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# **Review Article**

# EXPLORING THE PHARMACOLOGICAL POTENTIAL OF *DANTHA DHAVANA* DRUGS MENTIONED IN BRIHAT THRAYI AND LAGHU THRAYI IN TERMS OF THEIR *RASAPANCHAKA*

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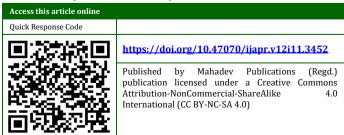
#### **ABSTRACT**

Ayurveda have always approached health with prime focus on maintenance of health in a healthy individual prior to the concept of treatment of a diseased individual. This implies the necessity of various concepts of Ayurveda mentioned across various Samhitas like Laghutravi's namely Brihatravi's and Dinacharya, Ritucharya, Swasthavritta. Janapadoshwamsa etc. All these concepts mentioned helps an individual to maintain the healthy state and prevent any health deficit that could lead to the manifestation of a disease. Among the concept of Dinacharya or the regimens to be followed in daily life, Acharya mentions Danta dhavana mentioned to preserve and promote oral hygiene. Even though the concept is familiar, the drugs mentioned for its usage are specific according to each Acharyas. This article is aimed to provide an insight into the pharmacological potential of drugs that possesses Danta dhavana action mentioned in the Brihatrayi and Laghutrayi.

# **INTRODUCTION**

Ayurveda is the science of life and is mainly focused on maintenance and promotion of positive health of healthy ones and curing the diseased ones. For the maintenance and promotion of positive health. several regimens are prescribed in Ayurveda which include, Dinacharya (daily routines), Ritucharya (seasonal regimen), Sadvritta (right conduct of life) etc. Various procedures for maintaining personal hygiene are well explained under the Dinacharya (daily routines) in all classical texts of Ayurveda. Hygiene in everyday life plays an important role in preventing the incidence and spread of the infectious diseases. Personal hygiene refers to those practices performed by an individual to take care for one's bodily health. Moreover, these habits will help us to protect our mental health and overall activity.

According to Ayurveda, there are nine openings in the human body and oral cavity is one of them.



Oral cavity is the chief entrance of human body and digestion process begins in the mouth itself. So that oral hygiene is more important. Oral cavity includes the *Oshtha* (lips), *Dantamoola* (gingiva and tooth supporting structures), *Danta* (teeth), *Jihva* (tongue), *Talu* (palate), *Kantha* (throat) and *Sarvasara* (oral mucosa). Under *Dinacharya*, there are procedures like *Dantadhavana* (brushing the tooth), *Pratisarana* (massaging the teeth and gums), *Jihva nirlekhana* (tongue scraping), *Gandoosha and Kavala* (gargling) etc. are describing in Ayurveda classics. Regular *Dantadhavana* is the first line of oral cleansing method which can prevent dental diseases like tooth decay, gum diseases etc.

Regarding *Dantadhavana*, Ayurveda recommends and insist use of chewing herbal sticks for daily use in the morning as well as after every meal to prevent disease. Regular *Dantadhavana* is the first line of oral cleansing method which can prevent dental diseases like tooth decay, gum diseases etc.

# **AIM OF THE STUDY**

Aim of the study is mainly to assess, understand and compare the pharmacological potential of drugs mentioned in the context of *Dantha dhavana* in *Caraka Samhita*, *Susrutha Samhita*, *Ashtanga Hridaya* and *Bhava Prakasa*.

#### MATERIALS AND METHODS

Relevant sections of Ayurvedic literature including the Caraka Samhitha. Susrutha Samhitha. Ashtanga hridaya and Bhayaprakasa were referred. Enlisted the drugs mentioned for the purpose of Dantha dhavana in all these literatures. All the information regarding the botanical name, family, pharmacological taxonomical details. properties of both the drugs were collected from various Nighantus. Details regarding pharmacological evaluation were also collected from research articles published.

#### Dantha Dhavana

Dantha dhavana means brushing the teeth is an unavoidable practice among our daily regimen, which was explained with great importance in almost every literature of Ayurveda. It is explained along with the list of plants to be used as tooth stick or as tooth powder. It is mentioned that brushing should be done with a Danthapavana (tooth stick) of 12 Angula in length which is predominantly of Kashaya, Katu and Thiktha rasa. Brushing should be done on morning and

after every meal.[1] Many of the drugs are enlisted to use as for this purpose.

In Caraka Samhitha, Acharya Caraka describes Dinacharya in 5th chapter of Suthra sthana, 'Mathrasithiya adhyaya'[2]. Susruthacharya details the 24<sup>th</sup>Dinacharva Chikitsa sthana chapter 'Anagathaabadha prathishedhaneeyam adhyayam'[3]. Acharya Vagbhata in Ashtanga sangraha explains dinacharva in the 3<sup>rd</sup> chapter of Suthrasthana<sup>[4]</sup> while Ashtanga hridayakara includes Dinacharya in the second chapter of *Suthra sthana*<sup>[5]</sup> Among *Laghuthrayi*, Bhavaprakasa samhitha includes Dinacharya in Purva khanta 5th chapter 'Dinacharyadi prakaranam'.[6] In light of the above furnished references the drugs mentioned are enlisted in the below table. The drugs are categorized into 3 sections, drugs mentioned to be used as Dantha pavana or tooth stick, which is advised to be used as a stick and should be chewed. Another group of drugs mentioned to be used as tooth powder and Kshoudra and Thaila mentioned in this context as adjuents for tooth powder.

Table 1: List of Plants Enlisted for Danthadhavana from Various Literature

S.No	Drugs	C.S (2)	S.S <sup>(3)</sup>	A.S <sup>(4)</sup>	A.H <sup>(5)</sup>	B.P <sup>(6)</sup>		
Drugs Mentioned as Dantha Pavana (Tooth Stick)								
1.	Madhuka	310	+	10		+		
2.	Karanja	<u> </u>	<i>+</i>	Ŧ	+	+		
3.	Nimba	กล	74	nn <sub>e</sub>		+		
4.	Khadhira	ation of the	+	K +	+	+		
5.	Arka	+02		,138° +	+	+		
6.	Nyagrodha		JAPR	+	+	+		
7.	Arjuna	+		+	+	+		
8.	Asana	+		+		+		
9.	Karavira	+		+				
10.	Malathi	+		+		+		
11.	Apamarga			+		+		
12.	Sarja			+				
13.	Arimeda			+				
14.	Plaksha					+		
15.	Vilwa					+		
16.	Udumbara					+		
17.	Amra					+		
18.	Kadamba					+		
19.	Champaka					+		
20.	Sirisha					+		
21.	Dadima					+		
22.	Kutaja					+		
23.	Thagara					+		
24.	Mandara					+		
25.	Gurvaka					+		
26.	Thala					+		

27.	Hindala					+	
28.	Kethaka					+	
29.	Bruhathruna,					+	
30.	Narikela					+	
31.	Kharjura					+	
	Drugs Mentioned to be used as Tooth Powder						
32.	Pippali		+			+	
33.	Maricha		+			+	
34.	Sunthi		+			+	
35.	Twak		+				
36.	Pathra		+				
37.	Ela		+				
38.	Saindhava		+			+	
39.	Thejovathi					+	
	Drugs M	entioned	l as Adjue	nts in Too	th Powe	ler	
40.	Kshoudra		+			+	
41.	Thaila		+			+	

In Bhava Prakasa benefits of using certain plants are also explained [7]

Table 2: Benefits of using certain plants for Dantha dhavana

S.No	Plants	Benefits
1.	Arka	Virya
2.	Vata	Deepthi
3.	Karanja 8/	Vijay <mark>a</mark>
4.	Plaksha 📆 😽	Arth <mark>a s</mark> ampathi, Vaidaryam Madhura Dhwani
5.	Khadira	Muk <mark>ha</mark> sougandhyam
6.	Vilwa	Vipula dhana
7.	Udumbara NAP	Vaksiddhi
8.	Amra	Arogya
9.	Kadamba	Dhrithi, Medha
10.	Champaka	Drida mathi
11.	Sirisha	Keerthi, Soubhagya, Ayu, Arogya
12.	Apamarga	Dhrithi medha
13.	Asana	Prajna Sakthi
14.	Dadima	Sundaraakara
15.	Kakuba	Sundaraakara
16.	Kutaja	Sundaraakara
17.	Jathi	Duswapnam vinasyathi
18.	Thagara	Duswapnam vinasyathi
19.	Mandara	Duswapnam vinasyathi
20.	Thrina raja - Gurvaka, Thala, Hindala, Kethaka, Bruhathruna, Kharjura, Narikela	

In Ashtanga sangraha, some plants which are contra indicated for the purpose of brushing are also included. They are Sleshmathaka, Arishta, Vibheethaki, Dhanwa, Vilwa, Vanjula, Nirgundi, Sigru, Thilwaka, Tinduka, Kovidara, Sami, Pilu, Pippala, Inguda, Guggulu, Paribhadra, Amlika, Mochaka, Salmali and Sana.

The drugs which are advised to be used for brushing in the literature are subjected to analyze in terms of their *Rasapanchaka* and therapeutic action, which are tabulated below.

Table 3: Botanical source of Plants mentioned for Danthadhavana<sup>(9)</sup>

S.No	Drugs	Botanical Name	Family					
Drug		antha Pavana (tooth stick)	, ,					
1.	Madhuka	Glycyrrhiza glabra Linn.	Fabaceae					
2.	Karanja	Pongamia pinnata (Linn.) merr	Fabaceae					
3.	Nimba	Azadirachta indica A.Juss	Meliaceae					
4.	Khadhira	Acacia catechu (Linn.f.) willd.	Fabaceae					
5.	Arka	Calotropis procera (Ait.) R. Br.	Apocynaceae					
6.	Nyagrodha	Ficus bengalensis Linn.	Moraceae					
7.	Arjuna	Terminalia arjuna w & A.	Combretaceae					
8.	Asana	Pterocarpus marsupium Roxb.	Fabaceae					
9.	Karavira	Nerium indicum Mill.	Apocynaceae					
10.	Malathi	Jasminum officinale Linn.	Oleaceae					
11.	Apamarga	Achyranthes aspera Linn.	Amaranthaceae					
12.	Sarja	Vateria indica Linn.	Dipterocarpaceae					
13.	Arimeda	Acacia leucophloea Willd	Fabaceae					
14.	plaksha	Ficus lacor Buch. – Ham	Moraceae					
15.	vilwa	Aegle marmelos Carr.	Rutaceae					
16.	Udumbara	Ficus glomerata Roxb.	Moraceae					
17.	Amra	Mangifera indica Linn.	Anacardiaceae					
18.	Kadamba	Anthocephalus cadamba Miq.	Rubiaceae					
19.	Champaka	Michelia chambaka Linn.	Magnoliaceae					
20.	Sirisha	Albizzia lebbeck Benth.	Fabaceae					
21.	Dadima	Punica gran <mark>a</mark> tum Linn	Punicaceae					
22.	Kutaja	Holarrhena <mark>an</mark> tidysenterica (Roth) A.DC	Apocynaceae					
23.	Thagara	Valeriana w <mark>allichi</mark> DC	Valerianaceae					
24.	Mandara	Erythrina variegata Linn.	Fabaceae					
25.	Gurvaka	Areca catechu Linn.	Palmae					
26.	Thala	Borassus flabellifer Linn.	Palmeae					
27.	Hindala	Cycas circinalis Linn.	Cycadaceae					
28.	Kethaka	Pandanus tectorius soland.ex Parkinson	Pandanaceae					
29.	Bruhathruna,	Bambusa arundinaceae (Retz.) Willd	Bambusaceae					
30.	Narikela	Cocos nucifera Linn.	Arecaceae					
31.	Kharjura,	Phoenix dactylifera Linn.	Araceae					
Ι	Drugs Mentioned to be used as Tooth Powder							
32.	Pippali	Piper longum Linn.	Piperaceae					
33.	Maricha	Piper nigrum Linn.	Piperaceae					
34.	Sunthi	Zingiber officinale Roxb.	Scitaminaea					
35.	Twak	Cinnamomum zeylanicum Blume	Lauraceae					
36.	Pathra	Cinnamomum tamala (Buch. Ham.)	Lauraceae					
37.	Ela	Elettaria cardamomum (Linn)Maton	Scitaminae					
38.	Thejovathi	Zanthoxylum armatum DC.	Rutaceae					

# Pharmacological properties (Rasa panchaka)

Rasapanchaka is the primary way of analysing a plant. On analysis of the drugs enlisted in this context, mainly Kashaya, Katu, Thiktha rasas are utilized by majority of the Acharyas, whereas Acharya Susrutha adds Madhura rasa drugs also for the purpose of Dantha dhavana. Rasapanchaka of the drugs mentioned are enlisted below.

Table 5: Pharmacological properties (Rasa panchaka) of plants used for Danthadhavana

2.Karanja(11)Katu, Thiktha, KashayaThikshnaUs3.Nimba(12)ThikthaLaghu, RookshaSit4.Khadhira(13)Thiktha, KashayaLaghu, RookshaSit5.Arka(14)Katu, ThikthaLaghu Rooksha Sara ThikshnaUs6.Nyagrodha(15)KashayaGuru, RookshaSit7.Arjuna(16)KashayaRookshaSit8.Asana(17)Katu, Thiktha, KashayaLaghu, RookshaUs9.Karavira (18)Katu, Thiktha, KashayaLaghu, Ruksha, ThikshnaUs10.Malathi (19)Thiktha, KashayaLaghu, Mridu, SnigdhaUs11.Apamarga(20)Katu, ThikthamSara, Thikshnaus12.Sarja (21)Katu, Thiktha, KashayaSnigdha, UshnaUs	Sitha Madhu Ushna Katu Sitha Katu Sitha Katu Ushna Katu Sitha Katu Ushna Katu
2.Karanja(11)Katu, Thiktha, KashayaThikshnaUs3.Nimba(12)ThikthaLaghu, RookshaSit4.Khadhira(13)Thiktha, KashayaLaghu, RookshaSit5.Arka(14)Katu, ThikthaLaghu Rooksha Sara ThikshnaUs6.Nyagrodha(15)KashayaGuru, RookshaSit7.Arjuna(16)KashayaRookshaSit8.Asana(17)Katu, Thiktha, KashayaLaghu, RookshaUs9.Karavira (18)Katu, Thiktha, KashayaLaghu, Ruksha, ThikshnaUs10.Malathi (19)Thiktha, KashayaLaghu, Mridu, SnigdhaUs11.Apamarga(20)Katu, ThikthamSara, Thikshnaus12.Sarja (21)Katu, Thiktha, KashayaSnigdha, UshnaUs	Ushna Katu Sitha Katu Sitha Katu Ushna Katu Sitha Katu Sitha Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu
3. Nimba <sup>(12)</sup> Thiktha Laghu, Rooksha Site 4. Khadhira <sup>(13)</sup> Thiktha, Kashaya Laghu, Rooksha Sara Thikshna Us 5. Arka <sup>(14)</sup> Katu, Thiktha Laghu Rooksha Sara Thikshna Us 6. Nyagrodha <sup>(15)</sup> Kashaya Guru, Rooksha Site 7. Arjuna <sup>(16)</sup> Kashaya Rooksha Site 8. Asana <sup>(17)</sup> Katu, Thiktha, Kashaya Laghu, Rooksha Us 9. Karavira <sup>(18)</sup> Katu, Thiktha, Kashaya Laghu, Ruksha, Thikshna Us 10. Malathi <sup>(19)</sup> Thiktha, Kashaya Laghu, Mridu, Snigdha Us 11. Apamarga <sup>(20)</sup> Katu, Thiktham Sara, Thikshna us 12. Sarja <sup>(21)</sup> Katu, Thiktha, Kashaya Snigdha, Ushna	Sitha Katu Sitha Katu Ushna Katu Sitha Katu Sitha Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu
4.Khadhira(13)Thiktha, KashayaLaghu, RookshaSit5.Arka(14)Katu, ThikthaLaghu Rooksha Sara ThikshnaUs6.Nyagrodha(15)KashayaGuru, RookshaSit7.Arjuna(16)KashayaRookshaSit8.Asana(17)Katu, Thiktha, KashayaLaghu, RookshaUs9.Karavira (18)Katu, Thiktha, KashayaLaghu, Ruksha, ThikshnaUs10.Malathi (19)Thiktha, KashayaLaghu, Mridu, SnigdhaUs11.Apamarga(20)Katu, ThikthamSara, Thikshnaus12.Sarja (21)Katu, Thiktha, KashayaSnigdha, UshnaUs	Sitha Katu Ushna Katu Sitha Katu Sitha Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu
5.Arka(14)Katu, ThikthaLaghu Rooksha Sara ThikshnaUs6.Nyagrodha(15)KashayaGuru, RookshaSit7.Arjuna(16)KashayaRookshaSit8.Asana(17)Katu, Thiktha, KashayaLaghu, RookshaUs9.Karavira (18)Katu, Thiktha, KashayaLaghu, Ruksha, ThikshnaUs10.Malathi (19)Thiktha, KashayaLaghu, Mridu, SnigdhaUs11.Apamarga(20)Katu, ThikthamSara, Thikshnaus12.Sarja (21)Katu, Thiktha, KashayaSnigdha, UshnaUs	Ushna Katu Sitha Katu Sitha Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu
6. Nyagrodha <sup>(15)</sup> Kashaya Guru, Rooksha Sita 7. Arjuna <sup>(16)</sup> Kashaya Rooksha Sita 8. Asana <sup>(17)</sup> Katu, Thiktha, Kashaya Laghu, Rooksha Usa 9. Karavira <sup>(18)</sup> Katu, Thiktha, Kashaya Laghu, Ruksha, Thikshna Usa 10. Malathi <sup>(19)</sup> Thiktha, Kashaya Laghu, Mridu, Snigdha Usa 11. Apamarga <sup>(20)</sup> Katu, Thiktham Sara, Thikshna usa 12. Sarja <sup>(21)</sup> Katu, Thiktha, Kashaya Snigdha, Ushna	Sitha Katu Sitha Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu ushna Katu
7.Arjuna(16)KashayaRookshaSit8.Asana(17)Katu, Thiktha, KashayaLaghu, RookshaUs9.Karavira (18)Katu, Thiktha, KashayaLaghu, Ruksha, ThikshnaUs10.Malathi (19)Thiktha, KashayaLaghu, Mridu, SnigdhaUs11.Apamarga(20)Katu, ThikthamSara, Thikshnaus12.Sarja (21)Katu, Thiktha, KashayaSnigdha, UshnaUs	Sitha Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu Ushna Katu
8. Asana <sup>(17)</sup> Katu, Thiktha, Kashaya Laghu, Rooksha Us 9. Karavira <sup>(18)</sup> Katu, Thiktha, Kashaya Laghu, Ruksha, Thikshna Us 10. Malathi <sup>(19)</sup> Thiktha, Kashaya Laghu, Mridu, Snigdha Us 11. Apamarga <sup>(20)</sup> Katu, Thiktham Sara, Thikshna us 12. Sarja <sup>(21)</sup> Katu, Thiktha, Kashaya Snigdha, Ushna Us	Ushna Katu Ushna Katu Ushna Katu ushna Katu Ushna Katu
9.Karavira (18)Katu, Thiktha, KashayaLaghu, Ruksha, ThikshnaUs10.Malathi (19)Thiktha, KashayaLaghu, Mridu, SnigdhaUs11.Apamarga(20)Katu, ThikthamSara, Thikshnaus12.Sarja (21)Katu, Thiktha, KashayaSnigdha, UshnaUs	Ushna Katu Ushna Katu Ushna Katu Ushna Katu
10.Malathi (19)Thiktha, KashayaLaghu, Mridu, SnigdhaUs11.Apamarga(20)Katu, ThikthamSara, Thikshnaus12.Sarja (21)Katu, Thiktha, KashayaSnigdha, UshnaUs	Ushna Katu ushna Katu Ushna Katu
11.Apamarga(20)Katu, ThikthamSara, Thikshnaus12.Sarja (21)Katu, Thiktha, KashayaSnigdha, UshnaUs	ushna Katu Ushna Katu
12. Sarja (21) Katu, Thiktha, Kashaya Snigdha, Ushna Us	Ushna Katu
13. Arimeda (22) Thiktha, kashaya Ushna Us	
	Ushna Katu
14.Plaksha (23)Kayu, kashayaRukshaSit	Sitha Katu
15. Vilwa (24) Madhura Laghu Sit	Sita Madhi
16. Udumbara <sup>(25)</sup> Kashaya Guru, Ruksha Sit	Sitha Katu
17. Amra (26) Kashaya Laghu, Ruksha Sit	Sitha Katu
18. Kadamba <sup>(27)</sup> Madhura, Lavana, Kashaya Ruksha Sit	Sitha Katu
19. Champaka <sup>(28)</sup> Katu, Thiktha, Kashaya Laghu, ruksha Sit	Sitha Katu
20. Sirisha <sup>(29)</sup> Madhura, Katu, Thiktha, <mark>K</mark> ashaya Laghu An	Anushna Katu
21. Dadima <sup>(30)</sup> Amla, Kashaya Lagh <mark>,u</mark> snigdha An	Anushna katu
22. Kutaja (31) Thiktha, Kashaya Laghu, ruksha Sit	Sitha Katu
23. Thagara <sup>(32)</sup> Katu, Thiktha, Kashaya Laghu, Snigdha Us	Ushna Katu
24. Mandara (33) Us	Ushna Katu
25. Gurvaka, (34) Kashaya Guru, Ruksha Sit	Sitha Katu
26.Thala (35)MadhuraSitha, Guru, snigdhaSit	Sitha Madhi
27. Hindala <sup>(36)</sup> Madhura, Amla Sit	Sitha
28. Kethaka (37) Madhura, Katu, Thiktha Laghu Us	Ushna Katu
29.Bruhathruna (38)Madhura, KashayaSaraSit	Sitha Madhi
30. Narikela (39) Madhura Guru, Snigdham Sit	Sitha Madhi
31. Kharjura (40) Madhura, Kashaya Guru, Snigdha Sit	Sitha Madhi
Drugs Mentioned to be used as Tooth Powder	
32. Pippali (41) Madhura, Katu, Thiktham Laghu snigdham Ar	Anushna Madhi
33. Maricha (42) Katu, Thiktham Laghu rooksha thikshna Us	Ushna Katu
34. Sunthi (43) Katu Laghu snigdha Us	Ushna Madhi
35. Twak (44) Madhura, Katu Thiktham Laghu ruksha thikshnam Us	Ushna Katu
36. Pathra (45) Madhura, Katu Lagu pichila thikshna Us	Ushna Katu
37. Ela (46) Madhura, Katu Laghu Sit	Sitha Madhi
38. Saindhava (47) Madhura, Thiktha Kashaya Snigdham, Guru, Sookshma, Us Anurasa Vyavayi, Vikasi, Sara, Visada	Ushna Madhi
39. Thejovathi (48) Katu thiktha Ruksha Us	Ushna Katu
Drugs Mentioned as adjuents in Tooth Powder	<u>.</u>
40. Kshoudra <sup>(49)</sup> Madhura kashaya Laghu – Su Sit	Sitha katu
Guru – Cha	

			Rooksham pichilam yogavahi				
41	Thaila <sup>(50)</sup>	Madhura, Thiktha kashaya	Snigdha	guru,	Sukshma,	Ushna	Madhura
			Vyavayi, Visada, Sara, Vikasi				

# **Therapeutic Actions and Indications**

Literary references of these drugs are analysed for understanding the *Doshaghnatha*, therapeutic indications and actions. The relevant information regarding the *Karma* and Indication of each drug has been tabulated below.

Table 6: Synonyms, Action on Doshas, Karma and Indications of plants used for Danthadhavana

S.No	Drugs	Synonyms	Doshagnatha	Karma	Indications
Drug	s Mentioned as				
1.	Madhuka <sup>(51)</sup>	-	Pitha anila asrajith	Vrana sodhana ropanam, Swaryam, Ruchyam	Sophaharam, Kushtam
2.	Karanja <sup>(52)</sup>	-	Kapha vathagnam	Vrana krimi haram, Dantha dardya krit	Kushtam, Visham
3.	Nimba <sup>(53)</sup>	-	Pitha kaphaharam	Krimiharam, Vrana sodhana karakam, Sopha paka karam, Ruchyam	Aruchi, Vranam, Visham, Kushtam, Sopham
4.	Khadhira <sup>(54)</sup>	Dantha dhawana	Pitha asra kapha haram	Danthyam	Aruchi, Krimi, Vrana, Sopham, Kushtam
5.	Arka <sup>(55)</sup>	-	Kapha vatha	Mala sodhana karakam, Vrana dosha vinasanam, Arthi nasanam	Kushta visha, Arochaka, Prasekam, Visha, Dushta vrana, Krimi, Sopham
6.	Nyagrodha <sup>(56)</sup>	Danthya	Kapha pitha haram	Varnyam	Vrana, Sopham
7.	Arjuna <sup>(57)</sup>	-	Kap <mark>ha</mark> pitha	V <mark>ra</mark> nyam, Raktha st <mark>ha</mark> mba krith	Visham,
8.	Asana (58)	-	Slesh <mark>ma</mark> asra pithahar <mark>am</mark>	Twachyam, Vatha arthi nasanam	Kushtam, Krimi
9.	Karavira <sup>(59)</sup>	-	Kapha pitha JAPR samaka	Arthi nasanam	Krimi, Kushta, Vrana, Visham
10.	Malathi (60)	-	Anila asrajith		Mukha Dantharthi, Kushtam, Mukhapakam, Visham, Vranam
11.	Apamarga (61)	-	Kapha medo anilapaha		
12.	Sarja <sup>(62)</sup>	-	Kapha		Visham, Kushtam, Vranam, Krimi
13.	Arimeda (63)	Mukharoga ripu	Kapha vatha haram		Mukha dantha Roga, Krimi, Visham, Sopham
14.	Plaksha (64)	-	Pitha kapha asraghnam	Vrana sodhana ropanam	Sopham
15.	Vilwa (65)	-	Thridoshaghnam	Ruchipradam	
16.	Udumbara (66)	-	Pitha kapha raktham	Vrana sodhana ropanam, Rochanam	Sopham
17.	Amra (67)	-	Kapha pitha samanam	Ruchyam	Vranam
18.	Kadamba <sup>(68)</sup>	-	Vatha pitha samaka	Vrana samrohanam, Kaphapitha arthi nasanam	Visham, Arochakam
19.	Champaka <sup>(69)</sup>	-	Kapha vatha asra pithanuth		Visham, Krimi, Kushtam, Vranam

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20.	Sirisha <sup>(70)</sup>	Visha hantha	Kapha pitham	Visha vrana visodhana	Visham, Kushtam, Sopham	
21.	Dadima (71)	-	Thridoshaghnam	Ruchyam	Kanta Mukha roga	
22.	Kutaja <sup>(72)</sup>	-	Raktha pitha kaphaghnam		Kushta, Krimi	
23.	Thagara <sup>(73)</sup>	-	Kapha vatha		Visha, Soolam	
24.	Mandara (74)	-	Vatha kapha		Aruchi, Krimi, sopham	
25.	Guvaka, <sup>(75)</sup>	-	Kaphapitha	Rochanam, Vakthra kleda malapaham, Mukhadoshanuth, Mukha vairasya mala dourgandhya nasanam, Mukha dosha nuth, Kanda suddhi krith	Mukhamalam	
26.	Thala <sup>(76)</sup>	-	Vathapithaghnam		Kushta krimi visham	
27.	Hindala <sup>(77)</sup>	-	Kapha krith, Vatha pitha hara			
28.	Kethaka <sup>(78)</sup>	-	Pitha samaka			
29.	Bruhathruna <sup>(79)</sup>	-	Kapha pithaghna	Ruchikrith	Sopha, Vrana	
30.	Narikela <sup>(80)</sup>	-	Vatha pitha	Ruchipradam	Krimi	
31.	Kharjura <sup>(81)</sup>	-	Vatha sleshma	Ruchyam		
Drug	s Mentioned to b	e used as Tooth	Powder Chyurved			
32.	Pippali <sup>(83)</sup>	-	Vatha kaph <mark>a hara</mark>	Ruchyam	Krimi	
33.	Maricha <sup>(84)</sup>	-	Kaph <mark>ag</mark> hnam	P		
34.	Sunthi <sup>(85)</sup>	-	Kaph <mark>a</mark> vatha <mark>har</mark> a	R <mark>uc</mark> hyam, Swaryam, Jihva ka <mark>th</mark> a visodhanam	Vrana, Sopha	
35.	Twak <sup>(86)</sup>	Mukhasoucham, Mukha sodhanam, surasam	Kapha vatha haram	Mukha sosha haram, Kanta vakthra rujo hanthi, Kanta sudhikaram	Aruchi	
36.	Pathra (87)	Sugandhi	Kapha vatha	Arochaka nasanam, Mukha sodhanam		
37.	Ela (88)	-	Vatha kapha hara	Rochana, Mukha sodhani	Vrana	
38.	Saindhava (89)	-	Tridoshahara			
39.	Thejovathi (90)	Sourabha	Vatha kapha hara	Ruchyam	Krimi	
Drug	s Mentioned as A	Adjuents in Tooth	Powder			
40.	Kshoudra (91)	-	Tridosha samana	Ropana, Sandhana	Krimi, Kshata, Visha	
41.	Thaila <sup>(92)</sup>	-	Vatha Kapha hara	Vrana ropana, Vrana sodhana	Vrana, Krimi, Dantasula	

# **DISCUSSION**

Danta dhavana as we already discussed is mentioned in the context of Dinacharya with the sole intention of promoting oral hygiene. There are various symptoms that denote poor oral hygiene including Mukha dourgandhya, Upadeha mukha vaishadya, Anannabhilasha, Soumanasya etc. If we look at the dosha involvement, Mukha being the seat of Bodhaka kapha, Kapha dosha along with food debris mainly causes Mukha roga. Kapha dosha is responsible overall for reducing oral hygiene as it can promote Kledatva

and Dourgandhya due to its Snigdha, Slakshna and Pichila guna.

Drugs that possess pharmacological actions that can reduce *Kapha* could significantly help to overcome the above said symptoms of poor oral hygiene along with promoting the strength of buccal mucosa.

A detailed observation of the drugs mentioned and indicated for *Dantadhavana* reveals that the majority of drugs mentioned for the purpose of usage as dental sticks, dental powder etc has *Katu, Tiktha, Kashaya Rasa, Laghu-ruksha-tikshna guna* and *Ushna virya* which helps to reduce the vitiated *Kapha* and cleanse the oral cavity, according to Acharya Vagbhata, *Tikta rasa* helps to reduce *Kledatva* which in turn reduces the *Kapha dosha* in the oral cavity and removed the coating of the tongue. *Katu rasa* itself is responsible for *Mukhasodhana*/cleansing of oral cavity.

Looking into the Pharmacological actions of various drugs many of the drugs possesses *Ruchya* and is indicated in conditions like *Aruchi, Anannabhilasha* in therapeutics.

#### **CONCLUSION**

Among the various body parts, Head and face always holds high regard and priority in Ayurvedic treatment. Oral hygiene is always important among the hygiene in general as it promotes the confidence and reflects the general condition of body health. Mukha roga in that aspect holds its special place amongst *Urdhwajatrugata vikaras, Mukha* being one among the 9 Bahirmukha srotas. Ayurveda has advocated various regimens, procedures and treatments to maintain, promote and overcome oral health and hygiene problems. Danta dhavana is one such regimen mentioned in *Dinacharya* to maintain the oral hygiene. Looking at various opinions regarding drugs put forward by various *Acharvas*, the pharmacological potential of these drugs in maintaining oral health and hygiene can best be explained and attributed to their Rasa panchaka.

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