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ROLE OF RASAAUSHADHI IN THE MANAGEMENT OF HRIDROGA

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ABSTRACT

In Ayurveda, *Hridroga* covers broad Spectrum with all cardiovascular diseases. According to current studies, 17.5 million people die each year from cardiovascular diseases, with an estimated 31 per cent of death worldwide. Among them 7.4 million died due to coronary heart disease,6.7 million due to stroke, atherosclerosis etc., hence it is needed to discover effective drugs which can prevent death due to cardiovascular diseases and other cardiac disorders. Rasashastra & Bhaishajya Kalpana is a branch of Ayurveda that focus on the preparation of herbo-mineral or metal contains formulations. These mineral-metal containing formulations, called Rasaaushadhi, works at cellular level thus, curing life-threatening diseases. The aim of the review is to collect data on various Rasaaushadhi used for the treatment of *Hridroga*. The present review reveals that these *Rasasushadhi* regularize *Doshas* normal functions and help in preventing *Hridroga*.

KEYWORDS: Rasaaushadhi, Hridroga, Heart disease, Cardio-vascular disease

INTRODUCTION

Hridaya is one of the Marma in Tri-Marma and Marma also called as Jiva-sthana in our body hence disturbance of functions of Hridaya leads to life-threating diseases conditions. In present era all cardiovascular diseases comes under Hridroga. Cardiovascular diseases are the leading cause of global mortality and a major contributor to disability. Prevalent cases of total CVD nearly doubled from 271 million in 1990 to 523 million in 2019 and the number of CVD deaths steadily increased from 12.1 million in 2019, reaching 18.6 million in 2019^[1].

In the category of *Rasauashadhi* includes the herbo-mineral or metal contains formulations which is use for therapeutic purpose. These *Rasaasudhadhi* are classified as *Khalvi Rasa, Parpati Rasa, Kupipakwa Rasa/Sindura* and *Pottali Rasa. Rasaaushadhi* are effective in small doses, has no taste, fast acting and quick assimilation in small doses in the body^[2]. *Rasaaushadhi* works at cellular level and enters into the blood stream due to nano level particles of medicine hence *Rasaaushadhi* used in curable as well as incurable diseases. Ayurveda being the ancient science of life provides various herbo-minerals & metals contain formulations which can prevent and cure the cardiovascular diseases without any complications.

The review attempts on focusing of to discuss the therapeutic uses of various *Rasaaushadhi* and to discuss the different pharmacological properties and therapeutic uses of isolated component of each formulations.

MATERIAL & METHOD

A review has been made to collect and compile of the *Rasausadhies* with their ingredients, dose and *Anupana* (vehicle for drug administration) that are used in the treatment of *Hridroga* from various Ayurvedic classical texts.

Table no. 1 shows the formulation used for Hridroga

Sr. no.	Name of Formulation	Ingredien	t	Bhavana Dravya	Indication	Dose & Anupana
1	Hridyarnava Rasa ^{[3-}	Shu. Parada Shu. Gandhaka Tamra Bhasma	1 part 1 part 1 part	Triphala Kwatha & Kakmachi Swarasa	Kaphaja Hridroga	Chanamatra Vati
2	Nagarjunabhra Rasa ^[6-8]	Sahastraputi Vjrabhrak Bhasma	1 part	Arjunatwaka Kwatha-7 days	Hridroga & Sarvashoola	1 Ratti
3	Trinetra Rasa ^[9]	Shu. Parada Shu. Gandhaka Abhrak Bhasma	1 part 1 part 1 part	Arjunatwaka Kwatha- 21 times	Vattik-Pattika- Kaphaja-Krimija- Tridoshaja Hridroga	1 Masha
4	Panchanan Rasa [10-12]	Shu. Parada Shu. Gandhaka	1 part 1 part	Amalaki Swarasa, Draksha Kwatha, Yashtimadhu Kwatha, Kharjura Kwatha	Hridroga	1 Masha with Amalaki churna+ Sharkara
5	Prabhakar Vati ^[13]	Suvarna Makshika Bhasma Lauha Bhasma Abhraka Bhasma Vanshalochana Shu. Shilajita	1 part 1 part 1 part 1 part 1 part 1 part	Arjunatwaka Kwatha	Hridroga	2 Valla

		Shu. Parada	1 part	Chitraka Kwatha,	Hridroga,	1 Gunja
		Shu. Gandhaka	1 part	Bhringraja Swarasa,	Phupphusa Roga,	With- Godhuma
6	Chintamani Rasa ^[14]	Abhrak Bhasma	1 part	Arjuna Kwatha- 7 times	Prameha, Swasa,	Kwatha
		Lauha Bhasma	1 part	of each <i>Dravya</i>	Kasa, Bala-	
	Camanant Rasa* 2	Vanga Bhasma	1 part		Tushtikara	
		Shu. Shilajita	1 part			
		Suvarna Bhasma	½ part			
		Rajata Bhasma	½ part			
		Shu. Parada	1 part	Arjunatwaka Kwatha	Hridroga,	1 Ratti
		Shu. Gandhaka	1 part		Phupphusa Roga	
		Abhrak Bhasma	1 part			
7	Vishvesara Rasa ^[15]	Lauha Bhasma	1 part			
		Vanga Bhasma	1 part			
		Vaikranta Bhasma	1 part			
		Suvarna Bhasma	1 part			
		Shu. Parada	4 parts	Kakmachi Swarasa,	Hridroga,	2 Ratti
		Shu. Gandhaka	8 parts	Chitraka kwatha, Adraka	Phupphusa Roga,	With-Ushnodaka
		Lauha <mark>Bhas</mark> ma	3 parts	Swarsa, Jayanti	Jirnajwara,	
8	Shankara Vati ^[16]	Naga B <mark>hasma</mark>	2 parts	Swarasa, Vasa Swarasa,	Prameha, Kasa,	
				Bilva Kwatha, Arjuna	Swasa, Grahani,	
			7	Kwatha	Bala-pushti	
					vardhana	1.5
		Rasasin <mark>doora</mark>	1 part	Chitraka Kwatha &	Urastoya,	1 Ratti
		Abhrak <mark>Bhasm</mark> a	1 part	Hastisundhi Kwatha-7	Hridroga, Vaksha	With-Ushnodaka
9	Kalyanasund-ara	Rajata <mark>Bhasma</mark>	1 part	Bhavana	Vata,	
	<i>Rasa</i> ^[17]	Tamra <mark>Bhasma</mark>	1 part		Urakshatagata	
		Suvarna Bhasma	1 part		Raktastrava,	
		Shu. Hingula	1 part		Phupphusaroga	
	-	Shu. Parada/Rasa	1 part	Arjuna Kwatha,	Vattik-Pattika-	Kalayamatra
		<mark>sind</mark> oor <mark>a</mark>		Godhuma Kwatha, Yava	Kaphaja-Krimija-	With Arjuna
		<mark>Shu.</mark> Gandhaka	1 part	Kwatha- each 7 times	Tridoshaja	Kwatha/
		Abhrak Bhasma	1 part	K <mark>umari Sw</mark> arasa- 3	Hridroga,	Godhuma
10	Ratnakara Rasa ^[18]	Hiraka Bhasma	1 part	times	Yakshama	Kwatha/Yava
		<mark>Van</mark> ga <mark>Bhasma</mark>	1 part	/13		Kwatha/Kanji/Asa
		Vaikranta Bhasma	1 part			va/ Ghrita
		Suvarna Bhasma	1 part			
		Lauha Bhasma	7 parts			

Table no. 2 shows formulations' ingredients with *Hridya* property

Sr.	Name of Ingredient used for Bhasma				
No.	Rasadravya	Process	Properties	Anupana	Matra (Dose)
		Kashmarda Swarasa, Erandapatra	Hridya, Vrushya, Balya,	Trikatu, Ghrita	1 Valla
_	Abhrak Bhasma ^{[19-} ^{21]}	Swarasa, Triphala, Kakmachi,	Sarvarogahara, Jwarahara		
1		Kshiratraya, Kumari, Gomutra,			
		Guduchi			
	Suvarna Makshika	Nimbu Swarasa	Hridroga, Bastiroga,	Triphala, Trikatu,	½ to 2 Ratti
2	Bhasma ^[22-23]		Panduroga, Prameh,	Vidanga	
			Arsha, Sopha. Kandu		
3	Shilajita ^[24-25]	-	Hridshoola, Jwara, Pandu,	Godugdha, Takra,	1 Karsh to ½
			Medhasmrutikara, Balya,	Mamsarasa,	Pala
3				Mudgayush, Jala,	
				Gomutra	
		Lakucha Swarasa	Hridgadashoola, Prameha,	-	1/8 to ½ <i>Gunja</i>
4	Tuttha Bhasma ^[26-27]		Medohara, Krumi,		
4			Kushtha,switra, Amlapiita,		
			Arsha		
5	Suvarna Bhasma ^[28]	Nimbu S <mark>waras</mark> a	Hridya, Balya, Rasayana,	-	2 Gunja
			Buddhimedhasmriti kar		
6	Mukta Bhasma ^[29]	Gulab Ja <mark>la</mark>	Hridya, Mehhara, Medhya,	-	1/4 th to 1 <i>Gunja</i>
			Jwarahara		
		Nimbu S <mark>warasa</mark>	Hra <mark>diyam Param,</mark>	-	1/32 to 1/16
7	Hiraka Bhasma ^[30]		Yogavahi, Rasayana,		Ratti
, ,	Tuana biasina		Rajyakshama, Prameha,		
			Pandu		

Table no. 3 shows the *Hridya* formulation used for different types of *Hridroga*^[31]

Sr. no.	Type of <i>Hridroga</i>	Name of Formulation	
	Vataj Hridroga	Kal <mark>yansundar Rasa</mark>	
	vaiaj iiriaroga	Vish <mark>veshwar Rasa</mark>	
	Pittaja Hridroga	Chi <mark>ntamani Rasa</mark>	
2		Pan <mark>chananan Ras</mark> a	
Bask		Naga <mark>rjunaa</mark> bhra Rasa	
3	Kaphaja Hridroga	Prabhakar Vati	
3		Hridyarnava Rasa	
4	Tridoshaja Hridroga	Shankar Vati	
4		Trinetra Rasa	
	Krimij Hridroga	Hridyarnava Rasa	
5		Shankar Vati	
		Kalyansundar Rasa	

DISCUSSION

In Ayurved *Hridroga* refers to heart disease or cardiac disorders. Ayurvedic medicine offers various herbal remedies and treatment approaches to address *Hridroga* and promote heart health. These medicines aim to strengthen the heart, improve cardiovascular function and manage related symptoms. Rasashastra and Bhaishajya Kalpana is a specialized branch of Ayurved that deals with the preparation and use of herbomineral and metallic formulations. The Ayurvedic *Bhasma* preparations are unique metal nanoparticles. These metal nanoparticles are safe, stable in solid state and are having excellent biological activities.

After reviewing various Rasa texts, it is revealed that total 10 *Rasa* formulations are described for the treatment of *Hridroga* (Table 1). The specific *Hridya* formulation is used for particular type of *Hridroga* (Table 3). The repeatedly *Rasa Dravya* used in *Rasa* formulation are *Parada*, *Gandhaka*, *Abhraka* and *Tamra*. There are different *Anupana* used for *Hridroga* such as *Arjuna Kwatha*, *Ushnodaka*, *Godhuma Kwatha*, *Yava Kwatha*, *Amalaki Swarasa* etc. (Table 1). All these *Rasa Dravyas* have properties like *Hridya*, *Vrushya*, *Hridshoola hara*, *Balya* etc. (Table 2).

Bhavana Dravya used for the preparation of Hridya formulations are Arjunatwak Kwath, Triphala Kwatha, Kakmachi Swarasa etc. (Table 1). The incorporation of Bhavana Dravya for the preparation enhances the therapeutic efficacy and bioavailability of the drug due to its unique properties E.g. Arjuna has demonstrated effectiveness as an anti-ischemic and antiatherogenic agent^[32]. Thus use of Rasaaushadhi and their mechanism of action can pave the way for evidence-based integrative approaches to cardiovascular health, offering holistic benefits for individuals with heart-related concerns.

CONCLUSION

Ayurveda offers a variety of cardio-protective drugs and formulations that aim to promote heart health and protect against cardiovascular diseases. *Rasaaushadhi* works at the cellular level, addressing imbalances in the *Doshas* and promoting rejuvenation. Integrating Ayurvedic Knowledge with evidence-based medicine can lead to comprehensive and synergistic approaches to cardiovascular health, promoting a healthier heart and improved quality of life.

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