

www.ijapc.com



REVIEW ARTICLE

A Literary Study on *Aharadravya* having *Hridya* Property in Relation to *Brihat Trayee*

Author: Shah Ranju¹

Co Authors: A Arhanth Kumar², P H Shrikanth³ and D N Likhita⁴

¹⁻⁴Department of P. G. Studies Samhita and Siddhanta, Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital, Kuthpady, Udupi, Karnataka, India

ABSTRACT

Background: *Hridya* is termed as anything (includes foods, lifestyle and drugs) which is beneficial to heart or having cardio-tonic activity. *Brihat trayee* have mentioned various food substances which possess cardio tonic activity in their respective *Samhitas* under various headings of *Aharavargas*. These can be used in day-to-day practice as well as in clinical practice for maintaining the cardiac health thereby preventing and curing the diseases related to heart. Critical analysis of these *Ahara dravyas* is the need of an hour in clinical practice.

Aims and Objectives: To identify the *Ahara dravyas* that are *Hridya* as mentioned in *Brihat trayee* and assess their common properties.

Methodology: An effort was made to collect data from *Brihat trayee*. The collected data from each *Samhita* was presented in tabular form with the details of *dravya* - name, *varga*, properties.

Observation: After thorough screening of the three *Samhitas*, it is found that *Acharya Charaka*, *Sushruta* and *Vagbhata* have mentioned 20, 43 and 25 *Hridya dravyas* respectively. These *dravyas* are mostly found to have sweet and sour taste, possessing qualities like lightness (*Laghu*), unctuousness (*Snigdha*) and coldness (*Sheeta*) and are acting as cardio tonic and cardio protective.

Conclusion: Fruits such as *Dadima, Lavali and Narikela* and *Mamsarasa, Raga* and *Shadava* are common in all the three texts. Current researches have proven the cardio tonic property of pomegranate juice and tender coconut water. Thus, analysis and application of these *Ahara dravyas* in present era have been discussed in the full paper.

Key Words Cardio-tonic, Dadima, Amla rasa, Madhura rasa, Hridya mahakashaya

Received 22nd January 22 Accepted 04th February 22 Published 10th March 2022

INTRODUCTION

Due to sedentary lifestyle, act of taking unwholesome food and regimens, stress, etc life style disorders are becoming a big burden in present era. One among which is cardiovascular diseases with death rate of 272 per 100000 population in India¹. According to WHO, cardiovascular disease contributed to 28.1% of total deaths and 14.1% of total Disability-Adjusted Life Years (DALYs) in India in 2016². In INTERHEART study, nine common risk factors have been mentioned which include







physical inactivity, low fruits and vegetables intake, psycho-social stress, etc for more than 90% of acute myocardial infarction in South Asians³. This highlights the importance of consuming appropriate food to maintain health and prevent such heart related disease.

Ayurveda, the science of life has mentioned various foods and dietary habits for the promotion of cardiac health and curing of various cardiac related disease in the form of *Ahara dravyas*. The term *Hridya*, refers to the things or materials which are beneficial and conducive to heart⁴. These include foods, regimens and drugs. The description of *Ahara dravvas* which are *Hridya* in activity is available in the *Brihat trayee* - *Charaka Samhita*⁵, *Sushruta Samhita*⁶ and *Astanga Samgraha*^{7,8} in the form of various *Vargas*.

This paper aims to identify the *Ahara dravyas* that are *Hridya* as mentioned in *Brihat trayee* and to analyze the common properties of *Hridya dravyas*. The collation of *Hridya dravyas* will throw light on the common food products that will maintain the functioning of heart, thus reducing the risk of cardiovascular diseases.

MATERIALS AND METHODS

An effort was made to collect data on *Ahara dravyas* acting as *Hridya* through various *Ayurvedic* classical texts including *Charaka Samhita* with *Chakrapani* commentary, *Sushruta Samhita* with commentary by *Dalhana and Gayadasa*, *Astanga Sangraha* of *Vagbhata* along with available translation and published articles in peer-reviewed journals and database-pubmed, internet sources.

The collected data from each Samhita was presented in tabular form with the details of dravya - name, varga, properties. Based on these observations were made. In each varga the properties of *dravya* are scanned and those possessing Hridya property are enlisted. Then the other properties of that *dravya* are compared to identify the common properties of a dravya with Hridya guna which they possess. Finally, a summarized table mentioning the total number of Hridya dravays from each Samhita is highlighted.

LITERARY REVIEW

The science of *Ayurveda* which aims to maintain health of healthy and prevent and cure diseases mentioned three pillars of life as *Ahara* (Food), *Swapna* (Sleep) and *Brahmacharya* (Celibacy)⁹. This highlights the importance given to food to maintain health and prevent diseases. Here an attempt has been made to analyze the food products that are exhibiting cardio tonic activity so as to reduce the prevalence of cardio vascular diseases in present era. In *Ayurveda*, this activity is termed as *Hridya*.

The word *Hridya* means '*hridayasyapriyamiti*' (*Shabdakalpadruma*),⁴ '*hridayasya priyam Hridyam*' (*Kaiyadeva Nighantu*)¹⁰ , '*hridayayah hitam Hridyam*'(*Dalhana*)¹¹ and '*hridaya hitam hridyam*' (*Acharya Charaka*)¹² which all means that which is beneficial or conducive to heart.

March 10th 2022 Volume 16, Issue 2 Page 89







Acharya Charaka has mentioned the Hridya dravya in 27th chapter named Annapanavidhi, of Sutrasthana,⁵ Acharya Sushruta in 46th chapter named Annapanavidhi, of Sutrasthana⁶ and Acharya Vagbhata in Astanga Sangraha (6th and 7th chapter named Dravadravyavignaniya⁷ and Annaswarupavignaniya⁸ of Sutrasthana) respectively. Acharya Charaka has mentioned twelve Aharavarga which has been analyzed for Hridya activity and summarized in the Table No. 1.

SN.	AharaDravya	Varga	Guna and karma		
1	Fruit of lavali	Phala	Kashaya, Visada, Saugandhya, Ruchipradam, Hridyam		
2	Fruit of <i>Dadima</i>	Phala	Amla, Kashaya, Madhura, Usna, Snigdha, Vataghna, Dipanam, Hridyam		
3	Karchura- without skin	Phala	Rochana, Dipana, Sugandhi, Hridyam , Kaphavataghna, Good fo. swasa, Hiccogh, Arsha		
4	Nagaranga	Phala	Madhura, Kinchitamla, Hridyam, Bhaktaprarochanam, Vatasamana		
5	Yavani, Arjaka, Shigru, Saleya and Mristaka	Harita	Hridyam, Swadaniya,		
6	Sharkara	Madya	Mukhapriya, Sukhamada, Sugandhi, Hridyam, Varnya		
7	Pakwarasa	Madya	Rochana, Dipana, Hridyam , Snigdha, Varnya, Good for Sosha, Shopha, Arsha		
8	Dhatakyasava	Madya	Ruksha, Rochana, Dipana, Hridyam		
9	Madhwaasava	Madya	Rochana, Dipana, Hridyam, Balya, Laghu, Kaphaghna, Vibandhaghna		
10	Sauviraka, Tushodaka	Madya	Dipana, Good for Hridroga, Pandu, Krimi, Arsha, Grahani		
11	Navanita (Fresh)	Kshira	Dipana, Hridyam, Good for Arsha, Grahani, Aruchi		
12	Vilepi	Krutanna	Laghu, Tarpana, Hridyam		
13	Odana with mamsa, saka, vasa, taila, ghrita, majja, phala	Krutanna	Balya, Santarpana, Hridyam, Brimhana		
14	Godhuma with sneha	Krutanna	Tarpana, Hridyam, Vrishya		
15	Vimardaka	Krutanna	Hridyam, Vrishya		
16	Lassi (Dadhi with guda)	krutanna	Sneha, Tarpana, Hridyam, Vataghna		
17	Raga, Sadava	Panaka Preparations	Katu, Amla, Madhura, Lavana, Laghu, Dipana, Mukhapriya Hridyam, Bhaktarochana		
18	Viswabhesajam (Dry ginger)	Condiments, Spices	Sneha, Dipana, Usna, Madhuravipaka, Vrishya, Hridyan Rochana, Vatakaphapaham		
19	Souvarchala	Lavana (Salt)	Sukshma, Usna, Laghu, Saugandhi, Ruchipradam, Hridyam, Vibandhaghna,Udgarasodhi		
20	Mamsarasa		Prinanamsarvabhutanam, Balya, Hridyam, Sarvarogaprasama Buddhi-Indriyavriddhikara, Vayavriddhikara, Good oligospermia		
n th	e same way Acharya S	<i>ushruta</i> has a	~ *		
mentioned twelve annavarga which has been			thirteen <i>Aharavarga</i> which has been analyzed for		
naly	zed for <i>Hridya</i> activity an	nd summarized	in <i>Hridya</i> activity and summarized in the Table No		

Table 1 Ahara Dravya having Hridya properties

March 10th 2022 Volume 16, Issue 2 Page 90







Table 2 Ahara Dravya having Hridya properties

SN	Aharadravya	Varga	Guna and Karma		
1	Lohita	Shali	Tridoshagna, Chakshushya , Hridya , Varnabalakrut		
2	Meat of strong legged animals	Mamsa	Kashaya, Madhura , Hridya , Vatapittahara		
3	Meat of black deer	Mamsa	Kashaya, Madhura , Hridya , Rochana, Balya		
4	Meat of Krakara	Mamsa	Vatapittahara, Vrishya, Hridya , Laghu		
5	Dadima	Phala	Kashaya anurasa, Ruchikara, Dipaniya, Hridya		
6	Matulunga	Phala	Laghu, Dipaniya, Amla, Hridya		
7	Pakwa Amra	Phala	Varnakara, Hridya, Swadu, Hridya , Ruchya		
8	Bhavya	Phala	Swadu, Kashaya, Amla, Hridya		
9	Naranga	Phala	Amla, Samadhura, Hridya , Vataghna, Bhaktarochana		
10	Narikela	Phala	Snigdha, Swadu, Sheetala, Hridya , Balamamsaprada		
11	Kashmarya	Phala	Hridya, Keshya, Rasayana, Medhya		
12	Kharjura	Phala	Sheetala, Tarpana, Hridya , Madhura rasa and Vipaka		
13	Lavali	Phala	Kashaya, Kaphapittaghnaa, Hridya , Rochana		
14	Kusmanda(white one)	Saka	Laghu, Usna, Dipana, Hridya , Pathya, Sarvadoshahara		
15	Sirnavrunta	Saka	Madhura, Dipana, Hridya , Laghu, Kaphapaha		
16	Nagara (Dry Ginger)	Saka	Katu, Madhura Vipaka, Hridya , Laghu, Dipana, Rochand		
17	Adraka (Wet Ginger)	Saka	Kaphavatahara, Hridya , Rochana, Vrishya, Usna		
18	Dhanyaka (fresh)	Saka	Ruchya, Hridya, Swadu, Saugandhya		
19	Mulaka (Tender)	Saka	Tikta, Katu, Rochana, Hridya , Sarvadoshahara		
20	Vegetables of Bitter Taste	Saka	Laghu, Raktapittahara, Hridya , Rochana		
21	Bakula Pushpa	Pushpa Saka	Sugandhi, Hridya , Visada		
22	Shatavari	Kanda	Sheeta, Hridya , Rasayani, Agnibalavardhini		
23	Saindhava	Lavana	Ruchya, Laghu, Madhura, Sheeta, Hridya		
24	Sauvarchala	Lavana	Laghu, Rochana, Surabhi, Hridya , Visada		
25	Suwarna	Lavana	Swadu, Hridya , Rasayana, Sheeta, Brimhaniya		
26	Lajamanda	Krutanna	Pathya, Hridya , Dipana, Vataanulomana		
27	Vilepi	Krutanna	Tarpana, Hridya , Pathya, Laghu, Swadu, Dipaniya		
28	Vilepi (Mixed with meat, fruit,	Krutanna	Swadu rasa, Santarpaniya, Hridya , Vrisya		
	vegetable)				
29	Meat cooked with ghrita	Krutanna	Laghu, Dipana, Hridya , Ruchya, Manogya		
30	Mamsa rasa	Krutanna	Prirana, Hridya , Vatapittahara		
31	Soup of Green gram (kruta and Krutanna		Kaphagna, Hridya , Dipana		
	akruta)				
32	Soup of Green gram with grapes	Krutanna	Rochana, Dipana, Hridya , Laghupaki		
	and pomegranate				
33	Soup of Patola and Nimba	Krutanna	KaphamedaVishoshana, Hridya , Dipana, Pitthagna		
34	Soup of Pomegranate and Amlaka	Krutanna	Laghu, Hridya , Prana agnijanana		







35	Khada and Kambalika	Krutanna	Hridya, Vatakaphahara
36	Raga and Shadava	Krutanna	Laghu, Brimhana, Hridya , Rochana, Dipana
37	Curd with Guda	Krutanna	Snehana, Hridya , Anilapaha
38	Syrup of Parushaka and Kola	Krutanna	Hridya, Vistambhi
39	Edibles made from milk	Bhakshya	Balya, Pushtikara, Hridya , Dipana, Sugandhi
40	Ghritapura	Bhakshya	Pranakara, Hridya , Vatapittahara
41	Visyanda	Bhakshya	Madhura, Snigdha, Hridya , Balya, Triptikara
42	Phenaka	Bhakshya	Brimhana, Hridya , Laghu, Balya
43	Edibles cooked in ghrita	Bhakshya	Laghu, Hridya , Sugandhi, Balya, Vatapittahara

Table 3 Ahara Dravya having Hridya properties

S N	Aharadravya	Varga	Guna and Karma
1	Rain water (fresh)	Тоуа	Jivana, Tarpana, Hridya , Sheeta, Shuchi,
2	Purana Guda	Ikshu	Pathya, Hridya
3	Varuni	madya	Laghu, Hridya , Tikshana
4	Madvika	madya	Madhura, Sara, Natiusna, Hridya
5	Sura prepared with sarkara	madya	Surabhi, swadu, Laghu, Hridya
6	Maireya	madya	Madhura, Hridya , Sara
7	All types of Asava	madya	Hridya, Vatala
8	Sukta	madya	Sara, Dipana, Hridya , Ruchikara
9	Mamsa rasa	Krutanna	Pathya, Brihana, Vrishya, Hridya
10	Khala and Kambalika	Krutanna	Hridya
11	Raga and Shadava	Krutanna	Ruchikara, Vrishya, Hridya , Prinana
12	Panaka	Krutanna	Prinana, Mutrala, Hridya
13	Flour mixed with fruits like	Krutanna	Amla, Hridya
	Karkandhu,Badara, etc		
14	Meat of Harina, Yena	Mamsa	Laghu, Sadrasa, tridoshajit, Hridya
15	Meat of Krakara and Upachakraka Mamsa	Mamsa	Hridya
16	Patola	Saka	Swadupaka, Ruchya, Hridya , Kriminut
17	Karira	Saka	Ruchikara, Kashaya, Swadu, Tikta, Hridya
18	Sirnavrunta	Saka	Kaphavatajit, Rochana, Dipana, Hridya,
19	Haritaka(leafy vegetables)	Saka	Dipana, Hridya , Rochana
20	Rasona (bulb)	Saka	Usna, Sara, Hridya, Rochana, Dipana
21	Dadima	Phala	Hridya, Laghu, Rochana, Dipana
22	Narikela	Phala	Swadu, Sheeta, Hridya , Brimhana, Pittaghna
23	Amra (ripen)	Phala	Hridya, Swadu, Amla, Snigdha
24	Sahakara rasa (Mango juice with Honey,	Phala	Hridya, Surabhi, Rochana, Dipana, Snigdha
	sugar, ela, etc		
25	Lavali	Phala	Kashaya, Rochana, Hridya , Vatala





www.ijapc.com

REVIEW ARTICLE

SN	Varga	Charaka	Sushruta	Vagbhata	
1	Phala (Fruit)	4	9	5	
2	Madya (Liquor)	5	-	6	
3	Krutanna (prepared foods)	7	13	5	
4	Saka (Vegetables)	1	8	5	
5	Mamsa (Meat)	1	3	2	
6	Kshira (Milk)	1	_	_	
7	Lavana (Salt)	1	3	_	
8	Bhakshya (Hard Edibles)	_	5	_	
9	Toya (Water)	_	_	1	
10	Ikshu (Sugarcane)	_	_	1	
11	Shali (Rice)	_	1	_	
12	Kanda (Tuber)	_	1	_	
	Total	20	43	25	

In the same way *Acharya Charaka* has mentioned *Hridya mahakashaya* which includes ten drugs: *Amra, Amrataka, Likucha, Karamarda, Vrikshamla, Amlavetas, Kuvala, Badara, Dadima and Matulunga*¹². They can be used as both food products and medicinal drugs. Among these *Amra, Dadima, Badara* are commonly available. All these are dominant with *Amla rasa*, in turn rich in Vitamin C and thus can be utilized as cardiotonic¹³.

Table 4 Hridya dravyas mentioned by Three Acharyas

RESULTS AND DISCUSSION

After thorough screening of *Brihat trayee* and from the above literary analysis we can infer the importance of consuming proper food products that exhibit cardio tonic activity in turn maintaining cardiac health. *Acharya Charaka, Acharya Sushruta* and *Acharya Vagbhata* has mentioned totally 20, 43 and 25 *dravyas* that are having *Hridya* activity respectively which are shown in Table No. 4.

Fruits such as Dadima, Lavali and Narikela, Mamsarasa, Raga and Shadava are common in all the three texts. Current researches have also proven the cardio tonic property of pomegranate juice and tender coconut water. Dadima is believed to be potential source of Vitamin C and natural phenolics that has been associated with protective property. Phyto-chemical cardio analysis indicates the presence of alkaloids, flavonoids, cardiac glycosides, tannins etc. Flavonoids possess anti-atherosclerotic action. Other actions include anti-hypertensive and antioxidant¹³. Further noticed that the Hridya *dravyas* mentioned by all the three *Acharyas* are having sweet and sour taste, are light, cold and fragrant in nature and are having Dipana rochana (agreeable), Brimhana (digestive), (nourishing) and satisfying property. Acharya *Charaka* has quoted 'Amlam Hridyanam'¹⁴ which March 10th 2022 Volume 16, Issue 2 Page 93





means *amla rasa*(sour taste) *dravya* act as cardio tonic and has mentioned the property of *amlarasa* as 'hridayam tarpayati' (nourishes the heart)¹⁴, pleasing to mind and strengthening the sense organs¹⁵. In modern pharmaceutics sour fruits are rich in Vitamin C, which is proved to be antioxidant, found to increase HDL, decrease LDL and maintain cardiac structure and functions¹³. *Acharya Chakradutta* has quoted *madhura* rasa (sweet taste) as *Hridya* too¹⁶. Function of *madhura rasa* are nourishment of all the five sense organs including mind and possess *snigdha* and *sheeta* qualities¹⁷, which in turn acts as cardio protective.

Aharavarga explained by our Acharyas are easily available now and can be prepared at home and can be useful for daily basis and even for medicinal preparations. These can be advised to patient in clinical practice as well as to common to include in their regular diet. This also strengthens importance of prescribing Pathya (wholesome) food in clinical practice. The cardio tonic activity of fruits like Lavali, Naranga (orange), Matulunga (citron), Meat soup, Raga and sadava can be explored. Pilot and Observational study can be done to establish the cardio tonic activity of dravya which has been already proved. Such literary compilations on other important activities of Aharadravya can be undertaken by Ayurvedic scholars and can be adopt as a model for teaching to strengthen the evidence-based practice.

CONCLUSION

Brihat trayee have mentioned various food articles which possess cardio-tonic activity in their respective Samhitas under the heading of various Aharavargas. After thorough screening, we can conclude that Acharya Charaka, Acharya Sushruta and Acharya Vagbhata have mentioned totally 20, 43 and 25 dravyas that are having Hridya activity. Fruits such as Dadima, Lavali and Narikela, Mamsarasa, Raga and Shadava are common in all the three texts. Current researches have also proven the cardio tonic property of pomegranate juice and tender coconut water. After keen observation it can be analyzed that the Hridya dravyas mentioned by all the three Acharyas are mostly having sweet and sour taste, are light, cold and fragrant in nature and are having Dipana (digestive), Rochana (agreeable), Brimhana (nourishing) and satisfying property. This paper highlights the role of Hridya Aharadravyas which plays a vital role to prevent and cure cardiac disease. It also signifies role of pathya in clinical practice and scope of research on other hridya dravyas to elicit their property.







REFERENCES

 P Dorairaj, J Panniyammakal. Cardiovascular diseases in India- Current Epidemiology and Future Directions, AHA Journal, 2016:133(16):1605-1620

2. News I. Heart disease the biggest killer in India, COPD second biggest: The Lancet | India News - Times of India [Internet]. The Times of India. 2022 [cited 14 January 2022]. Available from:

https://timesofindia.indiatimes.com/india/heartdisease-the-biggest-killer-in-india-copd-secondbiggest-the-lancet/articleshow/65795078.cms

3. Scheen AJ, Kulbertus H. L'étudeclinique du mois. "INTERHEART": la preuve par 9. Neuf facteurs de risqueprédisenneufinfarctus du myocarde sur dix [Interheart: nine risk factors predict nine out of ten myocardial infarctions]. Rev Med Liege. 2004 Nov;59(11):676-9. French. PMID: 15646744.

Radhakantadeva. Shabdakalpadruma,
 Panchama khanda, Hakaraprakarana, Delhi:Naga
 publications, 1987 Reprint, p.545.

5. Agnivesha. Charaka Samhita. Chakrapanidutta. In:Acharya YT Edi. Ayurveda Dipika Commentary, Reprint Ed. New Delhi: Chaukhamba Publications; 2020. Sutrasthana 27/86-312. p.152-74.

6. Sushruta, Sushruta Samhita, Dalhana and Gayadasa, In: Acharya YT Edi.
NibandhaSangraha and Nyayachandrika
Commentary, Reprint Ed. Varanasi:

Chaukhamba Publications; 2021. Sutrasthana 46/6-405 p. 214-54

 Babu SS. English translation on Astanga Sangraha of Vagbhata, Dravadravyavignaniya Adhyaya Verse 2-129. Varanasi: Chaukhamba Orientalia, First edition; 2014p. 55-688.

 Babu SS. English translation on AstangaSangraha of Vagbhata, Annaswarupavignaniya Adhyaya Verse 45-189.
 Varanasi: Chaukhamba Orientalia, First edition; 2014p.74-86.

9. Agnivesha. Charaka Samhita. Chakrapanidutta. In:Acharya YT Edi. Ayurveda Dipika Commentary, Reprint Ed. New Delhi: Chaukhamba Publications; 2020. Sutrasthana 11/35.p.74.

10. Sharma PV, editor.kaiyadeva-Nighantu Pathyapathyavibhodha, Varanasi;Chaukhambha Orientalia. p.598.

11. Sushruta, Sushruta Samhita, Dalhana and Gayadasa, In: Acharya YT Edi.
NibandhaSangraha and Nyayachandrika
Commentary, Reprint Ed. Varanasi:
Chaukhamba Publications; 2021. Sutrasthana
46/214 p.230.

Agnivesha. Charaka Samhita.
 Chakrapanidutta. In:Acharya YT Edi. Ayurveda
 Dipika Commentary, Reprint Ed. New Delhi:
 Chaukhamba Publications; 2020. Sutrasthana
 4/10. p. 32.

 Singh Bhavana. An introduction of the drugs of Hridya mahakashaya (Group of Cardio tonic drugs) and its mode of action. Dev Sanskriti:Interdisciplinary International Journal, March 10th 2022 Volume 16, Issue 2 Page 95







2019:(13);78-85.

https://www.researchgate.net/publication/339381 292

14. Agnivesha. Charaka Samhita.
Chakrapanidutta. In:Acharya YT Edi. Ayurveda
Dipika Commentary, Reprint Ed. New Delhi:
Chaukhamba Publications; 2020. Sutrasthana
25/40. p. 131.

Agnivesha. Charaka Samhita.
 Chakrapanidutta. In:Acharya YT Edi. Ayurveda
 Dipika Commentary, Reprint Ed. New Delhi:
 Chaukhamba Publications; 2020. Sutrasthana
 26/42(2). p. 143-44.

16. Dr. Yadav Kr. N. Dravyagunaadarsha,Prathama khanda, Varanasi: ChaukhambaOrientalia; 2012. p117.

17. Agnivesha. Charaka Samhita.
Chakrapanidutta. In:Acharya YT Edi. Ayurveda
Dipika Commentary, Reprint Ed. New Delhi:
Chaukhamba Publications; 2020. Sutrasthana
26/42(1). p. 143-44.