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GRIDHRASI (SCIATICA) – A LITERARY REVIEW

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ABSTRACT

Ayurveda is a simple, practical science of life whose principles anyone can apply to lead a happy, healthy existence. Ayurveda addresses a wide range of topics related to human life and provides guidance to those seeking greater tranquility, harmony, and longevity—a counsel that has been tried, tested, and refined over many years. Gridhrasi is considered a Mahagada by Acharya Charaka, and it is included in both Vataja and Nanatmaja Vyadhi. Although Nidana is included in Vataja Nanatmaja Vyadhi along with generic Vata Prakopaka Hetus, which should be taken into consideration, it is not particularly stated in any Ayurvedic text. There are several biochemical imbalances as a result of the evolving lifestyle of the modern person. Low back pain and sciatica are greatly influenced by a number of factors, including the growth of a busy, professional, and social life, bad sitting posture in factories and workplaces, frequent, excessive activity, jerky movements when traveling and participating in sports, and other

reasons. We looked into *Gridhrasi* (sciatica) from both an *Ayurvedic* and a modern standpoint in our review essay.

KEYWORDS: Ayurveda, Gridhrasi, Mahagada, Sciatica.

INTRODUCTION

These days, people's lifestyles are steadily moving away from healthy ones, which leads to an increase in the prevalence of numerous ailments. Stress, poor posture, abrupt movements all day long, extended travel, and sedentary lifestyles place the most strain on the bottom part of the pelvis and spine. Among senior adults, low back pain (LBP) is the most commonly

reported musculoskeletal issue.

Gridhrasi, according to the *Samhitas*, is a *vatvyadhi*. The disease known as *Gridhrasi* is caused by an exacerbated *vata* that invades the *kandras* of the ankles and toes and causes *ksepa* (pain and inability to extend) in the thighs.

The prevalence of *Gridhrasi*, varies widely and can range from 10% to 40% over a lifetime. Annual incidence varies from 1% to 5%. In Working population it is 3.8% while it is 7.9% in non-working population.

DEFINITION OF GRIDHASI

Gridhrasi is a *Vata Vyadhi* characterized by *Stambha* (stiffness), Toda (pricking pain), *Ruk* (pain) and *Spandana* (frequents tingling). These above mentioned *Lakshana*'s initially affect *Sphik* (buttock) as well as posterior aspect of *Kati* (waist) and then gradually radiates to posterior aspects of *Uru* (thigh), *Janu* (knee), *Jangha* (calf) and *Pada* (foot).^[1]

SCIATICA

Sciatica is characterized by Pain radiating from the back into the buttock & into the lower extremities along its posterior or lateral aspect & most commonly caused by prolapsed Inter Vertebral Disc, the term is also used to refer, pain anywhere along the course of Sciatic Nerve.^[4]

PARYAYA OF GRIDHRASI

The synonyms of gridhrasi are as follows

- **1.** *Ringhini* This word is used by *Vachaspati misra* to denote *Gridhrasi*. The implication of which is *Skhalana* according to the *sabdakalpadruma*; which means displacement of particularly a *phichila* substance.^[3]
- **2.** Randhrinee Dalhana represents a weak point or rupture of a material which quotes Gridhrasi. [4]
- **3.** *Radhina* The word is used by *Kasirama and Aadamalla* in their *Gudhartha Deepika* and *Deepika* commentary on *Sharangadhar Samhita*^[5] which means pressing, compressing or destroying. In this context, compression of sciatic nerve root leading to ridiculer pain may be most appropriate.

NIDANA OF GRIDHRASI^[6]

In *Gridhrasi* specific *Nidana* has not been mentioned. The general causes of *Vata Vyadhi* are considered as the causes of *Gridhrasi* because it is considered in 80 *Nanatmaja Vata Vyadhi*.

All the etiological factors of *Vata Vyadhi* as well as *Vata Prakopa* are taken as *Nidana* of *Gridhrasi* -

A) Aharaja Nidana

Ruksha, Sheeta, Laghu Anna, Alpa Anna, Katu, Tikta, Kashaya Rasa, Langhana, Abhojana.

B) Viharaja Nidana

Ativyayama, Ativyavaya, Atiprajagara, Vishama Upachara, Plavana, Atiadhava, Diwaswapna, Vegadharana etc.

C) Manasika Nidana

Chinta, Shoka, Krodha & Bhaya.

D) Anya Hetuja

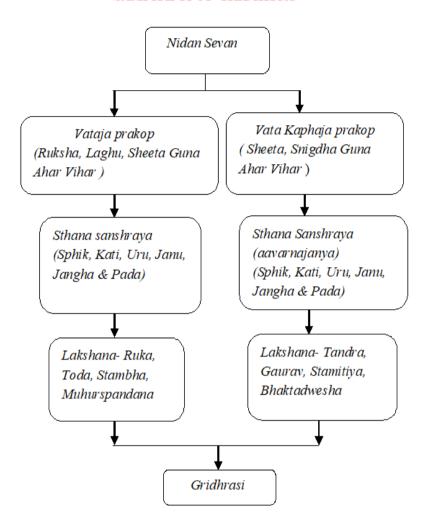
Ati Asruk Sravana, Dhatukshaya, Varshartu, Marmabhighata, Margavarana, Rogatikarshana etc.

PURVAROOP

In classics the description regarding the *Purvarupa* of *Gridhrasi* is not available. Acharya's has mentioned that *Avyakta Lakshana* are the *Poorvaroopa* of *Vata Vyadhi*. *Chakrapanidatta* commenting on the word *Avyakta* mentions that few mild symptoms are to be taken as the *Poorvaroopa*.^[7] So, symptoms of *Gridhrasi* like *Ruk*, *Toda*, *Stambha* & *Spandhana* are seen in mild form.

TYPES OF GRIDHRASI

- 1) Vataja Gridhrasi
- 2) Vatakaphaja Gridhrasi.



SAMPRAPTI OF GRIDHRASI

RUPA OF VATAJA GRIDHRASI

- *Ruka* (Pain)- As one of the primary symptoms of *Gridhrasi*, *Charaka* emphasises pain. *Chakrapani* offers his opinion on this, saying that this discomfort initially affects the hip (*Sphika*), moving on to the waist (*Kati*), back (*Pristha*), thigh (*Uru*), knee (*Janu*), calf (Jangha), and foot (*Pad*), in that order. This discomfort is undoubtedly present along the sciatic nerve's distribution path.
- *Toda* (**Pricking sensation**)- This symptom has been noted by *Madhava and Charaka*. The pain is prickling in nature and may run the length of the sciatic nerve distribution. The indications and symptoms of sciatica caused by a lesion in the fifth lumbar root are mentioned in modern medicine, along with the possibility of sensory impairment in the foot.

- *Stambha* (Stiffness)- According to *Charaka*, a *Gridhrasi* sufferer experiences stambha in the area that is affected. *Stambha* is a sensation of rigidity or tightness throughout the entire leg. The person attempts to move as little as possible because of the pain. As a result, this kind of *Stambha* is felt and the muscles in the leg become tight. Even though the patient is able to walk, he may still be limited in his ability to fully move the affected limb as a result of this symptom. That happens as a result of *Vata's Sheeta Guna*.
- *Muhurspandana* (Twitching)- *Muhurspandana* is the experience of anything throbbing or pulsing. This also happens along the *Gridhrasi Nadi* (sciatica nerve) distribution, which runs from the hip to the *Jangha* (calf).
- Sakthanaha Kshepanam Nigrhaniyat (SLR Test)- In response to this symptom being stated by Sushruta, Kapha is another name for prasarana (extension). The patient must maintain their legs even though the agony is getting worse.
- *Deha Pravakrat* (Sciatic scoliosis)- These *Gridhrasi* symptoms, which include lateral or forward body bending, were mentioned by *Madhava*. Due to pain, the patient tries to maintain a flexed limb, bears weight on the healthy leg, and adopts a standard posture. [8,9,10]

RUPA OF VATKAPHJA GRIDHRASI^[11]

- *Tandra*: *Tandra* is one of the symptoms of the *Gridhrasi* caused by *Vatakapha*.. *Acharyas* opine that *Tandra* is the outcome of the vitiated *Vata and Kapha*. In the case of *Gridhrasi* also it can be said that domination of *Vata* and *kapha* causes *Tandra*. *Charaka* gives the causative factor of *Tandra* like food substances having the qualities like *Madhura*, *Snigdha*, *Guru* etc. and some mental factors are *Chinta*, *Shoka* etc. it can be observed that the ultimate result of the above is the vitiation of *Vata and Kapha*.
- *Gaurava: Gaurava* is the feeling of heaviness of the body. Heaviness is the quality of *Kapha*. So when the *Kapha* is vitiated in the *Vata Kaphaja* type of *Gridhrasi*, *Gaurava* occurs. Only *Charaka* has mentioned this symptom and others have not included it.
- Arochaka: Charaka, Madhava and Bhavaprakasha have mentioned Arochaka as a symptom of Gridhrasi. It is a subjective symptom where patient loses the taste but appetites remains intact. Comparing to Vata it seems that Kapha has the more roles in

manifestation of Arochaka because the seat of Bodhaka Kapha is Jiwha (Tongue). So it is clear that this symptom is due to the vitiation of Kapha especially Bodhaka Kapha.

- Agnimandhya: Agni is usually referred to as the state of Pachaka Pitta of the body. When affected by the vitiated Kapha, the Pachakapitta fails to perform its normal function. This may be due to the antagonist properties of the *Pitta and Kapha*. So in the case of Gridhrasi also where Kapha is dominant, role of Ama must be taken into consideration. Agnimandya leads to the formation of Ama which in turn produces further Agnimandya.
- Mukhapraseka: Mukhapraseka is caused by the vitiated Kapha. In Madhavanidana and Bhavaprakash, Mukhapraseka has been mentioned in Vatakaphaja type of Gridhrasi. Vata may have a little role to play in case of Mukhapraseka. Praseka has been mentioned due to the involvement of Ama by some Acharyas. In nutshell it can be said that Mukhapraseka is caused by the involvement of Kapha and Ama.
- **Bhaktadewasha:** This symptom is also produced due to the involvement of Kapha and Ama. Here the patient shows aversion towards the food substances in general. Both Madhavanidana and Bhavaprakash have mentioned this symptom in the type of Vatakaphaja Gridhrasi.
- Stamitiya: This symptom is described by Harit only. Staimitya means frozen sensation. Due to Kapha vitiation patient feels like some wet cloth has been wrapped around the limb.

SADHYA- ASADHYTAV OF GRIDHRASI

It explains that *Vata Vyadhi*, which lasts more than a year or is chronic, is difficult to treat or is deemed incurable (Asadhya). [12] The Acharya regards Vata Vyadhi as Mahagada [13] because of its tendency to be lethal or irreversible. Furthermore, he states that Vatavyadhi is the cause if the patient experiences consequences like Adhmana (tenderness and distention of Suptatvacha the belly), Bhagna (fracture), (tactile senselessness), Shunam (edema/inflammation), and pain in the internal organs. [14]

CHIKITSA SUTRA OF GRIDHRASI^[15,16,17]

Gridhrasi is one of the Nanatmaja Vata Vyadhi. The general treatment of Vata Vyadhies can

be applied. Some Acharya have mentioned some specific line of management of it.

- 1. Snehana
- 2. Swedana
- 3. Vamana
- 4. Virechana
- 5. Basti
- 6. Siravedh
- 7. Agnikarma
- 8. Sanshaman

1. Snehana

In the case of *Gridhrasi*, *snehana*, or oleation therapy, is applied both internally and externally. *Snehana* manifested externally as *pariseka*, *avagaha*, *abhyanga*, etc. *Snehapan as Shamana*, and *Shodhana* are mentioned in manuscripts for *Mridu*.

2. Swedana

Classics explain a great deal of *Svedas*, but not all of them are useful or applicable in *Gridhrasi*. These include *Pinda Sveda* in *Vataja Gridhrasi* and *Baluka Sveda*, also known as a *Ruksha Sveda*, in *Vatakaphaja Gridhrasi*.

3. Vamana

In *Gridhrasi Chikitsa*, *Vamana* is recommended by *Bhava Misra* and *Chakrapani*, following *Snehana* and *Svedana*. While it is true that *Vamana* plays no part in the *Vataja* kind of *Gridhrasi*, it might be useful in the *Vatakaphaja* type.

4. Virechana

In *Gridhrasi*, *Virechana* has a significant function. *Virechana's* action affects the entire body and is not confined to merely extracting the *Doshas* from *Amashaya* and *Pakvashaya*. Mild *Virechana* will be adequate in *Gridhrasi*.

5. Basti

Basti is the ideal remedy for Vata since Gridhrasi is mostly a vataja vyadhi. Basti is recommended for practically all Vatavyadhies, but it is especially recommended for patients who have impairments, constipation, loss of appetite, stiffness in the extremities, and

discomfort in the organs. Most of these symptoms are present in *Gridhrasi*'s case. As a result, *Basti* is crucial to the administration of *Gridhrasi*.

6. Siravedha

For the treatment of *Gridhrasi*, Acharya *Charaka* has recommended *Siravedha* to take *Gulpha* and *Kandara* together.

In *Gridhrasi*, Acharya *Sushruta* and *Vagbhata* have placed *Siravedha* at four angles above, four angles below, or four angles above the knee joint.

7. Agnikarma

In *Gridhrasi*, nearly every *Acharya* has mentioned *Agni Karma*. In *Snayu* and *Sandhigata Vata Vyadhi*, *Acharya Sushruta* and *Acharya Vagbhata* promote *Agni Karma*. Since *Gridhrasi* is a *Snayu gata Vata Vyadhi*, it is implied implicitly here. It is recommended that *Agni karma* be performed at four *angulas* below the *Indra Basti Marma*, on the posterior side of the leg. *Chakradatta* and *Vrindamadhava* both claim that it is on the affected leg's little toe. It is four *angulas* above the *gulpha*, or oblique buring on *pada sira*, according to *Harita*.

8. Sanshaman

Deepana and Pachana and can only function in *Gridhrasi* in *Shamana* treatments. The following oral medication preparations have been listed in the classics for the *Gridhrasi*:

- Ghrita Guggulu tikta Ghrita
- > Taila- Balataila, Dhanvantri Taila
- Guggulu Yogroj Guggulu, Amrit Guggulu, Lasunapak,
- Kwatha Maharasnadi Kwatha, Rasna Saptaka Kwatha, Sahacharadi Kwatha, Shephalika Kwatha
- Rasa Ausadhi- Vatavidhvasnsa rasa, and Brihatvatachintamani rasa.

CHIKITSYA YOG OF GRIDHASI^[18]

- 1. Dashmooladi kwatha-Intake of the decoction prepared with dasamola, balamola, rasna, gudaci, sunthi mixed with erandataila are beneficial in gridhrasi.
- 2. *Sephalika kwatha* -Administration of the decoction prepared with the leaves of *sephalika* on mild fire cures even severe type of *gridhrasi*.
- 3. *Panchamüli kwatha* Administration of the decoction prepared with *panchamula*, *erandataila*, *trivrit ghrita* or mixed with *trivrit* destroys *gridhrasi*.

- 4. *Taila gritädi prayoga* Administration of *taila* or *grita* or *ardraka swarasa* and *matulunga swarasa* mixed with *chukra and jaggery* alleviates pain in *gridhrasi*.
- 5. *Eranda taila* Administration of *eranda taila* mixed with *gomutra* for a month destroys *gridhrasi*.
- 6. Krishna churna- Pippali churna taken with gomutra and erandataila alleviates chronic vatakaphaja gridhrasi.
- 7. *Vartaku prayoga* Intake of *vartaka* (brinjal) cooked in *erandataila* revert the gait in *gridhrasi*.
- 8. *Erandaphaladi payasadvayam* The *payasa* prepared with decorticated seeds of *eranda* or with *sunthi* in milk destroys *gridhrasi*.
- 9. Rasna guggulu-Pills prepared with one pala of rasna churan and five karsa of guggulu with ghee destroys gridhrasi.

PATHYA-APATHYA^[19]

Pathya

Rasa- Lavana

Shuka Dhanya -Godhuma, Raktha Shali

Simbi Dhanya- Masha, Kulattha

Mamsa Varga -Kukkuta, Chataka, Jangala

Vegadharana, Shrama

Shaka Varga- Patola, Kushamanda, Shigru, Mulaka

Phala Varga- Dadima, Badara, Draksha

Anya Dravya -Lashuna, Punarnava, Jeeraka

Karma- Abhyanga

Apathya

Rasa-Kashya, Tikta, Katu

Simbi Dhanya- Mudga, Kalaya,

Chanaka

Shaka Varga- Bimba, Kareera

Vihara- Chinta, Prajagara,

Karma- Chardi, Langhana

DISCUSSION

The word "*Gridhrasi*" comes from the word "*Grudhra*," which means "vulture," and the disease's sufferer moves like a "vulture." A patient with severe, migratory, and persistent pain will walk differently. That is why it is called "*Gridhrasi*."

"Gridhrasi" is usually of two types: Vata and Vatakaphaja.

Gridhrasi is associated with symptoms like- *Stambha*, *ruk* and *toda*. Meanwhile, *Vataja* type of *Gridhrasi* had Symptoms such as *toda*, *dehasyativa* vakrata bhrsam janu jangha uru sandhinam, stambhata sphuranam and Vatakaphaja type is associated with gaurava, tandra, mukhpraseka and bhaktadvesa.

Acharya Sushruta mentions "Sakthanah kshepan Nigriharniyata" as a symptom, or limited limb movement, in his description of the Gridhrasi. Dhatukshaya or Margavarana are the causes of the Samprapti of Gridhrasi. Here, Sankocha will be given to the damaged limb's Sira and Kandara. In contemporary science, the treatment of sciatica is not without complications and numerous adverse effects; even surgical surgery is not exempt from these problems. Furthermore, surgeries are costly, and there is a potential for recurrence. There are many more effective solutions available in Ayurveda for treating this excruciating condition. The primary vitiations in this condition are found in Apana vayu and Vyana Vayu, however Kapha is typically still present as an associated Dosha. Consequently, the ideal medication for treating Gridhrasi should possess the qualities of Vatashamaka, Kaphashamaka, Vanulomaka, Dipana-Pachana (digestive-carminative), and Shulaprashamana. Here, particular mention is made of karmas such as Snehana, Swedana, Vamana, Virechana, Basti, Siravedha and Agni Karma.

Some Shanshaman dravyas are Sephalika, Vartaka, Eranda Taila are also mentioned.

CONCLUSION

Gridhrasi is a painful condition that makes it difficult for the sufferer to sit and walk normally, which interferes with his day-to-day activities. Although it is one of the eighty Nanatmaja Vata-Vyadhi, the Gridhrasi Nidana and Samprapti are not mentioned individually in classics; the same Nidana are applicable in this ailment. Clinical observations further show that the most frequent causes of Gridhrasi are Nidana of Vata-Vyadhi, such as Abhighata, Ahara, Dukhasana, etc. Vata is the primary cause of the illness in Gridhrasi. There might potentially be other Doshas at play. Since Gridhrasi is a Vata Vyadhi, its Purvaroopa is the Samanya Purvaroopa of Vata Vyadhi. Avyakta Lakshana is described in the Samhita as the Purvaroopa of Vata-Vyadhi. This sickness affects Rasa, Rakta, Meda, and Asthi. The three main methods of treatment for any ailment are Nidana Parivarjana Shamana Chikitsa and Shodhana Chikitsa. While Shodhana is suggested for Bahudosha, Shamana is also necessary to eliminate any residual Dosha that remains after the Shodhana procedure. Siravedh and Agnikarma are also suggested by many acharyas for the successful treatment of Gridhrasi.

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