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"Ayurveda's Hidden Allies: A Fresh Look at Krimi and Its Therapeutic Strategies"

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ABSTRACT:

Krimi in Ayurveda is a broad term that encompasses both worms and microscopic organisms, which, from the perspective of modern science, can be correlated with helminths and microorganisms, including bacteria, viruses, protozoa, and fungi. During the Samhita period, Ayurvedic scholars provided a detailed account of Nidana (causative factors), Bheda (classification), Lakshana (clinical features), and Chikitsa (management) of Krimi. These classical descriptions reflect a profound understanding of pathogenic entities long before the advent of microbiology.

In contrast, modern science has established distinct disciplines such as microbiology and helminthology to study these organisms. However, the Ayurvedic concept of *Krimi* unites these diverse entities under a holistic framework that includes both external and internal parasites. Various *Acharyas* have classified *Krimi* based on origin, site of manifestation, symptoms, and treatment principles, which bear significant parallels to modern classifications of infectious and parasitic diseases.

This review explores the Ayurvedic understanding of *Krimi* and its relevance in the context of contemporary parasitology and microbial science, highlighting the timeless applicability of Ayurvedic insights in understanding infectious pathologies.

Keywords: Krimi, Ayurveda, Samhita period, microbiology, helminthology, parasites, infectious diseases

Introduction

Ayurveda, the ancient healing system of India, offers a unique way of understanding not just the human body and mind, but also the invisible organisms that influence our health. Long before microscopes were invented or modern microbiology was born, Ayurvedic scholars had already described disease-causing entities called *Krimi*. This term, although often translated simply as "worms," actually refers to a wide range of living organisms some that are visible, and many that are not. In today's language, *Krimi* could refer to parasites, bacteria, viruses, and even other microscopic organisms. What's remarkable is how intuitively and systematically Ayurveda approached these tiny troublemakers.

The idea of *Krimi* isn't just limited to one text or era; it has roots in the ancient Vedas, especially the *Atharvaveda*, where references are made to harmful creatures present in water, soil, plants, animals, and even within the human body. These early descriptions hint at an understanding of infectious diseases and environmental health that is surprisingly ahead of its time. While modern science often separates microorganisms into different categories like bacteria, viruses, fungi, and helminths, Ayurveda viewed them as a collective force that could disturb the body's balance.

The term *Krimi* is defined in *Shabdakalpadruma*² as "*Bhrame Samprasarane Cha*," indicating organisms that move using limbs or legs (podia). Vedic literature describes various natural sources of *Krimi*, including mountains (*Parvata*), forests (*Vana*), medicinal plants (*Oushadhi*), animals (*Pashu*), and aquatic environments (*Apshu*). Linguistically, the word *Krimi* is derived from the root "*Kunja Himsayam*", which implies causing harm or destruction. Ayurvedic texts like *Charaka Samhita* and *Sushruta Samhita* go further to divide *Krimi* into those that can be seen (*Drishta*) and those that are invisible (*Adrishta*), a classification that hints at microbial life long before such things were seen under a lens.

Classical Ayurvedic physicians didn't stop at naming and classifying *Krimi*; they also described how they enter the body, how they behave, and most importantly, how they can be treated. They recognized that some *Krimi* live in the digestive tract, some in the blood, and others on the skin. Some are

harmless cohabitants, but others, when conditions are right, can become harmful. The causative factors of Krimi, both external (Bahya Krimi) and internal (Abhyantara Krimi), are outlined in Ayurvedic texts. External Krimi are primarily produced due to unhygienic and dirty habits, referred to as "Mrija Barjana," which involve neglecting proper cleanliness and hygiene, making individuals susceptible to infections by parasites or pests. Internal Krimi, on the other hand, arise due to a variety of dietary and lifestyle factors. Common etiological factors for Abhyantara Krimi include Ajeernabhojana (consumption of improperly digested food), regular intake of Madhura (sweet) and Amla (sour) Rasa, which can disturb the digestive process, and excessive consumption of Drava substances (watery foods), which weaken the digestive fire (Agni). Other contributing factors include Guda (rich and fatty foods) and Virudhha Bhojana (incompatible food combinations), which lead to digestive disturbances and promote the growth of harmful microorganisms. Additionally, some physical factors such as Divaswapna (daytime sleep), which disrupts the natural bodily rhythms, and Avyayana (lack of exercise), which leads to sluggish digestion, also contribute to the formation and proliferation of Krimi. Therefore, maintaining proper dietary habits, hygiene, and physical activity is essential to prevent Krimi infestation and maintain overall health.

Table 1.1: Numbers of Bahya and Abhyantara Krimi as mentioned in different classics⁴

S.N.	Name of the text	Bahya Krimi	Abhyantara Krimi				Total No.
			Kaphaja	ra Raktaja	Purishaja	Shlesmaraktaj a	of Krimi Total no. of krimis
1.	Charak samhita ⁴	2	7	6	5	-	20
2.	Sushruta Samhita ⁵	-	6	7	6	-	20
3.	vagbhatta	2	7	6	5	-	20
4.	Harita Samhita	7	6	-	-	-	13
5.	Madhav nidan	2	7	6	5	-	20
6.	Sharangdhara ⁶	2	7	6	5	1	21
7.	Bhava Prakash ⁷	2	7	6	5	-	20

Table 1.2 Names of Bahya and Abhyantara Krimi as mentioned in different classics

			T			
Sr. No.	Charaka	Sushruta	Vagbhatta	Harita		
A. BAHYA						
1	Yuka	-	-	Krishna (yuka)		
2	Pipilika	-	-	Leeksha (Sweta)		
3	-	-	-	Charmdi		
4	-	-	-	Charmyukika		
5	-	-	-	Binduki		
6	-	-	-	Vartula		
7	-	-	-	Matkuna		
B. ABHYANTARA						
	Shleshm	aja Krimi				
1	Antrada	Dhanyankuranibha	Antrada	Dhanyankuranibha		
2	Hridayada	Suchimukha	Hridayada	Suchimukha		
3	Udarad	Chipita	Udaravestha	Kinchuksannibha		
4	Churu	Pipilika	Kuru (Churu)	Anawah		
5	Mahaguda	Daruna	Mahakuha	Sukshmah		
6	Saugandhika	Darbhapushpa	Sugandha	-		
7	Darbhakushma	-	Darbhakusuma	-		
	Purishaja Krimi					
1	Kakeruka	Ajwa	Kakeruka	-		
2	Makeruka	Vijya	Makeruka	-		
3	Sausurada	Kipya	Sausurada	-		

4	Sasulaka	Chipya	Saluna	-			
5	Leliha	Gandupad	Leliha	-			
6	-	Churu	-	-			
7	-	Dvimukha	-	-			
	Raktaja Krimi						
1	Keshad	Keshada	Keshada	-			
2	Lomada	Romada	Lomavidhvansa	-			
3	Lomadwipa	Nakhad	Lomadwipa	-			
4	Saurasa	Dantada	Udumbara	-			
5	Udumbara	Kikkisha	Saurasa	-			
6	Jantumatara	Kushthaja	Matraha	-			
7	-	Parisarpaja	-	-			

Table 1.3: Explanation of Krimis according to their name⁸

Table 1.3: Explanation of Krimis according to their name					
Name of Krimi	Explanation				
Antrada	Worms that eat the intestines or produce ulceration in the lower bowels.				
Udaravestha	Large worms that occupy and cover the entire abdomen or intestinal tract.				
Chipita	Plate-like worms (flat in shape).				
Hridayada	Worms that lick or affect the heart.				
Hridayachara	Worms that pass through or migrate via the heart.				
Churuvo / Churu	Worms that produce sound.				
Darbhapushpa / Darbhakushuma	Worms resembling the flower of darbha grass in appearance.				
Mahapushpa	Worms shaped like large flowers.				
Saugandhika / Sugandha	Worms that produce a peculiar or distinctive smell.				
Mahaguda	Worms with a large anus or a fully developed gastrointestinal tract.				
Praluna	Worms that break into pieces, resembling clusters of Taenia (tapeworm segments).				
Pipilika	Worms resembling ants in shape and size.				
Daruna	Hard or rough worms that cause pain and discomfort.				
Makeruka	Worms with rough ridges on the dorsal surface, similar to a crocodile.				
Leliha	Worms with snake-like, flickering tongue movements.				
Sashulaka	Worms that cause pain.				
Sausurada	Worms that cause fermentation in the gut and thrive on it.				
Gandupada	Worms resembling earthworms.				
Dvimukha	Worms with a mouth or mouth-like structure at both ends.				
Ajava	Worms that lack segmentation.				
Vijava	Worms that have segmented bodies.				
Prathumunda	Worms with a broad and flat head.				
Kanchukasannibha	Worms similar in appearance to earthworms.				
Dhanyankura	Worms resembling fresh paddy sprouts.				

Suchimukha	Worms with a pointed, needle-like mouth.	
Sukshma	Very small-sized worms.	
Anvaha	The smallest of all worms.	

Table 1.4 Symptoms mentioned in different classics

Sr. No.	Symptoms	Su. S.10	M.N.11	B.P.12	H.S.13	Y.R.14
1	Jwara (Fever)	+	+	+	+	+
2	Vivarnata (Depigmentation)	+	+	+	+	+
3	Shoola (Pain)	+	+	+	+	+
4	Hridroga (Heart trouble)	+	+	+	+	+
5	Bhrama (Vertigo)	+	+	+	+	+
6	Bhaktadwesha (Anorexia)	+	+	+	+	+
7	Atisara (Diarrhoea)	+	+	+	+	+
8	Sadana (Malaise)	+	+	+	-	-
9	Chhardi (Vomiting)	-	-	-	-	+
10	Swasa (Dyspnoea)	-	-	-	-	-
11	Vami	-	-	-	+	-
12	Jathara Garjanam	-	-	-	+	-
13	Mandagni (Poor Digestion)	-	-	-	+	-
14	Pipasa (Thirst)	-	-	-	+	-
15	Pitanetra (Jaundice)	=	-	-	+	-

This concept resonates with what we now know about the microbiome and opportunistic infections. Ayurveda's three-pronged treatment approach expelling the organisms (*Apakarshana*), disrupting their favorable conditions (*Prakriti Vighata*), and removing the cause (*Nidana Parivarjana*) matches well with modern principles of infection control and prevention.

TREATMENT OF KRIMI¹⁵

Acharya Charaka described three basic methods for the treatment of Koshtagata Krimi (intestinal parasitic infestations) as follows:

- 1. Apakarshana (Removal through Vamanadi Panchakarma procedures)
- 2. Prakritivighata (Breaking the pathogenesis)
- 3. Nidana Parivarjana (Avoidance of causative factors)

1. APAKARSANA

The term *Apakarshana* means to forcefully eliminate or scratch out the *dosha, mala, and krimi* (parasites) from the body. This process involves the *removal of unwanted components*, both manually and instrumentally, depending on the specific type of parasite or its location.

Apakarshana of Bahya Krimi (external parasites) involves manual methods such as scraping, squeezing, or surgical interventions.

Apakarshana of Abhyantara Krimi (internal parasites) is done by elimination techniques like Vamana and Virechana, which help to expel the parasites from the body.

Methods for Apakarshana include:

(i)Vamana:

This is a *purgation therapy* aimed at eliminating *vitiated doshas* (imbalanced humors), specifically *Kapha dosha*, through the upper part of the gastrointestinal tract. The *Amashaya (stomach)* is the site for *Kapha* production, and when this *dosha* is aggravated, it leads to the creation of *Kaphaja Vikara* (*Kapha*-related disorders) and *Kaphaja Krimi* (*Kapha*-related parasites). *Vamana* therapy is used to eliminate both the vitiated *doshas* and the *Kaphaja Krimi* through *vomiting*.

(ii)Virechana:

This is a purgative therapy that expels vitiated doshas through the lower gastrointestinal tract (intestines). Drugs used in Virechana should be both krimighna (parasite-killing) and purgative, helping to either kill the parasites or anaesthetize them, making them lose their consciousness. The peristaltic movements of the intestine then help in eliminating the parasites. This therapy is especially effective for treating intestinal worm infestations.

(iii)Shirovirechana:

This is a head purification therapy in which doshas located in the head, particularly in the sinus, are eliminated through the nose. It involves the use of drugs with katu (pungent), tikta (bitter) rasa, and ushna (hot) guna, which work on the nasal mucosa. This helps stimulate the nerve endings in the nasal passages, leading to the secretion of vitiated matter and krimis (parasites). These are expelled through the nose, cleansing the head and sinus areas. This technique is especially useful for krimi (parasites) that are localized in the sinuses.

(iv) Asthapana Basti

Asthapana Basti is a technique aimed at eliminating Krimi (parasites) from the large intestine. The active medicinal ingredients in Asthapana Basti reach the site of infestation directly, acting on the krimi residing there. Basti is categorized into three types:

- 1. Anuvasana Basti
- 2. Asthapana Basti
- 3. Uttara Basti

Acharya Charaka has emphasized the importance of Asthapana Basti for treating Krimi over Anuvasana Basti. This is because Anuvasana Basti uses oleative (oily) preparations that tend to favor the growth of parasites, whereas Asthapana Basti uses Kashaya Dravya (astringent herbs) that have the Karshan Guna (absorptive property), which helps inhibit the growth and activity of parasites.

(2) PRAKRITI VIGHATA

The term *Prakriti Vighata* refers to destroying the environment that supports the formation and growth of the *Krimi*. While *Samshodhan Chikitsa* (detoxification therapy) removes the *doshas*, mala, and *Krimi* from the body, without altering the underlying *Prakriti* (nature) of these parasites, recurrence of the disease is likely.

Prakriti Vighata involves using substances with Katu, Tikta, Kasaya, and Ushna Guna (pungent, bitter, astringent, and hot qualities) to disrupt the environment that sustains the growth of Krimi. Kapha and Purisha (intestinal contents) are the primary substrates for Krimi formation. Therefore, Acharya Charaka recommends using herbs that counteract the Kapha and Purisha to destroy the favorable environment for the parasites.

(3) NIDANA PARIVARJANA

Nidana Parivarjana refers to the elimination of the causative factors (Nidana) that promote the germination and growth of Krimi. This principle underscores the importance of Ahara (diet), Vihara (lifestyle), and overall conduct in preventing and managing parasitic infections. The causative factors that should be avoided include:

Kaphavardhaka Ahara (diet that increases Kapha), such as Madhura (sweet), Snigdha (unctuous), Guda (jaggery), Dahi (yogurt), and Dugdha (milk). Mithya Vihara (improper lifestyle), such as Divashayana (daytime sleep), which are considered conducive to the formation and growth of Krimi.

DISCUSSION

The concept of *Krimi* in Ayurveda is expansive and multifaceted, encompassing a wide range of organisms including visible parasites (helminths) and invisible microbes such as protozoa, bacteria, and viruses. The Ayurvedic understanding of *Krimi* Roga has evolved from intuitive observations in the Vedic period to systematic, clinical elaborations in the Samhita period, as seen in treatises like *Charaka Samhita*, *Sushruta Samhita*, and *Ashtanga Hridaya*. These texts offer detailed expositions on the types, etiopathogenesis, symptomatology, and therapeutic strategies for various types of *Krimi*.

Ayurveda classifies *Krimi* broadly into *Drishya Krimi* (visible to the naked eye) and *Adrishya Krimi* (invisible or microscopic). This classification is of immense significance, as it reflects an early conceptual distinction between macroscopic parasites, such as intestinal worms, and microscopic pathogens, which are comparable to the modern understanding of microbes. The *Adrishya Krimi* were recognized through *Anumana Pramana* (inference) based on clinical signs and symptoms such as itching, indigestion, emaciation, loss of appetite, abdominal pain, and behavioral changes, especially in children. The approach is strikingly similar to modern diagnostic principles where clinical symptomatology guides presumptive diagnosis in resource-limited settings.

The taxonomy of *Krimi* in Ayurvedic literature is further refined into categories such as *Raktaja Krimi* (blood-borne parasites), *Kaphaja* Krimi (those arising from vitiated Kapha), and *Purishaja Krimi* (those residing in the colon and formed due to improper digestion and fecal matter stagnation). The term *Adrashantor* used in the context of *Raktaja Krimi* indicates the Ayurvedic recognition of microorganisms or parasites that evade visual detection a concept highly consistent with modern microbiology and hematoparasitology.

The distinction becomes clinically relevant in current times, where intestinal helminthic infections such as ascariasis, enterobiasis, and hookworm infections can be likened to *Drishya Krimi*, while bacterial dysbiosis, protozoal infections (e.g., Giardia, Entamoeba), and viral enteropathies may be grouped under Adrishya Krimi. Further, the Purishaja Krimi, which is primarily formed due to vitiation of Apana Vata, improper dietary habits, and unhygienic conditions, closely corresponds to modern descriptions of intestinal microbial imbalances and parasitic infestations.

The ancient seers of Ayurveda also acknowledged the systemic impact of *Krimi*, particularly in vulnerable populations like children. Symptoms such as malnourishment, disturbed sleep, teeth grinding, perianal itching, and developmental delays are extensively described in Ayurvedic texts and bear strong resemblance to the clinical manifestations of parasitic infections in pediatrics as understood today. Moreover, psychological and behavioral disturbances associated with *Krimi Roga* point toward the Ayurvedic awareness of the gut-brain axis, a concept that has recently gained attention in modern integrative medicine.

Importantly, the approach of Ayurveda towards *Krimi Roga* is not merely symptomatic, but aims at complete eradication, prevention, and modulation of the host environment to resist reinfection. The *trividh chikitsa* or threefold management involving:

Apakarshana (elimination of parasites using Shodhana like Virechana and Basti),

Prakriti Vighata (modifying the internal milieu to make it inhospitable for parasites), and

Nidana Parivarjana (eliminating causative and predisposing factors) is a holistic protocol aligning with modern ideals of pathogen eradication, microbiome modulation, and hygiene-based prevention.

From a pharmacological standpoint, the *Krimighna Dravyas* mentioned in texts such as *Charaka Samhita Sutrasthana* 4/9, including *Vidanga* (Embelia ribes), *Musta* (Cyperus rotundus), *Ajamoda* (Trachyspermum ammi), and *Palasha* (Butea monosperma), exhibit proven antimicrobial,

anthelmintic, carminative, and gut-cleansing properties as per contemporary pharmacological research. This validates the ancient wisdom and opens avenues for integration into public health strategies for deworming, particularly in rural and under-resourced populations.

Moreover, the selection of *Basti* therapies such as *Shatprasritika Krimighna* Basti (medicated decoction enemas), particularly in the *Kala Basti* format, demonstrates the precise targeting of *Krimi* localized in the colon, a primary seat of *Purishaja Krimi*. The unique transrectal delivery mechanism ensures that the active ingredients bypass first-pass metabolism and directly affect the intestinal milieu. This local delivery of anti-parasitic agents is paralleled in modern practices like rectal administration of anti-helminthics or fecal microbiota transplantation (FMT) in certain cases of dysbiosis, showing the visionary outlook of Ayurveda.

Despite this rich and detailed framework, there are certain limitations and practical challenges in contemporary implementation. The lack of detailed morphological descriptions of individual *Krimi* species, absence of correlation with specific microbial pathogens, and difficulty in adhering to multi-step detoxification protocols (especially in pediatric cases) pose barriers to clinical acceptance. However, the foundational principles remain robust and adaptable to modern epidemiological needs when combined with diagnostic precision and evidence-based integration.

In essence, the Ayurvedic framework of *Krimi* Roga offers a deeply systemic, ecological, and preventive perspective, far beyond a superficial antimicrobial approach. Its emphasis on internal hygiene (*Antah Shuddhi*), immune modulation, and behavioral correction (*Achar Rasayana*) underlines a timeless and integrative model for the prevention and management of parasitic and microbial diseases, especially in the era of emerging antimicrobial resistance. What's even more interesting is that Ayurveda didn't always see these organisms as villains. Some were considered natural, even helpful, and were not to be disturbed. Today, we might recognize these as beneficial bacteria those that support digestion and immunity.

This review takes a closer look at the Ayurvedic concept of *Krimi*, tracing its origins in the Vedas and classical texts, and placing it side by side with our current understanding of microbiology and helminthology. By doing so, we hope to appreciate how deeply the ancient sages understood the unseen world, and how their insights might still inform our approach to health, hygiene, and disease in the modern age.

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