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A LITERARY REVIEW ON THE MEDICINAL IMPORTANCE OF ELA

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ABSTRACT

Medicinal plants are coming forward as reliable life saving drugs. Literature review of the medicinal plants gives an thorough knowledge of its morphology, properties and therapeutic utility. Several medicinal plants have been mentioned in the Ayurveda, Ela is one among them which is very well utilized in daily practice.

KEY WORDS: Ela, Ayurveda, Properties etc.

INTRODUCTION

Ela is one among trisugandha and an ingredient in many formulations.[1] Ela is said as Sthoulya vidvamsi and many medohara yogas containing Ela are mentioned. Almost all ancient Acharyas of Ayurveda have referred this drug for its multiple benefits in therapeutics. Ela is explained in almost all the important Nighantus like Bhavaprakasha Nighantu, Kaiyadeva Nighantu. Dhanwantri Nighantu, Shodhala Nighantu, Shaligrama Nighantu etc. We can get the detailed explanation about its synonyms, qualities and different medicinal uses. Ela is also explained detaily in the text books of modern periods like The Ayurvedic materia medica, The Ayurvedic pharmacopoeia of India, Wealth of India and other books written by recent Acharyas, which provide information about its habit, habitat, morphology, chemical composition etc.

Historical Review Ancient Literature

There is no direct reference mentioned about Ela in vedic period. Cardamom is mentioned in Sanskrit texts of the 4th century BC in a treatise called Kautilya's Arthashasthra and in Taitirriya Samhita where it is used in offerings during ceremonies. In the 11th century in India cardamom was included in the list of ingredients for panchasugandha-thambula or 'five-fragrance betel chew' in the Manasollasa or Book of Splendour.

Samhita kala

In Charaka Samhita^[2], the drug Ela has been mentioned in Vishaghna, Shwasahara, Angamarda Prashamana and Vedanasthapana gana. In Sushruta Samhita^[3], the drug is mentioned under Eladi, Pippalyadi, Mustadi and Priyangvadi gana. In Ashtanga Sangraha^[4], Ela is found mentioned under Vamanopaga, Prayogika dhumopaga,

Krimihara gana.In Ashtanga Hrudaya^[5], Ela is found in Rodradi and Vatsakadi gana to which medokaphahara karma is attributed, also in Mustadi and Eladi gana and there is mentioning of preparations containing Ela in the Medoroga chikistha.

Nighantu kala

It is mentioned in all the nighantus.It is one among trisugandha and is an ingredient in many formulations^[6].

Adhunika kala

Priya nighantu mention Ela in hareetakyadi varga^[7]. Nighantu adarsha mention Ela under Ardrakadi varga^[8]. The Wealth of India identifies Ela as Elettaria cardamomum (L.) Maton(Syn. Alpinia cardamomum Roxb or Cardomum officinale Salisb).

Synonyms^[9]

Based on Swarupa

Sukshma ela, Bahula, Truti, Kapotaparnika, Sukshma, Triputa, Bahula truti, Nishkuti, Bala, Kapota varna, Indri, Bahulagandha.

Based on Karma

Ela, Garbhari, Vayastha, Tuttha, Hima, Balavathi, Visramsini.

Itharahwaya

Dravidi, Chandrabala, Korangi, Upakunchika, Chandra, Kshudra ela, Tridiva, Chandrika, Sagaragamini, Gandha phalika, Kayastha, Ghrta, Sugandha.

Chemical constituents^[10]

The seeds yield an essential oil. The oil contains the following major components:

Terpinyl acetate - 48.6 – 68%

1,8 cineole -18.7 - 23.0 % α - pinene -0.1 -5.5 % α - terpiniol -3.7 - 4.0 % linalool -2.5- 5.0 % linalyl acetate -1.9- 2.6 % nerolidol -1.2 - 5.2 %

The seed contain palmitic and oleic as dominant fatty acids, besides linoleic and linolenic acids along with α -tocopherol, desmosterol and campesterol. On the other hand, the oil rich in esters like terpinyl acetate and linalyl acetate are known to give flowery smell.

Other major components of the oil are α -pinene, limonene camphene, sabinene, α -phelladrene, α -terpinene, α - terpineol, α - terpinyl acetate, borneol, nerol, nerolidol, geraniol, geranyl acetate, linabol and linalyl acetate.

Rasapanchaka

Showing Rasapanchaka of Ela according to various authors

According to Bhavaprakasha Nighantu

Rasa- Katu, Guna- Laghu, Veerya- Sita, Doshagnata-Vatahara

According to Raja Nighantu

Rasa- Tikta, Veerya- Sita , Doshagnata- Pittakaphahara, Karma-

According to Kaiyadeva Nighantu

Rasa- Katu, Guna- Laghu, Veerya- Sita, Doshagnata-Vatahara

According to Madanapala Nighantu

Rasa-Madhura, Guna- Guru, Doshagnata-Vatapittahara According to Priya Nighantu

Rasa- Katu, Veerya- Sita, Doshagnata- Kaphapittahara

Karma

Karma- Deepana, Pachana, Rochana, Mutrala, Vataanulomana, Hrdhya, Balya, Rechana, Mukha shodhana.

Rogaghnata

Shwasa, Kasa, Arshas, Mutrakrchra, Kshaya, Amavata, Hrdroga, Vasti shula, Hikka, Prameha.

Parts used

All the Samhitas and Nighantus have advocated the usage of ela beeja.

Botanical aspects

Botanical name is *Elettaria cardamomum*.

Etymology

Elettaria - derived from sanskrit name ela cardamomum – derived from the latin word which was the name for a kind of an Indian spice plant and amomum means without impurities.

Taxonomical Classification

Kingdom: Plantae

Subkingdom : Tracheobionta Superdivision : Spermatophyta Division : Magnoliophyta

Class: Liliopsida Subclass: Zingiberidae Order: Zingiberales Family: Zingiberaceae Genus: Elettaria

Species: Elettaria cardamomum (L.) Maton

Botanical Description^[11]

Habit: A tall herbaceous perennial with subterranean branching root stock, 1.5-5 m height.

Leaves: subsessile, elliptic or lanceolate with sheathing base 1-3 ft long.

The tuberous underground rhizome is its real stem and the aerial shoot is a pseudostem formed by the encircling leaf sheaths.

Flowers: borne in panicles, 2-4 ft long, arising from the base of vegetative shoots; panicles upright throughout their length or upright at first and ultimately pendent or prostrate; flowers about 1.5 inch long, white or pale green in colour with a central lip streaked with violet, borne in a close series on the rachis; they are bisexual, but self sterile, and open in succession from the base towards the tip.

Corolla: is tubular, 3-lobed,pale green, androecium with petalloid labellum,white in colour with pink or purplish veins, composed of three modified stamens with an undulated edge. There are two further rudimentary staminodes and one functional stamen.

Fruit: The fruit is an ovoid, three-celled, loculicidally dehiscent capsule containing many seeds, which are covered by an aril. During drying, it is said to lose three-quarters of its weight. The fruits are trilobular, ovoid or oblong, greenish-brown capsules containing about 15–20 seeds attached to an axile placenta.

Seeds: 15-20 per pod, brownish black covered by a thin mucilagenous membrane. The light reddish or dark reddish-brown seeds are irregularly 3-sided, transversely wrinkled or furrowed and are covered by a membranous aril. Each pod contains up to 20 aromatic, dark red brown seeds that have a mild ginger flavour.

Synonyms

Table 1: Showing Synonyms of Ela.

Ela	It is a stimulant.	
Upakunjika	Fruit is contracted and small.	
Korangi	It grows in south india	
Tutha	It relieves abdominal pain.	
Triputa	It has three surfaces.	
Dravidi	It grows in south india.	
Nishkuti	The seeds, part used, are taken out of the outer covering	
Sukshma	Seeds are small in size.	
Chandrabala	Seeds smells like karpura	
Bahulagandha	Seeds are exceedingly aromatic.	
Bahula	Seeds are numerous.	

Vernacular names

Table 2: Showing Vernacular names of Ela.

English	Cardamomum	
Hindi	Choti elaichi	
Kannada	Elakki, Ilaji, Korangi,	
Malayalam	Cittelam, Ela, Elakkaya, Elam	
Arabic	Haibawa	
Sanskrit	Ela, Upakunchika, Korangi, Nishkuti, Dravidi, Sukshma, Bahula, Bahulagandhi,	
	Truti	
Bengali	Elach	
French	Cardamom de Malabar	
Urdu	Heel khurd, Ilayachikhurd	
Tamil	Anji, Elam, Ilanji, Iravadi	
Telugu	Elaki, Elakkaya, Korangi	
Marathi	Veldode, Elachi, Velloda	
Gujarati	Elchi	
Spanish	Cardamomo	
German	Kardamome	
Bombay	Elchi	

Gana/Varga

Table 3: Showing the classification according to various authors.

CLASSICAL TEXT	GANA/VARGA	
Charaka Samhita	Angamardaprasamana	
	Katukaskanda dravya	
	Svasahara	
	Trisugandha	
Sushrutha Samhita	Eladi	
	Pippalyadi	
	Mustadi	
Astanga Hrdaya	Eladi	
	Mustadi	
	Vatsakadi	
	Rodradi	
Astanga Sangraha	Eladi	
	Vatsakadi	
	Rodradi	
	Mustakadi	
	Vamanopayogini	
	Krimihara	
	Shwasaghna	
Bhavaprakasha Nighantu	Karpuradi	
Dhanwantari Nighantu	Satapushpadi	
Kaiyadeva Nighantu	Osadhi varga	

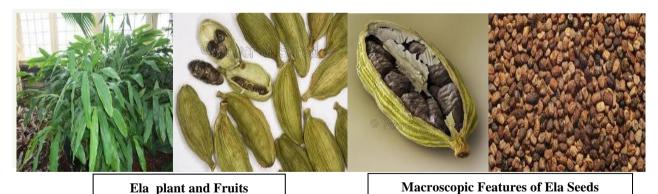
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Madanapala Nighantu	Karpuradi	
Raja Nighantu	Pippalyadi	
Adarsha Nighantu	Ardrakadi varga	
Madanadi Nighantu	Madanadi Varga	
Siddha mantra	Kaphavataghna varga	
Soushruth Nighantu	Eladi Varga	
Hrdaya Deepika	Tripada Varga	
Shodala Nighantu	Satapushpadi varga	

Yogas of ela

Showing Rasapanchaka of Ela according to various authors

SHOW	Showing Rasapanchaka of Ela according to various authors				
Sl.No	Yoga	Adhikara	References		
01	Amrtadi taila	Shwasa, kasa, shirashula	AS, Ci 23/70-75		
02	Amrtaprasa ghrta	Shwayathu chikitsa	CS,Ci 11/35-43		
04	Eladi kasaya	Swarasaada	Sahasrayogam		
05	Asshwagandhaarista	Moorchadhikara	B.R 13-17		
07	Avipatti curna	Pitta roga and malabandha	S.Ychurna yoga prakarana		
08	Balarista	Vatavyadhiadhikara	B.R 607-610		
09	Bala taila	Vatavyadhi chikitsa	AH,Ci 21/73		
10	Brahma Rasayana	Rasayana	CS,Ci 1/42-57		
11	Chyavanaprasha	Rasayana	CS,Ci 1/62-74		
12	Dadimastaka curna	Pandu chikitsa	AH,Ci 16/2		
14	Dashamula haritaki	Shwayathu chikitsa	AH,Ci 17/14		
15	Dashamula rasayana	Meha, arsha,kushta	Sahasrayogam		
17	Dhatri ela curna	Mutraghata	AH,Ci 11/10		
19	Draksha arishta	Agnimandya,shwasa, kasa	S.S madhyamakhanda 10,69-71		
20	Jiraka arista	Atisara, grahani	B.R 492-495		
21	Kanchanara guggulu	Gandamala, granthi	Sh.Mk7/95		
22	Khadira arista	Maha kusta, granthi, krimi	Sh.Madhyamakhanda10,60-63		
23	Satavari gudam	Shwetha pradara, rasayana	Sahasrayogam		
24	Talisapatradi curna	Rajayakshma	CS,Ci 8/145-148		
25	Vyoshadi vati	Nasa roga	AH, U 20/5		
26	Sitopaladi churna	Shwasa,agnimandya, arochaka	Sharangadara, Madhyamakhanda, 6/134-137		
27	Kalyanka ghrta	Apasmara, vandyata, yoni roga	AH,U 6/26-28		



CONCLUSION

Elettaria cardamomum is one of the most broadly used spice called cardamom. Ela is a very important and useful medicinal herb used in many formulations. Seeds are used widely mostly as prakshepaka dravya. Ela has several health benefits. Ela is a good aromatic, digestive, stimulant and carminative. All these medicinal properties are due to the essential oil present in the Ela.

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