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NASYA IN SHALAKYA TANTRA

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ABSTRACT

Shalakyatantra is one of the Ashtanga Ayurveda that deals with the treatment of diseases related to the eye, ear, nose, throat, oral cavity, head, and scalp through oral medications, kriyakalpa, Panchakarma procedures, surgical and para-surgical procedures, etc. Nasya is one among panchakarma; the intranasal method of drug administration meant for treatment and detoxification and is widely used in Shalakyatantra. It is said 'Nasa hi shiraso dwaram'; The nose is the gateway for drug administration for the ailments of head and organs situated in it viz, eye, ear, nose, throat, head, scalp, hair, and oral cavity. Nasya can be used also for the prevention of diseases, to strengthen the indriya (sense organs), and to bring Shiro laghuta by eliminating the doshas. This article is a compilation of references to Nasya used in shalakya tantra chikitsa.

Keywords: Nasya, Shalakya tantra, Panchakarma, eye, ear, nose, throat, head, scalp, oral cavity.

INTRODUCTION

Administration of medicine through the nasal route is known as *nasya*¹. This treatment modality is used to eliminate the vitiated *doshas* which are responsible for producing disease. *Shirovirechana*, *Shirovireka*, *Murdhavirechana* are the other names of this procedure². *Ayurveda* describes the nose as the doorway to the head. *Nasya* cleanses and opens the channels of the head, eyes, nose, ears, throat, and oral cavity and improves the oxygenation i.e., the flow of *prana* which has a direct and highly beneficial influence on brain functions.³

INDICATIONS:⁴

Shirastambha -Stiffness of Head, Gadgadavat - A Form of Dysarthria, Manyastambha - Stiffness of Neck, Dantaharsha - Hypersensitivity of Tooth, Dantastambha - Stiffness of Teeth, Chaladanta -Mobility of Teeth, Dantashula - Toothache, Swarabheda - Hoarseness of Voice, Hanugraha - Rigidity of Mandibular Joint, Vakgraha – Dysarthria, Peenasa - Chronic Rhinitis, *Dantapata* - Falling of Teeth Galashundika - Elongated Uvula, Karnaksweda -Tinnitus, Galashaluka - Adenoids, Keshapata - Hair Fall, Netra Roga – Eye disorders, Timira – Myopia, Vartmaroga - Diseases of Eyelids, Nasaroga - Nasal Disorders, Upajihiwika - Rannula/Cyst, Suryavarta - Frontal Sinusitis, Ardhawabhedaka - Migraine, Krimijashiroroga - Headache due to Krimi, Grivaroga - Disease of Neck, Vataja Shiroroga -Headache due to Vata, Amsashula - Shoulder Pain, Mukhashosha - Dryness of Mouth, Mukharoga A Disorder of Mouth, Mukharoga - Oral Cavity Disorder, Palitya - Early Graving of Hair, Nidranasha -Sleeplessness, Netragatasukraroga - Corneal Opacity, Vyanga – Pigmented Spots on Face, Karna Shula - Ear Ache, Akshishula - Painful Eyes, Shirashula -Headache, Ardita - Cranial Nerve Palsies

CONTRA-INDICATIONS:5

Ajeerna – Indigestion, Peetasneha – The person who is subjected to oral snehana treatment, Peetamadya -The person who is intoxicated due to alcohol, Virikta - Client subjected to Virechana Navajwara – Suffering from fever, Snatashira - After the head bath, Ksudhartha - Hungry Client, Trushnartha - Thirsty client, Ativyayama - Excessive exercise, Garbhini – Pregnant women, Bhuktabhakta -After Meal, Vyayama klanta - Excessive physical work, Vyavaya klanta - Excessive sex indulging, Shokabhitapta- State of grief, Vriddha-Aged person, Bala- Children below the age of 7 years

Aims and Objectives: A collection of the description of *Nasya* in *brihatrayi,laghutrayi*, and *related journals*.

PROCEDURE

The procedure of administration of *Nasya* comprises

- 1. Purva karma⁶
- 2. Pradhana karma⁶
- 3. Paschat karma⁷

1) *Purvakarma*: Selection of the patient: The patient should be selected according to the indications and contraindications of *Nasya* described in the classics.

Preparation of the patient:

- The patient who has passed his natural urges like urine, stool, etc. routine daily activities like bath, prayer, light breakfast, etc should be done. Now the patient gets ready for *Nasya karma*. He should lie down on *Nasya Shayya*.
- Before *Nasya*, *Mridu Abhyanga* should be done on scalp, forehead, face, and neck for 3 to 5 minutes by medicated oil like *Ksheera Bala Taila*, *Panchaguna Taila*, etc.

2) Pradhana Karma:

- The patient should lie down in a supine position with ease on *Nasya Shayya*. *Shira* should be "*Pralambita*" (lowered) and the foot part is to be slightly raised.
- The Head should not be excessively flexed or extended. If the head is not lowered, the nasal medication may not reach the desired distinction and if it is lowered too much, there may be the danger of getting the medication to be lodged in the brain.
- After covering the eyes with a clean cotton cloth, the physician should raise the tip of the patient's nose with his left thumb and with the right hand, the *sukoshna* medicine should be dropped in both the nostrils in a proper way.

3) Paschat Karma:

- The patient is asked to spit out the medicine that reaches the throat. *Nadi Swedana* to be given again after *nasya*. Gentle massage to be given on the forehead, palms and soles of the patient and allow to take rest.
- Then the patient is to be given *dhumapana*, followed by *kavalagraha* or *gandusha* which eliminates *Kapha*.

• Then the patient is advised to follow a wholesome diet, resort to the breezeless, warm residence and observe self-restraint. Day sleeping and cold water for any purpose like *Pana, Snana*, etc. should be avoided.

Nasya classification:

Mainly classified into 2 types

- 1. Shodhana
- 2. Shamana
- According to *charaka acharya* 5 types⁸

- 1. Navana nasya
- 2. Avapeedana nasya
- 3. Dhmapana nasya
- 4. Dhuma nasya
- 5. Pratimarsha nasya
- 1. *Navana nasya : Navana* is instillation of medicated *taila* or *Ghrita* into the nose ⁹.

Ex : *Kaphajanyatimira – Triphaladi taila*¹⁰ All type of *nasa roga – Shadbindu taila nasya*¹¹

Sl.no	Disease Nasya dravya		Reference
1.	Kaphaja rohini	Taila prepared of	A H U 22/62
		Swetha aparajita, Dantimula, Vayu	
		vidanga & Saindhava lavana	
		Apamarga beeja	
2.	Krimidanta	Snigdha nasya	A H U 22/19
		Taila prepared with vidarikanda, yasti,	
		shringataka, kesara	A H U 22/25
3.	Vaidarbha	Sheetala nasya	A H U 22/29
4.	Upakusha	Madhura ganasadhita ghrita sidda nasya	A H U 22/31 -32
5.	Saushira	Taila prepared with kamala, krishnasarivaka-	A H U 22/36
		laagaru, Raktachandana, yasti, patanilodra,	
		misri, pundarika	
6.	Talushosha	Dhanwamamsa snigdha ksheerasarpi	A H U 22 /54
7.	All types of mukharoga	Vata nashaka Madhuraskandha siddha taila	A H U 22/55
		nasya	
8.	Vataja rohini	Taila nasya	A H U 22/59
9.	Vataja shirashula	Taila prepared with varunadi gana dravya	A H U 24/4
		and Madhura gana dravya	
10.	Pittaja shiroroga	Snehadravya : Goghrita	A H U 24/11
		Dravadravya : Goksheera	
		Kalkadravya : jivaniya varga dravyakalka	
11.	Vatapittaja shiroroga	Taila prepared with jivaka, vrushabaka,	Vangasenashirorogaadhikara
		draksha, sita, yastimadhu, bala, Utpala	/ 81
12.	Krimija shiroroga	Vidanga taila nasya	Vangasenashirorogaadhikara
		Taila prepared with vayuvidanga, bijaka,	/ 88
		danti, hingu	
13.	Krimija shiroroga	Apamarga taila nasya	Vangasenashirorogaadhikara
		Taila prepared with apamarg bija, trikatu,	/ 89
		haldi, hing, vayuvidanga, and Gomutra	
14.	Suryavarta	Ksheera Ghrita nasya	Vangasenashirorogaadhikara
			/ 91
15.		Taila prepared with bhringaraja swarasa and	Vangasenashirorogaadhikara
		yastimadhu	/ 94
16.	Pakshmashata	Swadu sheetaskandha sadhita sarpi navana	A S UT 12/6
		nasya	

17.	Vataja abhishyanda	A) Snehadravya - taila Dravadravya – goksheera Kalka drawa – Madhura gana drawa	SU UT 9/10
		Kalka dravya – Madhura gana dravya B) Snehadravya – taila Dravadravya – ksheera Kalkadravya – Rasna, Abhiru, Dashamula, Bala, kola, Kulatta, and yava	A S UT 19/8
18.	Raktajaabhishyanda	C) Sneha dravya –Ghritamanda Dravadravya –Breastmilk Kalkadravya – powders of sugar, Madhuka, Nilotpala	A S UT 19/40
19.	Timira	A S UT 19/44	
20.	All types of Netrarogas Mukhadaantagreevabalaprada Kantiprada	Bhringaraja swarsa -4lit Jivanti taila prayoga Roots of jivanti Sneha dravya :tilataila 1 prasta Dravadravya : goksheera Kalkadravya :jivanti 1 pala Shatavari 1 pala Yasti 4 pala Prepare taila in loha patra Then kept prepared taila in loha patra	A H UT 13/41,42,43
21.	All type of <i>urdwajatrugata vyad</i> hiand <i>vatakaphajanetra roga</i>	Snehadravya –tila taila Dravadravya –Goksheera Kalka Dravya- Swethaerand, vanabhanda, Triphala, devadaru, bala, vacha, tagara, ghosha, pathabeda, bilwamula make it into tailpaka. Use as nasya - Snehadravaya : Goksheera Drava dravya ; Dashamulakwatha Kalka dravya :Netrabala (HRUBERA) ,devadaru ,nishi,daruhaldi,pippali	A H UT 13/43 A H UT 13/46
22.	Sannipataja timira	Taila prepared with <i>Madhuka</i> , <i>vidanga</i> , <i>devadaru</i>	A H U 13/75
23.	Kaphaja timira	Triphaladi taila Taila prepared with Triphala, Lodra, Usira, Phalapriyangu	Vangasenanetrarogaadhikara / 425
24.	Pittaja timira	Gomaya taila Taila prepared with Goshakrith.	Vangasenanetrarogaadhikara / 426

25.	Peenasa pratishyaya	Taila prepared with Kalinga, Hingu, Mari-	B.R 63/7
		cha, Laksha, Sursa, katphala, Kusta, Lodra,	
		Sigru, Vidanga	
26.	Nasaarsha	Taila prepared with Murchita tilataila,	B.R 63/33
		Gruhadhuma, Pippali, Devadaru, Ya-	
		vakshara, Saindhava lavana, Shikaribeeja	
27.	Badhirya	Taila prepared with Dashamoolakwatha,	B R 63/36
		Dashamoolakalka, Murchitatila taila ,	
28.	Karnanada, karnapratinaha , kar-	Madhukadi taila	B R 63/69
	nashula, badhirya	Taila prepared with Murchitatilataila,	
		Madhuyashti, Dashamoola, Daruharid-	
		ra, Vacha, Kusta, Shigru, Rasanjana, devada-	
		ru, vidalavana, svarjakshara, saindhava la-	
		vana	

2) Avapeedana nasya

Avapeedana nasya – It is a type of shodhana nasya Instillation of Fresh juice of pungent substance into the nose is called Avapidana nasya¹² Drugs used are *teekshanadravyas* like *saindhava*, *pippali*, *maricha* etc.

ex : Galaroga, Akshiroga, Timira, Shiroroga, Nasaroga

Sl no	Disease	Yoga	Reference
1	Nasaroga	Gudanagara nasya	A S U 24/39
2	Dustapratishyaya	<i>Trikatu, indrayava, vidangasara, indrayava, jeeraka, saindha- va lavana</i> is macerated well in <i>ajamutra</i>	A S U 24/37
3	Putinasa	Juice is prepared with <i>hingu</i> , <i>trikatu</i> , <i>vatsaka</i> , <i>indrayava</i> , <i>swetha punarnava</i> , <i>laksha</i> , <i>saurabha beeja</i> , <i>katphala</i> , <i>ugra</i> , <i>vacha</i> , <i>kusta</i> , <i>shigrubeeja</i> , <i>vidanga</i> , and <i>karanja</i>	Su ut 23/45
4	Kaphaja prat- ishyaya	Katu Dravya nirmita dhuma nasya	Ch chi 26/138
5	Sarvaprakara shiroroga	Swarasa from shunti and guda	Vangasenashirorogaadhikara /64
6	Suryavarta	Shunti swarasa, pippali, vacha	Vangasenashirorogaadhikara /13
7	Sarvashiroroga	Hruswa shigru beeja, nilottita mix with gomutra	Vangasenashirorogaadhikara /77
8	Peenasa	Kalinga(endraja), hingu, maricha, laksha swarasa, katphala, kushta, saindhava lavana, trikatu, grinded with ushnajala	Y R Nasaroga chikitsa adyaya /1

3)*Pradhamana nasya /dhmapana nasya*: It is a type of *shodhana nasya where one kola quantity of* fine powder is blown into nostrils¹³.

Sl no	Disease	Yoga	Reference	
1	Kaphaja prat- ishyaya	Fine powder of manashila, vacha, trikatu, hingu, guggulu	Ch chi 26/151	
2	Naveen prat- ishyaya	Fine powder of Rohisha, Alaji, Tarkari, Choraka, twak, patra, maricha, ela, upakunchanka	Ch chi 26/137	
3	Pratishyaya	Kalika navasagara nasya	YR Nasaroga chikitsa	

		Fine powder of <i>Navasagara, chunaka churna</i> , an equal quantity of <i>gunja</i>	adhy	aya / 71-72	
4	Pratisyaya	Chatur jataka churna nasya Fine powder of twaki, ela, tejapatra, nagakesara	YR adhy	Nasaroga aya / 70	chikitsa
5	Sannipataja shi- rashula	Smaraphaladi churna nasya Fine powder of mounaphala, tilaparni, Raktachandana, leaves of kushapatra, Jayapalabeeja.	YR adhy	Nasaroga aya / 43	chikitsa

4)*Dhuma nasya*: Medicated smoke inhaled through the nose and exhaled through the oral route¹⁴ is called *dhuma nasya*

Sl no	Yoga	Disease	Reference	
1	Shathwadi dhumavarti shathwa, twak, bala, kumkuma, shonaka,	Naveena	Ch Si 9/92	
	erandamoola twak, aamlavetasa add vasa and Ghrita.	pratishyaya		
2	Vidanga, Saindhava Lavana, Guggulu, Manashila, Vacha	Pratishyaya	YR Nasaroga chikitsa	
			adhyaya / 67	
3	Vartis prepared with daruharidra, ingudi, danti, apamargaa, surasa	Pratishyaya	B.R 63/10	

5. *Pratimarsha nasya* : Instillation of oil into the nostrils is called *pratimarsha nasya*¹⁵. The dose of *pratimarsha nasya* is two *bindu* for each nostril.

A *bindu* is the quantity of the oil that drops from the index finger dipped into oil to the level of its first two phalanges.

Sl no	Yoga	Yoga	Reference
1	Taila prepared with bibitaki, nimba, gambhari, siva, selu, kakini	Palita	Sharangadhara samhita nasya prakarana 45
2	Taila prepared with <i>pataharidra</i> , <i>daruharidra</i> , <i>murva</i> , <i>pippali</i> , <i>jatipatra</i>	Peenasa	Y R 1/541
3	Shadbindu taila Taila prepared with Murchita tila taila, ajamutra, sunti, erandamoola twak, jivanti, rasna, tagara, vidariganda, yasti- madhu, Saindhava lavana	Sarva shiro- roga Kalitya	Vangasena shirorogadhikara /76

Indication¹⁶ (*Sharangadhara samhita*, *nasyaprakarana* 45)

Urdwajatru vikara
Kalitya
Palitya
Strengthen the sense organ

Classification of nasya karma based on pharmacological action ¹⁷

A. Virechaniya nasya

Ex:			
1.Shiroroga			
1.Shiroroga 2.Nasa roga			
3.Galaroga			
4.Galaganda 5.Swarabeda			
5.Swarabeda			

B. Tarpana /Brhamhana nasy	a
Indication	

1.Suryavarta		
2.Swarakshaya		
3.Nasikashotha		
4.Mukhashotha		
5.Vaksanga		
C. Shamananasya :		

Ex:	
1.Kesha palitya	
2.Netraroga	

DISCUSSION

Drug absorption in 'Nasya karma ' is a complex process and depends upon drug properties, anatomical physiological conditions of the nasal cavity, and intranasal pathways.

The probable mode action of drugs of Nasya karma can be. Neurological Pathway- It may be through stimulation of the Olfactory nerve & the Trigeminal nerve (Ophthalmic & Maxillary branches). The peripheral olfactory nerves are chemoreceptors in nature. These nerves differ from other cranial nerves in their close relationship with the brain. These are connected with the higher centres of the brain i,e the limbic system, consisting mainly of the amygdaloidal complex, hypothalamus, epithalamus, anterior thalamic nuclei parts of basal ganglia, etc. So the administration of the drug here stimulates the higher centres of the brain which shows action on the regulation of endocrine & nervous system functions. Diffusion of The Drug- Lipid soluble substances have a greater affinity for passive absorption through the cell walls of the nasal mucosa. Non-polar hydrophobic molecules diffuse through the lipid bilayer of the plasma membrane, into & out of cells. Vascular Pathway: It is possible through the pooling of nasal venous blood into an inferior ophthalmic vein (which in turn pools into the facial vein) & deep facial vein. The facial vein has no valves. It communicates freely with the intracranial circulation, not only at its commencements and by the supraorbital veins which are connected with the ophthalmic vein, a tributary of the

deep facial vein, which communicates through the pterygoid plexus with the cavernous venous sinus. 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 the drug into meninges and related intracranial organ is a point of consideration.

Drugs in the form of Nasya have a probable mode of entry in circulation, hence has a role in improving vision and relieving asthenopic symptoms as follows.

- By general blood circulation, after absorption
- Through mucous membrane. Direct pooling into venous sinuses of the brain
- Inferior ophthalmic veins. Absorption directly into the cerebrospinal fluid, As this medicine is absorbed in ophthalmic vessels it has its nourishing role in extraocular muscles and eye proper. Along with this antioxidant property have a role in maintaining tissue built. It also pacifies the aggravated Vata Dosha in the head and helps to normalize the function of the central nervous system by nourishing the nervous system and balancing the circulation of blood in the sense organs including the ear also.

CONCLUSION

It can be concluded that either the essence of *Nasya* or *Nasyadravya* is reaching the brain and acting on important centres controlling different neurological, endocrine, and circulatory functions and thus showing systemic effects. According to *Charaka*, *Nasa* is

the gateway to Shirah. The drug is administered through the nose as Nasya reaches to mastishka and eliminates only the morbid doshas responsible for producing the disease. Nasya is a very important procedure to cure Urdhva Jatrugata Rogas. Nasya Karma enhances the activity of sense organs and prevents diseases. Nasya Karma prevents khalitya and ensures growth of hair and alleviates diseases like Man-Shirah-shoola. Ardhavbhedhaka. yastambha, nasanaha, krimidanta, timira, etc. Nasya Aushadha makes its way to the brain through the nasal passage and olfactory tract to stimulate. Something happens when provocation of Doshas takes place in Shirah due to the irritating effect of an administered drug increasing the blood circulation of the brain. So extra accumulated morbid doshas are expelled out from small blood vessels and ultimately these morbid doshas are thrown out by the nasal discharge, tears, and by salivation. From the anatomical point of view, there are no such direct pharmacodynamic considerations between the nose and cranial organs. Moreover, the blood-brain barrier is a strict security system in the human brain. The nose is used as a route of drug administration for inhalation of anaesthetic materials and certain decongestants for paranasal sinusitis.

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