



# Role of Different *Basti* in the Management of *Gridhrasi* w.s.r to Sciatica: A Review

**Author: Mohita Bohra**<sup>1</sup>

<sup>1</sup>Deptt. of Panchakarma, Himalayiya Ayurvedic Medical College and Hospital, Dehradun, UK, India

# **ABSTRACT**

There is an enormous description of *Vata* disorders and their management in Ayurvedic texts. *Gridhrasi* is described among *Vataja Nanatmaja* disorders, whose symptoms correlate with Sciatica. Sciatica is among the commonest reason for low back pain which is a major health and socio-economic burden in the present era. Early diagnosis of the disease results in a better prognosis, as the disease gets older it may lead to serious disabilities. Ayurveda holds a lot of options in the form of oral treatment, external and internal purification therapies. Basti therapy is the most widely prescribed treatment for sciatica as it is the best treatment for *Vata* disorders. Various decoction and oil enemas are mentioned in classical texts which can be chosen according to the involvement of *Dosha* and symptoms appearing

Key Words Gridhrasi, Sciatica, Vata disorders

# Received 07<sup>t</sup> June 22 Accepted 11<sup>th</sup> August 22 Published 10<sup>th</sup> September 2022

# INTRODUCTION

*Nanatmaja Vata* disorders (diseases only due to vitiated *Vata*) according to Acharya *Charaka*<sup>1</sup>, who has also mentioned its types as- *Vataja* and *Vata-Kaphaja*<sup>2</sup>. Acharya *Susruta* has also considered it as a *Vataja* disorder and given its description in *Vatavyadhi nidana* chapter. Acharya *Vagbhatt* has also included it among eighty *Vataja* disorders. The word *Gridhrasi* originated from the root '*Gridhra*' which means the bird vulture. Due to pain, the gait of the patient becomes similar to that of the vulture. Considering the cardinal symptoms which are *Ruka* (pain), *Toda* (pricking sensation), *Stambha* 

(stiffness) and Muhurspandana (twitching) in the waist, hip, back of the thigh, knee, calf region and foot respectively, it can be best correlated to sciatica. Sciatica is defined as pain along with the course of the sciatic nerve which is felt in the back of the leg running from the buttock down to the back of the thigh into the calf and foot<sup>3</sup>. It is a symptom that arises due to compression or inflammation of the sciatic nerve. Low back pain is the most frequently reported musculoskeletal problem in elderly adults, can be said as the most common job-related disability. And almost 5-10% of people with low back pain have sciatica<sup>4</sup>. Pain is not only the issue in this disease but it also affects the walking ability and posture of the patient, which degrade working abilities and in





severe form interferes with daily routine also. Most of the sciatic nerve problems are temporary naturally or with conservative and heal medication and exercise, but in some cases, it leads to a more serious and long-lasting health impact so, care should be taken at the earliest to prevent further nerve degeneration. WHO also reported that low back pain including sciatica is a major health and socio-economic burden in the present era<sup>5</sup>. Ayurvedic purification and palliative treatment can provide a good cure for this disease and aid in decreasing the burden of this health issue from society. Gridhrasi being a Vata disorder, the general line of treatment of Vata alleviation is followed. Snehana (oleation), Swedana (sudation therapy), Mridu Shodhana (purification procedures), Basti (enema therapy), Siravedha (venepuncture), Agnikarma (thermal cauterization) are advised. Basti, Siravedha, Agnikarma are considered as the prime treatment of *Gridhrasi* by almost all Acharyas.

Specific causative factors of this disease are not mentioned in texts but as it is mentioned under disorders due to *Vata* so, all the *Vata* aggravating factors are considered as the causative factor. Two types are mentioned by Acharya *Charaka* as *Vataja* and *Vata-Kaphaja*. The main symptoms of Vataja are- Ruk (pain), Toda (pricking sensation), Stambha (stiffness) and Muhuspanadana (intermittent twitching) in the regions of Sphik (waist), Kati (upper back), Prishtha (low back), Uru (thigh), Janu (knee), Jangha (calf) and Pada (foot) in order. Tandra (drowsiness), Gaurava (heaviness) and Arochaka (anorexia) are in addition to Vata-Kaphaja type. Acharya Susruta has mentioned a symptom-Sakthikshepa Nigraha which means inability to lift the leg, this features directly correlates with positive SLR test in sciatica. Acharya Madhava has mentioned specific symptoms of two types of Gridhrasi i.e. Dehasya Pravakrat (Sciatic scoliosis) in Vataja Mukhapraseka type, (excessive salivation) and Bhaktadvesha (aversion to food) in *Vata-Kaphaja* type.

Basti is the best treatment to pacify Vata. Along with curative aspects like-relieving pain and stiffness, contractions and adhesions, effective in paralytic conditions, dislocations and fractures, it also has preventive actions like- providing a better life, improving strength, digestive power, voice and complexion<sup>6,7</sup>. Different types of Basti are indicated according to the involvement of Dosha and Dushya.

# DIFFERENT BASTI IN THE MANAGEMENT OF GRIDHRASI (~SCIATICA):

The references of various *Basti* indicated in *Gridhrasi* are collected from major ayurvedic texts and data of clinical studies performed are collected from articles published in reputed journals which are available online.

Gridhrasi has its origin in Pakwashaya (large intestine), as it is a Vata disorder and its seat is around waist and back. Basti can be the best mode of drug administration due to its action on Vata Dosha. Charaka mentions that Basti by reaching up to the umbilical region (transverse







colon), sacroiliac region (rectum), flanks and hypochondriac regions (ascending and descending colon) and churning of the fecal and morbid matters present therein and at the same time by spreading its unctuous effect in the whole body, draw out the fecal and morbid matter with ease<sup>8</sup>. Vagbhatta describes that the potency of Basti is conveyed to Apana and Samana Vata which regulate the function of Agni (digestive factor), then to *Udana*, *Vyana* and *Apana* thus providing its efficacy all over the body. At the same time this effect of Basti by specifying Vata restores the displaced Kapha and Pitta at their original seats<sup>9</sup>. The control gained over *Vata* leads to the breaking of the pathogenesis of Gridhrasi.

- **1.** *Niruha Basti* (**Decoction enema**): This *Basti* is generally indicated in *Kapha-Vataja* and *Kaphavritta Vata* conditions. Some common types of *Niruha Basti* used in *Gridhrasi* are discussed here-
- a) Erandmooladi Basti- This Basti is indicated by Acharya Charaka specifically for pain and stiffness caused by Vata-Kapha in the lower back, waist, hip, and leg region<sup>10</sup>. This Basti contains total of 34 drugs. The main ingredients of Basti are- Madhu (honey), Saindhava lavana (rock salt), Til tail (sesame oil), paste of various Vata-kapha alleviating herbs, decoction drugs (Erand-mula, Palash, Laghu Panchmula, Rasna, Ashwagandha, Atibala, Guduchi, Punarnava, Argvadha, Devdaru, Madanphala), cow's urine. Majority of drugs present in Basti are Vata-Kapha alleviating. This Basti is also told as

Dipana (enhancing metabolic fire) and Lekhana (scraping action) which pacifies Kapha and reduce symptoms like- heaviness and stiffness. The main content Erand (Ricinus communis) is told as best Vata alleviator by Acharya Charaka. It also possesses anti-inflammatory, analgesic, anti-oxidant and bone regeneration activity<sup>11</sup>. Also, other main contents- Laghu-Panchmool, Palash have anti-inflammatory, analgesic and nerve regeneration properties. Clinically, it is one of the most prescribed Basti in Gridhrasi and has effective proven very in managing the symptoms<sup>12</sup>.

- b) Vaitaran Basti- This is mentioned in Niruha Adhikar by Acharya Chakrapani<sup>13</sup>. It is specifically indicated in Aam-vata, Shula, Anaha. Vaitaran basti is a type of decoction enema in which Guda (jaggery) is used in place of honey, Chincha (tamarind) as paste and cow urine in place of decoction. Acharya Vangasen indicated this basti in Stambha, Kati-Ansha-Pristha shotha, Shula, Gridhrasi, Janu Sankocha, Urustambha, Klaibya, Vishama Jwara<sup>14</sup>. The addition of cow's urine and tamarind paste make Basti Ushna-Tikshana (hot in potency and quick in action), due to which it is indicated in aggravated Kapha conditions (Utlikshta and Kaphavritta Vata).
- c) *Ksheer Basti* Basti with a substance such as milk, *ghee*, and *tikta dravya* is best suitable for the *Asthi pradoshaja vikara*<sup>15</sup>. *Panchtikta Ksheer Basti* can be a good choice in the management of *Gridhrasi*. This Basti contains *Guduchi* (*Tinospora cardiofolia*). *Nimba* (*Azadirakta indica*), *Vasa* (*Adhathoda vasica*), *Kantakari* September 10<sup>th</sup> 2022 Volume 17, Issue 2 **Page 35**







(Solanum Surrattense), Patola (Trichosanthes dioica), Ksheera (milk), Goghrita (ghee), Madhu (honey), Saindhava (salt). Basti is best for disorders due to Vata and Tikta rasa drugs are beneficial for Asthigata Vata. As Tikta drugs are Aakash-Vayu Mahabhoot dominant so they have an affinity towards Asthi dhatu which is also Vayu-Aakash dominant. Acharya Charaka has also indicated Tikta-ksheer basti in Asthidhatu dushti. Milk present in Basti contains Vitamin D, Calcium, and Phosphorus which provide strength to bone tissues. This Basti drugs due to their Dipana, Jwaraghna action reduces inflammation around the nerve and the presence of milk and Tikta drugs promote healthy bone tissue formation and limit bone degeneration and osteoporosis, thus maintaining a healthy state of vertebrae. In a clinical study, this basti was found useful in relieving pain, tenderness, stiffness and increasing the range of motion<sup>16</sup>.

d) Erand-muladi yapana Basti- This Basti is told by Acharya Charaka. The main ingredients of this Basti are: decoction drugs- (Erand Mula, Rasna, Bala, Devdaru, Sahachar), Kalka drugs Vacha, (Madanphala, Musta, Pippali, Punarnava, Sarshapa), sesame oil, rock salt, honey and cow's milk. Most of the contents are Vata-Kapha pacifier and having hot potency. Clinically this *Basti* affects symptoms - *Kati* graha (back stiffness), Kati shula (back pain), Sparsha asahyata (tenderness), Gridrasivat Pida (sciatic pain), Straight Leg Raise (SLR) test, Pada harsha (tingling sensation in feet), Pada gaurava (heaviness in feet), Mamsa bala kshaya (decreased muscle strength), *Gamane kashtata* (difficulty in movements)<sup>17</sup>.

- 2. Anuvasana/Matra basti (oil enema): This Basti is generally indicated in pure Vata condition. Oil used in basti is considered to have the best Vata alleviating property. Snigdha, Guru and Ushna properties of oil destroy Ruksha, Laghu and Sheeta properties of Vata respectively. Some commonly used Anuvasana Basti in this disease are-
- Sahacharadi Tail Anuvasana Basti-Sahacharadi Tail is indicated in treatment of Acharya Vagbhatt<sup>18</sup>. disorders by Ingredients of this oil are- Sahachara (1 part), Devdaru (1 part), Nagara (1 part) and Til Tail (4 part). All the drugs are hot in potency and Kapha-Vata pacifier. Sahachara, Nagara, Devdaru have Vedanasthapak (pain-relieving) and *Shothara* (anti-inflammatory) properties which help to relieve pain and inflammation of the sciatic nerve. Matra Basti with this oil causes reduction in pain, stiffness, pricking sensation, active and passive SLR test and lumbar movement<sup>19</sup>.
- b) *Prasarini Tail Anuvasana Basti* This oil is indicated in the disease *Amavata* in *Bhaishajya Ratnavali*<sup>20</sup>. The contents are- *Erand tail* and *Gandhaprasarini*, which alleviate *Vata-Kapha* and also relieve pain. This *Basti* is indicated in conditions where mild *Kapha* or *Ama* is associated with *Vata*. On clinical administration, this Basti provided better relief in symptoms like *Arochaka* (anorexia), *Stambha* (stiffness), *Spandana* (twitching) and *Tandra* (lethargy)<sup>21</sup>.

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c) Dhanvantar Taila Anuvasana Basti-Dhanvantar Taila is given in Sahasrayoga Taila Prakarana, mainly advised in various Yoni Roga (gynecological disorders) and Vata disorders. The main contents of this oil are- Dashamoola, Ashtavarga, Bala, Yava, Kola, Kulthi, Devadaru, Rakta Chandan, Sariva, Tagar, Shaileya, Agaru, Vacha, Punarnava, Shatavari, Triphala, Ela, Dalchini, Tejpatra, cow milk and sesame oil. Almost all the drugs used are *Vata* pacifying and Balya (nourishing). Drugs like Amla (Emblica found officinalis) are to be having chondroprotective action inhibiting the activities of hyaluronidase and collagenase type 2 in vitro in degenerative bone and joint disorders<sup>22</sup>. A recent study showed that Dhanwantar Kashaya increased the proliferation rate, decreased the turnover time and also delayed senescence by its action on the Wharton jelly mesenchymal stem cells (WJMSC). It improves the yield and quality of stem cells in vitro<sup>23</sup>. Hence, it can prove as an effective drug to treat conditions with cell damage and degeneration such as sciatica when used in the form of oil. Anuvasana Basti with this oil can be used in Vataja Gridhrasi where Dhatu kshaya (diminution of body tissue elements) has started and disease has reached in the chronic stage.

d) Bala Taila Anuvasana Basti- Bala Taila is described in the chapter Vatavyadhi Chikitsa by Acharya Vagbhatt in Ashtanga Hrudayam. The main ingredients of this oil are- Bala, Chhinaruha, Rasna, Goat milk, Mastu, Ikshurasa, Shukta and 46 other drugs such as-

Jivaka, Rishabhaka, Yashtimadhu, Vacha, Musta, Padmaka, Chandan, Ela, Devdaru, Manjishtha, Agaru, Twak, Kumkum, Kankol, Kushtha, Priyangu, Nagkeshara, etc. and Tila taila. It is described by Acharya Vagbhatt to be best destroyer of *Vataja* diseases<sup>24</sup>. The main content, Bala (Sida cordifolia) has an anti-peroxidative and anti-inflammatory effect on neurotoxicity<sup>25</sup>. The other important content Chhinnaruha (Tinospora cordifolia) has an anti-inflammatory effect on cotton pellet granuloma and formalininduced arthritic models. It also exhibited an antiinflammatory effect in both acute and subacute models of inflammation and was found to be more effective than acetylsalicylic acid in acute inflammation<sup>26</sup>. Another important content Rasna contains triterpene which attenuates proinflammatory cytokines on Lipopolysaccharide stimulated neuro-inflammatory conditions<sup>27</sup>. This way the combined effect of Bala Taila Basti results in neuroprotective, regenerative and antiinflammatory effects on disorders like Sciatica.

# **DISCUSSION:**

Gridhrasi being Vata prominent disorder, Basti serves the best treatment modality for this. Its action is not only limited to Vata Dosha but also Pitta, Rakta and Kapha Dosha. So, it is designated as half treatment (Ardhachikitsa). In Gridhrasi, Vata specifically Apana and Vyana Vayu abnormality is found. Large intestine is the natural place of Vayu and Basti pacifies the vitiated Vata in its main place by which Vata dwelling in other parts of the body automatically





comes in a balanced state. Basti cleanses whole intestine and increases its absorption capacity thus; the absorption of important micro and macronutrients like sodium, potassium and Vit-B12 which are necessary for functions of nerves is also increased. Through proper cleansing of the colon, removes unwanted bacteria and creates an environment for the development of healthy gut flora. These friendly bacteria help in the synthesis of Vitamin B and K which is essential for the maintenance and functioning of the nervous system. In chronic conditions, radiculopathy changes start in the Sciatic nerve which further worsens the condition of the patient. Basti can help by limiting development of those changes. Drugs used in Basti also have Vata and Kapha pacifying action which are the main Dosha involved behind the disease, they also possess properties like analgesic, anti-inflammatory, bone tissue remodeling and preventing nerve degeneration.

# **CONCLUSION:**

Basti not only relieves the symptoms, it helps in curing the disease by breaking the pathogenesis and also prevents future complications. Type of *Basti* need to be chosen according to *Dosha* involvement, symptoms and condition of the patient. Different patterns of *Basti* i.e *Karma*, *Kaal* and *Yoga* are chosen according to chronicity and severity of the disease. *Niruha Basti* is advised in *Vata-Kaphaja* condition and *Anuvasana* or *Matra Basti* is advised in pure *Vatika* conditions. In almost every study carried

out to date, *Basti* treatment provided better relief in symptoms as compared to oral medicine and the best results were obtained when *Basti* treatment is combined with oral drugs. This article is a compilation of various Basti indicated especially for this disease in classical texts and are further verified by clinical study. Other *Basti* can also be prescribed according to signs and symptoms, as advised by the physician.

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