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A review on Yakuti: A unique formulation

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Abstract

Rasashastra and Bhaishajya Kalpana is the branch in ayurveda that deals with Ayurveda pharmaceutics. Formulations are prepared with drugs that are metals, minerals, gemstones, etc. in combination with other herbs or otherwise. These drugs are subjected to different processes like shodhana (purification), marana (incineration), etc. before using it for internal administration. Many formulations are mentioned in various texts of rasashastra where a combination of these bhasma, are mixed with other herbs and made into different dosage forms like pills, etc. Yakuti comes under the category of preparations termed as khalviya yoga that is indicated in ailments of the heart, fever, nerve weakness, etc. It is a formulation that has a combination of a sindura kalpa- makaradhwaja, pishti of ratnas, a few herbal drugs and bhavana is given with gulab arka.

Keywords: Rasashastra, Yakuti, pishti, heart disease

Introduction

The formulations in rasashastra are divided into four major classes namely; khalviya yogas, parpati yoga, kupipakwa yogas and pottali kalpanas. Khalviya yogas are those preparations where the ingredients mentioned are taken in bhasma form (calcified ash) in case of metal or mineral drugs and in case of herbal drugs, the fine powders are taken and mixed well in a khalwa yantra (mortar and pestle) and triturated with the specified liquid media till the test of perfectness of the formulation is attained. Then it is rolled into pills of desired size.

Materials & Method: A literary search was conducted from available literature of Ayurveda texts books pertaining to rasashastra and bhaishajya kalpana (Ayurveda pharmaceutics). Information was also collected from electronic media from open accessed journals

Yakuti is a formulation that is herbo- mineral in nature. The special feature of Yakuti is the ingredients that are a combination of pishti (gemstones triturated with liquids to make into fine powder form) namely manikya, tarkshya, mukta, pravala, trunakantamani pishti, bhasmasswarna bhama, rasasindura- a kupipakwa yoga, animal origin drugs namely abaresham and kasturi and few herbal drugs. All the drugs are triturated with gulab arka (distillate of Rose) and preserved until further use [1].

Method of preparation

First Chandrodaya is powdered well in a mortar and pestle; all the other ingredients with the varkh (thin foils) of swarna except kasturi and ambar are added and mixed well. To this Gulab Arka is added and trituration is done for 21 days. Kasturi and ambar should be added on the last of bhavana and triturated. Pills of 1 ratti size (125mg) are made, dried in shade and stored in air tight container.

The dose mentioned is 125mg with Pudina swarasa (juice of mint leaves) as anupana (adjuvant). It is indicated in Hrut dourbalya (weakness of the heart), sannipata jwara (fever), nadi ksheenata (nerve weakness), swedadikhya (excessive perspiration), hrud spandana (weakness of the heart)

It is also helpful in conditions of manasika nirbalata (weakness of mind), shukra kshaya with milk as adjuvant [18].

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Table 1: Ingredients in the formulation

Sl. No.	Name of the drug	Proportion	Indications
	8	•	Ojo kshaya (reduction of essence), Hrud roga (heart diseases), kshaya (deficiencies), shukra
1	Manikya pishti (Ruby) [2]	24g	kshaya (decrease in semen), agnimandya (loss of appetite), dourbalya (weakness),
			buddhimandya (impairment of memory)
2	Panna pishti (Emerald) [3]	24-	Sannipata jwara (fever), visha vikara (disorders because of poison), vamana (emesis),
2	Panna pisnti (Emeraid) (5)	24g	amlapitta (gastritis), pandu (anaemia), malavarodha, arsha (haemorrhoids), shotha (oedema)
3	Mukta pishti (Pearl) [4]	24~	Raktatisara, raktapitta (bleeding disorder), manodosha, unmada (insanity), Hrud roga (heart
3	Mukta pishti (Feari)	24g	diseases)
4	Pravala pishti (Coral) [5]	240	Ojo kshaya, Hrut dourbalya (weakness of heart), kasa (cough), pittaja roga (diseases of pitta
4	•	24g	vitiation), mano dourbalya (weakness of mind)
5	Kahruva pishti ^[6]	24g	Raktatisara, rakta pravahika, raktapitta (bleeding disorder), pitta vikara (diseases of pitta
3	(Trunakantamani pishti)	2 4 g	vitiation), rakta pradara (menorrhagia)
6	Chandrodaya [7]	24g	Jara- mrutyu-vali-palita nashaka (avoids death, greying of hair, wrinkles), vayahsthamba
U	Chandrodaya	24g	(maintains youthfulness), vrushya (aphrodisiac), anti-poisonous, useful in all diseases
7	Swarna bhasma (calcified	24g	Hrudya (heart tonic), netrya (beneficial to eyes), medhya (improves intellect), rasayana
,	gold ash) ^[8]	2 4 g	(rejuvinative), vishapaha (anti-poisonous), kanti vardhaka (increases complexion)
			Vatakapha nashaka (alleviates the vata and kapha dosha), rakta roga (diseases of the blood),
8	Ambara (Agnijara) ^[9]	24g	sannipata, shula (pain), vataroga (diseases of vata), dhanushtankara roga nashaka, veerya
			vardhaka (increases vigor), medorogahara (reduces obesity)
			Veeryajanaka (increases vigor), kaphavata (alleviates kapha and vata dosha), vishahara (anti-
9	Kasturi (Indian Musk) [10]	24g	poisonous), chardihara (anti-emetic), sheeta (cold), durgandhahara (reduces bad odour) and
			shoshahara. It acts as stimulant, anodyne, antispasmodic and aphrodisiac. It improves the
			circulation and raises arterial tension. It is stimulant of urino genital organ. Stimulant for
			respiratory center Appetizer, mood elevator, tonic for vital organs & sexual functions. Acts as
			carminative, anti-diarrhoeal, antiemetic, anti-inflammatory, expectorant drug
10	Abaresham (<i>Bombyx mori</i> cocoons) [11]	24g	Potent cardio- protective effect, is possibly due to its high protein content and very small
			quantities of non-sericin components of silk cocoons, especially the flavonoids, which have
	Coconsy		potential free radical scavenging and antioxidant activities
11	Kesara (<i>Mesua ferrea</i>) [12]	24g	Tikta (bitter), kashaya (astringent), amapachaka, kinchit ushna laghu (hot and light), ruksha
			(dry), kaphapaha (alleviates kapha). It is useful in reducing sweda durgandha (bad odour of
			body), visha (poisonous conditions), kushta (skin diseases), visarpa (erysipelas). Useful in
			vata (disorders of vata), kandu (itching), hrud vyatha (heart diseases), etc.
			C. behen has been used to treat weakness of brain, heart and liver, palpitation, hepatitis,
1.0	Behamana saphed	10	melancholia, sexual debility, neurasthenia, spermatorrhoea, fatigue and for diseases of the
12	(Centaurea behen root) [13]	12g	stomach and intestines. Roots act as nervine and anabolic tonic, strengthen central nervous
			system and used in affections of kidney. Roots of <i>C. behen</i> constitute the drug Safed behman
			or Bhamana-i-sufeed. These are credited with fattening and aphrodisiacal properties
			S. haematodes Wall. is mentioned to possess significant CNS depressant (anticonvulsant)
13	Behamana laal (Salvia haematodes root) [14]	12g	properties. Pharmacological screening revealed a broad variety of pharmacological effects.
			The ethanolic extract of red sage showed anti-inflammatory and analgesic effects,
			hypothermic response in non-pyretic rats and enhancement of the wound healing process. The
			ethanolic extract of <i>S. haematodes</i> had significant inotropic and chronotropic effects on
	Jatiphala (Myristica		isolated rabbit hearts. It also had a parasympathomimetic effect on isolated rabbit duodenum. Biter, astringent, useful in vitiated conditions of kapha and vata; inflammations, ulcer,
14	fragrans) [15]	12g	impotency, skin diseases, cardiac disorders, fever and general debility
	jrugruns).		Fruits are said to be acrid, bitter, anthehelmintic, carminative, aphrodisiac, alexeteric and
15	Shweta maricha (Piper	120	useful in kasa (cough), shwasa (dyspnoea), hrudroga (heart ailment), shula (pain), prameha
1.5	nigrum) ^[16]	12g	(diabetes), etc.
		Quantity	(diabetes), etc.
16	Gulab Arka (distillate of	sufficient for	The flowers are bitter, astringent, aromatic, aphrodisiac, intellect promoting, cardiotonic
10	Rosa centifolia) [17]	levigation	The 110 meta are officer, astringent, aromatic, apinodistac, interfect promoting, caldiotonic
$oxed{oxed}$		10,15000011	

Discussion

Tarkshya, Pravala pishti, Mukta pishti, Swarna bhasma, Abaresham, Gulab Arka are indicated in Ojo kshaya, Hrud roga, shukra kshaya. Researches carried out on these also throw light on the usefulness of these in cardiac diseases.

The hydro-alcoholic extract of *Salvia haematodes* has proved to have protective effect on cognitive function against scopolamine-induced memory impairments by elevating acetylcholine level in the brain. Protective effect of hydro-alcoholic extract of *Salvia haematodes* Wall root on cognitive functions in scopolamine-induced amnesia in rats has been studied. [19] The aqueous extract of the root of *Salvia haematodes* has been investigated for its pharmacological actions on the cardiovascular and central nervous system. It was found to possess significant cardiotonic and

anticonvulsant activities. It was not found toxic up to the dose of 5 g/kg given orally in order to evaluate its acute toxicity. [20]

A study puts light on the use of *Centaurea behen* in anxiety. The petroleum ether, chloroform, ethanol and water extractives prepared of *Centaurea behen* and evaluated for antianxiety activity in mice using elevated plus maize model. The results were compared with standard drug, diazepam. The results indicated that the plant could be considered as a potential candidate for bioactivity guided isolation of natural antianxiety agents [21].

A study has indicated that the prior administration of Jatiphala Churna (*Myristica fragrans* Houtt.) attenuates Isoproterenol induced MI (myocardial infarction). Pre-treated group with Jatiphala churna showed significant effect in case of Serum

glutamic oxaloacetic transaminase (SGOT), creatine kinase-muscle/brain (CPK-MB), cholesterol and Heart & Body weight ratio, when compared with the ISO treated group. Non-significant effect was observed in case of low-density lipoproteins (LDL), high-density lipoproteins (HDL), Triglycerides and serum glutamic-pyruvic transaminase (SGPT). The cardio-protective activity of *Myristica fragrans* is said to be probably related to its anti-inflammatory, antioxidant, anti-hyperlipidemic activity, Hepatoprotective activity and also its ability to strengthen the myocardial membrane by its membrane stabilizing action [22].

The adjuvant Pudina (*Mentha arvensis*) is also antiseptic, carminative, cardiotonic, diuretic, etc. and useful in vitiated conditions of vata dosha, halitosis, cardiac debility, fever, general weakness, etc.

Conclusion

Yakuti is a formulation that is a combination of calcified ash, pishti of gems, animal products namely kasturi and abaresham, etc. A review of the ingredients has put light that manikya pishti (ruby), pravala pishti (coral), mukta pishti (pearl), swarna bhasma (gold), abaresham (Bombyx mori cocoons), kesara (Mesua ferrea), behaman saphed (Centaurea behen root), jatiphala (Myristica fragrans), shweta maricha (Piper nigrum) and gulab arka (Rosa centifolia) are useful in cardiac ailment. Mukta (pearl) and pravala (coral) are useful in maodaourbalya (weakness of mind). The attributes of the drug aid in giving the desired results in disorders like weakness of the heart, fever, nerve weakness, excessive perspiration, etc.

Research works carried out on this formulation may give more understanding and add knowledge for evidence based practice.

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