

Vamana Karma: A Comprehensive Review of Classical Principles, Therapeutic Procedure and Probable Mode of Action

Dr. Siba Prasad

Principal & Prof. In Dept. Panchakarma, Jay Jalaram Ayurvedic Medical College Godhra, Gujrat

Abstract:

Vamana Karma is one of the principal Shodhana procedures of Panchakarma and is primarily employed for the elimination of aggravated Kapha Dosha through the upper route. It also has therapeutic relevance in certain conditions involving Kapha-associated Pitta and disorders characterized by excessive accumulation of Doshas. Unlike ordinary vomiting, Vamana is a systematically planned therapeutic procedure preceded by appropriate Deepana-Pachana, Snehana and Svedana and followed by carefully regulated post-procedure dietary management. The procedure includes administration of specific Vamaka Yoga, observation of the number and nature of Vegas, assessment of Shuddhi and subsequent Samsarjana Karma. The pharmacodynamic explanation of Vamana is based upon the characteristic properties of Vamaka Dravyas, particularly Ushna, Tikshna, Sukshma, Vyavayi and Vikasi Gunas. These properties facilitate mobilization, liquefaction and transportation of morbid Doshas towards Amashaya, followed by their expulsion through the oral route under the influence of Udana Vayu. The present review critically examines the classical principles, indications, contraindications, preparatory measures, therapeutic procedure, assessment and probable mechanism of Vamana Karma and highlights its systematic nature as a bio-purificatory intervention in Ayurveda.

Keywords: Vamana Karma, Therapeutic emesis, Kapha Dosha, Shodhana, Panchakarma, Vamaka Dravya, Samsarjana Karma.

INTRODUCTION

Panchakarma represents the principal Shodhana approach of Ayurveda and is intended for the systematic elimination of morbid Doshas from the body. Individual Shodhana procedures are selected according to the predominant Dosha, its location, strength of the patient and nature of the disease. Among these procedures, Vamana Karma is primarily indicated for elimination of aggravated Kapha, while Virechana is predominantly employed for Pitta Dosha.

Vamana is not synonymous with spontaneous or pathological vomiting. It is a planned therapeutic procedure in which the accumulated Doshas are mobilized towards Amashaya and subsequently

eliminated through the upper route. Charaka defines Vamana as the process through which Doshas are expelled through the Urdhwa Marga or oral route^[1,2].

Kapha predominance at its own site, association of Kapha with Pitta and invasion of the Kapha Sthana by Pitta or Vata constitute important therapeutic situations in which Vamana may be considered^[3]. Because Amashaya is closely associated with Kapha, elimination through the oral route provides a rational therapeutic pathway for removal of accumulated Doshas.

The therapeutic scope of Vamana extends beyond simple removal of gastric contents. It involves a sequence of preparatory procedures designed to mobilize Doshas from peripheral tissues, bring them towards the gastrointestinal tract and facilitate their controlled elimination. This is followed by restoration of digestive capacity through a carefully planned dietary regimen.

The present review discusses the Ayurvedic principles of Vamana Karma with particular emphasis on its indications, contraindications, Vamanopaga Dravyas, Purvakarma, Pradhana Karma, assessment of Shuddhi, Paschatkarma and probable mode of action.

THERAPEUTIC PRINCIPLE OF VAMANA KARMA

Vamana Karma is primarily a Kapha-oriented Shodhana procedure. The fundamental therapeutic principle is to eliminate excessive or morbid Doshas through the route nearest to their principal site of accumulation. Kapha has a close relationship with Amashaya and the upper part of the body. Consequently, when Kapha is excessively accumulated or becomes pathological, the oral route provides a suitable pathway for its elimination.

The therapeutic relevance of Vamana is not restricted exclusively to isolated Kapha disorders. It may also be useful when Kapha is associated with Pitta or when other Doshas invade the normal site of Kapha^[3].

The classical procedure therefore represents a Dosha-specific therapeutic intervention rather than indiscriminate induction of vomiting.

INDICATIONS OF VAMANA KARMA

The indications for Vamana may be understood according to Dosha predominance, site of Dosha accumulation, quantity of morbid Doshas and therapeutic requirement.

Vamana is particularly indicated in disorders in which Shodhana is required, especially when there is Bahudosha Avastha or significant accumulation of morbid Doshas. Conditions traditionally mentioned include Unmada, Apasmara, Kushtha and Prameha.

Kapha-dominant disorders such as Shwasa, Kasa, Agnimandya, Pinasa, Ajirna and Shlipada are also considered suitable for Vamana. In these conditions, the predominance of Kapha and its association with Amashaya provide the therapeutic basis for selecting the upper route of elimination.

Vamana may additionally be indicated on the basis of Marga Virodhatva. Adhoga Raktapitta is cited as an example in which therapeutic selection is made according to the direction of pathological movement and the requirement for reversing or controlling that direction^[4].

Thus, selection for Vamana depends not merely upon the diagnostic label of the disease but upon Dosha, Dushya, Sthana, Marga and the overall condition of the patient.

CONTRAINDICATIONS OF VAMANA

Since Vamana is an intensive Shodhana procedure, appropriate patient selection is essential.

It is contraindicated in certain acute conditions, including Hridgraha and Udavarta, and in conditions associated with marked depletion or emaciation such as Kshatakshina.

Conditions in which the Doshas or pathological material are already moving upwards, such as Urdhwaga Raktapitta, are also unsuitable for Vamana. The procedure should be avoided or used with considerable caution in weak and elderly individuals and in diseases involving vital organs^[5].

These contraindications emphasize the importance of Bala assessment before Shodhana. The presence of a disease that is theoretically responsive to Kapha elimination does not itself justify Vamana if the patient's physical condition is unsuitable for an intensive purification procedure.

VAMANOPAGA DRAVYAS

Vamanopaga Dravyas are substances that assist the action of the principal Vamaka Dravya. Their role is therefore supportive rather than necessarily being independently responsible for therapeutic emesis.

The Vamanopaga Gana includes Madhu, Madhuka, Kovidara, Karbudara, Nipa, Vidula, Bimbi, Shanapushpi, Sadapushpi and Pratyakpushpi^[6].

Several of these drugs possess Madhura Rasa, Sheeta Virya and Madhura Vipaka. Such properties are considered useful during Akanthapana and may assist the principal Vamana medicine while reducing excessive irritation associated with the emetic preparation.

Vamanopaga Dravyas therefore illustrate an important principle of Ayurvedic pharmacotherapy: the therapeutic response of a procedure is determined not only by the principal drug but also by supportive substances that facilitate its action and improve tolerability.

PROCEDURAL FRAMEWORK OF VAMANA KARMA

Vamana Karma is systematically performed in three major stages: Purvakarma, Pradhana Karma and Paschatkarma.

Purvakarma prepares the patient and mobilizes the Doshas towards the gastrointestinal tract. It principally includes Deepana-Pachana, Snehana and Svedana.

Pradhana Karma constitutes the actual therapeutic emesis following administration of Vamaka Yoga. During this stage, the physician observes the onset, progression and completion of Vamana and assesses the degree of purification.

Paschatkarma is performed after completion of Vamana and principally includes Samsarjana Karma according to the degree of Shuddhi achieved.

This sequential organization distinguishes therapeutic Vamana from accidental or pathological vomiting.

DEEPANA AND PACHANA

Deepana and Pachana form an important preliminary component of Vamana.

Deepana is intended to enhance Agni, whereas Pachana facilitates digestion of Ama. Patients presenting with Agnimandya require appropriate Deepana-Pachana before administration of Snehana.

Correction of Agni and digestion of Ama create a suitable physiological state for subsequent Snehana and Shodhana. Administering large quantities of Sneha in the presence of significant Ama or impaired digestion may interfere with the intended preparatory process.

Therefore, appropriate Deepana-Pachana constitutes the first stage in preparing the patient for Vamana Karma.

SNEHAPANA

Internal oleation or Snehapana is performed before the principal purification procedure. Sneha is generally administered in the morning after ensuring that the food consumed on the previous evening has been properly digested.

The Sneha may be administered with hot water, and the classical duration is generally three, five or a maximum of seven days^[7].

The quantity of Sneha is determined according to Agnibala and Kostha and should be sufficient to produce the desired features of proper Snehana within the prescribed period. During Snehapana, a liquid, warm and appropriately measured dietary regimen is advised.

The initial quantity may begin with Hrasiyasi Matra or a testing dose and may subsequently be increased according to the digestive capacity and response of the patient^[8].

The therapeutic purpose of Snehana extends beyond simple lubrication. It prepares the accumulated Doshas for mobilization and facilitates their subsequent movement towards the gastrointestinal tract for elimination.

ABHYANGA AND SVEDANA

After adequate internal Snehana, external Abhyanga and Svedana are performed.

Abhyanga refers to systematic application and massage of medicated oil over the body. In the context of Vamana, Abhyanga is performed during the Vishrama Kala and again before the principal procedure.

Following Abhyanga, Svedana is administered. Bashpa Sveda is commonly employed for this purpose.

Snehana and Svedana act as important preparatory measures by facilitating the mobilization of morbid Doshas from peripheral sites towards Kostha. Before the day of Vamana, a Kapha-increasing diet is traditionally advised so that the Dosha intended for elimination is brought into an appropriate state for expulsion.

PRADHANA KARMA

Pradhana Karma constitutes the actual administration and performance of therapeutic emesis. It includes administration of Vamaka Yoga, observation of drug response, assessment of Shuddhi and management of complications if they occur.

On the day of Vamana, Sarvanga Abhyanga is performed followed by Svedana. The patient is subsequently advised to consume Yavagu or milk until the stomach is adequately filled.

A Vamaka Yoga containing Madanaphala, Vacha, Saindhava Lavana and Madhu may then be administered.

After administration of the Vamana medicine, the patient is carefully observed for approximately one Muhurta. When salivation and other signs indicating the initiation of Vamana appear, the patient is instructed to sit comfortably^[9].

The urge for vomiting may be facilitated by opening the mouth appropriately and slightly bending the upper part of the body forward. A suitable vessel should be placed in front of the patient for collection and assessment of the vomitus.

The patient should be encouraged to vomit without excessive straining. Gentle massage over the back in an upward direction may be provided during the act of Vamana^[10].

The physician should continuously observe the patient's condition, number of Vegas, characteristics of the expelled material and signs indicating adequate or inadequate purification.

ASSESSMENT OF VAMANA KARMA

Assessment of the outcome of Vamana is essential for determining the degree of Shuddhi and planning subsequent management. The assessment may be considered under four principal criteria: Antiki, Vaigiki, Maniki and Laingiki.

Antiki assessment

Antiki assessment considers the material appearing towards the end of the Vamana procedure. Pittanta Vamana is considered an important criterion of appropriate purification.

Appearance of Pitta may be recognized directly through greenish-yellow discoloration of the vomitus or indirectly through features such as Tikta or Katu Asyata, Urodaha, Kanthadaha and Netradaha.

Vaigiki assessment

Vaigiki assessment is based on the number of significant bouts or Vegas.

Hina, Madhyama and Pravara Shuddhi are described with approximately four, six and eight Vegas respectively.

Maniki assessment

Maniki assessment considers the quantity of expelled material. Hina, Madhyama and Uttama Shuddhi are traditionally described according to quantitative measurements of approximately one, one and a half and two Prastha respectively.

Laingiki assessment

Laingiki assessment considers the clinical signs and symptoms following Vamana.

Among the different methods of assessment, Laingiki Shuddhi has been accorded particular importance because it reflects the overall physiological response of the patient rather than relying solely upon the number or volume of the expelled material.

Thus, the adequacy of Vamana should ideally be assessed comprehensively rather than by simply counting vomiting episodes.

PASCHATKARMA

The completion of therapeutic emesis does not represent the end of Vamana therapy. Appropriate Paschatkarma is essential for restoration of digestive and physiological functions.

The principal component of Paschatkarma is Samsarjana Krama. Following Samshodhana, Agni becomes temporarily diminished. During the purification process, Doshas are mobilized towards Amashaya, and the intensive eliminative procedure influences digestive capacity. Consequently, the digestive system should not immediately be exposed to heavy food. A graduated dietary regimen is therefore prescribed to restore Agni progressively^[11].

SAMSARJANA KRAMA

Samsarjana Krama is a sequential dietary regimen prescribed following Shodhana. It is intended to restore digestive capacity gradually from a relatively diminished state to the ability to digest a normal and heavier diet.

The sequence includes preparations such as Peya, Vilepi, Akrita Yusha, Krita Yusha, Akrita Mamsarasa and Krita Mamsarasa.

The duration of this dietary progression is determined according to the degree of purification. The number of Annakala varies for Pravara, Madhyama and Avara Shuddhi^[12].

The principle underlying Samsarjana Krama is gradual restoration. Immediately providing Guru Ahara following intensive purification may place excessive demand upon temporarily reduced Agni. The progressive dietary sequence therefore permits controlled recovery of digestive function.

PROBABLE MODE OF ACTION OF VAMANA KARMA

The mechanism of Vamana can be understood through the properties of the Vamaka Yoga and the sequence through which Doshas are mobilized and expelled.

Vamaka Dravyas possess characteristic properties such as Ushna, Tikshna, Sukshma, Vyavayi and Vikasi. Following administration, these drugs exert their effect through their inherent potency or Swavirya.

Because of Sukshma and Vyavayi properties, the active influence of the formulation is considered capable of reaching Dhamanis and subsequently the minute Srotas distributed throughout the body.

The Ushna property contributes to Vishyandana, or liquefaction of accumulated Doshas. Increasing the fluidity of morbid Doshas facilitates their movement through the channels.

Tikshna Guna subsequently assists Vicchindana, facilitating separation or disintegration of accumulated morbid material from the structures or channels in which it is lodged.

The combined effects of these properties enable liquefied and mobilized Doshas to move through Anu Srotas towards Amashaya.

The classical concept of Anu Pravana Bhava is particularly important in explaining this movement. The mobilized material is considered capable of moving through minute channels without adhering to them, analogous to water moving over a surface coated with an unctuous substance.

Once the Doshas reach Amashaya, their subsequent direction is determined by the properties of the Vamaka Dravya and the activity of Udana Vayu.

Because Vamana Dravyas are considered predominantly Agni and Vayu Mahabhuta dominant, they facilitate upward movement. Udana Vayu further promotes this Urdhwagati, resulting in expulsion of accumulated Doshas through the oral route.

Thus, the classical mechanism of Vamana may be understood as a sequential process of Dosha mobilization, liquefaction, separation from peripheral sites, movement towards Amashaya and controlled upward elimination.

PHYSIOLOGICAL INTERPRETATION OF THERAPEUTIC EMESIS

From a physiological perspective, therapeutic emesis represents a coordinated response involving the gastrointestinal tract, autonomic nervous system, respiratory musculature and central emetic pathways.

The Vamaka formulation produces gastrointestinal stimulation and initiates the vomiting response. Gastric distension produced by preparatory intake of milk or Yavagu may additionally facilitate emesis once the Vamaka Yoga has been administered.

The act of vomiting involves coordinated contraction of abdominal and respiratory musculature together with changes in gastrointestinal motility and sphincter activity. Consequently, gastric and upper gastrointestinal contents are expelled through the oral route.

The classical concept of Udana Vayu promoting upward movement may therefore be interpreted functionally in relation to the coordinated physiological mechanisms responsible for expulsion through the upper pathway.

However, Vamana Karma should not be reduced merely to gastric emptying. Its classical therapeutic framework includes several days of preparation, Dosha mobilization, administration of a specifically selected formulation, controlled therapeutic emesis, assessment of purification and structured post-procedure rehabilitation.

SIGNIFICANCE OF USHNA AND TIKSHNA GUNA

Ushna and Tikshna are particularly important among the properties attributed to Vamana Dravyas.

Ushna Guna is described as facilitating Vishyandana or liquefaction of accumulated Doshas. From the Ayurvedic perspective, liquefaction enables previously accumulated or relatively immobile Doshas to move more readily towards Kosta.

Tikshna Guna facilitates Vicchindana, allowing the mobilized Doshas to become detached from the channels or tissues with which they are associated.

The sequential action of Snehana, Svedana and Vamaka Dravya therefore follows a coherent therapeutic principle. Snehana and Svedana prepare and mobilize the Doshas, while Ushna and Tikshna properties of the Vamaka Yoga further facilitate their movement and elimination.

ROLE OF SUKSHMA AND VYAVAYI PROPERTIES

Sukshma Guna represents the capacity to penetrate minute pathways, while Vyavayi describes rapid distribution of the therapeutic influence before complete digestion.

These properties are important in the classical explanation of how Vamaka Dravyas influence Doshas located beyond Amashaya.

Through Sukshma and Vyavayi properties, the medicine is described as reaching Dhamanis and minute Srotas throughout the body. The accumulated Doshas are subsequently mobilized and directed towards Amashaya.

This concept provides an explanation for why Vamana is considered a systemic Shodhana procedure rather than merely a local gastric intervention.

ANU PRAVANA BHAVA

Anu Pravana Bhava is an important characteristic attributed to Vamana Dravyas.

After mobilization and liquefaction, the Doshas are expected to move through minute channels towards Amashaya without becoming deposited or adherent within those channels.

The classical analogy describes this movement in a manner comparable to water flowing over a surface coated with an unctuous substance without adhering to it.

This property is also used to distinguish therapeutic Vamana Dravyas from substances that may possess emetic or toxic effects but do not possess the complete pharmacodynamic characteristics required for controlled Vamana.

Therefore, not every substance capable of producing vomiting should be considered suitable as a Vamana Dravya.

ROLE OF UDANA VAYU

Udana Vayu plays a significant role in the final stage of Vamana Karma.

Following mobilization, liquefaction and transportation, the Doshas accumulate in Amashaya. The Agni and Vayu Mahabhuta predominance of Vamana Dravyas facilitates their upward movement.

Udana Vayu provides the physiological force responsible for this Urdhwagati. Consequently, the mobilized Doshas are expelled through the mouth.

The entire mechanism therefore follows an organized sequence rather than an isolated emetic response:

Snehana and Svedana → Dosha mobilization → Vishyandana → Vicchindana → movement through Anu Srotas → accumulation in Amashaya → stimulation of Udana Vayu → Urdhwagati → expulsion through the oral route.

THERAPEUTIC SIGNIFICANCE OF SHUDDHI ASSESSMENT

An important feature distinguishing therapeutic Vamana from ordinary vomiting is the systematic assessment of Shuddhi.

The number of Vegas alone cannot provide a complete assessment of therapeutic adequacy. A patient may produce multiple episodes of vomiting without achieving the desired purification, while another may demonstrate appropriate clinical signs with fewer episodes.

Therefore, Antiki, Vaigiki, Maniki and particularly Laingiki criteria should be interpreted together.

The appearance of Pitta towards the end of the procedure provides information regarding the progression of elimination. Vaigiki assessment reflects the number of significant expulsive bouts, while Maniki assessment evaluates quantity. Laingiki assessment considers the patient's overall clinical response.

Such multidimensional assessment demonstrates the importance placed upon controlled therapeutic endpoints in the classical Vamana procedure.

DISCUSSION

Vamana Karma represents one of the most systematically described Shodhana procedures of Ayurveda. Its primary therapeutic target is aggravated Kapha, although its application extends to certain Kapha-Pitta conditions and diseases characterized by Bahudosha Avastha.

The procedure is substantially different from simple induction of vomiting. The therapeutic sequence begins before the administration of the Vamaka Dravya. Deepana and Pachana improve Agni and facilitate Ama Pachana, while Snehana and Svedana prepare the accumulated Doshas for mobilization. A Kapha-promoting diet before the principal procedure further assists in bringing the target Dosha into an appropriate state for elimination.

The actual Vamana procedure is carefully controlled. The patient receives appropriate fluid intake followed by a selected Vamaka Yoga. The physician observes the development of the emetic response, assists the patient during the procedure and evaluates the degree of purification using established criteria. The pharmacodynamic explanation of Vamana is equally systematic. Ushna Guna produces Vishyandana, Tikshna facilitates Vicchindana, Sukshma and Vyavayi properties facilitate penetration and distribution, and Anu Pravana Bhava permits movement through minute channels. The mobilized Doshas ultimately reach Amashaya and are expelled upwards under the influence of Udana Vayu.

The therapeutic process does not end with elimination. The temporary reduction in digestive capacity following Shodhana necessitates Samsarjana Karma. The gradual progression from lighter to increasingly substantial food preparations is intended to restore Agni before returning the patient to a normal diet.

These components demonstrate that Vamana Karma should be understood as an integrated therapeutic protocol comprising patient preparation, Dosha mobilization, controlled elimination, assessment of therapeutic endpoint and post-procedure restoration, rather than simply as therapeutic vomiting.

The original review also proposes that Vamana drugs irritate the stomach and alter membrane permeability, thereby facilitating the release of substances that might not otherwise be eliminated under normal conditions.

This proposed explanation requires further experimental validation before it can be considered an established physiological mechanism.

CONCLUSION

Vamana Karma is a principal Shodhana procedure of Panchakarma and is particularly indicated for the elimination of aggravated Kapha Dosha and certain Kapha-associated Pitta conditions. Its therapeutic value lies not merely in producing emesis but in the systematic mobilization and controlled elimination of morbid Doshas.

Deepana-Pachana, Snehapana, Abhyanga and Svedana prepare the patient for Shodhana, while administration of an appropriate Vamaka Yoga initiates the principal therapeutic procedure. Assessment

through Antiki, Vaigiki, Maniki and Laingiki criteria enables evaluation of the degree of purification, and Samsarjana Krama facilitates gradual restoration of Agni following the procedure.

The probable mode of action of Vamana can be understood through the characteristic properties of Vamaka Dravyas. Ushna Guna facilitates Vishyandana, Tikshna Guna promotes Vicchindana, Sukshma and Vyavayi properties facilitate distribution through minute channels, and Anu Pravana Bhava supports movement of mobilized Doshas towards Amashaya. Subsequently, the predominance of Agni and Vayu Mahabhuta together with the action of Udana Vayu facilitates upward movement and expulsion through the oral route.

Thus, Vamana Karma represents a structured and individualized Shodhana protocol involving preparatory mobilization, therapeutic elimination and post-procedure restoration. Further experimental and clinical investigations are required to establish the physiological and pharmacological correlates of its classical mechanism and to evaluate its therapeutic applications using contemporary research methodology.

REFERENCES:

1. Charaka Samhita of Agnivesha, revised by Caraka and Drdhabala with elaborated Vidyotini Hindi commentary by Pt. Kashinath Shastri, Dr. Gorakha Natha Chaturvedi, Chaukambha Bharati Academy, reprint edition 2002, Part-2, Siddhi Sthana 2/10, p.879.
2. Charaka Samhita of Agnivesha, revised by Caraka and Drdhabala with elaborated Vidyotini Hindi commentary by Pt. Kashinath Shastri, Dr. Gorakha Natha Chaturvedi, Chaukambha Bharati Academy, reprint edition 2002, Part-2, Kalpa Sthana 1/4, p.890.
3. Shaarangadhar Samhita of Acharya Sharangadhar with Jiwanprada Hindi commentary by Dr. Shailaja Srivastava, Chaukhambha Orientalia, reprint edition 2013, Poorva Khanda 4/8, p.31.
4. Ashtang Sangraha Samhita of Vagbhata, with Vidyotini Hindi commentary by Kaviraj Atridev Gupta, Chaukhambha Prakashan, reprint edition 2016, Sutra Sthana, Chapter 27/3, p.250.
5. Charaka Samhita of Agnivesha, revised by Caraka and Drdhabala with elaborated Vidyotini Hindi commentary by Pt. Kashinath Shastri, Dr. Gorakha Natha Chaturvedi, Chaukambha Bharati Academy, reprint edition 2002, Part-2, Siddhi Sthana 2/8, p.974.
6. Charaka Samhita of Agnivesha, revised by Caraka and Drdhabala with elaborated Vidyotini Hindi commentary by Pt. Kashinath Shastri, Dr. Gorakha Natha Chaturvedi, Chaukambha Bharati Academy, reprint edition 2002, Part-1, Sutra Sthana 4/23, p.85.
7. Charaka Samhita of Agnivesha, revised by Caraka and Drdhabala with elaborated Vidyotini Hindi commentary by Pt. Kashinath Shastri, Dr. Gorakha Natha Chaturvedi, Chaukambha Bharati Academy, reprint edition 2002, Part-1, Sutra Sthana 13/51, p.268.
8. Ashtang Sangraha Samhita of Vagbhata, with Vidyotini Hindi commentary by Kaviraj Atridev Gupta, Chaukhambha Prakashan, reprint edition 2016, Sutra Sthana, Chapter 25/22–23, p.190.
9. Sushruta Samhita of Sushruta with Ayurveda Tatva Sandipika Hindi commentary by Dr. Ambika Dutt Shastri, Chaukhambha Prakashan, reprint edition 2011, Part 1, Chikitsa Sthana 33/7, p.177.
10. Ashtang Sangraha Samhita of Vagbhata, with Vidyotini Hindi commentary by Kaviraj Atridev Gupta, Chaukhambha Prakashan, reprint edition 2016, Sutra Sthana, Chapter 27/14, p.240.

11. Charaka Samhita of Agnivesha, revised by Caraka and Drdhabala with elaborated Vidyotini Hindi commentary by Pt. Kashinath Shastri, Dr. Gorakha Natha Chaturvedi, Chaukambha Bharati Academy, reprint edition 2002, Part-2, Siddhi Sthana 6/23, p.1022.
12. Charaka Samhita of Agnivesha, revised by Caraka and Drdhabala with elaborated Vidyotini Hindi commentary by Pt. Kashinath Shastri, Dr. Gorakha Natha Chaturvedi, Chaukambha Bharati Academy, reprint edition 2002, Part-2, Siddhi Sthana 1/11, p.961.