



ISSN 2456-3110

Vol 9 · Issue 3

March 2024

Journal of
**Ayurveda and Integrated
Medical Sciences**

www.jaims.in

JAIMS

An International Journal for Researches in Ayurveda and Allied Sciences



Maharshi Charaka
Ayurveda

Indexed

Critical review of *Swetha Chandana* (*Santalum album* L.) in *Nighantus* and *Caraka Samhita*

Vyshnavi Macharla¹, Jagan Ial Eslavath², Swarupa Rani G³, Narasimha V⁴, Vijayalakshmi A⁵

^{1,2}Post Graduate Scholar, Postgraduate Department of Dravyaguna, Dr. BRKR Government Ayurvedic College, KNR University of Health Sciences, Hyderabad, Telangana, India.

³Professor, Postgraduate Department of Dravyaguna, Dr. BRKR Government Ayurvedic College, KNR University of Health Sciences, Hyderabad, Telangana, India.

⁴Associate Professor, Postgraduate Department of Dravyaguna, Dr. BRKR Government Ayurvedic College, KNR University of Health Sciences, Hyderabad, Telangana, India.

⁵Professor and HOD, Postgraduate Department of Dravyaguna, Dr. BRKR Government Ayurvedic College, KNR University of Health Sciences, Hyderabad, Telangana, India.

ABSTRACT

Chandana also known as Indian sandalwood, scientifically known as *Santalum album* Linn, is a medium sized tree belongs to the family Santalaceae. It is one of the oldest and most valuable sources of natural smell and has significant medical and commercial value. *Chandana* is used as a single drug and ingredient of numerous formulations for the betterment of lifestyle and treatment. Although, numerous studies regarding *Chandana* there still lies scope for evaluation and analysis on this topic.

Key words: *Chandana*, *Santalum album*, sandalwood

INTRODUCTION

Ayurveda is the science of life deals with fundamental concept of nature various components are present on this earth in the form of plants, animals, minerals etc among them *Chandana* is one of the drugs which is described in *Ayurveda* in various contexts which is useful in many diseases. *Chandana* is botanically identified as *Santalum album* Linn. Belongs to family Santalaceae. The Indian sandalwood commonly called *Chandana* in *Ayurveda* and has been in use for ages in

India. It is considered as sacred part of Hindu customs. It is mentioned in Indian literature as old as Milinda Pahna 2000 B.C. Koutilya described a variety of sandal wood in his Artha shastra 200 BC, sandal wood is also mentioned in the Epic Ramayana and Mahabharata.^[12] In *Ayurveda*, Sandalwood is a much loved fragrance across the world, often evoking soft breezes, restful spaces and a sense of peace and calm, its commonly used in aromatherapy and meditation practice around the world. Sandalwood is used oil extracted from the heartwood of sandalwood by steam distillation and powder is used both internally and externally. As medicine, sandalwood is regarded as coolant, sedative, astringent, disinfectant in genitourinary and bronchial tracts, diuretic, expectorant and stimulant. The wood, root, bark and leaves of the plant used for the treatment of the liver disease like jaundice by the tribal healers. Owing to numerous chemical constituents which are categorized into terpenes, tannins, resins and waxes of them the major chemical constituents include alpha-santalol and beta-santalol along with other chemical constituents possessing pharmacological actions like hepatoprotective activity,

Address for correspondence:

Dr. Vyshnavi Macharla

Post Graduate Scholar, Postgraduate Department of Dravyaguna, Dr. BRKR Government Ayurvedic College, KNR University of Health Sciences, Hyderabad, Telangana, India.

E-mail: vyshnavimacharla96@gmail.com

Submission Date: 15/01/2024 Accepted Date: 24/02/2024

Access this article online

Quick Response Code



Website: www.jaims.in

DOI: 10.21760/jaims.9.3.12

antiviral activity, anti-ulcer activity, anti-bacterial activity etc. being an important plant in *Ayurveda*, extensive study regarding *Chandana* is needed.

AIM AND OBJECTIVES

The study is aimed at literature review of different texts of *Ayurveda* to gather information available regarding *Chandana*. The objective of this study is to describe the Synonyms, *Rasapanchaka*, and *Vargas* according to different *Acharyas* as well as references of *Chandana* in *Bruhatrayi*.

Scientific Name: *Santalum album* Linn.

Family: Santalaceae

Vernacular Names^[1]

English - white sandalwood tree

Hindi - Safed *Chandana*

Telugu - Tella candanam

Kannada - Srigandha

Malayalam - Candanam

Taxonomical Classification^[1]

Kingdom : Plantae

Class : Dicotyledons

Sub class : Monochlamydae

Series : Achlamyosporeae

Family : Santalaceae

Genus : *Santalum*

Species : *album*



Distribution^[1]: In the dry regions of India, especially in Karnataka, Tamil nadu and Kerala ascending upto 1200m.

Botanical Description^[2]

A medium sized evergreen tree, semi parasitic, glabrous tree with slender drooping branches, raising upto 18m in height.

Bark: Dark grey or brownish black, rough with short vertical cracks.

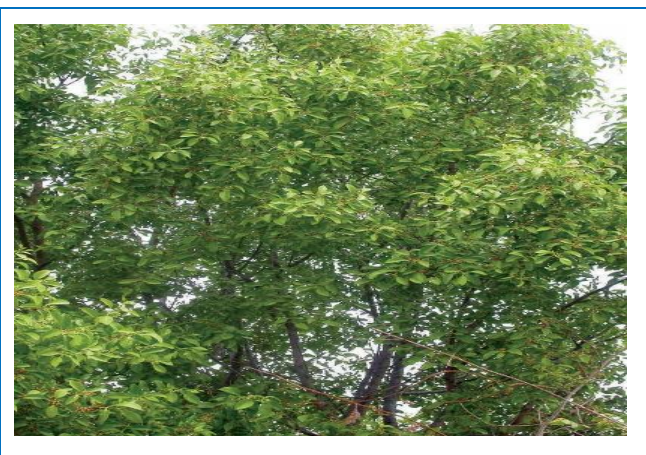
Leaves: Simple, opposite, elliptic-lanceolate, entire, glabrous.

Flowers: Brownish purple, violet in terminal and axillary paniculate cyme.

Fruit: Globose drupes, purple black with ribbed endocarp.

Seeds: Hard, globose or obovoid.

Heartwood: light yellowish brown when fresh, turning black to dark reddish brown on exposure.



Chemical Constituents ^[12]: More than hundred constituents of sandalwood oil in categories of tannins, terpenes, resins and waxes have been reported. Major constituents of commercially available sandalwood oil are sesquiterpene alcohols like alpha and beta santalols, bergamotals and several of their stereoisomers, where as minor constituents include lanceol, nuciferol, bisabolol and the sesquiterpenes hydrocarbons such as alpha and beta santalenes,

bergamotenes and alpha, beta and gamma curcumenes, beta-bisabolene and phenyl propanoids.

Basonym^[10]

चन्दनम् - चन्दति आल्हादयतीति, 'चदि आल्हादे' । (जो मन एवं शरीर को आल्हाद प्रदान करता है। Bh.Pr.Ni.

Chandana gives pleasure because of its aroma and cooling effect.

Table 1: Synonyms of *Chandana* as per different *Nighantus*

SN	Synonyms	K.N ^[3]	D.N ^[5]	M.N ^[6]	R.N ^[7]	BP.N ^[10]	S.N ^[8]	P.N ^[11]
1.	<i>Bhadrashreya</i>	+	+	+				
2.	<i>Malayaja</i>	+	+	+	+	+		+
3.	<i>Sheersha Chandana</i>	+						
4.	<i>Shishira</i>	+						
5.	<i>Swetacandana</i>	+	+	+	+		+	
6.	<i>Hima</i>	+						
7.	<i>Swetasresta</i>	+						
8.	<i>Gandhasara</i>	+	+	+	+	+	+	+
9.	<i>Maharha</i>	+	+	+	+			
10.	<i>Tilaparna</i>	+	+	+	+	+		
11.	<i>Gosheersha</i>		+	+	+			
12.	<i>Srikhanda</i>	+			+	+		+
13.	<i>Chandradhuti</i>					+		
14.	<i>Bhadrashri</i>				+	+		
15.	<i>Malayodbhavam</i>				+			
16.	<i>Bhogivallabha</i>				+			
17.	<i>Mangalyam</i>				+			
18.	<i>Gandharajam</i>				+			

19.	<i>Sarpavasam</i>				+			
20.	<i>Gandhadhyam</i>				+			
21.	<i>Sitagandha</i>				+			
22.	<i>Paavanam</i>				+			
23.	<i>Chandraka</i>						+	
24.	<i>Chandrakanta</i>						+	
25.	<i>Vikata</i>						+	
26.	<i>Rohanadruma</i>						+	
27.	<i>Malaya</i>	+						
28.	<i>Sughanda</i>				+			
29.	<i>Sitamal</i>				+			
30.	<i>Sripriya</i>						+	
31.	<i>Sarpapriya</i>						+	
32.	<i>Rajayogya</i>						+	
33.	<i>Sheetala</i>						+	
34.	<i>Shiva</i>						+	

Table 2: *Rasapanchaka* of *Chandana* from various *Nighantus*

<i>Rasapanchaka</i>		Texts						
		KN ^[4]	DN ^[5]	MN ^[6]	RN ^[7]	BPN ^[10]	SN ^[9]	PN ^[11]
Rasa	Madhura	+	+		+	+	+	
	Amla							
	Lavana							
	Katu				+			
	Tikta	+	+	+	+	+	+	+
	Kashaya				+			
Guna	Laghu			+		+		+

	<i>Ruksha</i>		+	+		+	+	
	<i>Guru</i>	+	+				+	
	<i>Sita</i>		+	+	+		+	+
	<i>Sukshma</i>	+						
<i>Virya</i>	<i>Sita</i>		+			+		
<i>Vipaka</i>	<i>Katu</i>			+				

Table 3: Karma of Chandana according to various Nighantus

<i>Nighantu</i>	<i>Karma</i>
<i>Kaiyadeva Nighantu</i> ^[4]	<i>Trushnahara, Dahahara, Raktapittahara, Klamahara, Shoshahara.</i>
<i>Dhanwantari Nighantu</i> ^[5]	<i>Raktaprasadana, Vajikarana, Raktapittahara, Krimihara, Trushnahara, Pittahara, Antardahahara, Vishagna, Dahahara, Hrudy.</i>
<i>Madanapala Nighantu</i> ^[6]	<i>Kaphapittahara, Anandhakaraka, Hrudy, Halaka, Varnya, Vishaghna, Raktadoshahara, Dahahara.</i>
<i>Raja Nighantu</i> ^[7]	<i>Pittahara, Brantihara, Jwarahara, Santapa shanti, Vrsyam, Vaktraruajapaham, Kantivardhaka, Krimihara, Vamihara, Trishnahara.</i>
<i>Bhavaprakasha Nighantu</i> ^[10]	<i>Pittakaphahara, Ahaladha karaka, Sharmahara, Shoshahara, Raktadoshahara, Dahahara</i>
<i>Shodala Nighantu</i> ^[9]	<i>Pittahara, Raktadoshahara, Vishahara, Dahahara, Varnya, Trushnahara, klamahara.</i>
<i>Priya Nighantu</i> ^[11]	<i>Kaphapittashamaka, Ahladak, Raktapittahara, Trushnahara, Dahahara.</i>

Part Used^[1] : Saara (Heart wood)

Dose^[1] : Decoction: 50-100 ml

Churna: 3-6 grms

Taila: 5-10 Drops

Table 4: Classical classification of Chandana from different texts

SN	Texts	Varga/Gana
1.	<i>Caraka Samhita</i>	<i>Varnya</i> <i>Kandughna</i> <i>Vishaghna</i> <i>Trushnanigrahana</i>

		<i>Dahaprashamana</i> <i>Angamardaprashamana</i>
2.	Sushruta Samhitha	<i>Salasaradi gana, Patoladi gana, Sarivadi gana, Priyangwadi gana, Guduchyadi gana</i>
3.	Astanga Hrudayam	<i>Tikta gana Patoladi gana</i>
4.	Astanga Sangraha	<i>Patoladi and Guduchyadi gana</i>
5.	Kaiyadeva Nighantu	<i>Oushadivarga</i>
6.	Madanaphala Nighantu	<i>Karpuradi varga (Tritiyaka varga)</i>
7.	Dhanvantari Nighantu	<i>Chandanadi varga (Tritiyaka Varga)</i>
8.	Bhavaprakasha Nighantu	<i>Karpuradi varga (Dwitiya varga)</i>
9.	Priya Nighantu	<i>Haritakyadi varga</i>
10.	Rajanighantu	<i>Candanadi varga</i>
11.	Shodala Nighantu	<i>Candanadi varga</i>

Table 5: Classical references of *Chandana* in *Caraka Samhita*^[13-130]

SN	References	Name of the drug	Indications / Actions / Uses	<i>Amyikaprayogas / Visisthayogas</i>
1.	Ca.Su.3/23	<i>Chandana</i>	<i>Shiroruja</i>	<i>Nata, Utpala, Chandana, Kustha, mixed with Ghee and used as Pradeha.</i>
2.	Ca.Su.3/26	<i>Chandana</i>	<i>Daha</i> (relieves burning sensation)	One of the drug used in preparation of <i>Pradeha</i> .
3.	Ca.Su.3/29	<i>Chandana</i>	<i>Sariradourgandhahara</i>	<i>Patra, Ambu, lodhra, Abhaya, and Chandana</i> used for <i>Pradeha</i> .
4.	Ca.Su.4/10	<i>Chandana</i>	<i>Varnya</i>	<i>Varnyani Dasemani</i>
5.	Ca.Su.4/11	<i>Chandana</i>	<i>Kandughna</i>	<i>Kandughnani Dasemani</i>
6.	Ca.Su.4/11	<i>Chandana</i>	<i>Vishaghna</i>	<i>Vishagnani Dasemani</i>
7.	Ca.Su.4/14	<i>Chandana</i>	<i>Trishna</i>	<i>Trishnanigrahana Dasemani</i>
8.	Ca.Su.4/17	<i>Chandana</i>	<i>Daha</i>	<i>Dahaprasamana Dasemani</i>

9.	Ca.Su.4/17	Chandana	Angamardaprasamana	Angamardaprasamana Dasemani
10.	Ca.Su.5/20	Chandana	Kapharoga	One of the drug used in preparation of <i>Dhumavarti</i>
11.	Ca.Su.5/63.	Chandana	Tridosahara, Indriyabalapradam	Anu Tailam
12.	Ca.Su.6/25.	Chandana	Vasanta Ritucarya	Chandana and Agarua used as external application.
13.	Ca.Su.6/30	Chandana	Greeshmaritucarya	External application
14.	Ca.Su.6/31	Chandana	Greeshmaritucarya	External application
15.	Ca.Vi.8/143	Chandana	Kapha and Pitta Vikaras	Tiktaskanda
16.	Ca.Ind.12/74	Chandana	While entering the patients house indicating good prognosis	If while entering on his way to the patients house the physician comes across the Sandal paste he can predict the recovery of the patient
17.	Ca.Ci.1-1/48	Chandana	Dheergayu and Rasayana	Bramha Rasayana
18.	Ca.Ci.1-1/59	Chandana	Dheergayu and Rasayana	Bramha Rasayana
19.	Ca.Ci.1-1/64	Chandana	Rasayana, Kasa, Swasahara , Swarya, Kshaya, Hridroga, Vatarakta, Pippasa, defects of Mutra and shukra	Chywanprasha
20.	Ca.Ci.1-2/12	Chandana	Bhrisairam, Stiroindriyam, Swara, Vayasthapana, Balam.	Nagabala Rasayana
21.	Ca.Ci.1-33	Chandana	Rasayana, Srama, Jwara, Bhaya, Jaravyadhi Prasadnam	Amalakayasa Bramha Rasayanam
22.	Ca.Ci.1-4/16.	Chandana	Sarvaroga Prasamana, Vrushya, Ayushuttamam, Satwa, Smriti, Sarira, Agni, Buddhi, Indriya Balapradam, Paramojaskaram, Varnyam, Swara.	Indrokta Rasayanam
23.	Ca.Ci.3/145	Chandana	Pippasa and Jwara	Sadanga Paniya
24.	Ca.Ci. 3/202	Chandana	Vishama Jwara	One of the drug used in the preparation of decoction along with

				<i>Kiratakitkta, Amrita, Vishwabhesaja.</i>
25.	Ca.Ci.3/219	<i>Chandana</i>	<i>Jwara, Ksaya, Kasa, Sirasula, Parswasula, Halimaka, Amsabhitapa, Visamagni.</i>	One of the drug used in preparation of medicated ghee.
26.	Ca.Ci.3/223	<i>Chandana</i>	<i>Jeernajwara (Chronic fever)</i>	One of the drug used in preparation of Ghee.
27.	Ca.Ci.3/247	<i>Chandana</i>	<i>Jwara, Balam, Sweda, Ruchipradam,</i>	One of the drug used for <i>Niruha Vasthi</i>
28.	Ca.Ci.3/258	<i>Bhadrashree</i>	<i>Dahajwara</i>	<i>Chandanadya Tailam</i>
29.	Ca.Ci.3/261	<i>Chandana</i>	<i>Dahajwara</i>	Sprinkling of cold water of <i>Chandana</i> in house to cooling effect.
30.	Ca.Ci.3/262.	<i>Chandana</i>	<i>Dahajwara</i>	The patient house can be cooled with by the cold water of sandalwood.
31.	Ca.Ci.3/263.	<i>Chandana</i>	<i>Dahajwara</i>	Sprinkling water of <i>Chandana</i>
32.	Ca.Ci. 3/265	<i>Chandana</i>	<i>Dahajwara</i>	Smeared with <i>Chandana</i> paste by ladies.
33.	Ca.Ci. 4/31	<i>Chandana</i>	<i>Pippasa in Raktapitta</i>	One of the drug used in preparation of <i>Sitasrita Annapana.</i>
34.	Ca.Ci. 4/45	<i>Chandana</i>	<i>Raktapitta</i>	One of the drug used in <i>Yavagu</i> preparation.
35.	Ca.Ci. 4/73	<i>Chandana</i>	<i>Raktapitta, Tamaka, Pippasa, Daha.</i>	One of the drug used in preparation of <i>Yavagu.</i>
36.	Ca.Ci.4/76	<i>Chandana</i>	<i>Raktapitta</i>	One of the drug used in preparation of <i>Sitakashaya, Swarasa, Kalka.</i>
37.	Ca.Ci. 4/78	<i>Chandana</i>	Acute form of <i>Raktapitta</i>	<i>Kashaya</i> is prepared with <i>Mudga, Lajja, Yava, Krishna, Ushira, Mustha</i> and <i>Chandana.</i>
38.	Ca.Ci. 4/80	<i>Chandana</i>	<i>Raktapitta</i> with excess bleeding	One of the drug used in preparation of <i>Kashaya.</i>

39.	Ca.Ci.4/81	<i>Chandana</i>	<i>Raktanirnarapara</i> (stoppage of bleeding)	One of the drug used in preparation of <i>Kashaya</i>
40.	Ca.Ci.4/99	<i>Chandana</i>	<i>Nasagata Raktapitta</i> with <i>Dustapratishaya, Siro Vikara</i>	One of the drug used for <i>Nasyakarma</i> .
41.	Ca.Ci.4/102	<i>Bhadrasriya</i>	<i>Raktapitta</i>	One of the drug used by physician as <i>Pradeha, Pralepa, Secana, Avagaha, Grita, Taila</i> .
42.	Ca.Ci.4/108	<i>Chandana</i>	<i>Daha</i> in <i>Raktapitta</i>	The touch of <i>Priyangu</i> and <i>Chandana</i> .
43.	Ca.Ci.5/119	<i>Chandana</i>	<i>Gulma</i> with <i>Pitta and Rakta, Visarpa, Pittaja jwara, Hridroga</i> .	<i>Trayamanadya Ghrita</i> .
44.	Ca.Ci. 6/28	<i>Chandana</i>	<i>Kaphaja prameha</i>	Decoction prepared with <i>Suvaha, Kustha, Agaru</i> and <i>Chandana</i> .
45.	Ca.Ci.6/30	<i>Chandana</i>	<i>Pittaja prameha</i>	One the drug used in preparation of <i>Kashaya</i> .
46.	Ca.Ci. 6/39	<i>Chandana</i>	<i>Kaphapittaja Prameha</i> with secondary aggravated <i>Vayu, Pittaja Prameha</i> with <i>Secondary Aggravated Vayu</i> .	One of the drug used in preparation of <i>Medicated oil</i> .
47.	Ca.Ci 6/50	<i>Chandana</i>	<i>Prameha</i>	<i>Lepa</i> prepared with <i>Ushira, Twak, Agaru</i> and <i>Chandana</i> .
48.	Ca.Ci 7/130	<i>Chandana</i>	<i>Pittakaphaja Kustha</i>	One of the drug used in <i>Pralepa</i> .
49.	Ca.Ci.7/131	<i>Chandana</i>	<i>Pittaja Kustha</i>	One of the drug used in the preparation of decoction which is used for drinking and bathing.
50.	Ca.Ci.7/132	<i>Chandana</i>	<i>Pittaja Kustha</i>	One of the drug used in <i>Alepa</i> .
51.	Ca.Ci.7/133	<i>Chandana</i>	<i>Dahamana Kustha</i>	Oil boiled with <i>Candana, Madhuka, Utpala</i> etc. drugs are used for <i>Abhyanga</i> .
52.	Ca.Ci.7/141	<i>Chandana</i>	<i>Kustha, Jwara, Gulma, Arshas, Grahani, Pandu, Shotha, Pama, Visarpa, Unmada, Pidaka, Vatarakta</i> .	<i>Tiktashatpalaka Ghritam</i> .

53.	Ca.Ci.7/145	Chandana	<i>Kustha, Rakta Pitta, Visarpa, Amlapitta, Vatarakta, Pandu, Vishoptaka, Pama, Unmada, Jwara, Kamala, Hrdroga, Gulma, Asrugdhara and Gandamala.</i>	<i>Mahatiktaka Ghurutam</i>
54.	Ca.Ci.8/77	Chandana	<i>Shirashula, Parswashoola, Amshashula.</i>	One of the drug used in <i>Alepa</i> .
55.	Ca.Ci.8/78	Chandana	<i>Shirashula, Parswashoola.</i>	One of the drug used in the preparation of <i>Pradeha</i> .
56.	Ca.Ci.8/83	Chandana	<i>Shirashula</i>	One of the drug used in the preparation of <i>Pradeha</i> .
57.	Ca.Ci.8/86	Chandana	<i>Parswashoola, Amshashoola</i>	Decoction of <i>Chandana</i> used as <i>Pariseka</i> .
58.	Ca.Ci.9/37	Chandana	<i>Apasmara, Jwara, Kasa, Shosha, Vatarakta, Pratishayaya, Triteeyaka, Chaturtaka and Vishama Jwara, Chardi, Arshas, Mutrakricchara, Visarpa, Pandu, Unmada, Visha, Meha, Pumsavana.</i>	<i>Kalyanaka Ghurutam</i>
59.	Ca.Ci.10/37	Chandana	<i>Apasmara</i>	One of the drug used in the preparation of <i>Pradeha, Dhoopana</i> .
60.	Ca.Ci.11/18	Chandana	<i>Kshataksheena</i>	<i>Ikshuvalika, Bisagranthi, Padma Keshara</i> and <i>Chandana</i> taken with milk and honey for drinking.
61.	Ca.Ci.12/53	Chandana	<i>Visarpa, Daha, Jwara, Tridosahara, Trishna, Visha, Halimaka.</i>	<i>Patolamooladi Kashaya.</i>
62.	Ca.Ci.12/68	Chandana	<i>Pittaja Shotha</i>	One of the drug used in <i>Pradeha</i> .
63.	Ca.Ci.12/69	Chandana	<i>Pittaja Shotha</i>	<i>Chandana, Abhaya, Padmaka</i> used for <i>Snana</i>
64.	Ca.Ci.12/70	Chandana	<i>Kaphaja Shotha</i>	<i>Lepana</i> with <i>Chandana</i> and <i>Agaru</i> .
65.	Ca.Ci.14/186	Chandana	<i>Raktaja Arshas</i>	One of the drug used for preparation of <i>Kashaya</i> .

66.	Ca.Ci.14/193	<i>Chandana</i>	<i>Arshas</i>	Powder of <i>Chandana</i> , <i>Tila</i> given with goat milk.
67.	Ca.Ci.14./215	<i>Chandana</i>	Excessive bleeding, burning sensation, stickiness of anus.	For <i>Snana</i> , <i>Kashaya</i> is prepared with <i>Chandana</i> .
68.	Ca.Ci.14/221	<i>Chandana</i>	<i>Gudabhramsa</i> , <i>Daha</i> , stickiness of anus.	<i>Chandana</i> and <i>Rakta Chandana</i> used for rubbing.
69.	Ca.Ci.14/227	<i>Chandana</i>	<i>Pravahika</i> , <i>Gudabhramsa</i> , <i>Jwara</i>	<i>Piccha Basti</i>
70.	Ca.Ci.14/230	<i>Chandana</i>	<i>Arshas</i> , <i>Atisara</i> , <i>Grahani</i> , <i>Gudabhramsa</i> , <i>Mutrakricchara</i> , <i>Anaha</i> , <i>Jwara</i> , <i>Tridosahara</i> .	<i>Hriveradi Ghritam</i> .
71.	Ca.Ci.14/336	<i>Chandana</i>	<i>Gudabhramsa</i> , <i>Tridosahara</i> , <i>Shotha</i> , <i>Gudashoola</i> , <i>Mudavata</i> , <i>Mandagni</i> , <i>Aruchi</i> , <i>Balavarnaagnivardhana</i> .	<i>Sunnisannaka Changeri Ghritam</i> ,
72.	Ca.Ci.15/125	<i>Chandana</i>	<i>Pittaja grahani</i> .	<i>Candanadhya Ghritam</i>
73.	Ca.Ci.15/137	<i>Chandana</i>	<i>Hridroga</i> , <i>Pandu</i> , <i>Grahani</i> , <i>Gulma</i> , <i>Shoola</i> , <i>Aruchi Jwara</i> , <i>Kamala</i> , <i>Mukha rogas</i> .	<i>Kiratadya Churnam</i>
74.	Ca.Ci.15/148	<i>Chandana</i>	<i>Grahani</i> , <i>Brimhana</i> , <i>Kaphapittahara</i> , <i>Shotha</i> , <i>Kustha</i> , <i>Kilasa</i> and <i>Prameha</i> .	<i>Madhukavasava</i>
75.	Ca.Ci.16/47	<i>Chandana</i>	<i>Raktapitta</i> , <i>Jwara</i> , <i>Daha</i> , <i>Swayathu</i> , <i>Bhagandara</i> , <i>Arshas</i> , <i>Asrugdhara</i> , <i>Vishpotaka</i>	<i>Katukadhya Ghritam</i>
76.	Ca.Ci.17/131	<i>Chandana</i>	<i>Hikka</i> , <i>Swasa</i>	<i>Lasuna</i> , <i>Palandu</i> , root of <i>Grinjanaka</i> , <i>Chandana</i> with breast milk of woman for inhalation.
77.	Ca.Ci.18/90	<i>Chandana</i>	<i>Pittaja Kasa</i>	<i>Sharkaradi Lepam</i>
78.	Ca.Ci.19/53	<i>Chandana</i>	<i>Pittaja Atisara</i>	Powder of <i>Chandana</i> , <i>Nagara</i> , <i>Lodhra</i> and <i>Utpala</i> with honey and rice water.
79.	Ca.Ci.20/32	<i>Chandana</i>	<i>Pittaja Chardi</i>	Paste of <i>Sweta Chandana</i> + juice of <i>Amalaki</i> + honey.

80.	Ca.Ci.20/33	<i>Chandana</i>	<i>Pittaja Chardi</i>	Paste of <i>Chandana</i> , <i>Chavya</i> , <i>Mamsi</i> , <i>Draksha</i> , <i>Gairika</i> along with cold water and honey.
81.	Ca.Ci.21/54	<i>Chandana</i>	<i>Visarpa</i>	Internal administration of Decoction of <i>Chandana</i> and <i>Utpala</i> .
82.	Ca.Ci.21/55	<i>Chandana</i>	<i>Visarpa</i>	One of the drug used in the preparation of <i>Kashaya</i> .
83.	Ca.Ci.21/74	<i>Chandana</i>	<i>Visarpa</i>	<i>Kaliyadi Pralepa</i>
84.	Ca.Ci.21/75	<i>Chandana</i>	<i>Visarpa</i>	<i>Sadvaladi Pradeha</i>
85.	Ca.Ci.21/76	<i>Chandana</i>	<i>Visarpa</i>	<i>Sarivadya Pralepa</i>
86.	Ca.Ci.21/79	<i>Chandana</i>	<i>Visarpa</i>	<i>Baladhya Lepa</i>
87.	Ca.Ci.22/41	<i>Chandana</i>	<i>Pittaja Trishna</i>	Intake of water boiled with <i>Draksha</i> , <i>Chandana</i> , <i>Kharjura</i> and <i>Usira</i> with honey.
88.	Ca.Ci.23/56	<i>Chandana</i>	<i>Visha</i>	<i>Mruta Sanjeevana Agada</i>
89.	Ca.Ci.23/77	<i>Chandana</i>	<i>Pilla</i> , <i>Kandu</i> , <i>Timira</i> , <i>Ratriandhya</i> , <i>Kacca</i> , <i>Arbuda</i> , <i>Vishama Jwara</i> , <i>Dadru</i> , <i>Kandu</i> , <i>Pama</i> , <i>Atisara</i> , <i>Jangama Visha</i> , <i>Sthavara Visha</i>	<i>Mahagandhaasthi</i>
90.	Ca.Ci.23/98	<i>Chandana</i>	<i>Visha Upadrava</i>	One of the drug used for <i>Dhooma</i> .
91.	Ca.Ci.23/190	<i>Chandana</i>	Cures all types of <i>Shotha</i> and <i>Visha</i>	One of the drug used for <i>Paana</i> , <i>Nasya</i> , <i>Anjana</i> and <i>Lepa</i> .
92.	Ca.Ci.23/200	<i>Chandana</i>	<i>Luta Visha</i>	One of the drug used for <i>Lepana</i> .
93.	Ca.Ci.23/242	<i>Chandana</i>	<i>Visha</i> , <i>Apasmara</i> , <i>Kshaya</i> , <i>Unmada</i> , <i>Garavisha</i> , <i>Gulma</i> , <i>Pleeha Roga</i> , <i>Udara</i> , <i>Pandu</i> , <i>Krimi</i> , <i>Kamala</i> , <i>Urustambha</i> .	<i>Amrita Ghrutam</i>
94.	Ca.Ci.24/153	<i>Chandana</i>	<i>Pittaja Madatyaya</i>	Regimen for <i>Pittaja Madatyaya</i> - Contact of women smeared with sandal paste and of breeze perfumed with the sandal scent.

95.	Ca.Ci.25/47	Chandana	Shopha	One of the drug used for <i>Pradeha</i> .
96.	Ca.Ci.25/88	Chandana	Vrana	One of the drug used in <i>Kashaya</i> preparation for <i>Vranaropana</i> .
97.	Ca.Ci.25/92	Chandana	Vrana	Oil cooked with paste of <i>Kampillaka</i> and <i>Chandana</i> .
98.	Ca.Ci.26/161	Chandana	Vata & Pittaja Urdwajatru Gata Vikaras.	<i>Baladhya Tailam</i> .
99.	Ca.ci.26/177	Chandana	Pittaja Shirorogas	One of the drug used in <i>Pradeha</i> and <i>Pariseka</i> .
100.	Ca.Ci.26/179	Chandana	Pittaja Shirorogas	Medicated ghee prepared with <i>Yastimaadhu</i> , <i>Chandana</i> , <i>Anantha</i> and milk used for <i>Navana Nasya</i> .
101.	Ca.Ci.26/182	Chandana	Kaphaja Shiroroga	One of the drug used for preparation of <i>Dhoomavarthi</i> .
102.	Ca.Ci.26/208	Chandana	Krimidanta, Chaladanta, Bramsa Danta, Mukha Paka, Mukha Dourgandhya, Swarya, Galashosha	<i>Khadiradi Gutika</i> and <i>Khadiradi Taila</i> .
103.	Ca.Ci.26/216	Chandana	Pittaja Aruchi	One of the drug used for <i>Kavalagraha</i> .
104.	Ca.Ci.26/234	Chandana	Pittaja Netraroga	One of the drug used in preparation of <i>Bidalaka</i> .
105.	Ca.Ci.27/30	Chandana	Urustambha	<i>Shrivestakari Yogam</i>
106.	Ca.Ci.28/150	Chandana	Vatarogas, Tamaka Swasa, Jwara, Hikka, Chardi, Gulma, Kshaya, Pleeha Roga, Apasmara	<i>Bala Tailam</i>
107.	Ca.Ci.28/158	Chandana	Vatarogas, Vatika Rogas, Kshira Virya Agni Balapradam, Apasmara, Unmada.	<i>Amruta Tailam</i>
108.	Ca.Ci.29/92	Chandana	Vatarakta, Sanga Shula, Daha, Shoola, Jwara, Balya And Varnya.	<i>Madhuparnyadi Tailam</i>

109.	Ca.Ci.29/106	Chandana	Vatarakta, Kshataksheena, Bhagna, Pakshaghata, Yoni Roga, Apasmara	Amrutadhya Tailam
110.	Ca.Ci.29/110	Chandana	Vatarakta, Jwara	Mahapadma Tailam
111.	Ca.Ci.29/114	Chandana	Vatarakta, Daha	Khuddaka Padmaka Tailam
112.	Ca.Ci.29/128	Chandana	Daha	Affusion or Touch of cold water soaked with Chandana.
113.	Ca.Si.3/47	Chandana	Pittaja Rogas	One of the ingredient used in preparation of Niruha vasthi
114.	Ca.Si.3/48	Chandana	Daha, Atisara, pradara, Raktapitta, Hridroga, Panduroga, vishamajwara, Gulma, Jwara, mutragraha, Kamala, and all Pittaja Vikaras	One of the ingredient used in preparation of Niruha vasthi
115.	Ca.Si.3/53	Chandana	Pittahara, burning sensation in chest, umbilicus, sides of chest, head, interior part of the body, Mutrakrucchra, Kshatakshina,	One of the ingredient used in preparation of Niruha vasthi
116.	Ca.Si.6/49	Chandana	Vamana Virechana Vyapaths (complications).	Mantha (drinks) prepared from Chandana
117.	Ca.Si.10/22	Chandana	Pittaja Vikara	Enema prepared with Chandana, Padmaka, Usira and Tunga.
118.	Ca.Si.10/42	Chandana	Raktapitta	One of the ingredient used in preparation for enema
119.	Ca.Si.10/43	Chandana	Raktapitta	One of the ingredient used in preparation for enema

DISCUSSION

Santalum album is one of the pharmacologically valued tree species. The essential oil derived from its heartwood has much more commercial importance, and it is an active ingredient in various Ayurvedic formulations. *Chandana* is considered as most important and widely used *pitta hara* drug in Ayurveda. Most of the *Acharyas* mentioned *Chandana* has *Tikta*

and *Madhura Rasa* and *Sheeta Virya*. Only in *Raja Nighantu*, *Katu Rasa* and *Kashaya Rasa* is mentioned. *Dosha Karma* of *Chandana* is *Pittakaphahara* and other *Karmas* of *Chandana* include *Dahahara*, *Vishahara*, *Jwarahara*, *Raktapittahara*, *Trushnahara*, *Klamahara*, *Shramahara*, *Varnya*, *Antardahahara*, *Ahaladakara*, *Brantihara*, *Saumasyajanaka*, *Vrshyam*, *Hridyam*, *Krimighna*, and *Anandhakaraka*. Indications include *Daha*, *Jwara*, *Trushna*, *Klama*, *Shrama*, *Antardaha*,

Raktapitta, Branti, Hridrogas, and Visharogas. Out of these indications Daha, Jwara, Trushna, Antardaha are Pittaja Nanatmajarogas. In Kaiyadeva Nighantu the Acharya mentioned properties of Chandana in different states, Chandana is Vata Shamaka in Suskha Avasta, it is Pitta Shamaka in Ardra Avasta, it is Kapha Shamaka in Madayama Avasta (Ardra-Sushka Avastha) and he also quoted properties of best quality Chandana that is bitter in taste, cold in potency, yellow in colour when rubbed and red in colour when chopped. The heartwood taken from the nodular part of Chandana tree which is heavy, red and on rubbing yields clear whitish yellow paste and which has pungent and bitter taste, cooling and very fragrant is considered as best quality Chandana according to Raja Nighantu. In Shodala Nighantu 8 types of Chandana are mentioned in which Sripriya Chandana is considered as Sweta Chandana and considered it as the best, all the 8 types of Chandana are similar in medicinal attributes such as Rasa, Guna, Veerya, Vipaka and Karma but there is difference only in Ganda and Varna, the properties of Sripriya Chandana or Sweta Chandana has Prahladana, and Hrudya properties and it posses Gandha, and Sheeta to higher extent. In Caraka Samhitha, Chandana is mentioned in various formulations such as Anu taila, Brahma Rasayana, Chywanprash, Nagabala Rasayana, Amalakayasa Brahma Rasayana, Indrokta Rasayana, Shadanga Paniya, Trayamanadya Ghृतam, Tiktaskatpalaka Ghृतam, Mahatiktaka Ghृतam, Kalyanaka Ghृतam, Patolamooladi Kashayam, Hriveradi Ghृतam, Sunisannaka Changeri Ghृतam, Candanadya Ghृतam, Kiratadya Churnam, Madhukasava, Katukadhya Ghृतam, Mruta Sanjeevani Agada, Amrita Ghृतam, Baladhya Tailam, Khadiradi Gutika, Khadiradi Tailam, Shrivestayakari Yogam, Bala Tailam, Amruta Tailam, Madhuparnyadi Tailam, Amrutadhya Tailam, Mahapadma Tailam, Khuddaka Padma Tailam in various diseases such as Siroruja, Daha, Sharira daurgandya, Kandu, Raktapitta, Vatarakta, Vatika Rogas, Apasmara, Unmada, Jwara, Swasa, Kshaya, Pleeha Rogas, Apasmara, Urdwajatru Gata Rogas, all types of Shotha, Urustambha, Visarpa, Chardi, Atisara, Pandu, Kamala, Trishna, Krimi, Vrana, Madatyaya, Gudabramsas etc. Chandana is mentioned

in 6 Dasemanis i.e., Vishagna, Trishnanigrahana, Dahaprasamana, Angamarda prasamana, Kandugna, Varnyadi. Caraka mentioned Chandana in Tiktaskanda. Chandana is used as an external application in Vasanta Ritucharya and Greeshma Ritucharya. In Charaka Samhitha, Chandana is indicated in Alepa, Pralepa, Pradeha, Pariseka, Secana, Avagaha, Snana, Dhupana and Kashaya preparations.

CONCLUSION

The extensive survey of literature revealed that Chandana, is an important medicinal plant with diverse pharmacological actions. Externally Chandana is most widely used drug in Ayurveda. Vast study done on the plant reveals that it is included in many Ayurvedic formulations which are Rasayana, Kusthagna, Raktadoshahara, Vishagna, Pramehahara etc. This plant has significant role in prevention and treatment of the disease. Further evaluation needs to be carried out in order to explore the concealed areas and their practical clinical applications, which can be used for the welfare of the mankind.

REFERENCES

1. Prakas L. Hegde, Harini. a text book of Dravyaguna Vijnana Volume -2 revised Edition -2020 Chowkambha Publications New Delhi. Page No. 173.
2. Indian medicinal plants, A compendium of 500 species, Vaidyaratnam's PS Varier's Arya Vaidya Sala, Kottakal Edited by PK Warriar, UPK Nambair, C Ramankutty, Reprinted 2013.
3. Acharya P.V. Sharma and Guru Prasad Sharma, Kaiyadeva Nighantu , Chowkhamba Orientalia Varanasi, Reprint 2013, Oshadi Varga, Page No.232.
4. Acharya P.V. Sharma and Guru Prasad Sharma, Kaiyadeva Nighantu , Chowkhamba Orientalia Varanasi, Reprint 2013, Oshadi Varga, Page No.234.
5. Acharya P.V. Sharma and Guru Prasad Sharma Dhanvantari Nighantu Chowkhamba Orientalia Reprint Edition 2018, Chandanadi Varga Page No. 91.
6. Hariharaprasad Tripathi , Madanaphala Nighantu, Chowkhamba Krishnadas Academy, Varanasi 2018, Karpooradi Varga, Page no.91.
7. Satish Chandra Sankhyadhar, Deepika Sankhyadhar, Chunekar Rajanighantu Chowkhamba Orientalia Varanasi, Edition 1st, 2012, Chandanadi Varga, Page No.637-638.

8. Gyanendrapandey, Dwivedi, Bagel, Shodala nighantu, Chowkhamba KrishnaDas Academy Varanasi, Edition 1st 2009, Candanadi Varga, Page, No 68-69.
9. Gyanendrapandey, Dwivedi, Bagel, Shodala nighantu, Chowkhamba KrishnaDas Academy Varanasi, Edition 1st 2009, Candanadi Varga, Page no 247-249.
10. Krishnachandra chunekar, G.S pandey, Bhavaprakasha nighantu, Chaukhambha Bharati Academy, Varanasi, Reprint-2022, Page No.178-179.
11. Acharya P.V.Sharma Priya Nighantu, Chowkhamba, SurBharathiprakasha, 2004 Hareetakyadi Varga. Page No.17-18.
12. Rakesh kumar, Nishat Anjum and Y.C. Tripathi, phytochemistry and pharmacology of *Santalum album* Linn.
13. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 3rd Chapter, p. 80. Verse 23.
14. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 3rd Chapter, p. 80. Verse 26.
15. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 3rd Chapter, p. 81. Verse 29.
16. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 4th Chapter, p. 90. Verse 10.
17. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 4th Chapter, p. 91. Verse 11.
18. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 4th Chapter, p. 92. Verse 11.
19. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 4th Chapter, p. 95. Verse 14.
20. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 4th Chapter, p. 98. Verse 17.
21. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 4th Chapter, p. 99. Verse 17.
22. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 5th Chapter, p. 112. Verse 20.
23. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 5th Chapter, p. 120. Verse 63.
24. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 6th Chapter, p. 138. Verse 25.
25. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 6th Chapter, p. 139. Verse 30.
26. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume I. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Sutrasthana 6th Chapter, p. 139. Verse 31.
27. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume II. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Vimanasthana 8th Chapter, p. 300. Verse 143.
28. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume II. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Indriasthana 12th Chapter, p. 594. Verse 74.
29. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 1/1 Chapter, p. 16. Verse 48.
30. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 1/1 Chapter, p. 18. Verse 59.
31. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 1/1 Chapter, p. 20. Verse 64.
32. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 1/2 Chapter, p. 30. Verse 12.
33. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 1/3 Chapter, p. 40. Verse 3.
34. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 1/4 Chapter, p. 61. Verse 16.
35. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 152. Verse 145.
36. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 178. Verse 202.
37. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 183. Verse 219.
38. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 185. Verse 223.
39. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 191. Verse 247.

40. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 194. Verse 258.
41. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 197. Verse 261.
42. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 197. Verse 262.
43. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 197. Verse 163.
44. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 3rd Chapter, p. 197. Verse 165.
45. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 231. Verse 31
46. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 233. Verse 45.
47. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 241. Verse 73.
48. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 241. Verse 76.
49. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 241. Verse 78.
50. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 243. Verse 80.
51. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 243. Verse 81.
52. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 248. Verse 99.
53. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 249. Verse 102.
54. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 4th Chapter, p. 249. Verse 108.
55. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 5th Chapter, p. 283. Verse 119.
56. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 6th Chapter, p. 28 Verse 306.
57. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 6th Chapter, p. 307. Verse 30.
58. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 6th Chapter, p. 309. Verse 39.
59. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 6th Chapter, p. 312. Verse 50.
60. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 7th Chapter, p. 352. Verse 130.
61. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 7th Chapter, p. 352. Verse 131.
62. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 7th Chapter, p. 353. Verse 132.
63. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 7th Chapter, p. 353. Verse 133.
64. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 7th Chapter, p. 354. Verse 141.
65. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 7th Chapter, p. 355. Verse 145.
66. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 8th Chapter, p. 382. Verse 77.
67. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 8th Chapter, p. 382. Verse 78.
68. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 8th Chapter, p. 383. Verse 83.
69. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 8th Chapter, p. 383. Verse 86.
70. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 9th Chapter, p. 424. Verse 37.
71. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 10th Chapter, p. 450. Verse 37.

72. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 11th Chapter, p. 462. Verse 18.
73. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 12th Chapter, p. 501. Verse 53.
74. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 12th Chapter, p. 505. Verse 69.
75. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 12th Chapter, p. 505. Verse 69.
76. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 12th Chapter, p. 506. Verse 70.
77. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 14th Chapter, p. 619. Verse 186.
78. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 14th Chapter, p. 621. Verse 193.
79. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 14th Chapter, p. 625. Verse 215.
80. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 14th Chapter, p. 626. Verse 221.
81. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 14th Chapter, p. 627. Verse 227.
82. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 14th Chapter, p. 628. Verse 230.
83. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume III. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 14th Chapter, p. 629. Verse 336.
84. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 15th Chapter, p. 49. Verse 125.
85. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 15th Chapter, p. 52. Verse 137.
86. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 15th Chapter, p. 54. Verse 148.
87. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 16th Chapter, p. 95. Verse 47.
88. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 17th Chapter, p. 149. Verse 131.
89. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 18th Chapter, p. 179. Verse 90.
90. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 19th Chapter, p. 227. Verse 53.
91. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 20th Chapter, p. 251. Verse 32.
92. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 20th Chapter, p. 251. Verse 33.
93. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 21st Chapter, p. 280. Verse 54.
94. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 21st Chapter, p. 280. Verse 55.
95. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 21st Chapter, p. 284. Verse 74.
96. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 21st Chapter, p. 284. Verse 75.
97. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 21st Chapter, p. 285. Verse 76.
98. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 21st Chapter, p. 285. Verse 79.
99. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 22nd Chapter, p. 315. Verse 41.
100. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 23rd Chapter, p. 341. Verse 56.
101. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 23rd Chapter, p. 346. Verse 77.
102. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 23rd Chapter, p. 350. Verse 98.
103. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. Cikitsasthana 23rd Chapter, p. 371. Verse 190.

104. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 23rd Chapter, p. 371. Verse 191.
105. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 23rd Chapter, p. 373. Verse 200.
106. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 23rd Chapter, p. 382. Verse 242.
107. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 24th Chapter, p. 419. Verse 153.
108. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 25th Chapter, p. 449. Verse 47.
109. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 25th Chapter, p. 459. Verse 88.
110. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 25th Chapter, p. 459. Verse 92.
111. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 26th Chapter, p. 517. Verse 161.
112. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 26th Chapter, p. 521. Verse 177.
113. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 26th Chapter, p. 521. Verse 179.
114. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 26th Chapter, p. 521. Verse 182.
115. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 26th Chapter, p. 528. Verse 208.
116. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 26th Chapter, p. 530. Verse 216.
117. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume IV. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2007. *Cikitsasthana* 26th Chapter, p. 534. Verse 234.
118. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume V. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2009. *Cikitsasthana* 27th Chapter, p. 9. Verse 30.
119. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume V. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2009. *Cikitsasthana* 28th Chapter, p. 62. Verse 150.
120. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume V. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2009. *Cikitsasthana* 28th Chapter, p. 63. Verse 158.
121. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume V. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2009. *Cikitsasthana* 29th Chapter, p. 111. Verse 92.
122. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume V. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2009. *Cikitsasthana* 29th Chapter, p. 113. Verse 106.
123. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume V. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2009. *Cikitsasthana* 29th Chapter, p. 114. Verse 110.
124. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume V. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2009. *Cikitsasthana* 29th Chapter, p. 115. Verse 114.
125. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume V. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2009. *Cikitsasthana* 29th Chapter, p. 120. Verse 128.
126. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume VI. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2006. *Siddisthana* 3rd Chapter, p. 225. Verse 47.
127. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume VI. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2006. *Siddisthana* 3rd Chapter, p. 226. Verse 48.
128. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume VI. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2006. *Siddisthana* 6th Chapter, p. 278. Verse 49.
129. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume VI. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2006. *Siddisthana* 10th Chapter, p. 372. Verse 22.
130. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume VI. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2006. *Siddisthana* 10th Chapter, p. 377. Verse 42.
131. Sharma RK and Dash VB. Agnivesha's Caraka Samhita. Volume VI. Varanasi: Chaukhambha Sanskrit Sansthan; reprint 2006. *Siddisthana* 10th Chapter, p. 377. Verse 43.

How to cite this article: Vyshnavi Macharla, Jagan lal Eslavath, Swarupa Rani G, Narasimha V, Vijayalakshmi A. Critical review of Swetha Chandana (*Santalum album L.*) in Nighantus and Caraka Samhita. *J Ayurveda Integr Med Sci* 2024;3:75-93.

<http://dx.doi.org/10.21760/jaims.9.3.12>

Source of Support: Nil, **Conflict of Interest:** None declared.