Last update- 13/1/2025)

#### **Discussion on Disease**

- 1. The acquired anosmia develops later in life due to various causes, such as upper respiratory infections, neurodegenerative diseases, or head trauma as seen in this specific case.
- 2. Gandhanasha is not mentioned as a separate disease, it is mentioned as a symptom of Marmaghata of Phana Marma.
- 3. Samprapti of disorder can be understood as:

#### **Discussion on Treatments**

Anosmia is not only a disease of *Nasa* but also affects *Indriyas* and *Shiras*. Thus, in this case, *Nasya* which is considered as the prime treatment modality in *Urdwajatru Rogas* (*Nasa Hi Shiraso Dwaram*) was chosen.

Further, as there is involvement of *Vata Dosha*, *Viddha Karma* was done to remove Vata Avarana to facilitate the effects of Nasya.

- Nasya with Pippali KsheeraPaka was done for 4 days as a part of Shodhana. Pippali Ksheerapaka which possesses Ushna and Teekshna Gunas, removes the Kapha Avarodha in Indriyas and Srotas.
- Viddha Karma-It was done alone for 5 days, which might help in the removal of Vata Avarna which further helps in the removal of obstruction in blood vessels and the establishment of circulation, which might be hampered due to Trauma.<sup>5</sup> Later Viddha karma, along with Nasya helps in removal of excess Vata thus, facilitating its effects.

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- ents of *Chhinkni Churna* consists of menthol, camphor, cardamom, sandalwood and eucalyptus which are indicated in nasal congestion and are of a strong odorin nature. Thus, this combination was used for *Churna Nasya*, which could have helped in triggering the olfactory sensation. Due to continuous use and *Tikshna*, *Ruksha Guna* of *Pradhamana Nasya*, *Vata vrudhi* could have happened that led to reddish discoloration, congestion, and dryness of nasal mucosa. Thus, *Pradhamana Nasya* and *Viddha Karma* were stopped for 3 days.
- Pratimarsha Nasya with Ghrita- Pratimarsha Nasya was done with Ghrita, which has Vatahara and Soumya Guna, which helped in the control of vitiated Vata and after the Vata Vriddhi Lakshanas subsided Pradhamana Nasya and Viddha Karma were continued for the next 6 days.



Figure I.Viddha Karma



Figure 2.Pradhamana Nasya

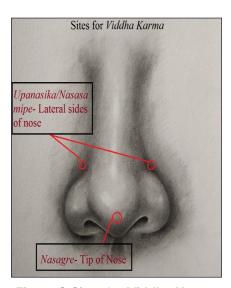
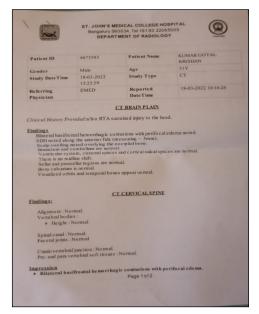


Figure 3.Sites for Viddha Karma



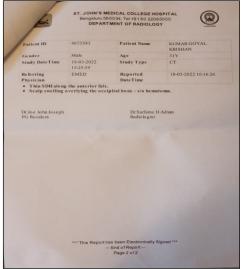


Figure 4-5.(CT Scan 18/03/2022)

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Figure 6.CT Scan 23/03/2022

#### **Conclusion**

- In this case study, the sense of olfaction was lost due to head trauma, which is one of the major causes of Anosmia.
- Here, Teekshana Pradhamana Nasya and Viddha Karma were used, which can both be easily administered on an OPD basis.
- As this case was of recent traumatic origin, treatments for Samprapti Vighatana gave better results with no relapse of symptoms.
- For anosmia of other origins that have a tendency to reoccur, Rasayana Chikitsa after Samprapti Vighatana can be used for long lasting results.
- Further, as there is no established treatment protocol for management of anosmia, this study provides a scope for further research of ayurvedic treatments in anosmia.

## Conflict of Interest: None Source of Funding: None

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