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Review Article

A Critical Review of Kantakari (Solanum surattense Burm. f.) from Bhavaprakasha Samhita

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ABSTRACT:

Exploring a medicinal plant with its diverse uses can provide a basis for the better understanding. It is possible when the literary information on a medicinal plant along with its numerous formulations is compiled and studied. The best source for such activity is a compendium known as Bhavaprakasha Samhita- a link between medicinal plant, formulations and indications. In the present context, the literature was referred and studied critically from Bhavaprakasha Samhita. After analyzing, it was found that *Nidigdhika, Kantikari, Kshudra, Dusparsha, Vyaghri* are some synonyms of *Kantakari*. It have *Tikta* (Bitter), *Katu* (Pungent) *Rasa, Laghu* (Light), *Ruksha* (Dry), *Ushna* (Hot), *Sara* (Increases intestinal activity), *Tikshna* (Irritable) *guna, Katu* in *Vipaka* and *Ushna Veerya*. Having indications on *Kasa* (Cough), *Shwasa* (Asthma), *Pratishyaya* (Upper respiratory infection), *Jwara* (Fever), *Angamarda* (Bodyache), *Parshwapida* (Pain in upper abdomen), etc. In this article, an effort was made to review the importance and utility of the drug *Kantakari*. Total 22 references were found. Most of the formulations are in the form of decoction suggesting its more bioactivity in water extract. *Kantakari* have maximum number of references of parts used as roots indicating that most of its active constituents are present in roots. The claimed actions in classical text of Bhavaprakasha has also been supported by modern researches.

KEY WORDS: Bhavaprakasha Samhita, Kantakari, Solanum surattense Burm. f.

INTRODUCTION:

Bhavprakasha Samhita is one of the classical treatises among Laghtrayee (The lesser triad of Ayurveda). It has its unique contribution in understanding the properties and applications of herbs used in Ayurveda. compendium offers the knowledge on all parts of Ayurveda along with the details of the herbs used in practice. Thus the part of the Samhita dedicated to description on the herbs is also as Bhavprakasha Nighantu. Samhita is considered as mega bridge between the old treatises (Bruhatraee) and new thoughts and application regarding herbs. The Ayurvedic literature of medieval period suggests the use of Kantakari (Solanum surattense Burm. f.), a

prickly diffused herb, as a Pratinidhi Dravya for Bharangi (Clerodendrum serratum(Linn.) Moon). Drug substitution reference has been mentioned in Ayurveda as Abhava pratinidhi dravya. It is one of the unique concept mentioned in Ayurvedic texts like Yogratnakar, Bhavaprakasha and Bheshajya Ratnavali. [1,2,3] Bhavaprakasha was the first who mentioned this concept in 16 th century A.D. and then repeated subsequently in forthcoming Ayurvedic literature. For substitution, each drug is identified and characterized on the basis of its rasapanchaka attributes i.e. Rasa (taste), Guna (properties), (potency), Veerya Vipaka (metabolism), Prabhava (specific action) and

Karma (pharmacological action). [2,3] Exploring a medicinal plant with its diverse uses can provide a basis for the better understanding. It is possible when the literary information on a medicinal plant along with its numerous formulations is compiled and studied. The best source for such activity is a compendium known as Bhavaprakasha Samhita - a link between medicinal plant, formulations and indications. In the present context, the literature was referred and studied critically from Bhavaprakasha Samhita, for the drug Kantakari.

MATERIALS:

- 1. Sartha Bhavaprakasha of Ayurvedacharya P.G.Nanal Vaidya,in print form, 2th ed, Marathi Commentary, published by Chaukhambha Sanskrit Sansthan, Varanasi, reprint 2016.
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METHODS:

- 1. References of *Kantakari* in *Bhavaprakasha Samhita* was collected and compiled.
- 2. Formulations of *Kantakari* prescribed for the treatment of various diseases was collected.
- 3. Tabulation of total number of formulations mentioned for various diseases was done.
- 4. Literary analysis of the medicinal plant, synonyms, parts used, formulations and indications was comprehense.

OBSERVATION AND RESULTS:

Classification:

Kantakari is one of the ingredient of Laghupanchamoola and Dashaamoola. Kantakari has been mentioned as Dashamoola, Laghupanchamoola, Varunadi gana. Reference of Kantakari has found in Guduchyadi Varga, Mishraka Varga, Varunadi Gana.

Synonyms:

Various synonyms mentioned in *Bhavaprakasha Samhita* (*Purva Khanda*) are *Kantakari*, *Dusparsha*, *Kantalika*, *Kantakini*,

Dhavani, Kshudradwaya, Vyaghri, Bruhatidwaya, Nidigdhika, Kantakariyugma, Kshudra. The plant is fully covered with prickles which is its characteristic feature and it is supported by the synonyms like Kantakarika, Kantali, Kshudrakantaka, Bahukantaka, Kantakini etc. The synonym Chitraphala can be correlated with the appearance of unripe fruit variegated with green and white strips, ripe fruits show different yellow and white strips.

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Ayurvedic properties: Almost all the Nighantus mentioned *Kantakari* as a *Tikta* (Bitter), *Katu* (Pungent) *rasa*, *Ushna virya*(Hot potency) and *Laghu* (Light), *Ruksha* (Dry), *Ushna* (Hot), *Sara*(increases intestinal motility), *Tikshna* (irritating) *gunatmaka dravya*. It is having *ushna veerya*, *katu vipaka* also. Synonym *Kasaghni* is mentioned in most of the Nighantus. It is a *Kapha* and *Vata shamaka dravya*. The drug has been stated to treat majority of respiratory ailments.

Indication:

Therapeutically Kantakari has been indicated in Kasa, Shwasa, Jwara, Pinasa, Parshwashoola etc. According to classics, we can use root of Kantakari when mentioned otherwise panchanga can be taken while preparing formulations. Solanum Kantakari xanthocarpum Schrad. & Wendl. belongs to Solanacae family. Pachani (Digests undigested food material), Dipana (Increases digestive (Anti-tussive), fire), Kasahara Kaphashwasahara (Anti-asthmatic), Jwarahara (Anti--pyretic), Anilnashaka (Stabilizes vata), Pinasa nashaka (Lowers upper respiratory tract infection), Parshwapida (pain in upper Kruminashaka (Anti-bacterial), abdomen), Hridyaroganashaka(Heart diseases). (6) Karma: Kasa(Cough), Shwasa (Asthma), Pratishyaya (Upper respiratory infection), Jwara (Fever), Angamarda (Bodyache), Parshwapida (Pain in upper abdomen), Hridyaroga (Heart diseases), Admana (Bloating), Vibandha (Constipation), Ashmari (Renal calculus), Vamananashaka (Anti-emetic), Shotha (Inflammation), Hikka (Difficulty (Hiccough), Mutrakruchha urination).⁽⁷⁾

Formulations of *Kantakari* mentioned in *Bhavprakasha Samhita*: Various formulations

like Kwatha, Swarasa, Asava, Taila, Churna, Peya, Yavagu, Ghruta, Avaleha, Kalka, Manda, Ksheera, Kheerapaka etc has mentioned but Kwatha formulation has been mentioned maximum times. It may be because maximum

phytoconstituents are soluble in water which makes the bioavailability of the phtoconstituents easy. For reference all the above mentioned information has been presented in tabular form below.

Table No. 1: References of Kantakari in Bhavaprakasha Samhita (2)

	Τ.				ri in Bhavaprakasha Samhita (2	
Sr. No.	Adhyayay	References	Name of the Drug	part	Uses/Action/Rogadhikar/ Indication/Therapeutic Process/ Group	Visishtayoga/ Amayikaprayoga/ Context/Formulations
1.	Mishra Prakarana	B.P.p.k. 4/37,38,39,40,4 1,42.		Root	Deepana, Pachana, Kasa , Shwasa, Jwara, Kapha-Vata shaman, Pinasa, Parswashoola, Hridyaroga	Guduchyadi Varga
2.	Mishra Prakarana	B.P.p.k. 4/48	Dashamoola	Root	Tridoshaghna, Shwasa, Kasa , Shiroruja, Tandra, Shotha, Jwara, Aanaha, Parshwapida, Aruchinashaka.	Mishraka Varga
3.	Jwara Chikitsa Prakarana	B.P.m.k. 1/403	Kantakari, Laghu- panchamoola	-	Vataja Jwara, Kasa , Shwasa, Hikka	Kwatha, Peya
4.	Jwara Chikitsa Prakarana	B.P.m.k. 1/487	Dashamooli	Root	Vata-Kaphaja Jwara, Nidradhi- kya, Parswashoola, Shwasa, Kasa	Dashamooli Kashaya
5.	Jwara Chikitsa Prakarana	B.P.m.k. 1/506	Kantakari	-	Pitta-Kaphaja Jwara Yukta Daha, Trushna, Aruchi, Chardi, Kasa , Shoola.	Kantakaryadi Kwatha
6.	Jwara Chikitsa Prakarana	B.P.m.k. 1/652	Dashamooli	Root	Sannipataja Jwara, Kasa , Shwasa	Dwadashanga Kwatha
7.	Jwara Chikitsa Prakarana	B.P.m.k. 1/655	Dashamooli	Root	Sannipataja Jwara, Shitaja Jwara, Kasa , Shwasa, Hridyapida, Parshwashoola, Hikka, Vami, Udararoga.	Ashtadashanga Kwa- tha, Shitabhanji Rasa
8.	Jwara Chikitsa Prakarana	B.P.m.k. 1/688	Dashamooli	Root	Tandra, Pralapa, Kasa , Aruchi, Daha, Moha, Shwasa, Tridoshaja, Sannipataja Jwara.	Dwitiya Ashta- dashanga Kwatha
9.	Jwara Chikitsa Prakarana	B.P.m.k. 1/895	Nidigdhika	-	Jeerna Jwara, Arochaka, Kasa , Shoola, Shwasa, Agnimandya, Ardita, Pinasa.	Trikantakadi Kwatha
10.	Jwara Chikitsa Prakarana	B.P.m.k. 1/904	Kantakari	Root	Jeerna Jwara, Aruchi, Kasa , Shwasa, Shotha	Ashtadashanga Kwa- tha
11.	Atisara Chikitsa Prakarana	B.P.m.k. 2/81	Panchamooli	Root	Sarvaja Atisara, Jwara, Vami, Udarshoola, Shwasa, Kasa , Pittaja Atisara	Panchamoolyadi Kwatha
12.	Kasa Chikitsa Prakarana	B.P.m.k. 12/21	Dashamoola	Root	Kasa , Shwasa, Hikka, Vataja Kasa	Kwatha, Yawagu
13.	Kasa Chikitsa Prakarana	B.P.m.k. 12/24	Kantakari Yugam	-	Pittaja Kasa	Kwatha
14.	Kasa Chikitsa Prakarana	B.P.m.k. 12/25	Kantakari	-	Kaphaja Kasa	Kwatha
15.	Kasa Chikitsa Prakarana	B.P.m.k. 12/43	Kantakari	-	Samanya Kasa , Kshataja Kasa, Sarvaja Kasa	Kwatha
16.	Kasa Chikitsa Prakarana	B.P.m.k. 12/48	Kantakari	Panchanga	Hikka, Kasa , Shwasa.	Kantakaryavaleha

Sr.	Adhyayay	References	Name of the	Useful	Uses/Action/Rogadhikar/	Visishtayoga/
No.			Drug	part	Indication/Therapeutic Process/	Amayikaprayoga/
					Group	Context/Formulations
17.	Shwasa	B.P.m.k.	Dashamoola	Root	Shwasa, Hridyagraha,	Dashamooladi
	Chikitsa	14/35,37			Parswashoola, Hikka,	Kwatha, Yawagu
	Prakarana				Kasanashaka.	
18.	Swarabheda	B.P.m.k. 15/11	Nidigdhika,	Root	Swarabheda, Pratishyayay, Kasa ,	Nidigdhikavaleha
	Chikitsa		Dashmoola		Shwasa, Agnimandya, Gulma,	
	Prakarana				Prameha, Galaroga, Anaha,	
					Mutrakrucha, Granthi, Arbuda.	
19.	Unmada	B.P.m.k. 21/55	Dashamoola	Root	Sarvacheto Vikaranashaka,	Mahachetasa Ghruta
	Chikitsa				Apasmara, Mahonmada,	
	Prakarana				Mandagni, Jwara, Kasa ,	
					Vatarakta, Pratishyaya, Shosha,	
					Karshya, Mutrakruchha,	
					Katishoola, Visarpa, Pandu,	
					Kandu, Garavisha, Bhrama,	
					Mada, Murcha, Medha-Smruti	
					Prada	
20.	Vatavyadhi	B.P.m.k.	Dashamoola	Root	Akshepaka,Vatavyadhi, Hikka,	Taila
	Chikitsa	23/169			Shwasa, Adhimantha, Gulma,	
	Prakarana				Kasa	
21.	Medorog	B.P.m.k. 36/52	Bruhatyo	-	Santarpanottha Vyadhi	Vyoshadi Saktu
	Chikitsa				Nasahaka, Prameha, Mudhavata,	
	Prakarana				Kushtha, Arsha, Kamla, Pleeha,	
					Panduroga, Shotha, Mutrakruccha,	
					Arochaka, Hrudyaroga, Kshaya,	
					Kasa , Shwasa, Galagraha, Krumi,	
					Sangrahani, Shwitra, Sthoulya,	
					Agni-Buddhi-Smruti Vardhak	
22.	Balroga	B.P.m.k.	Vyaghri	Fruit	Kasa	Avaleha Chatan
	Chikitsa	65/159				
	Prakarana					

DISCUSSION:

The Synonyms of *Kantakari* with meaning is as follows. Most repeatedly used are Katakari, Duhsparsha, Kshudra, Kasaghni, Nidigdhika and Vyaghri. Kantakari (Thorny), Dusparsha (Difficult to touch), Dhavani (Straggling), Vyaghri (Promotes voice), Nidigdhika (Growing fastly), Kshudra (having small fruits) (5). The plant is fully covered with prickles which is its characteristic feature and it is supported by the synonyms like Kantakarika, Kantali, Kshudrakantaka, Bahukantaka, Kantakini. The synonym Chitraphala can be corelated with appearance of unripe fruit variegated with green and white strips, ripe fruits show different yellow and white strips.

On analysis of drug proprerties, indicates that the *Dravyaguna* qualities of the drug i.e. *Rasa* (Taste), *Guna* (Properties), *Vipaka* (Stage of digestion), *Veerya* (potency) and *Karma* (Actions)was mentioned clearly. On analyzing their Ayurvedic pharmacology (*Dravyaguna*

properties), findings shows that both the drugs possess *katu* and *tikta rasa*, *Kantakari* is *tikta rasa* dominant drug. Along with this, drug possess *laghu*, *ruksha* and *ushna guna*. *Kantakari* which contain different properties i.e. *sara* and *tikshna guna*. drug possess *katu vipaka* and *ushna veerya*. (6) (7)

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CONCLUSION:

It can be concluded that *Kantakari* has been stated to treat majority of respiratory ailments. Further comparative pre-clinical studies and bio -equivalence clinical studies has been needed to explore its different pharmacological properties.

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