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## CLINICAL REVIEW OF KASA IN CHILDREN: AN AYURVEDIC INSIGHT

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#### **ABSTRACT**

In the Ayurvedic classics, *Kasa* (cough) is considered as an independent disease. It may also occur as Lakshana (symptom) or Upadarava (complication) in other diseases. *Kasa* is one of the most common disease in children which affect Pranavaha Srotas. Kapha and Vata are the elements dominated in kasa. *Kasa* is not life threatening but it disturbs the normal life style of children and if neglected without following proper treatment may hamper the growth and development of children. *Kasa* is a disease which characteristically produces a typical sound. Its incidence varies from locality to locality depending upon the atmosphere. To and from movement of air through the *Pranavaha strotas* is the vital sign of life, the normalcy of which suggests health. The abnormality in respiration indicates disease, and its cessation marks death. This unique sign of life is affected in the disease *kasa*. *Kasa* seems to be a simple everyday hurdle; it can cause considerable damage to the respiratory system as explained in Ayurveda. *Kasa* when it is untreated it can result into *kshayaja* conditions.

KEYWORDS: Ayurveda, kasa, pranavahastrotasa, children.

## **Historical Review**

The concept of Kasa has evolved through successive historical periods, reflecting both medical observation and spiritual understanding. References first appear in the Atharvaveda, where Kasa is described as a complication of Takman-jwara and addressed through mantras and natural remedies.<sup>[1]</sup> The *Puranas* (e.g., Garuda and Agni Purana) elaborate on types, symptoms, and treatments. The classical Samhitas (Charaka, Sushruta, Bhela, Harita, Kashyapa) provide systematic accounts of Kasa as an independent disease, including its classification, pathogenesis, prognosis, and therapies. The Sangraha texts (Ashtanga Sangraha, Ashtanga Hridaya, Madhava Nidana, Chakradatta, Sharngadhara) refined these descriptions and emphasized clinical management. Later compendia such as Bhava Prakasha, Yogratnakara, and Bhaishajya Ratnavali offered comprehensive guidelines. In the modern era, Kasa has been interpreted under Pranavaha Srotovikara with attempts to correlate Ayurvedic understanding with contemporary respiratory disorders. This trajectory highlights a continuous quest for effective management of *Kasa* across traditions.

## **Review of Ayurvedic Literature**

Kasa (cough) is a commonly encountered disorder in the paediatric age group; however, it is not described in Ayurveda as a distinct paediatric entity. Instead, it is recognized as a condition affecting both adults and children alike. Almost all classical Acharyas have elaborated on Kasa in their respective treatises.

In Charaka Samhita, it is mentioned. दोष दूष्य मलाश्चैव महतां व्याधयश्च ये । त एव सर्वे बालानां मात्रा त्वल्पतरामता ॥ (चि. चि. 30/287)

This implies that the *dosas, dusyas, malas*, and the diseases seen in adults are also found in children, with the only difference being that their magnitude or intensity is relatively less.

Consequently, the *nidana* (etiology), *samprapti* (pathogenesis), and *lakshana* (clinical features) of *Kasa* in children are considered identical to those described for adults in the classical Ayurvedic literature, with variations only in their degree of manifestation.

#### Vyutpatti (Etymology)

The term Kasa has two different derivations according to Panini's Sabda Anusasana. These are as follows.

Kasa is derived from the verbal root "Kasri", meaning "shabda kutsanyam"—an "unpleasant sound."

Gangadhara, the commentator of Charaka Samhita, also derives Kasa from the root "Kasri", interpreting it as "Bhinnaswara"—a distorted or broken voice.

From the root "Kas" (Kas + gatau). Chakrapani derives from this root, interpreted as "Gatithe term Kasa satanayoh"—which means "a falling downward movement."

## Nirukti (Definition)

Acharva Charaka.

कसति शिरः कण्ठादुर्ध्व गच्छति वायुरिति शुष्को वा सकफो वा कासनात् कास उच्यते ॥ (Ch. Chi. 18/8)

Kasa is described as the upward movement of obstructed vayu from the head and throat, accompanied by the production of an abnormal sound. This manifestation may be either dry (without expectoration) or productive (with expectoration).<sup>[2]</sup>

Achharya Susruta संभिन्नकांस्यस्वनतल्यघोषः।

Kasa is described as a condition characterized by the production of a distinctive sound resembling that produced by a broken bronze vessel. [3]

In Sir Monier-Williams' Sanskrit-English Dictionary, the term *Kasa* is simply defined as "cough.".<sup>[4]</sup>

## Nidana of Kasa

Prana Vayu and Udana Vayu are responsible for the normal functioning of the Pranavaha Srotas (respiratory channels). Any factor that disturbs the normal activity of these Vayus can lead to the manifestation of Kasa (cough). Since the Pranavaha Srotas are directly connected to the external environment through the nose and mouth, they are more vulnerable to allergens and droplet infections.

Children with weak immunity are more prone to recurrent episodes of Kasa, as they are easily affected by causative (nidanakara) factors.

Acharya Sushruta has mentioned the Samanya Nidana (general causes) of Kasa,

धमोपधाताद्रजसस्तथैव व्यायामरूक्षान्ननिषेवणाच्च । विमार्गगत्वादपि भोजनस्य वेगावरोधात क्षवधोस्तथैव ।। (Su. Utt. Tan. 52/4)

Inhaling harmful smoke and dust, excessive physical exertion, intake of dry and irritating food, accidental entry of food into the wrong passage (trachea), suppression of natural urges (Adharaniya Vega), and suppression of sneezing can lead to the onset of *Kasa*.

The classification of Kasa into Kshayaja and Kshataja, in addition to the Doshika varieties, indicates that the symptom of Kasa can arise from the pathophysiology of three distinct conditions — Kasa, Rajayakshma, and Kshataksheena.

## **SAMPRAPTI**

The vitiated *Prana Vayu* and Udana Vayu move upwards and become obstructed within the channels (srotasas) of the siras, ura and griva pradesha. This obstruction leads to increased intraluminal pressure within the channels of the eyes, nose, ears, and throat. The resultant pathological changes give rise to painful muscular contractions in regions such as the temporo-mandibular joint and cervical area, culminating in a forceful expulsion of air. This expulsion produces a characteristic sound, with or without the presence of sputum, which is identified as *Kasa*.<sup>[5]</sup>

Vayu impeded from below (अधःप्रतिहतोवायुः)



Move to the upper channel (उर्ध्वस्रोतः समाश्रितः)



Attains the character of udaana vata and sticks in throat and chest

(आविश्य शशिरसः खानिसर्वाणिप्रतिपुरयन )



Producing breaking pain and jerking in whole body (आमज्जन्नाक्षिपन्)



Particularly causing strain and stiffness in hanu, manya, akshi, prishtha, ura, parshva (हन्मन्येतथाअक्षिणी)



Thus, kasa arises (शुष्को व सकफोवाअपि)

## Samprapti Ghataka

Dosha: Vata Pradhan kaphaja Dushyas: Rasa, Swara, Anna

Srotas: Rasa vaha, Pran vaha srotas. Adhisthana: Aam Pakouasyoth, Uraha-

khandh

Srotodusti Lakshan: Sanga (Avarodha)

Mandagni Agni vyapar: Swabhawa: Asukari

Sadyata- Asadhyata: Sadhya sadhya, (Naveen

Jeerna Krachsadya)

#### Purvarupa

In the context of *Kasa*, the *Purvarupas* have been described in general for all types of *Kasa*. s. They are enumerated as follows. <sup>[6]</sup>

- *1. Shuka-purna-galasyata* feeling of fullness or obstruction in the throat
- **2.** *Kanthe kandu* itching in the throat
- **3.** Bhojyanam avarodha obstruction to swallowing food

Hridaya Aswasthata has been mentioned as Poorva roopa of Kasa by Vagbhata in Astanga Sangrah.

*Hṛdaya-aswasthata* has been exclusively described in the *Ashtanga Sangraha*.

#### Rupa

The *Rupa* refers to the manifest signs and symptoms of a fully evolved disease observed during the Vyakta Avastha, wherein *Doṣha–Duṣhya Sammurcchana* has taken place. Recognition of Rupa is crucial for confirming the diagnosis and for planning appropriate management.

**Rupa** is classified into two categories.

## Samanya Lakshanas of Kasa

Vataja Samanya Lakshanas	Pittaja Samanya Lakshanas	Kaphaja Samanya Lakshanas
Kasa	Kasa	Kasa
Deha Kshepana	Bhrama	Aruchi
Parshwa Shoola	Daha	Asya Madhurata
Prista Shoola	Moha	Sharira Gurata
Urah Shoola	Trushna	Vamana
	Urodhooma	Loma harsha

Vishishta Lakshanas of Vataja, Pittaja and Kaphaja Kasa.

Vataja	Pittaja	Kaphaja
Shushka Kasa	Peeta ghana kapha	Bahula, madhura, snigdha
Shushka Kasa	nishteevana	sandra kaphanishteevana
Kruchrena alpa kapha shteevana	Tiktasyata	Peenasa
Shushka – ura, kanta, vaktra		

## Upashaya and Anupashaya

Though no direct references regarding *Upashaya* and *Anupashaya* in the context of *Kasa* are available, relevant therapeutic tests can be extracted from *Charaka Samhita*, *Chikitsa sthana*, Chapter 18, which may be applied to different types of Kasa.

## Upasaya in Kasa

### •Vataja Kasa

Food and practices having *snigdha* (unctuous), *amla* (sour), *lavaṇa* (salty), *uṣḥṇa* (hot), and *vata-hara* properties are beneficial and provide relief.

#### •Pittaja Kasa

Sneha (unctuous), sheeta (cold), tikta rasa (bittertasting), and pitta-hara diet and measures act as Upashaya.

## •Kaphaja Kasa

Substances with *kaṭu* (pungent), *ruksha* (dry), *ushna* (hot), and *kapha-hara* properties provide relief. In cases where *Kaphaja Kasa* is associated with *Pitta*, *tikta rasa* substances serve as effective *Upashaya*.

## Anupashaya in Kasa

The term *Anupashaya* refers to factors that lead to aggravation or worsening of the disease condition when administered. Identifying these helps in confirming the diagnosis as well as in planning the avoidance of such causative influences.

#### •Vataja Kasa

Consumption of *ruksha* (dry), *sheeta* (cold), and *kashaya* (astringent) substances, intake of insufficient or irregular food (*alpa bhojana*, *pramita bhojana*), suppression of natural urges (*vegadharana*), and excessive exertion (*parisrama*) act as *Anupashaya*. In conditions where *Vataja Kasa* is associated with *Pitta or Kapha*, administration of *snehana dravyas* may also produce Anupasaya.

#### •Pittaja Kasa

Substances with *katu* (pungent), *ushna* (hot), *vidahi* (irritant), *amla* (sour), and *kshara* (alkaline) qualities, along with exposure to hot climate or weather, act as *Anupashaya* factors, thereby worsening the condition.

#### •Kaphaja Kasa

Intake of guru (heavy), *snigdha* (unctuous), *abhishyandi*(channel-blocking), and *madhura* (sweet) substances, as well as indulgence in daytime sleep (*divasvapna*), act as *Anupashaya* and aggravate the manifestations of Kaphaja Kasa.

## Upadrava of Kasa

There is no explicit mention of the *Upadrava of Kasa* in the works of *Charaka* and *Sushruta*. However, *Charaka*, in the context of *Nidanarthakara Roga*, states that untreated or partially treated *Kasa* eventually progresses to *Kshaya*. [7]

प्रतिश्यायाद भवेत्कासः कासात संजायते क्षयः । क्षयो रोगस्य हेतृत्वे शोषस्याप्यूपजायते ॥ (च. नि. ८/९)

#### Sadhyasadhyata

According to Charaka Kasa manifested due to the involvement of a single Dosha is considered Sadhya (curable). Hence, Vataja Kasa, Kaphaja Kasa, and Pittaja Kasa fall under the curable category. However, in elderly individuals, the disease tends to be Yapya (manageable but not completely curable. [8]

#### Chikitsa of Kasa

The management of Kasa in children has not been elaborated in detail in the classical texts. However, a comprehensive description of Kasa Chikitsa in adults has been presented by various Acharyas.

In pediatric cases, the treatment approach should be determined on the basis of Rogi Bala (strength of the patient) and Roga Bala (severity of the disease). Although both Shodhana (purificatory) and Shamana (palliative) therapies have been prescribed for Kasa Roga, it is prudent to primarily adopt the Samana line of management in children, unless the clinical condition strongly necessitates Shodhana.

## Cikitsa Siddhanta of Vataja Kasa According to Charaka Samhita<sup>[9]</sup>

In patients of dry constitution (Ruksha Rogi), unctuous applications (Snigdha Dravyas) should be employed, such as Ghrita, Basti, Yusha, Kshira, and meat soup. The physician should administer Snigdha Vata-nashaka procedures including Dhuma, Avaleha, Abhyanga, Parisheka, and Svedana. In cases presenting with Malavarodha (constipation) or retention of Apana Vayu, Ghrita should be prescribed post-prandially. For patients suffering from Vataja Kasa with associated Pittaja or Kaphaja involvement (Anubandha), purgation (Virecana) with Sneha Yogas is recommended.

# According to Sushruta Samhita<sup>[10]</sup>

In Vataja Kasa, Snigdha Virechana with Eranda Taila is advised. Asthapana and Anuvasana Basti are also considered highly beneficial. In Vataja Kasa, Snaihika Dhuma-pana is indicated, and Manda-ushna Ghrita may be administered along with lukewarm milk (Sukhoshna Kshira) or water. In addition, Mamsa-rasa-siddha Yavagu, medicated Kshira, Avaleha, and various medicated Ghritas are recommended.

## According to Ashtanga Hrdaya[11]

When Kasa arises due to Vata alone, the line of management should begin with Vata-nashaka measures. The patient should be administered Snigdha Peya, Yusa, Maṃsa-rasa, and Vata-nasaka Lehya. Additionally, therapies such as Dhuma, Abhyanga, Sveda, Seka, and Avagaha are advised. In cases of Mala and Vayu Avrodha, Basti therapy is indicated.

When Vata is associated with Pitta Anubandha, management should include the administration of Ghrita and Kshira immediately after meals.

In cases where Vata is associated with Kapha Anubandha, Sneha Virechana with Eranda Taila is recommended.

## Chikitsa Siddhanta of Pittaja Kasa According to Charaka Samhita<sup>[12]</sup>

In Pittaja Kasa associated with Kapha Anubandha, the patient should be managed with Vamana Dravyas such as Madanaphala, Gambhari, or Mulethi decoction (Kwatha), as well as formulations prepared with Mulethi and Madanaphala, or Ikshu Rasa. Once the aggravated Doshas are eliminated effectively, the patient should be administered cooling (shitala) and sweet (Madhura) preparations in a sequential dietary regimen (Krama), beginning with Peya and followed by Vilepi.

If Kapha Anubandha is mild or if the Kapha is of a thin consistency, Nishotha Churna should be administered along with Madhura Dravyas for Virechana. When Kapha secretions are thick, Nishotha should be given with Tikta Rasa to promote effective purgation. In conditions where Kapha is thin, Rukhsa and Shitala ahara Dravyas, or preparations of Sneha and Avalehya, are indicated.

## According to Sushruta Samhita<sup>[13]</sup>

Pittaja Kasa should be managed using Ghrita preparations processed with Vidarigandhadi Gana, Utpaladi Gana, Sarivadi Gana, and Madhuradi Gana.

# According to Ashtanga Hrdaya [14]

In cases of Pittaja Kasa with Kapha Anubandha, Vamana should be administered using Ghrita as the vehicle. Drugs such as Madanaphala, Gambhari, Mulethi Kwatha, or formulations of Madanaphala-Mulethi Kalka combined with Vidari Rasa or Iksu Rasa are recommended. When Kapha is scanty or thin, Nishotha Churna with Madhura Dravyas is advised for Virechana. Conversely, in conditions with excessive Kapha involvement, Nishotha Churna should be administered with Tikta Rasa for purgation. Following proper elimination of Doshas, Shitala, Madhura, and Snigdha preparations should be prescribed as part of the Samsarjana Krama. If Kapha is dense and thick, a regimen of Shitala, Ruksha, and Tikta Dravyas in the form of Peya should be followed.

## Chikitsa Siddhanta of Kaphaja Kasa According to Charaka Samhita<sup>[15]</sup>

In a Balavan Rogi (a patient possessing good strength), management should begin with Vamana (therapeutic emesis). Thereafter, Kapha-nashaka measures should be adopted. Wholesome food articles that are Yava, Katu, Ruksha, and Ushna in nature are recommended.

## According to Sushruta Samhita[16]

In Kaphaja Kasa, management begins with Vamana, utilizing drugs such as Jayapala, Snuhi, and Dugdha. For Virechana, Kapha-nashaka Ushna Virechana Dravyas are indicated. For Shiro-virechana, drugs like Apamarga, Pippali, and Jayphal are prescribed. Following this, Kapha-nashaka Dravyas in the form of Dhuma and Tikta–Kashaya Svarasa Kwatha should be employed for Kavala-graha. Additionally, Ushna Avaleha and light, Kapha-soshaka meals are advised for patients of Kasa.

# According to Ashtanga Hṛdaya<sup>[17]</sup>

The resinous extract (Sneha) exuding from the burning wood of Devadaru should be administered along with Trikaţu and Yavak sara. Thereafter, purification

(Shodhana) should be performed using Tikta ushna Virechana Dravyas. Following Shodhana, Peya and Vilepi should be prescribed as part of Samsarjana Krama. Dietetic measures should include Ruksha, Ushna, and Ati-katu articles such as Yava, Mudga, and Kulatha. Along with these, formulations prepared with Kasaundi, Badi-Kateri, Yavak sara, and Pippali should be administered. Oils prepared with Tila, Sarshapa, and Nimba, as well as the meat soup of animals from Jangala and Vileshya jiva categories, are also recommended within the Samsarjana Krama.

#### Treatment of Kasa

	Shamana	Shodhana	Anubandi Dosha Chikitsa
Vataja Kasa			
Abhyantara	Sneha Gritha Ksheera Mamsa Lehya		<ul> <li>* Mala vibhandha – Anuvasana</li> <li>Basti</li> <li>* Mala shushka – Ghritha given after food.</li> </ul>
Bahya	Dhooma Pariksheka Abyanga		* Anubandha with Pitta & Kapha – Sneha virechana.
Pittaja Kasa			
Abhyantara	Lehya Choorna Ksheera	<ul><li>* Tanu kapha -Virechana</li><li>* Ghana kapha -Virechana with</li><li>Tikta dravya</li></ul>	* Kaphanubandha – Vamana * Vatanubandha – ghritha pana
Kaphaja Kasa	l		
Abhyantra	Lehya Choorna Gritha Kalka Kavalagraha	Vamana or Virechana with Kaphaghna Dravyas	* Pittanubandha causing Tamaka shwasa - treat like Pittaja Kasa. * Vatakaphajanya – Rooksha Annapana. * Shushka Kapha - snigdha Annarasa.

## Shamanaushadi for Kasa

	VATAJA	PITTAJA	КАРНАЈА
Choorna	Dhanyadhi choorna	Chitrakadi choorna	Hingwadi choorna
	Hingwadi choorna	Drakshadi choorna	Panchakoladi choorna
	Pathyadi choorna	Pippalyadi choorna	Pushkaradi choorna
	Vidangadi choorna		Talisadi choorna
			Yavaksharadi choorna
	Agasthya haritaki	Baladi leha	Kantakaryadi leha
	Chitrakadi leha	Drakshadi leha	Pippalyadi leha
Leha	Duralabhadi leha	Kantakari leha	Pushkaradi leha
	Dusparshadi leha	Katphaladi leha	Vamshalochana leha
	Nagaradhi leha	Kharjuradhi leha	Vyaghri kushmanda leha
	Vamshalochanadi leha	Musthadi leha	
	Vidangadi leha	Yoshadi leha	
Ghrita & Taila	Kantakaryad ghrita	Karanjadi ghrita	Dashamuladi ghritha
	Pippalyadi ghrita		Kantakaryadi ghritha
	Rasna ghrita		Kulathadhi ghritha
	Vyoshadi ghrita		
Dhooma yoga	Harathala dhooma		Haridradi dhooma
	Mansheeladhi dhooma		

	Prapondarikadi dhooma		
	Akshadi vata	Bhagottara vati	Kantakaryadhi kwatha
Vati	Aladhi gutika	Guda gutika	Kaphaghna vati
Rasayoga	Dashamula kwata	Karjuradhi vati	Katphaladi kwatha
Kshreera	Panchakola ksheera	Panchamuladi kwatha	Lavangadhi vati
&	Shrangavera swarsa	Tintidipatra kwatha	Marichadi gutika
Kwatha		Vartakaswarsa	Pippalyadi kwatha
			Pushkaradi kwatha

Rasa Yogas mentioned for Kasa Amrutarnava Rasa (B.R.) Chandramrita Rasa (B.R.) Kasa Kuthara Rasa (R.S.) Kasantaka Rasa (B.R.) Kasasamharabhairavi Rasa (B.R.) Lakshmivilasa Rasa (B.R.) Mahakaleshwara Rasa (B.R.) Nityodaya Rasa (R.S.S.) Panchamrita Rasa (B.R.) Vijaya Bhairavi Rasa (B.R.)

Ekamuliya Dravyas - having action on Pranavaha Srotas

Agnimantha, Apamarga. Bala, Bilva, Bharangi, Bruhati, Chitraka, Gajapippali, Gambhari, Gokshura, Haritaki, Jeevaka, Jeevanti, Kakoli, Kantakari, Kshreerakakoli, Madhuka, Mahameda, Mashaparni, Meda, Mudgaparni, Pippalimoola, Prushniparni. Pushkaramoola, Shati, Shyonaka, Vrushabaka, Yashtimoola.

## Pathya–Apathya Pathyas in Kasa Roga According to Acharya Charaka<sup>[18]</sup>

- •In *Vataja Kasa*, the patient should be maintained on a wholesome diet comprising *Shali and Sashtika* rice, barley (*Yava*), and wheat (*Godhuma*), along with meat soup prepared from domestic, marshy, and aquatic animals.
- •In *Pittaja Kasa*, the patient should be given cereals such as *Syamaka*, barley (*Yava*), and *Kodrava*, accompanied by sweetened meat soup of wild animals, or soup prepared from green leafy vegetables. Additionally, bitter vegetables in proper quantity are considered beneficial.

Madhu Varga	Madhu	Madhu	Madhu
Ikshu Varga	Ikshu Rasa, Sharkara. Guda	Ikshu Rasa, Sharkara.	Guda padartha
Taila Varga	Tila Taila, Sarshapa taila, Bilva taila		

### APATHYA IN KASA ROGA

Acharya Charaka not explain unwholesome diet of kasa.

## DISCUSSION

The historical review of *Kasa* illustrates a continuous evolution of medical thought in Ayurveda. From its earliest mention in the *Atharvaveda* as a complication of *Takman-jwara*, to detailed clinical classifications in the *Samhitas* and *Sangraha* texts, Kasa has been consistently recognized as both symptom and independent disease. The uniform emphasis on five classical types—*Vataja*, *Pittaja*, *Kaphaja*, *Ksataja*, and *Ksaya-ja*—demonstrates diagnostic precision, while expansions in later texts (e.g., *Harita Samhita*) reflect clinical adaptability.

Nidana such as smoke, dust, faulty diet, and suppression of urges closely parallel modern risk factors like allergens and pollutants. The *samprapti*, describing obstruction of *prana* and *udana vayu*, resonates with the biomedical mechanism of reflex coughing. Management emphasizes *samprapti vighatana* through *shodhana* and *shamana* therapies, with pediatric cases requiring gentler measures tailored to *rogi bala*. The inclusion of *upashaya–anupashaya* and prognosis shows remarkable clinical pragmatism. Thus, Ayurvedic descriptions of Kasa remain highly relevant, offering an integrative framework for understanding and managing respiratory disorders across ages.

### **CONCLUSION**

The review of *Kasa* across historical periods underscores the progressive refinement of Ayurvedic knowledge, from its ritualistic origins in the Atharvaveda to its structured clinical framework in the Samhitas and Sangraha texts, and its reinterpretation in the modern era. The consistent emphasis on causative factors, doshic involvement, and systematic classification highlights Ayurveda's diagnostic precision. The pathogenesis described in terms of prana and udana vayu obstruction finds resonance with modern concepts of the cough reflex, reflecting Ayurveda's observational accuracy. Therapeutically, the dual approach of shodhana and shamana chikitsa, tailored to dosha predominance and patient strength, illustrates Ayurveda's comprehensive strategy. For pediatric cases, the stress on gentle, balaappropriate interventions highlights its anticipatory and individualized orientation.

Thus, Ayurveda offers not only a historically rich but also a clinically relevant framework for understanding and managing *Kasa*. Its principles remain significant in contemporary practice, providing valuable insights for integrative approaches to respiratory health across both pediatric and adult populations.

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