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NASYA - HOW IT WORKS: AN AYURVEDIC CONCEPT

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ABSTRACT

In Samhitas Nasyakarma has been described in detail. Charaka in Sutrasthana first chapter has given the synonyms of Nasyakarma, in Siddhisthana has classified Nasyakarma depending on the medicines used and on the pharamacological action and also has stated indications and contraindications for Nasyakarma. He has explained the procedure along with complications and samyak and asamyak yoga features. In Vimanasthana he mentions different types of Nasyakarma depending on the parts of a plant used. Sushruta has defined Nasyakarma as instillation of medicine through Nose in Chikitsasthana. He has given the classification of Nasyakarma, even the timing of administration based on rutu and doshas. He has also given the indications and contraindications, procedure, samyak, heena and atiyoga features, complications and the things to be followed after Nasyakarma is being stated by him.

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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 nos- trils. Since nose is the gateway of the head (Ashtang Hridaya Sutrasthana, 2005), the therapy is highly effective in curing a number of diseases pertaining to the head, if it is performed systematically. The therapy cleanses and opens the channels of the head, thereby improving the process of oxygena- tion (Prana), which has a direct influence on the functioning of brain (Charaka Samhita, 2004). Drug adminis-tered through nose mainly acts on olfactory receptors present in superior concha. This therapy is beneficial if done on a regular ba- sis. It keeps the eyes, nose and ear healthy & it also prevents the early graying of hair and bear. Our classical texts have been men tioned 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

According to Functions

Virechana Nasya (Cleansing *Nasya*): Usually strong drugs are used in the *Virechananasya karma*.

*Corresponding author: Dr. Pramod Chandra Dwivedi Department Of Panchakarma, Shubhdeep Ayurved Medical College & Hospital [P.G. Institute], Indore, (Madhya Pradesh) India It is also called as Shirovirechananasya. In Virechan Nasya, forms of drug used are Kwatha, Choor- na, Swarasa, Sneha, Madhu, Saindhva, Aasava, Pitta, Mootra (Sushrut Samhita, 1997)etc. These are mixed with the Shirovirechana drugs. Choorna create Vegas simply by keeping it near the nostril. Virechana Nasya is mainly used to treat Kapha type of diseases such as headaches, heaviness in the head, cold, na- sal 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 treat- ed by Pradhaman Nasya (Charaksamhita, 2004). Some skin dis- eases like ring warm infestation, itching, blebs are easily treated by this type of Nasya karma. Epilepsy, drowsiness, Parkin- sonism, greed and lust can be effectively treated by the therapy. Powders such as Brahmi are used in this therapy.

Snehana Nasya/ Brihmana- Nasya/(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 head- ache,hemicranias, and dryness of voice, constriction of the eyes, defects of the vision, toothache, earache, tinnitus, and diffi- culty in speech, nervousness, anxiety, fear, dizziness and emptiness (Sushrut Samhita, 1997). Negative thoughts can be banished by undergoing this treat- ment. In case of the person is suffering

from bursitis, stiffness in the neck, frozen shoul- ders, dry sinuses and loss of sense of smell, dry nose, *BruhanaNasya* would be the best bet. It imparts strength to Neck, Shoulder, and Chest (Sushrut Samhita, 1997).

Shaman Nasya (Sedative Nasya): In this type of Nasya, form of the drugs used are Sneha, Swarasa, Ksheera, Udaka, Kwath, tail etc. ShamanNasya is used according to Dosha which is aggravated in the human body. It is mainly administered to treat Pittaj and 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 etc (Sushrut Samhita, 1997).

According to quantity of drug used

MarshyaNasya (Ghee or Oil Nasya) (SushrutSamhita, 2004)

This type of *MarshyaNasya* karma makes use of ghee/oil. The therapy is administered for a particular reason, which may not be disease, but a condition of uneasiness aris- ing from particular diseases.

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

Quantity of the unctuous medicine in Marsha Nasya (Ashtang Hridaya Sutrasthana, 2005)

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

Pratimarshya (Daily Oil Nasya) (Charaksamhita, 2004)

This type of therapy is administered by dipping the clean little finger in ghee or oil and in- serting 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 unsea- sonable time. It is also given in persons who had injury to chest, dryness of oral cavity. *Pratimarsha* can be administered in unsea- sonable time, inauspiciousday and rainy season and also from birth to death.

Contraindications (Charaksamhita, 2004)

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

Dose of Pratimarshanasya medicine

Thaila is the best Sneha (unctuous sub- stance) for the daily use as head is the main seat of *Kapha Dosha*.Administering the *Pratimarshanasya* daily gives us the effect same as that of *Marsha nasya*, but theyare not the same.

Dose (Charaksamhita, 2014): 1 – 2 bindu.

Different types of the Nasya karma depending on the preparation of the drug

Avapeedanasya (Sushrut Samhita, 1997): -Virechana or Shama- na nasya

Where the paste of the drug is squeezed into the nostril is called *Avapeedanasya*. It is in- dicated 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 *Avapeedanasya*. In case of *Krisha, durbala, bheeru, sukumara, stree,*- the unctuous substance processed with *Shi- rovirechana* drugs or the *kalka* of the *Shiro-virechana* drug are used for the *Avapeedanasya*.

Pradhamananasya (SushrutSamhitam, 1997)

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 *(cheta- navikriti)*, worm infestation *(krimi)*, and poisoning *(vishapeedita)*.

Dose of Pradhamana Nasya

The quantity of powder required to reach the throat when blown through a *6 angula* long pipe is the quantity for *Pradhamananasya*. This can be repeated multiple times depending on the intensity of the drug snuffed in nasal passage (AshtangHridayaSutrasthana, 2005).

Navana Nasya (Ashtang Hridaya Sutrasthana, 2005)

Decoctions and medi- cated 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 *VirechanaNasya*.

The unctuous substance used for Nasya according to the Doshas (Charaksamhita, 2004)

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

Contraindications for Nasya (Tortora Grabowski)

After taking food, unctuous substance, alco- hol, water *nasy a* is contraindicated. If there is *Garavisha* in his body, After taken and want to take head bath, after 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 *nasya* karma is contra indicated.

Probable mode of action: Modernanatomical and physiological as- pect of Nose (Medical physiology by Guyton)

The nose is connected through vascular sys- tem, nerve plexus of olfactory nerve and ophthalmic and maxillary branches of tri- geminal nerves to the brain.

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 chemo- receptor in nature. The olfactory nerves are connected with the higher centers of brain i.e. limbic system, consisting mainly of amygdaloidal complex, hypothalamus, epi- theliums, anterior thalamic nuclei parts of basal ganglia etc. so the drugs administered through nose stimulate the higher centers of brain which shows action on regulation of endocrine and nervous system functions.

So Hypothalamus regulates

- Regulates contraction of smooth and cardiac muscles secretions of many glands.
- It is a major regulator of visceral ac- tivities includes heart rate, movement of food through the gastrointestinal tract and contraction of bladder.

Regulation of hormone synthesis

- Responsible for integrating the functions of the endocrine system and the nervous system.
- It is known to have direct nerve connec- tion with the posterior lobe of pituitary.
- 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 hor- mone.

Regulation of emotional and behavioral patterns

- Together with limbic system participate in expression of rage, aggression, pain, pleasure and behavioral pattern relating to sexual arousal etc.
- Regulation of eating and drinking through the arcuate and paraventrical nuclei and thirst centre thus regulating osmotic pressure.

Regulates body temperature

- Regulation of circadian rhythm and states of consciousness
- Effects of stimulating the amygdaloidal-same as hypothalamus.
- Epitheliums consisting of pineal gland and habenular nuclei- Pineal gland is a part of endocrine system, secreting mel- atonin and also contributes to the setting of the body"s biological clock.
- Habenular nuclei involved in olfac- tion, especially emotional responses to odors.
- 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 the systemic circulation and also direct pooling into the intracranial region by vascular path.

Diffusion of the Drug

Lipid soluble substances have grater af- finity for passive absorption through the cell walls of nasal mucosa. "The cilia

of the ol- factory cells and perhaps the portions of the body of the olfactory cells contain relatively large quantities of lipid materials." Non- polar hydrophobic molecules dif- fuse through the lipid bilayer of the plasma membrane, into and out of cells. Such mole- cules include oxygen, carbon dioxide and nitrogen gases; fatty acids, steroids, and fat soluble vitamins. It is a route of absorption of some nutrients and 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 trans- portation is possible through the pooling of nasal venous blood into the facial vein, which naturally occurs, at the opposite en- trance, the inferior ophthalmic vein also pool into the facial vein. "The facial vein has no valves. It communicates freely with the intracranial circulation, not only at its com- mencement but also by the supra orbital veins which are connected with the oph- thalmic vein, a tributary of the deep facial vein, which communicates through the pterygoid plexus with the cavernous venous si- nus." (Grays, 2005). Such a 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 on im- portant centers controlling different neuro- logical, endocrine and circulatory functions and thus showing systemic effects. Following things should be consid- ered 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 poten- tial of the drug action. In Mechanism of drug absorption, Transcellular passive dif- fusion, Drug diffuses through membrane. It is an active transport process. More suitable for lipophilic drug, *sneha*nasya may absorb through this process. Para cellular 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 and kwathnasya.

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