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#### Research Article

# A CLINICAL STUDY ON EFFECT OF *SNEHANA NASYA* IN *VISHWACHI* W.S.R TO CERVICAL SPONDYLOSIS

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#### **ABSTRACT**

Vishwachi is one among the Vataja Nanatmaja Vyadhi. It affects the neck and upper extremities with signs and symptoms like Ruk, Stambha, Toda, Karmakshaya and Chestapaharana of Bahu as explained by different Acharyas. Dalhana opines that the condition resembles Gridhrasi which affects the lower limb, and is of two types, Vataja and Vatakaphaja. The clinical presentation of Vishwachi is similar to that of Cervical Spondylosis which is a degenerative condition of the cervical spine. Being an Urdhwajatrugatavikara, Nasya karma has been mentioned as the prime line of treatment. Dhatukshaya can be considered as main factor leading to a condition like Vishwachi. Hence in order to find an effective solution in this condition, Snehana Nasya with Shuddhabala Taila has been taken for the study.

**Objective:** To evaluate the effect of *Snehana Nasya* in *Vishwachi*. **Methods:** It is an open label single arm clinical trial with pre-test and post-test design. A special proforma was prepared considering history taking, physical examination and assessment needed for the condition. The study was carried out in 30 patients of *Vishwachi*. *Nasya karma* was done by instilling 16 *Bindu* of *Shuddhabala Taila* for 7 days. Data was collected on the 1st day before treatment and 7th day after treatment. **Results:** The reduction in severity of symptoms was statistically analysed by Wilcoxon sign rank test. Significant improvement was found in all the patients. **Conclusion:** Analysis of overall effect of the treatment showed significant results. Hence *Nasya karma* with *Shuddhabala Taila* was found to be effective in *Vishwachi*.

KEYWORDS: Vishwachi, Cervical Spondylosis, Snehana Nasya, Shuddhabala Taila.

#### INTRODUCTION

We all know how it is like to feel pain. Its unpleasantness can take many forms, whether it's the daily ache of arthritis or a throbbing headache. In this era of fast life, man has changed his life style to a great extent and created a disharmony in our biological system. Disease manifests in such conditions which will hamper the day to day activities of individuals.

Vishwachi is a disease affecting the neck and upper extremities having the signs and symptoms like Ruk, Stambha, Toda, Karmakshaya<sup>[1,2]</sup> and Chestapaharana of Bahu.<sup>[3]</sup> Dalhana opines that the disease resembles Gridhrasi and is of two types-Vataja and Vatakaphaja. In modern parlance the condition may be compared with Cervical Spondylosis.

Cervical Spondylosis is a degenerative condition of the cervical spine affecting the middle and old age group of both sexes. It leads to pain and stiffness in the neck, radiating pain to the arm, paraesthesia, numbness, headache, giddiness etc.

People can't perform day to day activities due to the severity of pain. The lifetime prevalence of the adult population was 48.5%, and the prevalence of screenusing workers was 55%.<sup>[4]</sup> M47.812 is a billable ICD code which is used to specify the diagnosis of spondylosis without myelopathy or radiculopathy in cervical region.<sup>[5]</sup> M47.22 is a billable/specific ICD-10-CM code that can be used to indicate a diagnosis of spondylosis with radiculopathy.<sup>[6]</sup> The main aim of treatment in this condition is to relieve the pain and hence analgesics are prescribed along with muscle relaxants and physiotherapy. Due to untoward effects of pain relieving drugs, people are approaching Ayurveda to find a better remedy for this condition.

Ayurveda is one among the most ancient medical sciences in the world. It describes the basics and applied aspects of life processes, health, disease and its management. There are specific principles of approach for each condition. *Vishwachi* is a *Vataja Nanatmaja Vikara*. Here the involvement of *Vata* in the clinical manifestation of *Vishwachi* is of prime

importance. Being an *Urdhwajatrugata Vikara*, *Nasya karma* is mentioned as a treatment in this condition.<sup>[7]</sup>

Nasya karma is one among the Panchakarma procedures done in the treatment of diseases pertaining to the *Urdhwajatru*. Ashtanga Sangraha has quoted "Nasa hi Shirasodwaram", meaning nose is the gateway to the Shiras (head). Shiras is considered as most important part of the body since it is the seat of five sense organs and the abode of Prana. Hence it is termed as the *Uttamanga*. While explaining the Phalashruti of Taila, Acharyas have said that Taila mitigates Vata and at the same time it does not increase the Kapha. Considering this aspect, and keeping in mind the beneficial effects of Nasya karma as to attaining a Ghanonnata skandha and Griva, Snehana Nasya karma has been taken for the study.

Therefore the present study was planned to evaluate the effect of *Snehana Nasya* with *Shuddhabala Taila* in *Vishwachi*.

# **Objectives**

To evaluate the efficacy of *Snehana Nasya* with *Shuddhabala Taila* in *Vishwachi*.

#### MATERIALS AND METHODS

#### Source of data

Patients who attended the OPD & IPD of *Panchakarma* at Ramakrishna Ayurvedic Medical College, Hospital and Research Centre, Bengaluru.

# Method of collection of data

#### Screening

The patients having signs and symptoms of *Vishwachi* were screened and those who fulfilled the below mentioned inclusion criteria were selected for the study.

# Diagnostic criteria

Patients presenting with *Pratyatma Lakshanas* of *Vishwachi* such as *Bahu Karmakshaya*, *Shoola* from *Bahuprushta* to *Anguli*, *Stambha*, *Bahushunyata* etc.

Patients presenting with symptoms of Cervical Spondylosis.

#### Inclusion criteria

- 1. Patients presenting with *Pratyatma lakshana* of *Vishwachi.*
- 2. Patients presenting with symptoms of Cervical Spondylosis.
- 3. Patient indicated for Nasya Karma.
- 4. Patients of either gender between age group of 30-60 yrs.

#### **Exclusion criteria**

1. Patients who are contraindicated for *Nasya Karma*.

- 2. Other systemic disorders which will interfere with the course of treatment.
- 3. Patients with traumatic injury of cervical spine.
- 4. Patients suffering from neoplastic and infective disorders.
- 5. Pregnant and lactating mothers.

#### **Investigations**

X - Ray of Cervical Spine - AP and Lateral views.

## Study design

The study was an open label, single arm clinical trial on 30 patients of *Vishwachi* selected using purposive (non-random) sampling technique with pre and post test design.

# Plan of study

# (A) Grouping

30 patients fulfilling the diagnostic and inclusion criteria were selected by convenience sampling method and were treated in a single group.

#### (B) Intervention

**Procedure employed:** Nasya karma with Shuddhabala Taila.

# Source and authentication of drug

The raw drugs were purchased from SNA Oushadhasla Pvt. Ltd, which is a GMP certified pharmacy and *Taila* was prepared as per the textual reference mentioned in *Sahasrayoga Taila-prakarana*.<sup>[10]</sup>

**Dosage of** *Nasya Karma*: As per Acharya Sushruta, the *Madhyamamatra* for *Snehana Nasya* is 1 *Shukti* (i.e., 32 *Bindu*).<sup>[11]</sup>

## Treatment plan

**Purva Karma:** Patients were advised to remain relaxed. *Abhyanga* was done to face and neck with *Murchita Tilataila*. *Tapa Sweda* (*Mridu*) was given with cloth dipped in hot water.

**Pradhana Karma:** Position of the patient: Supine with head end lowered. *Taila* is taken in a *Gokarnika* and made luke warm by keeping in a water bath. 16 *bindu* of *Shuddhabala taila* is instilled into each nostril in two to three doses by keeping the other nostril closed. Soles, palms, neck and ears are massaged. Nasal secretions were advised to be spitted out.

**Paschat Karma:** Kavala with Ushnajala. Special advice was given to patients to avoid exposure to wind, dust, smoke and direct sunlight. They were advised to use warm water for drinking or bathing along with intake of Laghu ahara.

**Duration:** 7 consecutive days.

**Follow up:** 7 days after completion of *Nasya Karma*.

#### Assessment criteria

Subjective and Objective Parameters include the clinical grading and standard scoring of signs and symptoms of the condition. These data were collected before the commencement of treatment and after the completion of treatment.

# **Subjective Parameters**

#### 1. Neck pain

Grade 0- No Pain

Grade 1- mild pain on exertion / occasional / relieved by rest

Grade 2- moderate pain / frequent pain / relieved on medication

Grade 3- continuous severe pain/intolerable

#### 2. Radiation of Pain

Grade 0- no radiation

Grade 1- radiation of pain from neck to any one arm present occasionally

Grade 2- radiation to any one arm continuously present

Grade 3- radiation to both arms occasionally present

Grade 4- radiation to both arms continuously present

## 3. Stiffness

Grade 0- no stiffness

Grade 1- mild stiffness

Grade 2- moderate stiffness

Grade 3- severe stiffness

#### 4. Weakness

Grade 0- no weakness

Grade 1- weakness in any one upper extremity

Grade 2- weakness in both upper extremities

#### 5. Paraesthesia

Grade 0- absent

Grade 1- present

6. Clumsy finger movements

Grade 0- no clumsy finger movements.

Grade 1- clumsy movements in any one extremity

Grade 2- clumsy movements in both extremities

#### 7. Vertigo

Grade 0- absent

Grade 1- present on neck movements or occasionally

Grade 2- present constantly

#### **Objective Parameters**

# 1. Tenderness over cervical region

Grade 0- no pain

Grade 1- patient complains of pain

Grade 2 – patient complains of pain and winces

Grade 3- patient winces and withdraws the affected part

Grade 4- patient will not allow palpation of affected part

## 2. Movements of the neck

Grade 0- all 6 movements painless or not restricted

Grade 1- any 1 movement painful or restricted

Grade 2- any 2 movements painful or restricted

Grade 3- any 3 movements painful or restricted

Grade 4- any 4 movements painful or restricted

Grade 5- any 5 movements painful or restricted

Grade 6- all movements painful or restricted

3. Reflexes

Grade 0- Absent

Grade 1- Diminished

Grade 2- Average

Grade 3- Exaggerated

Grade 4- Clonus, very brisk

#### **OBSERVATION**

Table 1: Age wise distribution

| 8         |                 |      |  |
|-----------|-----------------|------|--|
| Age-Group | No. of Patients | %    |  |
| 30 - 40   | 5               | 16.7 |  |
| 40 - 50   | 16              | 53.3 |  |
| 50 - 60   | 9               | 30   |  |

#### Table 2: Gender wise distribution

| Gender | No. of Patients | %     |
|--------|-----------------|-------|
| Male   | 16              | 53.3  |
| Female | 14              | 46.7  |
| Total  | 30              | 100.0 |

Table 3: Distribution based on duration of work

| Duration of Job (hrs) | No.of Patients | %    |  |  |
|-----------------------|----------------|------|--|--|
| 6                     | 2              | 6.67 |  |  |
| 7                     | 9              | 30.0 |  |  |
| 8                     | 12             | 40.0 |  |  |
| 9                     | 4              | 13.3 |  |  |
| 10                    | 2              | 6.7  |  |  |
| 11                    | 12PR           | 3.3  |  |  |

Table 4: According to Pradhana Vedana

| Symptoms                         | No. of Patients | %     |  |
|----------------------------------|-----------------|-------|--|
| Neck Pain & radiating pain       | 18              | 60.0  |  |
| Neck pain, Radiation + Stiffness | 12              | 40.0  |  |
| Total                            | 30              | 100.0 |  |

**Table 5: According to radiating side** 

| Radiating side | No. of patients | %    |
|----------------|-----------------|------|
| Rt. Upper limb | 9               | 30.0 |
| Lt. Upper limb | 11              | 36.7 |
| Both limbs     | 10              | 33.3 |

Table 6: Distribution based on other Lakshanas

|         | Parae | esthesia Clumsy finger movements Vertigo |    | Clumsy finger movements |    | <b>[0</b> |
|---------|-------|--|----|-------------------------|----|-----------|
| Present | 29    | 96.7 %                                   | 25 | 83.3 %                  | 12 | 40%       |
| Absent  | 1     | 3.33 %                                   | 5  | 16.7 %                  | 18 | 60 %      |
| Total   | 30    | 100.0                                    | 30 | 100.0                   | 30 | 100.0     |

**Table 7: Duration of complaints** 

| Duration          | No. of patients | %    |
|-------------------|-----------------|------|
| < 6 months        | 7               | 23.3 |
| 6 months – 1 year | 15              | 50   |
| 1 – 2 years       | 8               | 26.7 |

# Table 8: Neck flexion

| Flexion              | No. of Patients | %     |
|----------------------|-----------------|-------|
| Painful              | 16              | 53.3  |
| Painful + Restricted | 2               | 6.7   |
| Not Painful          | 12              | 40.0  |
| Total                | 30              | 100.0 |

# **Table 9: Neck extension**

| Extension            | No. of Patients | %     |
|----------------------|-----------------|-------|
| Painful              | 16              | 53.3  |
| Painful + Restricted | 2               | 6.7   |
| Not Painful          | 12              | 40.0  |
| Total                | 30              | 100.0 |

# Table 10: lateral flexion

| Lateral Flexion |                      | No. of Patients | %    |
|-----------------|----------------------|-----------------|------|
|                 | Painful              | 17              | 56.7 |
| Right           | Painful + Restricted | 7               | 23.3 |
|                 | Not Painful          | 6               | 20.0 |
| Painful         |                      | 20              | 66.7 |
| Left            | Painful + Restricted | 7               | 23.3 |
|                 | Not Painful          | 3               | 10.0 |

# Table 11: lateral rotation

| Lateral Rotation |                      | No. of Patients | %    |
|------------------|----------------------|-----------------|------|
|                  | Painful              | 15              | 50.0 |
| Right            | Painful + Restricted | 11              | 36.7 |
|                  | Not Painful          | 4               | 13.3 |
|                  | Painful Painful      | 15              | 50.0 |
| Left             | Painful + Restricted | 11              | 36.7 |
|                  | Not Painful          | 43              | 13.3 |

# Table 12: Reflexes

| Doflovos  | Alle 4 | Tubic 12i Keile |                 | %     |
|-----------|--------|-----------------|-----------------|-------|
| Reflexes  |        | 0,              | No. of Patients |       |
|           | Diaht  | Average/Normal  | 21              | 70.0  |
| Digons    | Right  | Diminished      | 9               | 30.0  |
| Biceps    | Left   | Average/Normal  | 21              | 70.0  |
|           | Leit   | Diminished      | 9               | 30.0  |
|           | Right  | Average/Normal  | 25              | 83.3  |
| Tricons   | Kigiit | Diminished      | 5               | 16.7  |
| Triceps   | Left   | Average/Normal  | 25              | 83.3  |
|           | Leit   | Diminished      | 5 16.7          | 16.7  |
|           | Right  | Average/Normal  | 30              | 100.0 |
| Supinator | Kigiit | Diminished      | 0               | 0     |
|           | Left   | Average/Normal  | 30              | 100.0 |
|           | Leit   | Diminished      | 0               | 0     |

# Table 13: tenderness

| Tenderness | No. of patients | %    |
|------------|-----------------|------|
| Present    | 23              | 76.7 |
| Absent     | 7               | 23.3 |

# **RESULTS**

The following tables show the effect of treatment in subjective parameters

Table 14: Effect of treatment on neck pain

| Pain | Min | Max | Mean | SD   | Z      | p-value   |
|------|-----|-----|------|------|--------|-----------|
| BT   | 2   | 3   | 2.70 | 0.47 | -4 932 | 0.000     |
| AT   | 0   | 1   | 0.43 | 0.38 | -4.932 | (< 0.001) |

BT- Before treatment, AT- After treatment, Min- lowest grade, Max- highest grade, SD – Standard Deviation, Z-test value

Table 15: Effect of treatment on radiation of pain

| Radiation of pain | Min | Max | Mean | SD   | Z      | p-value   |
|-------------------|-----|-----|------|------|--------|-----------|
| BT                | 1   | 4   | 2.43 | 1.01 | -4.865 | 0.000     |
| AT                | 0   | 1   | 0.30 | 0.18 | -4.003 | (< 0.001) |

# Table 16: Effect of treatment on stiffness

| Stiffness | Min | Max | Mean | SD   | Z      | p-value   |
|-----------|-----|-----|------|------|--------|-----------|
| BT        | 0   | 3   | 1.67 | 0.66 | 4.010  | 0.000     |
| AT        | 0   | 1   | 0.07 | 0.18 | -4.818 | (< 0.001) |

# **Table 17: Effect of treatment on weakness**

| Weakness | Min | Max | Mean | SD   | Z      | p-value   |
|----------|-----|-----|------|------|--------|-----------|
| BT       | 1   | 2   | 1.40 | 0.50 | 4.040  | 0.000     |
| AT       | 0   | 0   | 0.00 | 0.00 | -4.949 | (< 0.001) |

Table 18: Effect of treatment on paraesthesia

| Paraesthesia | Min | Max | Mean | SD   | Z      | p-value   |
|--------------|-----|-----|------|------|--------|-----------|
| BT           | 0   | 1   | 0.97 | 0.18 | -5.385 | 0.000     |
| AT           | 0   | 0   | 0.00 | 0.00 | -5.385 | (< 0.001) |

**Table 19: Effect of treatment on clumsy finger movements** 

| <b>Clumsy finger movements</b> | Min | Max | Mean | SD   | Z      | p-value   |
|--------------------------------|-----|-----|------|------|--------|-----------|
| BT                             | 0   | 1   | 0.83 | 0.38 | -5.000 | 0.000     |
| AT                             | 0   | 0   | 0.00 | 0.00 | -5.000 | (< 0.001) |

Table 20: Effect of treatment on vertigo

| Vertigo | Min 💉 | Max | Mean | SD                 | Z      | p-value |
|---------|-------|-----|------|--------------------|--------|---------|
| BT      | 0     | 1   | 0.40 | <mark>0</mark> .50 | 2.464  | 0.0005  |
| AT      | 0     | 0   | 0.00 | 0.00               | -3.464 | 0.0005  |

# Changes in subjective parameters during treatment

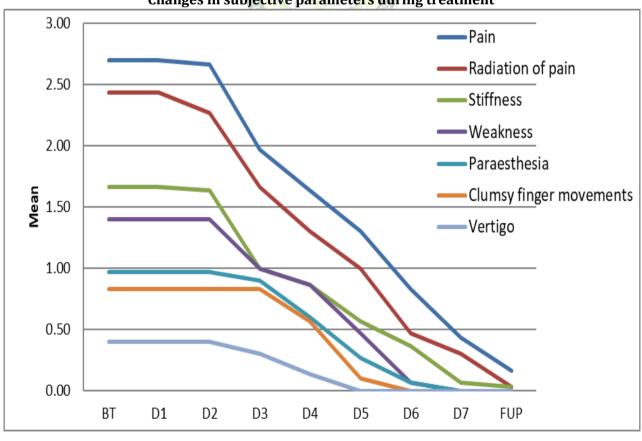


Table 21: Changes in mean scores during the treatment

|     | Tubic 21. changes in mean source and ing the treatment |                   |           |          |              |                         |         |  |  |  |
|-----|--|-------------------|-----------|----------|--------------|-------------------------|---------|--|--|--|
| Day | Pain   | Radiation of pain | Stiffness | Weakness | Paraesthesia | Clumsy finger movements | Vertigo |  |  |  |
| BT  | 2.70   | 2.43              | 1.67      | 1.40     | 0.97         | 0.83                    | 0.40    |  |  |  |
| D1  | 2.70   | 2.43              | 1.67      | 1.40     | 0.97         | 0.83                    | 0.40    |  |  |  |
| D2  | 2.67   | 2.27              | 1.63      | 1.40     | 0.97         | 0.83                    | 0.40    |  |  |  |
| D3  | 1.97   | 1.67              | 1.00      | 1.00     | 0.90         | 0.83                    | 0.30    |  |  |  |
| D4  | 1.63   | 1.30              | 0.87      | 0.87     | 0.60         | 0.57                    | 0.13    |  |  |  |
| D5  | 1.30   | 1.00              | 0.57      | 0.47     | 0.27         | 0.10                    | 0.00    |  |  |  |
| D6  | 0.83   | 0.47              | 0.37      | 0.07     | 0.07         | 0.00                    | 0.00    |  |  |  |
| D7  | 0.43   | 0.30              | 0.07      | 0.00     | 0.00         | 0.00                    | 0.00    |  |  |  |
| FUP | 0.17   | 0.03              | 0.03      | 0.00     | 0.00         | 0.00                    | 0.00    |  |  |  |

# Effect of Nasya karma on objective parameters

Table 22: Effect of treatment on tenderness

| Tenderness | Min | Max | Mean  | SD    | Z      | p-value  |
|------------|-----|-----|-------|-------|--------|----------|
| BT         | 0   | 2   | 0.867 | 0.571 | -4.564 | 0.000    |
| AT         | 0   | 0   | 0.000 | 0.000 | -4.304 | (<0.001) |

Table 23: Effect of treatment on neck movements

| Neck Movements | Min | Max   | Mean  | SD    | Z      | p-value  |
|----------------|-----|-------|-------|-------|--------|----------|
| BT             | 2   | 6     | 4.467 | 1.332 | 4.054  | 0.000    |
| AT             | 0   | 1 cAy | 0.067 | 0.254 | -4.854 | (<0.001) |

Table 24: Effect of treatment on reflexes

| Reflexes | Min | Max | Mean  | SD    | Z      | p-value |
|----------|-----|-----|-------|-------|--------|---------|
| BT       | 2   | 3   | 2.433 | 0.504 | 2.00   | 0.002   |
| AT       | 2   | 2 8 | 2.000 | 0.000 | -3.606 | 0.003   |

Changes in objective parameters during treatment

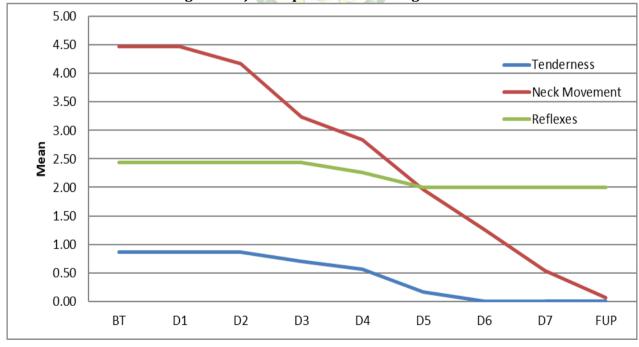


Table 25: Changes in mean scores during treatment

| DAY       | Tenderness | Neck Movement | Reflexes |
|-----------|------------|---------------|----------|
| BT        | 0.87       | 4.47          | 2.43     |
| D1        | 0.87       | 4.47          | 2.43     |
| D2        | 0.87       | 4.17          | 2.43     |
| D3        | 0.70       | 3.23          | 2.43     |
| <b>D4</b> | 0.57       | 2.83          | 2.27     |
| D5        | 0.17       | 1.97          | 2.00     |
| D6        | 0.00       | 1.27          | 2.00     |
| D7        | 0.00       | 0.53          | 2.00     |
| FUP       | 0.00       | 0.07          | 2.00     |

#### **DISCUSSION**

Vishwachi is a painful condition where the patient is unable to do his routine work because of impairment of the functions of upper limbs. Pain is sometimes seen at rest also and may be very intense and sudden. The Nidana and Samprapti are not explained separately in the classics. Being one of the 80 types of Vatavyadhi, the Samanya nidana and Samprapti of Vatavyadhi may be considered for Vishwachi also.

In Vishwachi, the Sira, Snayu and Kandara of upper limb are affected along with Dushti of Asthivaha srotas. Due to Vatavardhaka nidanas, the Vyanavayu originating from the Hrudaya, gets vitiated and circulates in the upper extremities and gets Sthanasamshraya in the Griva. Here it afflicts the Griva, Amsa, Bahu, Prakoshta and Hastatala producing severe pain in the Griva, radiating to the Amsa, Bahu and Hastatala. In Vatakaphaja type, there is involvement of Rasa dhatu also causing symptoms like Tandra, Arochaka, Agnimandya etc.

Symptoms of *Vishwachi* are described as *Bahu Karmakshaya* or *Chestapaharana* of *Bahu*. Symptoms like *Ruja, Toda, Stambha*, *Shunyata* are indicative of imbalance of *Vatadosha*. The involvement of *Kapha* produces symptoms like *Gaurava, Agnimandya, Mukhapraseka, Bhaktadvesha* etc.

The clinical presentation of *Vishwachi* is similar to Cervical Spondylosis which is a degenerative condition of the cervical spine. It is caused by age related changes in the intervertebral discs. Clinically, several overlapping and distinct symptoms are seen like neck pain, head ache, radicular symptoms and cervical spondylotic myelopathy. As degeneration occurs, osteophytic bars are formed on the ventral aspect of the spinal canal. The chief factors causing degeneration of intervertebral discs are age, manual labour, and minor trauma. Most of the patients are middle aged or older. There may be neck pain, medial scapular pain, shoulder pain or both along with stiffness.

Nasya karma, properly done bestows Ghanonnata Skanda and Griva. As Vishwachi is a disease pertaining to the Skanda and Griva, it is the best choice of treatment in this condition. Shuddhabala taila mentioned in Sahasrayoga Taila Prakarana finds an indication in Vatavyadhi. Hence this taila was used for the purpose of Nasya karma.

In the present sample of 30 patients, it was found that the highest number of patients of *Vishwachi* were in the age group of 41-50 years constituting 53.3% of the total number of patients. 30% patients were in the age group of 50-60 years and 16.7% were in the age group of 30-40 years. It is known that the incidence of the disease is common in the third, fourth and fifth decades of age. This tendency was seen in the study sample also.

40% of patients worked for 8 hrs a day. 30% worked for 7 hours, 13.3% worked for 9 hours, 6.7% of patients worked for 10 hrs. The longest duration was 11 hours and the shortest duration was 6 hours.

Assessment of the condition was done based on detailed proforma adopting standard scoring methods of subjective and objective parameters. The data collected from a single group was compared for pre and post-test values by statistical analysis. Results were expressed as mean, standard deviation and proportions. The data is checked for normality and found that it does not follow normality; hence non-parametric tests are used for analysis. To compare the effect of treatment, Wilcoxon Signed rank test is used. It is a non-parametric test analogue to paired t-test when data does not follow normality. statistical analysis showed significant improvement in all parameters and symptomatic relief was seen in all the patients included for the

Highly Significant results were seen in

- ✓ Neck Pain
- ✓ Radiation of Pain
- ✓ Stiffness

- ✓ Weakness
- ✓ Paraesthesia
- ✓ Clumsy finger movements
- ✓ Vertigo
- ✓ Tenderness
- ✓ Movements of the neck

Significant results were seen in

- ✓ Biceps reflex
- ✓ Triceps reflex

#### Mode of action

In Avurvedic literature it is stated that there is a very close relation between the Nasa and the Shiras. Acharva Charaka explains that Nasa is the dwara to the Shiras. Hence it may be said that the medication instilled through nostrils may reach the Shiras and thus act upon the aggravated doshas. The same opinion is given in Ashtanga Sangraha also which explains that the drug which is administered through the Nasa reaches the Shringataka Marma which is a Sira Marma formed by union of Siras supplying the Nasa, Karna, Akshi, Jihwa. Acharya Indu opines that it is located Shiraso Antarmadhyam, which can be considered as the middle cephalic fossa. The middle cephalic fossa is a region which is connected to the ethmoidal and sphenoidal sinuses. The sphenoidal sinus is inferiorly connected with the naso-pharynx and posterior with the brain stem. Route of administration of drug has its own importance in the management of any disease. From these references it may be concluded that Nasya karma is the most favorable treatment in conditions like Vishwachi.

Snehana Nasya brings about Snehana effect and provides strength to all Dhatus by virtue of its Dhatuposhaka property. It gives strength to neck, shoulder and chest and improves eyesight. Vishwachi is a Vatavikara which occurs due to Dhatukshaya (degeneration) in the Greevakasherukasandhi (cervical vertebrae & intervertebral discs). Bringing about Dhatuposhana in this condition can be best done by instillation of Vatashamaka oushadha through the nostril. This was achieved by Snehana Nasya done using Shuddhabala Taila.

The importance of *Purvakarma* in *Nasya karma* is to facilitate for drug absorption through nasal mucosa and paranasal sinuses. The *Abhyanga* and *Swedana* to face and neck improve the blood circulation to the head. The drug administered reaches the upper part or nasal cavity and stimulates the olfactory neurons and provides a better chance of absorption.

Taila mitigates Vata and at the same time it does not increase the kapha. Shuddhabala Taila mentioned in Sahasrayoga Taila Prakarana finds an

indication in Vatavyadhi. The ingredients of the Taila are Madhura and Tikta rasa pradhana. They have Laghu and Snigdhaguna, Ushnavirya *Madhuravipaka*. By virtue of its *Madhura rasa*, Madhura Vipaka, Ushnavirya and Snigdhaguna acts and reduces pain Vatadosha bv Vedanashamaka properties. The Ushnavirya and Tikta rasa dravyas are Kaphashamaka. The Balya and Brumhana properties of these drugs bring about Mamsadhatuposhana thereby improving functional ability of the Bahu. Moreover Madhura and Tikta rasa dravyas gives bala to the Asthidhatu. Tila taila plays a major role in this action. By the virtue of these properties they act as Vatakaphashamaka thereby relieving the symptoms of *Vishwachi*.

#### CONCLUSION

- *Vishwachi* and cervical spondylosis have similarity in etiology and clinical presentation.
- Patients in their fourth and fifth decade of life are the most affected.
- Working for long hours, sitting or lying in uncomfortable postures was found to be aggravating the condition.
- Nasya karma (Snehana variety) proved to be very effective in this condition.
- All subjective and objective parameters showed remarkable response to the treatment.
- The results obtained were statistically significant with p<0.05 for the objective parameters and p<0.001 for the subjective parameters.
- During the follow up period, the results attained remained sustained and no major reversals of symptoms were noted.
- Symptomatic relief was seen in all the patients and no reversals of symptoms were noticed. Hence it may be concluded that *Snehana Nasya* is an effective management in *Vishwachi*.
- The main aim of the study was to check neurological deterioration, prevent further progression of the condition and to give symptomatic relief to the patient thereby to develop a feeling of well-being.
- The prevalence of disease has been increasing due to improper life style, poor working, sitting and sleeping postures. Postural correction during work, travel and sleep coupled with regular exercises along with treatment can do a long way in preventing age related changes in a premature stage.

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