

EUROPEAN JOURNAL OF PHARMACEUTICAL AND MEDICAL RESEARCH

www.ejpmr.com

Review Article
ISSN 2394-3211

EJPMR

A REVIEW ON AYURVEDIC CONCEPT OF KRIMI & ITS MANAGEMENT BY PATHYA APATHYA

Dr. Purushottam Chand Jogi*¹, Dr. Smt. Namrata Khobragade² and Dr. Kamna Singh²

¹PG Scholar, PG Deparment of Roga Nidana Evum Vikriti Vigyan, Govt. Ayurved College Raipur C.G. ²Reader, PG Deparment of Roga Nidana Evum Vikriti Vigyan, Govt. Ayurved College Raipur C.G.

*Corresponding Author: Dr. Purushottam Chand Jogi

PG Scholar, PG Deparment of Roga Nidana Evum Vikriti Vigyan, Govt. Ayurved College Raipur C.G.

Article Received on 24/04/2020

Article Revised on 14/05/2020

Article Accepted on 04/06/2020

ABSTRACT

In Ayurvda many acharyas mentioned the term of Krimi and most at the author described the etiology (samuthana), location (sthana), farm (sansthan), colour (varna), name (name), effect (prabhava), treatment (chikitsa) of the Krimi. Ayurvedic physicians were well aware about Krimis & Krimirog. Krimi are classified into two groups Bahya & Abhyantar Krimi. Abhyantar krimi are further sub classified in to three groups-1.Raktaj 2.Kaphaj 3.Purisaj And Acharya charaka has described three folded treatment of Krimirog. Apakarshan, Prakritivighata and Nidanparivarjana. Soil transmitted Helminth infaction are among the most common infections worldwide and affect the poorest and most deprived communities. They are transmitted by eggs present in human faeces which in turn contaminated soil in areas where sanitation is poor. The main species that infect people are the roundworm (Ascaris lumbricoides), the whipworm (Trichuris trichura) and the Hookworm(Necator americance). In 2016, 38 countries have reached the world helth assembly's target of treating at least 75% of school aged children for the disease.

KEYWORDS: Krimi, Worms, Helminthis.

INTRODUCTION

In Ayurveda several *nidanas* has mentioned for development of krimi (microbes) in human body like Ajirna (indigestion), Adhyashana (eating before the previous meal has been digested), Asatmyaahara, Virudhasana, Malinasana (incompatible or unhygienic meal sedentary habit), Avyayam, Diwaswapna (sleeping during the day), Guru (heavy), Atisnigdha (very fatty), Atisheet Ahara-Vihara (cold food) and, excessive use of Masa, Pishthanna (pasted food), Dal(legumes), Mrinaal Kand (stalk and root of lotus), Sura (wine), Dhadhi (yoghurt), Dugdha (milk), Guda (jaggery), Sirka and Tilkalka (sesamum cakes) Anupmansa (minced food of swampy animals), Pinyaka, Prithuka and Ekshurasa (sugarcane juice) and Madhura (sweet) and Amla (sour) liquid drinks lead to the excitation of kapha and pitta which in turn produce worm of various type and sizes at different sites in the body.[1]

Krimis (parasites) are spoken of as two kinds. viz *bahya* (external) and *abhyantara* (internal). These are of four kinds - as arising from external dirt, *kapha*, *asrika* (blood) and *mala* and twenty kinds by name. [2]

In modern medical sciences there is separate branch for worm and microbes i.e. Helminthology and Microbiology.

Acharya charaka has described three folded treatment of *Krimi roga.* $^{[3]}$

- 1. *Apakarshana means*:- To eliminate the *dosha*, *mala* and *krimi sanghaata* forcefully.
- 2. *Prakriti vighaata means*;- distraction of susceptible environment of *Krimi*.
- Nidan parivarjana means:- Avoid the causative factor.

Aims and Object

- To review on basic concepts of *krimiroga*.
- To review on Krimi roga management by pathya apathya.

Origin and Type^[4]

The organisms thriving upon *kapha*, *mala* and *asrika* usually originate in the stomach and the small intestine, colon and inside the blood vessels respectively.

The twenty species of worms originating from the three sources *Kapha*, *Mala* and *Asrika*.

Types^[5]

According to their source Krimis are of four kinds

- 1. They are born of *Mala*
- 2. They are born of *Kapha*
- 3. They are born of *Asrika*
- 4. They are born of body excretion

Then are again classified in four groups namely

- 1. PURISHAJA
- 2. SLESHMAJA
- 3. SHONITAJA
- 4. *MALAJA* (ch.vi.7/9)

Dietry Origin^[6]

Faecal Origin:- Excessive consumption of :- *Masa*, *Pisthanna* (pasted food), *vidala* (legumes) and *Parnashaka* (leafy vegetable).

Tabel 1: Nomenclature of Krimi In Samhita.

Kaphaja Origin:- Habitually eating meat, Masa, Guda (jaggery), Dugdha (milk), Dadhi (yoghurt), and Tail (oil).

Haematogenous Organisms: Product by incompatible, diets, indigestion and unwashed, leafy, vegetables.

NO	Types Of Krimi	Charak samhita viman ^[7]	Sushruta samhit ^[8]
1.	BAHYA KRIMI	Yuka, Liksha	_
2.	KAPHAJA KRIMI	Antrada, Udarada, Mahaguda, Hridyachara, Mahaguda, Churu, Darbhapushpa, Sugemdhika.	Darbhapushpa, Mahapush Papraloon, Chipita, Pippalika, Daruna.
3.	RAKTAJA KRIMI	Keshada, Lomada, Lomadvipa, Sourasa, Udumbara, Jantumatra.	Keshada, Romada, Nakhada, Dantada, Kikkisha, Kushtaja, Parisarpa.
4.	PURISHAJA KRIMI	Kakeruka, Makeruka, Leliha, Sashoolaka, Shausurada	Ajwa, Vijawa, Kipya, Chipya, Gandupada, Churu, Dvimukha.

Krimi Roga Samprati Chakra^[25]

Intake of vishista nidana sevana

(Masa, Dugdha (Milk), Dadhi (Yoghurt), Guda (Jaggery), Madhur (Sweet), Amla (Sour))

Tridosh prakupita(kaphaj pradhan)

Mandagni

Asamyaka pachana

Ajirna

Krimi roga uttpatti(Bahya & Abhyantara)

Samprapti Ghataka of Krimi Roga.^[9] DOSA- Tridosaja (kapha pradhana)

DUSYA-Dhatu-Rasa, Rakta, Mamsa, Meda, Asthi,

Majja **Upadhatu-** Sira, Twacha, Snayu

Sarira ka mala- Purisa, Mutra

Dhatu mala-Kapha, Kesa, Loma, Nakha

Agnidusti- Mandagni

Srotas- Purushvaha, Annavaha, Raktavaha, Mamsavaha, Swedavaha

Srotodusti- Sanga,

Udbhavasthana- Amasayottha & pakvasayottha Adhisthana- Amapakvasaya, Dhamni, Tvacha

Vyaktasthana- Guda, Tvacha, Mukha

Svabhava- Chirakari, Asukari

Ryaoga Bheda- Bahya, Abhyantara

Sadhyaashadhyata-Shadhya

General Clinical Features^[10]

- Jwara (Fever)
- *Vivarnata* (Discoloration of the body)
- Shula (Pain in the abdomen)
- *Hridroga* (Heart disease)
- Bhrama (Giddiness)
- Bhaktadvesha (Aversion to food)
- Atisara(Diarrhea)^[10]
- Sadan (Malaise)

Table 2: Nomenclature, Morphology And Clinical Manifestation. [11]

KRIMI	MALAJA KRIMI	RAKTAJA KRIMI	SLESHMAJA KRIMI	PURISHAJA KRIMI
SAMUTHAN (ETIOLOGY)	Mrijavarjanam (Lack of cleanliness)	-Kusthe samanam (Causing-dermetosis -ingetion of incompatible food -uncoated vegetable	Kshir, Guda, Tila, Matsya Anupmansa, Pisthanna, Kusumbha Sneha, Ajirna, Durgandhi, Klinna Sankirna Asatmya Ahara. (milk, Jaggery, Sesamum, fish, meat, flour, rice cooked in milk, oil of sunflower uncooked stale, infected items)	Intake of foods prepared from mansa pistanna pulses and leafy vegetable.
STHANA	Kesh,	Raktavahi dhamni	Amasaya(stomach), Pakvasaya when loped they m	
(HABITAT)	shamshru,loma,	Blood carrying	when developed they	towords. Amasaya then the

	pakshma vasansi (Hairs, beards small hair, eye lashes and clothing)	vessels	move upwords or dounward or both ways.	eructation and breath of the patient produce fecal odour.
SANSTHANA (FORM)	Sookshma, Tilakriti, bahupaad (Minute, til- shped, and multipede)	Anu Vritta,Apadaha (Minut, round, having no pedicle)	-Prithu or Visal (Tape Like) -Vritta (Round Like) -Gandupada Akriti (Earthworms) -Anu (Some Are Small), -Dirgha Tantvaakara (Long Threadlike).	-Sukshma Vrittaparinaha,Dirgha Unasusankasam Some Are Sthul Vrittaparinaha -(Round Like Some Are Small, Long Threadlike.)
VARNA (COLOUR)	Krishna or shukla (black or white)	Tamra Varna (Coppery red)	-Sweta Tamra Avbhas(some are white and broad.Tape like -some are round like earth worm, white and coppery, thread like and white).	Shwet, syaw, nil, harit, pitta(Thise are white in color blackish, blue green and yellow)
NAME	Yuka And Pipilika (Lice And Nits)	1.Kesada, 2.Lomada 3.Lomadvipa, 4.Sourasa, 5.Audumbara 6.Jantumatra (Charak) 1.Kikkisa, 2.Kusthaja 3.Parisarpa 12 (Susruta)	-Untrada, -Udarada, -Hirdayachara, -Churu, -Darbhapuspa, -Sougandhika, -Mahaguda.	Kakeruka, Makeruka, Leliha, Sasuluka, And Sousurada(By Charak) -Ajava, Vijava, Kipya, Chipya, Gandupada, Churva, And Dvimukha. ^[12]
PRABHAVA (CLINICAL FEATURES)	Kandujanan koth, pidika (Itching, production of wheals, pimple on the body)	Kesh Sramsu,Nakha, Loma Pakshma,- Vidwanse (Destruction of the hair on the head, face and body, nails and eye lashes) -Harsha (Hypersthesia) -Kandu(Itching) -Toda(Pricking pain)	-Hallas(Nousea-Salivation) - Ashyasansravan(Anor exia) - Arochaka(Indigestion) - Jwar(Fever) - Murchha(Fainting) - Jrimbha(Yowning) - Chavathu(Sneezing) - Angamarda(Body Ache) - Anaha (Hardness In Bowels) - Chardi (Vomiting) - Parusya(Emaciation)	Purishbheda, Karsya, Parusyam, Lomaharsha, Gud Mukhamatoda, Gudmukham Paryasate, Jat harsa, Gudniskraman Ativellam. (Diarrhoea, Emaciation, Drynesswhen they reach rectum, they produce, piercing pain and itching in the anal region, pain in the abdomen, dyspepsia anaemia constipation, nousea loss of test, heart disease)
CHIKITSA (TREATMENT)	Apkarshana malopghat Removal of the dirt on the body and avoidence of conditions leading to the formation of excretion	Kusthe samanam chikista. (Raktamokshan and virechana chikitsa like kustha)		-

Table 3: Following The Total Number Of *Krimi* According To Their Sites Are Mentioned In Different Ayurvedic Classics.

NO	NAME OF THE TEXT	Bahya Or Malaja	Abhyantara krimi(internal)			Total No. of krimi	
NO	NAME OF THE TEXT	Krimi (External)	Kaphaja	Raktaja	Purishaja	Total No. of Krimi	
1.	CHARAKA SAMHITA ^[13]	2	7	6	5	20	
2.	SUSHRUTA SAMHITA ^[14]	-	6	7	7	20	
3.	VAGBHATA ^[15]	2	7	6	5	20	
4.	MADHAVA ^[16]	2	7	6	5	20	

Table 4: Showing the site of krimi as mentioned in brihatrayi.

NO.	TEXT	MALAJA	RAKTAJA	KAPHAJA	<i>PURISHAJA</i>
1.	CHARAKA SAMHITA ^[17]	KESHA,SHAMASRU LOMA,MALIN VASTRA,	RAKTAVAHINI DHAMANI	AMASHAYA	PAKVASHAYA
2.	SUSHRUTA SAMHITA ^[18]	-	DHAMNI	AMASHAYA	PAKVASHAYA
3.	ASTANGA HRIDAYA ^[19]	KESH,LOMA	RAKTA VAHI SIRA	AMASHAYA	PAKVASHAYA

Pathya And Apathya (Salutary And Unsalutari Diets)
Pathya Ahara. Obviously Katu (better) and Tikta
(pangent) meals are beneficial in these cases alkaline drinks with kulattha kshara are also advantageous.

Katu rasa ahara^[21]

Shigru - moringa oleifera
 Rasona -allium sativum
 Gugglu -commiphora mukul
 Ginger -zingiber officinale
 Parnas -mentha spicata

Tikta rasa ahara

• Haridra -curcuma longa

• Kutaja -halarrheria antidysentrika

Karvellak -momordica charantia

• Vartaku -solanum melongena

Pathya Vihar. [22] Vamana, Virechan, Shirovirechana, Asthapan Basti, Dhumpan, Abhyanga, Lep, Usadana. Apathya Ahara. [23] The patient desirous to be cured of the parasitic infestation should avoid taking all types of

- Dugdha(Milk)
- *Mansa*(Meat)
- Ghrita
- Dadhi (Yoghurt)

All sour, sweet and cold substance.

Apathya Vihar.^[22] Vegvidharana, Vamana Veg Vidharana, Divaswapna.

CONCLUSION

Krimi roga is not a new disease because it was mentioned in old samhita period. Krimi roga is correlated with Helminthology in modern science. Krimiroga mainly seen in rural area specially children are affected because children eating infected food and play in infected areas so results worm infection like diarrhea dysentery house illness through malnutrition including vitamin deficiency, anemia, protein energy

malnutrition. Management of *Krimiroga* described by text of Ayurveda are step by step But rural people are less aware of worm, which make them sick from the worm.

REFERENCES

- Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No.3,4 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 412.
- Asthanga Samgrha Of Vagbhata Volume 3, Nidanasthan Chapter-14 Verse No.-44-46, Translated By Prof.K.R. Srikantha Murthy, Choukhambha Orientalia Varanasi, 9th Edition, 2005; 240.
- 3. The Charaka Samhita Volume-1st Redacted By Caraka & Drdhabala Vimanasthana Chapter 7th Verse No.-14, Publisher Choukhambha Orientalia Varanasi., 2008 Edition; 842.
- 4. Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No 6 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 412.
- The Charaka Samhita Volume-1st Redacted By Caraka & Drdhabala Vimanasthana Chapter 7th Verse No.9, Publisher Choukhambha Orientalia Varanasi., 2008; Edition; 838.
- The Charaka Samhita Volume-1st Redacted By Caraka & Drdhabala Vimanasthana Chapter 7th Verse No.10,13, Publisher Choukhambha Orientalia Varanasi., 2008; Edition 838,
- 7. Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No.8,12,15 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 413-414.
- 8. Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No.17,18 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 414.
- 9. Ayurvediya Vikriti Vigyana & Roga Vigyana Dr.P.S Byadgi Volume 2 Chapter 52, Verse No 3,6

- Choukhambha Publications Reprint Edition, 2012; 472,473.
- Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No.18 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 414.
- The Charaka Samhita Volume-1st Redacted By Caraka & Drdhabala Vimana Sthana Chapter 7th Verse No.10,13, Publisher Choukhambha Orientalia Varanasi., 2008; 838-842.
- 12. Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No.8-16 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 413.
- 13. The Charaka Samhita Volume-1st Redacted By Caraka & Drdhabala Vimana Sthana Chapter 7th Verse No.10,13, Publisher Choukhambha Orientalia Varanasi., 2008; 838-842.
- 14. Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No.8-16 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 413.
- 15. Asthanga samgrha of vagbhata volume 3, nidana sthan chapter-14 verse no.46-58, translated by prof.K.R. Srikantha Murthy, choukhambha orientalia Varanasi, 9th edition, 2005; 240-241.
- 16. Madhava Nidanam (Roga Viniscaya) Of Madhavakar, Translated Into English By prof.K.R.Srikantha Murthy Chapter 7 verse no 9-16 Choukhambha Orientaliya Varanasi.
- 17. The Charaka Samhita Volume-1st Redacted By Caraka & Drdhabala Vimana Sthana Chapter 7th Verse No.10,13, Publisher Choukhambha Orientalia Varanasi., 2008; 838-842.
- 18. Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No.8-16 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 413.
- 19. Asthanga samgrha of vagbhata volume 3, nidana sthan chapter-14 verse no.46-58, translated by prof.K.R. Srikantha Murthy, choukhambha orientalia Varanasi, 9th edition, 2005; 240-241.
- Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No.39-40 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 418.
- 21. The Charaka Samhita Vidyotani Hindi Commentary By Kashinath Shastri 7gorakhnath Chaturvedi Volume-1st Rogabhishagjitiyamvimana Adhyay Chapter 8th Verse No.141, Publisher Choukhambha Bharti Academy Varanasi., Reprint Edition, 2013; 761,762.
- 22. Kayachikitsa Prof. Ajaykumar Sharma Part 2 Chapter 55 Choukhambha Orientalia Varanasi, 2011; 792.
- Sushruta Samhita Translated By Dr.G.D. Singhal And Calleague Part 3 Uttartantra Chapter 54, Verse No.39-40 Choukhambha Sanskrit Pratishthan, Second Adition, 2007; 418.

- 24. The Charaka Samhita Vidyotani Hindi Commentary By Kashinath Shastri 7gorakhnath Chaturvedi Volume-1st rogbhishgjitiyamvimana Adhyay Chapter 8th Verse No.14, Publisher Choukhambha Bharti Academy Varanasi., Reprint Edition, 2013; 728-734.
- 25. The principles and practice of kaya cikitsa volume 2 by Dr.suresh babu chapter 18, Choukhambha Orientalia Varanasi.