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A review of mode of action of Nasya Karma

Kshama R. Kawle*¹, Brijesh Mishra², Harish J. Purohit³

- 1. PG Scholar
- 2. Professor and HOD
- 3. Associate Professor and Guide

Post Graduate Department of Basic principle of Ayurveda and Samhita,

Shri Ayurved Mahavidyalaya, Nagpur, Maharashtra, INDIA

*Corresponding author: <u>kshamakk9.kk@gmail.com</u>

ABSTRACT

Nose is one among Panchadnaanendriya, whose functions are not only limited to olfaction and respiration but also considered as a pathway for drug administration. So the drug administered through nose as Nasya reaches to the brain and eliminates the morbid Doshas responsible for producing the disease. Present article shows, actual drug administered in nose how it will probably act on vital points located in brain and also how it will act on organs related to these points.e.g.in AshtangaSamgraha it is explained that Nasa being the entry to Shira, the drug administrated through nostril reaches Shringataka SiraMarma by Nasastrotas and spreads in the Brain reaches at a junction place of Netra, Shrotra, Kantha, Siramukhas (opening of the vessels) etc. and remove or detach the morbid Doshas present supraclavicular region and expel them from The *Uttamanga*.

Keywords: Nasya, Dnanendriya, Shringatakamaram, Doshas

INTRODUCTION

Nasya is one of the Panchakarma mentioned in Ayurveda. It is a process wherein the drug herbalized oil or liquid medicine is administered through the nostrils. Since nose is the gateway of the head¹, the therapy is highly effective in curing a number of diseases pertaining to the head, ifit is performed systematically. The therapy cleanses and opens the channels of the head, thereby improving the process of oxygenation (Prana), which has a direct influence on the functioning of brain². Drug administered through nose mainly acts on olfactory receptors present in superior concha. This therapy is beneficial if done on a regular basis. It keeps the eyes, nose and ear healthy & it also prevents the early graying of hair and bear. Our classical texts have been mentioned various types of Nasya according to different aspects

like depending upon drug used, functions, dose etc. Time and dose of drug for administration are important things.

Types of Nasya: A} ACCORDING TO FUNCTIONS

1. VirechanNasya (Cleansing nasya):Usually strong drugs are used in the Virechananasya karma. It is also Shirovirechananasva. called as Virechan Nasya ,forms of drug used are near the nostril. VirechanaNasya is mainly used to treat Kapha type of diseases such as headaches, heaviness in head. cold. nasal congestion, inflammation of the nasal mucosa, sinusitis, loss of smell, sticky eyes and hoarseness of voice due to sticky Kapha, . Chronic diseases such as cervical lymph adenitis and tumors can also be treated by Pradhaman Nasya4. Some diseases like warm ring easily blebs infestation, itching, are treated by this type of Nasya karmawan drowsiness, Parkinsonism, Epilepsy, greed and lust can be effectively treated by the therapy. Powders such as Brahmi therapy are used in this Kwatha, Sneha, Choorna, Swarasa, Madhu, Saindhva, Aasava, Pitta, Mootra³ etc. These are mixed with the Shirovirechana drugs. Choorna create Vegas simply by keeping it.

2]SnehanaNasya / BrihmanaNasya/(Nutrition Nasya): In this type form of Nasya drug used is Sneha i.e. Shatavari ghee, medicated milk ,niryas , mamsa rasa etc.This treatment is mainly given in Vata type of disorders. It is beneficial to cure migraine headache,hemicranias, and dryness of voice, constriction of the eyes, defects of the vision, toothache, earache, tinnitus, and difficulty in

speech, nervousness, anxiety, fear, dizziness and emptiness⁵. Negative thoughts can be banished by undergoing this treatment. In case of the person is suffering from bursitis, stiffness in the neck, frozen shoulders, dry sinuses and loss of sense of smell, dry nose, *BruhanaNasya* would be the best bet. It imparts strength to Neck, Shoulder, and Chest⁶

3} Shaman Nasya (Sedative Nasya):In this type of Nasya, form of the drugs used are Sneha, Swarasa ,Ksheera, Udaka, Kwath, tail etc. Shaman Nasya is used according to Dosha which is aggravated in the human body. It is mainly administered to treat Pittaj &Raktaj-type disorders such as thinning of hair, conjunctivitis, ,ringing in the ears, premature wrinkles, premature graying of hairs ,hair fall, blackish discoloration of face ,psoriasis of scalp ,bleeding from nose etc⁷.

B) ACCORDING TO QUANTITY OF

1} Marshya Nasya (Ghee or Oil Nasya)

8: This type of Marshya Nasya karma
makes use of ghee/oil. The therapy is
administered for a particular reason,
which may not be disease, but a
condition of uneasiness arising from
particular diseases.

Contraindications: *Marsha nasya* is contraindicated before the ageof 7 years & after age of 80 yrs.

Quantity of the unctuous medicine in *Marsha Nasya*⁹:

- *Uttamamaatra* -----10 *bindu*,
- Madhyamamaatra ----- 8 bindu,
- Hrswamaatra ----- 6 bindu

2} Pratimarshya (Daily Oil Nasya)¹⁰:- This type of therapy is administered by dipping the clean little finger in ghee or oil and inserting into each nostril. After inserting the clean finger (dipped in ghee or oil) into the nostril, the nasal passage is lubricated and given a gentle massage. By doing this, the deep nasal tissues are opened up. By doing Pratimarshya on a regular basis, stress can be released to a great extent. Generally it can be given in weak persons, in old age, child, in delicate persons, timid persons etc. It can be administered in unseasonable time. It is also given in persons who had injury to chest, dryness of oral cavity. Pratimarsha can administered in unseasonable time, inauspiciousday and rainy season and also from birth to death.

CONTRAINDICATIONS¹¹:

PratimarshaNasya cannot be given in chronic catarrha, Worm infestation and diseases of head involving multiple doshas,One who drank alcohol (madyapeeta), Weakness of the hearing organ and when Doshas are in highly aggravated state.

Dose of *Pratimarshanasya* medicine: *Taila* is the best *Sneha* (unctuous substance) for the daily use as head is the main seat of *Kapha Dosha*. Administering the *Pratimarsha nasya* daily gives us the effect same as that of *Marsha nasya*, but they are not the same.

Dose¹²: 1 - 2 bindu.

C) Different types of the Nasya karma depending on the preparation of the drug:

- 1} Avapeeda nasya ¹³: -Virechana or Shamana nasya: Where the paste of the drug is squeezed into the nostril is called Avapeeda nasya. It is indicated in Vitiation of Kapha and Meda, A person who is unconscious due to snake bite.If person is weak i. e. Ksheena purusha and Raktapitta rogi - drugs like Sharkara, Ikshurasa, Milk, Ghee and Mamsa rasa are used for the Avapeedan nasya. In case of Krisha, durbala, bheeru, sukumara, stree.the unctuous substance processed with Shirovirechana drugs or the kalka of the Shirovirechana drug are used for the Avapeeda nasya.
- 2}*Pradhamananasya* ¹⁴ : *Sushruta* stated that, Shirovirechana drug is powdered and sprayed into the nasal orifice with the help of a tube. Pradhamananasya is indicated in cases of derangement of the mind *(chetanavikriti)*, worm infestation (krimi), and poisoning (vishapeedita). Dose of PradhamanaNasya: The quantity of powder required to reach the throat when blown through a 6 angula long pipe is the quantity for This can Pradhamananasya. repeated multiple times depending on the intensity of the drug snuffed in nasal passage¹⁵.
- 3} Navana Nasya¹⁵: Decoctions and medicated oils are used for Nasya. This type of therapy is used in Vata-Pitta or Kapha-Pitta disorders. The main purpose of all Nasyas is to expel the Kapha Dosha from the head. So all Nasyas arec alled as Virechana Nasya.

The unctuous substance used for *Nasya* according to the *Doshas*¹⁶:

- In Vatakaphaj –Thaila
- In kevalavata Vasaa
- In *pitta Ghee*
- In vaata pitta –Majja

Contraindications for Nasya 17: After taking food, unctuous substance, alcohol, water *nasya* is contraindicated. If there is Garavisha in his body, After taken and take head bath. to bloodletting, who has urge for passing urine, stools etc, who is suffering from injuries, Immediately after vamana, virechana, basti, In Pregnant lady, First 45days after delivery, in Acute coryza,In Breathing difficulty, cough,in Amenorrhea, on inauspicious day nasva karma is contra indicated.

Mode of action:

Modern anatomical and physiological aspect of Nose¹⁸: The nose is connected through vascular system, nerve plexus of olfactory nerve and ophthalmic and

1. NEUROLOGICAL PATHWAY: It is concerned with olfactory stimuli. The olfactory nerve differs from other cranial nerves in its close relation with the brain. The peripheral olfactory nerves are chemoreceptor in nature. The olfactory nerves are connected with the higher centers of brain i.e. limbic system, consisting mainly of amygdaloidal complex, hypothalamus, epitheliums, anterior thalamic nuclei parts of basal ganglia etc. so the drugs administered through nose stimulate the higher centers of brain which shows action regulation of endocrine and nervous system functions. So Hypothalamus regulates: 1. a. Regulates contraction of smooth and cardiac muscles secretions of many glands . b. It is a major regulator of

visceral activities includes heart rate. movement of food through the gastrointestinal tract and contraction of bladder. 2. Regulation of hormone synthesis:- a) Responsible for integrating the functions of the endocrine system and the nervous system. b) It is known to have direct nerve connection with the posterior lobe of pituitary. c) In addition hypothalamus is connected with anterior lobe of pituitary through portal vessels which supply blood to the gland conveying chemical messages through inhibitory and releasing hormone. 3. Regulation of emotional and behavioral patterns: a) Together with limbic system participate in expression of rage, aggression, pain, pleasure and behavioral pattern relating to sexual arousal etc. b) Regulation of eating and drinking through the arcuate and paraventrical nuclei and thirst centre thus regulating osmotic pressure. 4. Regulates body temperature: 5. Regulation of circadian maxillary branches of trigeminal nerves representations and states of trigeminal nerves representations and trigeminal nerves representations are representations and trigeminal nerves representation same as hypothalamus. 7. Epitheliums consisting of pineal gland and habenular nuclei- Pineal gland is a part of endocrine system, secreting melatonin and also contributes to the setting of the body"s biological clock. 8. Habenular nuclei – involved in olfaction, especially emotional responses to odors. 9. Sub thalamus – contain the sub thalamus nuclei and portions of the red nucleus and the substantianigra. These regions communicate with the basal ganglia help to control body movements. The drug administrated even enters into systemic circulation and also direct pooling into the intracranial region by vascular path.

> 2. DIFFUSION OF THE DRUG: Lipid soluble substances have grater affinity

for passive absorption through the cell walls of nasal mucosa. "The cilia of the olfactory cells and perhaps the portions of the body of the olfactory cells contain relatively large quantities of lipid materials." Non- polar hydrophobic molecules diffuse through the lipid bilayer of the plasma membrane, into and out of cells. Such molecules include oxygen, carbon dioxide and nitrogen gases; fatty acids, steroids, and fat soluble vitamins. It is a route of of some nutrients absorption excretion of waste by body cells which are lipid soluble. Further drug absorption can also be enhanced by local massage and fomentation.

VASCULAR PATH: Vascular path transportation is possible through the pooling of nasal venous blood into the facial vein, which naturally occurs, at the opposite entrance. the inferior ophthalmic vein also pool into the facial vein."The facial vein has no valves. It with communicates freely intracranial circulation, not only at its commencement but also by the supra orbital veins which are connected with the ophthalmic vein, a tributary of the deep facial vein, which communicates through the pterygoid plexus with the sinus." Such venous cavernous pooling of blood from nasal veins to venous sinuses of the brain is more likely to occur in head lowering position due to gravity, the absorption of drug into meanings and related intracranial organ is a point of consideration.

CONCLUSION

Nasya kala i.e. proper time and duration of drug administration is important factor. Age, Dosh avastha, vyadhiavastha, Form of drug used is also important factor in Nasya karma.

Keeping in the view of the above said facts, it can be concluded that either the essence of Nasya or Nasyadravya is reaching the brain and acting important centers controlling different neurological, endocrine and circulatory functions and thus showing systemic effects.Following things should considered in case of drug used.PH & osmolarity & concentration of drug used are important factors for absorption of drug through nasal passage. Bioavailability can be affected by concentration of drugs like Salt, honey etc. Various delivery systems affect the site of deposition, degree of absorption. Viscosity increases the contact time between nasal mucosa & drug, which enhances the potential of the drug action. In Mechanism of drug absorption, Transcellular passive diffusion, Drug diffuses through membrane. It is an active transport process. More suitable for lipophilic drug, snehanasya may absorb through this process. Para cellular the passive diffusion- drug is transported between the cells and transcytosis by vesicle carrier. It is a suitable mechanism for hydrophilic drugs e.g. avpeedak, dugdhs & kwathnasya.

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