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### DRUG EFFICACY OF *KHADIRADI KASHAYA* FOR *PURISHAJ KRIMI*. (WORM INFESTATION)

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#### ABSTRACT:

There are two types of *Krimi* existing in human body– *Sahaj* & *Vaikarik Krimi*. Among them, *Vaikarik Krimi* is causative factor for disease in human being. It is said that *Krimi* may be one cause for *Kushtha*, *Pandu*, *Grahani*, and *Karshyata*. *Purishaja Krumi* means "krumi born in the stools, which desire to migrate in the body from one organ or system to another, that which has the capacity to penetrate from one tissue to another and which gets nourishment from *mansa*." In this era of fast-food people are lacking in awareness about nutrition and intake of diet, dietary habit due to this many patients remains as it is or without diagnosis. Aim of study is to see the efficacy of *Khadiradi Kashaya* – oral drug in *Purishaj krimi* (worm infestation). *Khadiradi kashaya* could be an alternate choice Antihelminthic drugs in the management of *Purishaj krimi*; it has potential to cure the disease and having potential to cure symptoms like *vidbheda*, *shool*, *agnisada* and *jwar* of *Purishaj krimi*. *Khadiradi Kashaya* described in *Yogratnakar* having utility in the management of *Purishaj krimi*.

**KEY-WORDS:** *Purishaj krimi*, *Kushtha*, *Pandu*, *Grahani*, *Karshyata*

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**INTRODUCTION:**

Intestinal worm infestation is one of the major concerns in childhood health problems in developing countries. In *Ayurveda*, various types, diagnosis & management of *Krimiroga* described in detail in all *Samhitas*. By etymology, *Krumi* may be defined as the one which causes sufferings.<sup>1</sup> In Vedas also references have been cited regarding *Krimi*. In human body there are two types of *Krimi* – *Sahaj & Vaikarik Krimi*.(Charak *Viman sthan*7/9) Among them *Vaikarik Krimi* are harmful to human being. It is thought to considered that *Krumi* is one of the causes for *Kushtha*, *Pandu*, *Grahani*, *Karshyata*. Children are more sufferer comparison to adult.<sup>2</sup> Since worms are normally found in all human

beings, mostly they are asymptomatic, symptoms observed with a few worms living inside the intestines.

**Krimi Samanya Chikitsa:** Acharya Charaka has narrated the basic principle in the treatment of *Krimi* in the *Vyadhita rupiya adhyaya* of *Vimana Sthana*.<sup>3</sup> Consecutive adoption of the three methods of treatment has been stated which are- *Apakarshana*, *Prakruti Vighata* and *Nidana Parivarjana*.<sup>4</sup>

Acharyas Charaka,<sup>5</sup> Sushruta<sup>6</sup>, Vagbhata<sup>7</sup> and other Acharyas have given a systematic description of *Krimi rogas* including their classification, causative factors, signs and symptoms and treatment.

**Table. 1 Types of Krumi:**

Sr. no.	Name	Bahya Krumi	Abhyantara Krumi			
			Total	Kaphaja	Purishaja	Raktaja
1	Charaka	2	18	7	5	6
2	Sushruta	-	20	6	7	7
3	Vagbhata	2	18	7	5	6
4	Madhavkara	2	18	7	5	6
5	Bhavaprakash	2	18	7	5	6
6	Sharangadhara	2+1	18+1	7	5	6
7	Harita	7	6	-	-	-

**Table No. 2 Types of Purishaj Krumi according to Bruhattraï samhita:**

No	Charaka	Vagbhata	Sushruta
1	Kakeruka	Kakeruka	Ajawa
2	Makeruka	Makeruka	Vijawa
3	Sausurada	Sausurada	Kipya
4	Sasheluk	Saluna	Chipya
5	Leliha	Leliha	Gandupad
6	-	-	Churu
7	-	-	Dwimukhaha

**Krimi Lakshana** (Symptomatology): In clinical signs and symptoms of *Abhyantara Krimi*, Acharya *Susruta* and *Madavakara* have mentioned – *Ajeerna* (indigestion) and *Angnimandhya* (loss of digestive power) *Jwara* (fever), *Vivarnata* (discolouration), *Shoola* (pain), *Hridroga* (diseases of the heart), *Bhrama*,

*Bhaktadwesa* (disinterest towards food) (giddiness), *Atisara* (diarrhoea), *Sadana* (tiredness), *Chardi* (vomitting) and *Swasa* (breathlessness).<sup>8</sup>

#### Objectives-

1. To study the efficacy of *Khadiradi Kashaya* – oral drug in *Purishaj krimi* (worm infestation).

#### Contents of Khadiradi kashay:<sup>9</sup>

Table no.3 Showing Guna, Properties, Chemical Composition of Khadiradi kashay.

No.	Drug Name	Latin Name	Useful Part	Rasa	Veerya	Vipak	Chemical Composition
1	Khadir	Acacia Catechu	Twak, Khadirsal	Tikta, Kashay	Sheet	Katu	Catechine, Catechu Tanic Acid
2	Kutaj	Holerrhena Antidysent erica	Twak & Beej	Tikta, Katu, Kashaya	Sheet	Katu	Conessine, Fruit extract shows anti-protozoal effect against E.hystolytica
3	Nimba	Azadiracta Indica	Pushpa, Twak, Patra, Beej & Tail	Tikta, Katu, Kashay	Sheet	Katu	Nimbin, Nimbunin, Nimboesterol, Tanin,& Margosin, volatile
4	Vacha	Acorus Calainas	Bhaumik Kand	Tikta, Katu	Ushna	Katu	Volatile oil, Acrinil aldehyde A-aceron B-aceron, Acorin.
5	Nishottar	Opreculina Turpethum	Mool	Katu, Kashay, Madhur, Tikta	Ushna	Katu	Turpethin in roots - glycosides
6	Amalaki	Emblica Officinalis.	Phal	Amla, Madhur, Katu, Tikta, Kashay	Sheet	Madhur	Galic acids in fruits, tanic acids, gum, glucose,

							albumin, cellulose
7	<b>Haritaki</b>	Termenilia chebula.	Phal	Kashay, Madhur, Amla, Tikta, Katu.	Ushna	Madhur	Tanin in fruits, Cebulic acids, Cailagin, quinic
8	<b>Bibhitak</b>	Terminalia belerika	Phal	Kashay	Ushna	Madhur	Tanin, B-systesterol, Galic acids, mannitol, galctose, fructose.
9	<b>Shunthi</b>	Zinzibarac eae officinale	Ardra & Shuska Kand	Katu	Ushna	Madhur	oil of ginger, zingiberin, zingerol, zingiberis.
10	<b>Marich</b>	Piper nigrum	Phal	Katu	Ushna	Katu	Payperin, Payparidin, Piperatin & volatile oil, Ca++, P++Vit-A.
11	<b>Pippali</b>	Piper longum	Phal	Katu	Anushna	Madhur	Piperin, Piperartin, siserin, Piplasterol
12	<b>Gomutra</b>	Cow-urine		Katu, Tikta, Kashyay.	Ushna	Katu	-

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#### DISCUSSION:

Since kled and ama serve as the building blocks for *Krumi Utpatti*, their presence in excess or greater amounts in the human body increases the likelihood of agnimandya and *Purishaja Krumi's* development. The primary causes of purishaj krumi are thought to be *Masha, Gud, Pishtmma, Til, Sngidha, and sheet ahar, Lavana rasatmak ahar, Anoop mansa, Madhura rasatmak ahar, Kusumbha sneh,*

*Viruddha ahar, Avyayam, Paryushit ahar, Divaswap, and Asatmya ahar.*

Eating outside food like fast food, bakery product, eating vada pav, samosa, pav bhaji, eating non veg foods, the properties of these food items are ushna, tikshna, vidahi, and guru (heavy for digestion). *Madhura ras* is heavy for digestion because it is having pruthvi and jala mahabhuta pradhan. This leads to aggravation of Kapha, which causes agnimandya. These give rise to

*kshudhamandya*, thus aggravating *amotpatti* and ultimately resulting in excess *kled utpatti* which results into *krumi* in the stomach and intestine.

#### **Khadiradi Kashaya:**

*Khadiradi Kashaya* having drug like Khadir, Kutaj, Nimba, Vacha, Nishottar, Amalaki, Haritaki, Bibhitak, Shunthi, Marich, Pippali and Gomutra having properties like *krimighna*, *kandughna*, drug like *Khadir*, *Kutaj*, *Nimba*, *Vacha* and *Nishottar* having laxative property while *Triphla & Trikatu* has *deepan* as well as *pachan* property. *Gomutra* has *lekhan* and *sara* property. Overall this formula was dominantly having *katu*, *tikta* and *kashaya rasatmak guna* and having *tikshna guna* along with *ushna virya* which results in destruction of *samprati* of *Purishaj krimi*.<sup>10</sup> Cow urine, or gomutra, is described in Ayurvedic literature such as the Sushruta Samhita, Ashtanga Sangrah, and Bhav Prakash Nighantu as an excellent medicinal material or secretion of animal origin with numerous therapeutic purposes. In India, cows, or Kamadhenu, are revered as sacred animals.<sup>11</sup> Numerous studies have demonstrated the antimicrobial activity of CU from native and hybrid breeds against a variety of pathogens, including Salmonella typhi, E. coli, Proteus vulgaris, S. aureus, Bacillus cereus, Staphylococcus epidermidis, Klebsiella pneumonia, Pseudomonas aeruginosa, Pseudomonas fragi, Streptococcus agalactiae, Enterobacter aerogenes, Aeromonas hydrophila, Micrococcus luteus, Streptococcus

pyogenes, Streptomyces aureofaciens, Lactobacillus acidophilus and Bacillus subtilis, and Leishmania donovani.<sup>12,13,14.</sup>

#### **CONCLUSION:**

*Khadiradi Kashaya* is wonderful drug used for Worm infestation (*Krimi*) and it is found to be useful in many research studies and observed very effective in reducing signs and symptoms of *Purishaj krimi*.

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