A review on role of Pratimarsha Nasya with Anutaila in the prevention of covid-19

Ashwini R. Parkanthe*1, Brijesh Mishra2, Harish J. Purohit3

PG Scholar*1, Professor and HOD2, Associate Professor and Guide3
Post Graduate Department of Basic principle of Ayurveda and Samhita,
Shri Ayurved Mahavidyalaya, Nagpur, Maharashtra, INDIA

*Corresponding author: ashwiniparkanthe582@gmail.com

Abstract:
The severe acute respiratory syndrome (SARS) coronavirus-2 is a novel coronavirus belonging to the family coronaviridae and is now known to be responsible for the outbreak of a series of recent acute atypical respiratory infections originating in Wuhan, China. The disease caused by this virus, termed coronavirus disease 19 or simply Covid-19, has rapidly spread throughout the world at an alarming pace and has been declared a pandemic by the WHO on March 11, 2020. In Ayurveda pandemic is explained in Charak Samhita viman sthana under Janpadodhwansiya adhyaya. Till date no medicine or therapy has demonstrated promising result in Covid-19. So, we can prevent and defend this disease by boosting own immunity. Which can be achieved by adopting ayurvedic measures such as following proper Dincharya, Ritucharya, Sadvritta, Achar Rasayan Panchkarma etc. These practices lay emphasis on prevention of disease and promotion of health, one of such preventive measure is Pratimarsha nasya. Pratimarsha Nasya with Anutaila explained in Dincharya. Most of ingredients of Anutaila possess Anti-inflammatory, Anti-pyretic, Anti-viral properties ultimately these functions of Anutaila will lead to enhancement of respiratory immunity and will help in prevention of covid-19 a respiratory disease.

Keywords: Anutaila, Pratimarsha Nasya, Covid-19, Respiratory disease.

INTRODUCTION
A series of acute atypical respiratory infections ravaged the Wuhan city of Hubei province of China in December 2019. The pathogen responsible for these atypical infections was soon discovered to be novel coronavirus belonging to a family coronaviridae and was named as the severe acute respiratory syndrome coronavirus-2 (SARS-Cov2). It was seen to be highly homologues to the SARS...
coronavirus (SARS-Cov). Which was responsible for the respiratory pandemic during the 2002-2003 period\(^1\). The respiratory illness caused by this virus was termed as coronavirus disease 2019 or simply Covid-19 by the WHO and the outbreak was considered to have started via a zoonotic spread from seafood markets in Wuhan, China. Subsequently human to human transmission was recognized to be responsible the community spread of the disease, being reported in approximately 200 countries world wide\(^2\). After being broadcast as a public health emergency on Jan 30,2020. Covid-19 was subsequently declared a pandemic on March 11,2020 by WHO. The SARS-Cov-2, Which initially led to a severe pneumonia outbreak in China, has now rapidly spread all throughout the globe. Though statistics of this disease shows its high incidence rate, high occurrence, fast replication and great extent of spreading nature and high mortality rate; till date, there is no any effective remedy in the form medicine or vaccine is developed in contemporary science to combat over this situation. Therefore, prevention remains the unique way to overcome such pandemic state. It is the need of hour to develop a safe and effective treatment approach in alternative science i.e. Ayurveda for the management and prevention of this type of infection. As prevention is the single option to fight with this dreadful situation and immunity of individual plays key role against this fight because prolonged weakened immune system give rise a greater susceptibility to various infections especially related with respiratory system However, application of various preventive aspects of Ayurveda based on its fundamental principle like Sadvritta, Panchakarma, Dincharya, Ritucharya successfully empowers the person to fight against this virus. Pratimarsaha nasya is one of the part of such regimen i.e. Dincharya which can be used as a procedure for prevention of respiratory disorders will be helpful in covid-19. Pratimarsaha nasya with Anutaila explained as procedure in Dincharya by Acharya Charak\(^3\) in the prevention of various disease and building immunity considering the simple nature of the procedure, daily use unassociated adversities and there is no any complications, so Anutaila Pratimarsaha nasya is very efficacious in the prevention of respiratory disease\(^4\).

Aims and objectives
1. To justify the use of Pratimarsaha nasya in the prevention of covid-19 as well as in promotion of health.
2. To understand the mode of action of Pratimarsaha nasya by Anutaila in Covid-19.

Materials and Methods
Textual reference is from Ayurvedic classic text and various journals, research articles and websites are referred.

Review of literature
In Ayurveda, nasya is term to be applied generally for medicine or medicated oils administered through the nasal passage\(^5\). Anutaila nasya is specially recommended by Acharya Charak as preventive measures for Urdhwajatru gata vikara\(^6\).
**Types of nasya karma**

Nasya is classified in various ways by different Acharyas i.e. as per mode of action (virechana-purification, bruhan-nourishing, shaman-palliative)7 As per parts of drugs utilized in nasya (phala-fruit, patra-leaves, mula-roots, Kanda-stem, pushp- flower, niryas- exudates of plants, twaka-bark)8. On the basis of method of administration (navan, avpidan, dhumpan, dhuma, pratimarsha)9. These all types of nasya can be incorporated as preventive type and curative type. Pratimarsha nasya can be taken under the preventive type of nasya.

**Pratimarsha nasya**

In Ayurveda text, pratimarsha nasya is indicated as daily regimen to keep maintain health of nasal passage Marsha and Pratimarsha both consist of instillation of lipid base drop through nostrills10. Among these two Pratimarsha nasya is well tolerated having less complication and is very much convenient procedure. It can be given to anybody at any time without having restriction. The dosage is very less (2 drops) and cannot create any complication hence it can be employed as choice of preventive therapy considering the long-term administration in reducing allergic conditions it is said Acharya Vagbhata11 that Pratimarsha nasya is good from birth to death. Hence, it may be beneficial as a part of Dincharya (daily routine) in the prevention as well as management of disorders of respiratory tract to render the nasal mucosa oily and smooth. Its strengths and maintain the normal mucosal barrier. Pratimarsha nasya may have significant role in the prevention of disorders of respiratory tract and promotion of health of sense organs.

**Dose**

Dose of pratimarsha nasya is only two drops in each nostrils12. The quantity of drugs which being lightly snuffed in reaches down into the oral cavity is deemed adequate for a dose of the Pratimarsha nasya karma.

**Indications**13

Pratimarsha nasya can be given in any age, season, in bala (child), vridha (old), bhiru (timid), sukumara (tender or delicate), kshata (injured), ksham(weak), trishana pidita (excessive thirst), mukha shosha (dryness of mouth), palita (premature graying of hairs), valita(premature wrinkles), even in suitable time and season i.e. in Varsha (rainy season) and durdin (inauspicious day).

**Contraindication**14

It is contraindicated in dushta peenasa (chronic coryza), bahudosha(excessive vitiation of dosha ) and krimija shiroroga (worm infestation of head ) and also in madyapi (habitual drinker), badhirya( deafness). In these conditions it should not give them because the dose of Sneha is quite insufficient to eliminate doshas and already aggravated doshas may get vitiated further15.

**Timings**16

Acharya Vagbhatta explained 5 kala (time) along with their specialties. The timings of Pratimarsha nasya are explained in the context for pacifying the effect of allergens at specific timings.

1. After awakening in morning
2. After the day sleep
3. After meal
4. After vomiting
5. At the end of the day
In all these five conditions *Pratimarsha nasya* cleanses the channels.
6. After exercise
7. After sexual intercourse
8. After long distance walk
   In all these conditions *Pratimarsha nasya* removes the exhaustion.
9. After the head massage
10. After gargling
11. After collyrium application
12. After defecation
13. After urination
   *Pratimarsha nasya* in these conditions improves eye site.
14. After cleansing the teeth leads to firmness of teeth and fragrance of mouth
15. After excess laugh *Pratimarsha nasya* here will pacify the aggravated wind *Pratimarsha nasya* in these two conditions motivates *vata*.

**Method**

The index figure should be dipped in oil (medicated oil/ *Anutaила*) and oil should be dropped in one nostril keeping the other closed now inhale the oil repeat the procedure for another nostril (fig1)

*Nasya* is performed in three phase preparatory procedure, main procedure and post *Karma* procedure. Mentioned below

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### Table 1: General procedure of *nasya*\(^{18,19}\)

<table>
<thead>
<tr>
<th>Sr no.</th>
<th>Preparatory procedure</th>
<th>Main procedure</th>
<th>Post <em>karma</em> procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Massage &amp; fomentation on head with oil</td>
<td>Eyes cover with clothes</td>
<td>Gentle massage on face, Forehead, neck, palms, sole, ears, shoulders</td>
</tr>
<tr>
<td>2</td>
<td>Relive from natural urges e.g. stool, urine Etc.</td>
<td><em>Nasya</em> substance is Installed in one nostril While the other nostril is Closed and vice- versa</td>
<td>Fomentation on face , forehead</td>
</tr>
<tr>
<td>3</td>
<td>Fomentation of forehead</td>
<td>The patient is asked to inhale the substance or medicine and spit it out never swallow it.</td>
<td><em>Dhumpana</em> (medicated Smoking) and <em>Gandusha</em> (gargling with luke warm water)</td>
</tr>
<tr>
<td>4</td>
<td>Position: lying down in supine with head low</td>
<td>Again, massage and Fomentation on head</td>
<td>Avoid exercise excess movement, mental disturbance like anger, fear etc.</td>
</tr>
</tbody>
</table>
Benefits of nasya

Preventive effects: The healthy person who undergoes the nasya karma in suitable season nourishes the sira (vein), sandhis (joints), snayu (ligaments), kandara (tendons), of the head and makes them strong. The person’s face becomes cheerful and well developed (mukha prassanta). His voice will be melodies, shtira (stable), mahan (grave). It imparts vaimalya and bala (strengths) to all sense organs. It prevents the disease of supra clavicular region of the body.

Curative effects

Nasya karma performed in conditions like manya sthambh (torticollis), shira shula (headache), ardita (facial paralysis), hanu sangraha (lock jaw), ardhavbhedak (migraine), peensa (chronic coryza), shirkampa (head tremor) helps to cure those conditions.

Mode of action

In ashtang samgraha it is explained that nasa being the door wat to shira (head) the drug administered through nostril, reaches shringataka (a sira marma) by nasa srota (nasal passage) And spread in the murdha (brain) taking route of netra (eye) shrotra (ear), kantha (throat) siramukha (opening of vessel) etc. and scratches the morbid dosha in supraclavicular region and extracts them from attamang (head).

As discussed in above line that, nose is the gateway of head. It does not mean that any channel directly connection through blood vessels, lymphatic and nerves.

There is no direct pharmacological correlation between nose and brain. However, the olfactory area is the only place in the whole human body where there is direct contact between the outer surface and the central nervous system. However, the effect of drug on the brain administered through nasal pathway can be seen in followed examples.

The nose is used as route of administration for inhalation of anesthetic drugs as well as anterior pituitary hormones in the form of nasal spray are being used since a long time. Thus, to understand action of nasya drug on central nervous system it is necessary to know the probable pathways of action of nasya medicine. On the basis of fractional stage of nasya karma procedure we can understand mode of action of nasya the level of blood circulation, lymphatic channels including CSF and at the level of neuroendocrinal and neurovascular stimulation.

Mode of action of Anutaila

Anutaila is indicated widely in treating various alignments pertaining to upper clavicle region. Acharya Charak has advocated use of Anutaila in the form of Pratimarsha nasya in daily routine for prevention and management of Urdhvajatrugat roga. Anutaila as the indicated it is having the capacity to penetrate minute channel.

It is prepared with 27 drugs (Chandan, Agru, Daruvaridra, Twaka, Ela, Yashtimadhu, Vidanga, Bilva, Utpala, Musta, Sariva, Shithra, Bruhati, Kantakari, Jivanti, Prashanparni, Shatavari etc.)
Majority of ingredients of Anutaila shows tikta-katu ras (bitter-pungent taste) and laghu guna (light). These properties are very much in favor of clearing the srotas. Katu vipaka, ushna virya (hot potency) and tikshana (sharp) properties produce draveekarna (liquification) of vitiated kapha dosha. Madhura rasa (sweet taste) and snigdha (unctuous) properties help to nourish dhatus (tissues). Most ingredients also possess anti-inflammatory, anti-pyretic, anti-bacterial properties. Due to these properties the medicine prevents recurrent infections and reduces inflammatory process. It also having ability to alleviate the irritation particularly of mucus membrane of nasal cavities and sinuses.

Thus, Anutaila may be capable to arrest respiratory disorders such as allergic rhinitis, bronchial asthma etc. Due to vata shamana (vata pacifying), tri dosha nashana (pacification of three doshas) Balya (improves strengths) Bruhan (nourishing) and Rasayana (rejuvenating) properties of Anutaila. It may increase local immunity and thus highly effective to resist local mucosa towards the allergens as mentioned above.

In short, by administrating Pratimarsha nasya regular with Anutaila nasal pathology is corrected local hygiene gets improved and allergic reactions are controlled. There is reduction in crush formation direct attack of allergens on nasal mucosa. Hence the Anutaila can be drug of choice to reduce the disease and to prevent the recurrence of respiratory disease.

CONCLUSION
1. The Pratimarsha nasya is very simple procedure which is cost effective and can be employed easily by the person of all age group and in any season without any complication.
2. Anutaila has tridosha nashana, balya, bruhan and rasayan properties which may help to increase local immunity.
3. Pratimarsha nasya should be used twice daily for enhancement of respiratory immunity which prevents various respiratory disorders, will be helpful in covid also.

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