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Conceptual Study on Ayurvedic Pharmacodyanamics of Gandhaka Rasayana wsr to Grahani Roga

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ABSTRACT

Background & Goals:

Vitiation of Agni (Mandagni) and Dosha cause Grahani Roga, a chronic illness of the digestive system that is closely tied to Agni state and dietary patterns. Gandhaka Rasayana, a popular Ayurvedic herbo-mineral formulation, was created by Shuddha Gandhaka through the serial Bhavana of eleven herbal medications eight times apiece. It is widely used to treat a wide range of gastrointestinal, skin, and wound ailments. An effort was made in this paper to prove properties and capabilities of Gandhaka Rasayana with special reference to Grahani Roga's management.

Materials & Methods:

In this current paper, an attempt was made to gather and critically evaluate all of the *Gandhaka Rasayana* references that were available, taking into account their effects as well as the ayurvedic pharmacodynamics and mode of action of the herb in the treatment of *Grahani Roga*.

Observation and Conclusion:

Gandhaka Rasayana has all the qualities needed to effectively govern *Grahani*, including its important position in the activities of *Amapachana*, *Agnideepana*, *Rasayana*, *Kledaghna*, *and Krimihara*. *Gandhaka Rasayana* is therefore a highly useful medication in the treatment of *Grahani Roga*.

Keywords: Mandagni; Agnideepana; Amapachana; Gandhaka Rasayana; Grahani.

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INTRODUCTION

Ayurveda is referred to as the Science of Life in addition to being the texts or science used to treat sick people. One of Ayurveda's two primary basic approaches is the maintenance of healthy individual's Sukhayu and Hitayu (positive health) and the second is to address an individual's illness. More focus has been placed on protecting people's health and providing them with safe treatment, which can be accomplished by using Ahara, Vihara and Aushadha as directed. One of the key components of Chatushpada—the four most crucial elements for any disease's successful treatment—is Aushadha.

The primary cause of health is normal functions and harmony of *Agni* and *Annavahasrotas*¹. Any dysfunction of *Agni* will cause problems with many body systems and health. Due to this compromised *Agni*, *Dushti* of *Srotas*, a structural flaw and functional impairment of *Grahani* occurs, which causes *Grahani Roga*. *Mandagni* has been identified by *Acharya Charaka* as the primary cause of *Grahani Roga*. *Doshas* are vitiated by *Mandagni*. This will impede capability of *Grahani* to operate functions normally. Poor digestion of food results from functionally weak *Agni*, also known as *Mandagni*, which makes it difficult for *Grahani* to carry out its regular duties.

This, in turn, causes *Grahani Roga which produces* symptoms² like *Udarashoola* (abdominal pain), *Adhmana* (bloating), *Arochaka* (Anorexia and loss of appetite), *Avipaka* (indigestion), *Daurbalya* (weakness) *Muhurbaddha Muhurdrava or Atisristama or Vibaddhama Mala Pravrtti* (which is a loose, hard or semisolid stool), *Durgandhita Mala Pravrtti* (foul-smelling faeces), etc. Cardinal symptoms of *Grahani Roga* are alternate episodes of diarrhoea and constipation.

The Ayurvedic medical systems employ a wide variety of Herbo mineral-based formulations. Many formulations are created these days in Ayurveda due to the progress of pharmaceutical technology. Among them, Gandhaka Rasayana is a significant herbo-mineral medication that is widely used in a variety of clinical conditions or diseases, including skin conditions, allergies, respiratory disorders, bladder or urine disorders, diabetes, and as an appetizer. Additionally employed as a Rasayana (rejuvenator) Yog, Gandhaka Rasayana boosts immunity and Sukhayu/hitayu (positive health). An increase in immunity helps the body fend off a variety of illnesses. Because of its Rasayana quality, Gandhaka Rasayana is also a vikaraprshaman (therapeutic) agent in addition to a swasthsaya swasthyakar (prophylactic, or disease-prevention) agent.

MATERIALS & METHODS:

AIMS AND OBJECTIVES

To demonstrate, the efficacy of *Gandhaka Rasayana*, using the *Ayurvedic* pharmacodynamics with special reference to *Grahani Roga*'s management.

INGREDIENTS OF GANDHAKA RASAYANA

The main option for treating *Grahani Roga* is *Agnivardhaka* medications, which have the qualities of Digestive (*Pachana*) and Strengthening (*Deepana*), according to the *Chikitsa Sutras* found in *Ayurvedic* teachings. *Gandhaka Rasayana* has also been mentioned by *Chakradatta* as a therapy for *Ama* ³. *Yogratnakar* has also cited *Gandhaka Rasayana* in cases of *Agnimandya*, *Grahani Roga*, and severe *Atisara*⁴. For this conceptual investigation, *Gandhaka Rasayana*, which is derived from *Yog Ratnakar*, has been used as a medication.

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Table No. 1: Showing the Ingredients and Rasapanchaka of Gandhaka Rasayana⁵

S.N.	Nmae of Drug	Rasa	Guna	Veerya	Vipaka	Doshkarm a	Amayika Prayoga
1.	Gandhaka	Madhur (R.R.S) Katu, Tikta (A.P)	Sara, Snigdha	Ushna	Katu	Kapha- Vatahara Pittavardh aka	Amanashaka, VishAhara, Krumighna, Shodaka, Janthujith
2.	Dalchini	Katu, Tikta, Madhur	Laghu, RukshaTi kshna	Ushna	Katu	Kaphavata ghna	Deepana, Pachana, Vatanuloman
3.	Ela	Katu, Tikta	Laghu, Ruksh	Ushna	Katu	Tridoshagn a	Rochaka, Deepana
4.	Tejpatra	Katu, Tikta, Madhur	Laghu, RukshaTi kshna	Ushna	Katu	Kaphavata ghna	Deepana,Pacha na, Vatanuloman
5.	Nagakesa r	Kashaya	Laghu, Ruksha	Ushna	Katu	Kaphapitta ghna	Vishaghna
6.	Guduchi	Tikta, Kashaya	Laghu, Snigdha	Ushna	Madhur	Tridosha shamaka	Rasayana, Dahaghna
7.	Haritaki	Kashaya pradana	Laghu, Ruksha	Ushna	Madhur	Tridoshagn a	Deepana, Pachana, Anulomana
8.	Vibhitaka	Kashaya, Madhur	Laghu, Ruksha	Ushna	Madhur	Kaphavata ghna	Bhedana, Keshya, Chakshushya
9.	Amalaki	Amla Pradhan	Laghu, Ruksha	Sheeta	Madhur	Tridoshagh na	Rochaka, Sara, Chakshushya
10.	Shunti	Katu	Laghu, Snigdha	Ushna	Madhur	Vatakapha gna	Grahi, Vrishya
11.	Ardraka	Katu	Laghu, Snigdha	Ushna	Madhur	Vatakapha gna	Deepana, Amapachana, Vrishya
12.	Bhrungar aj	Tikta, Katu	Ruksha	Ushna	Katu	Kaphavata ghna	Vishaghna, Rasayana, Balya, Chakshushya
13.	Sharkara	Madhur	Snigdha, Guru	Sheeta	Madhur	Vatapittag hna	Dahanashaka

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ANALYSIS OF AYURVEDIC PHARMACODYNAMICS OF GANDHAKA RASAYANA:

Upon reviewing the table of contents, one might draw certain cumulative inference on the *Gandhka Rasayana*. Cumulatively – *Gandhaka Rasayana may a Katu, Kashaya rasa pradhana, Laghu, Aruksha* (neither too *Ruksha* nor too *Snigdha*) *Guna Yukta, Ushna Veeryavan, Madhura Vipaki Ayurvedic* formulation with *Tridoshaghna* properties.

Different ingredients of Gandhaka Rasayana have specific pharmacodynamic properties like: Gandhaka has Amanashaka, Vishahara, Krumighna, Shodaka, Janthujith; Godugdha has Ojovardhaka; Shrkara has Dahanashaka; Dalchini has Deepana, Pachana, Vataanulomana; Ela has Rochaka, Deepana; Tejpatra has Deepana, Pachana, Vatanulomana; Nagakesar has Vishaghna; Guduchi has Rasayana, Dahaghna; Haritaki has Deepana, Pachana, Anulomana; Vibhitaki has Bhedana, Keshya, Chakshushya; Amalaki has Rochaka, Sara, Chakshushya; Shunti has Grahi, Vrishya; Ardraka has Deepana, Amapachana, Vrishya; and Bhrungaraj has Vishaghna, Rasayana, Balya, Chakshushya properties.

PREPARATION

First of all, powdered *Ashuddha Gandhaka* should be melt in a steel tank with a thick base at *Mandagni* using *Ghrita*. *Ashuddha Gandhaka* must be poured slowly but quickly over the cloth covering the steel jar holding the heated *Dugdha* once it has completely melted. *Dugdha* needs to be filtered and discarded. To remove any remaining milk particles and *Ghrita*, the *Gandhaka* needs to be collected, properly washed in hot water several times, dried, and then pulverized. Three times (*Trivaram*) this procedure has been repeated, with each time *Dugdha* and *Ghrita* being replaced. *Gandhaka* was always weighted, dry, and powdered. The *Khalva Yantra* was filled with powdered *Shuddha Gandhaka*. Next, trituration of 11 dravyas like *Ela*, *Twak* (*Dalchini*), *Patra* (*Tejpat*), and *Nagakeshar*, *Guduchi*, *Haritaki*, *Bibhitaki*, *Amalaki*, *Shunthi*, as well as fresh juice (*Swarasa*) from *Ardraka swarasa* and *Bhringraj*, should administered eight times each.

MODE OF USE, DOSAGE AND ADJUVANTS^{7,8}

Ayurvedic scriptures propose an internal dosage of 1 Karsha/1 Aksha (12 gms). Adults are advised to take 500 mg twice a day, both generally and in this specific study. During the treatment period (one mandala – 48 days), one should not eat bitter gourd, oil (Taila), sour (Amla), alkalis (Kshara), or salt. For best benefits, ayurvedic literature advise acting consistently for a period of six months.

INDICATION OF GANDHAKA RASAYANA9

The following are the uses or indications of *Gandhaka Rasayana*, according to as described in *Ayurvedic* texts –

- 1. Virya Pushti: Promotes sexual and semen quality
- 2. Dridha Deha: Builds the body strong
- 3. Dridha Agni: Strengthens the fire in the stomach
- 4. Kandu Hara: Alleviates scratching or itching
- 5. Kustha Hara: Treats all skin conditions
- 6. Ugra Visha dosha Jaya: Treats severe poisoning
- 7. Ghoratisara: Treats severe diarrhea and dysentery
- 8. Grahani: Treats irritable bowel syndrome and other intestinal disorders
- 9. Hareccha raktam dridha shoola yukta Puts an end to excruciating bleeding
- 10. Jeerna Jwara: Treats persistent fevers
- 11. Mehaghna: Treats diabetes of all kinds
- 12. Vatamaya: Treats all Vata illnesses
- 13. Prajakaram: The cure for infertility
- 14. Kesha Krishneekarana: Leads to hair blackening
- 15. Soma Roga: Treats gynaecological disorders with excessive white discharge
- 16. Mushka vriddhi: Treats testicular enlargement
- 17. Sakala roga hareth: All ailments are healed
- 18. Mrita sadrisha Naraanaam Pranado: Restores life to the dying

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19. Dheergh Ayukara: Prolongs life

20. Dustha Udara: Treats enlargements of the abdomen

21. Sannipata Rogahara: This remedy treats all forms of Sannipataja illnesses

22. *Rajayaksha*: Heals Tuberculosis 23. *Khaya*: Treats depletive illnesses

24. Shasha: Treats respiratory conditions like asthma

25. Arsha: Treats haemorrhoids / Piles

DISCUSSION

As per *Acharya Charaka*, *Grahani* is considered the seat of *Agni* due to its reception of sustenance from above. Nonetheless, the duodenum is recognized as the *Grahani's* most functional and regulating component, but because of its location above the *Nabhi*, ability to hold up undigested food and move digested food forward, the small intestine, or *Adhoamashaya*, along with the pyloric and ileocecal sphincters, can be regarded as *Grahani* from an anatomical and physiological standpoint.

Regarding *Grahani Roga*, the main problem is *Agni Dushti* (i.e., vitiation of digestive fire), which frequently results in *Mandagni*, which can then lead to the development of *Ama* and possibly *Suktapaka*, which might lead to *Grahani* manifestation. *Shuddha Gandhaka* has *Agnideepaka*, *Amapachaka*, *Vishaghna*, *Rasayana*, *Balaya*, *Krimighna*, and *Shodaka* qualities, which are further strengthened by Bhavna (trituration) of 11 herbal constituents of *Gandhaka Rasayana*, according to the etiopathogenesis of *Grahani*.

The properties of *Gandhaka* are enhanced and its medicinal effects are increased by the phytochemical ingredients found in *Bhavana dravya* along with trace elements. One of the most main components of the *Gandhaka Rasayana*, *Gandhaka* acts on all *Dhatus* through its *Rasayana* quality, activating the *Dhatwagnis*. It shown that every property required to treat *Grahani* is found in every element of *Gandhaka Rasayana*. Together, the properties of *Gandhaka Rasayana*¹² include *Katu* and *Kashaya rasa*, *Laghu* and *Aruksha Guna* (not too Ruksha nor too Snigdha), *Ushna Veerya*, *Madhura Vipaka*, and *Tridoshaghna* (works on all three *Doshas*), which are make it much beneficial, not only to treat the *Grahani Roga* but also capable to treat the other various disorders. It functions as *Dahanashak* despite possessing *Ushnaveerya* because of its *Madhura Vipaka* and the existence of *Dahaghna dravyas* like *Guduchi* and *Sharkara*.

The Gandhaka Rasayana contains pharmaceuticals such as Dalchini, Tejapatra, Haritaki, Shunthi, and Ardraka that improve the properties of Deepana, Pachana, and Vatanulomana. These drugs operate on Mandagni, which is the primary cause of Grahani Roga. In Grahani Roga, ingredient like Ela and Amalaki improve the Rochana Guna, which alleviates the Aruchi symptoms. Bhavana Dravya, such as Bhringraj, Guduchi, Amalaki, and Vibhitaka, aid in enhancing Gandhaka's Rasayana activity. Bhringraj improves Balya Guna, which makes the body stronger and is less present in Grahani Patients. The Gandhaka Rasayana's Vishghna Guna is strengthened by Nagakeshar and Bhringraj. As Raktapachana and Sthambana, Nagakesara is beneficial for illnesses related to Daha and Srava.

The classical Ayurvedic texts list the following benefits of Gandhaka Rasayana: Dipana (which stimulates Agni), Pachana (digestant), Laghu (which makes the body lighter), Aruchinashaka (antidiarrheal), Jvaraghna (antipyretic), Vrishya (which increases vitality and strength), and Rasayana (which contains antioxidants). By restoring the vitiated Doshas in the colon and maybe through its anti-inflammatory and wormicidal properties, it functions on the fundamental level of Agni. Gandhaka Rasayana works on the Grahani's underlying cause by lowering the Ama Dosha. Thus, Gandhaka Rasayana is said to have an effect on Dhatu, Mala, and Dosha. For this reason, Gandhaka Rasayana improves and develops Dhatwagni (digestive fire) and raises Dhatubala (body tissue strength) in addition to aiding in the breaking of Samprapti of Grahani.

CONCLUSION

It may be concluded that inappropriate diet and lifestyle (*Mithya Ahara Vihara*) are the main causes of Agni imbalance and consequent incidence of *Grahani Roga and Gandhaka Rasayana* is a very successful medicine in the treatment of *Grahani Roga*.

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Grahani is a sickness that takes a long time to heal. Its therapeutic qualities have been the subject of several promising early investigations, which indicate that *Grahani Roga* may benefit more from its use. In order to draw firm findings, it is advised that this be investigated on clinical research involving a greater number of patients and more precise laboratory measurements.

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