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SANDHANIYA MAHAKASHAYA: AN OVERVIEW ON PHARMACOLOGICAL STUDY

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ABSTRACT

The old, conventional medical system known as Ayurveda, which is founded on folklore and ethnopharmacology, has a wealth of knowledge. One of the well-known treatises of ancient conventional medicine, the *Charaka Samhita*, has a long history of knowledge. In the fourth chapter, "*Shad Virechana Shatashriteeya*" of *Sutra Sthana* in the *Charaka Samhita*, Acharya describes 50 *Mahakashaya or Dashemani*. One such organisation is the *Sandhaniya Mahakashaya*, often known as Unifying medicine. The word "*sandhaniya*" literally means "to bind." The term "*sandhan*" refers to the connection of two or more objects in a way that avoids the appearance of preparation. Actually, this is what meditation is all about. The word "amalgamation" also means "mixing." A person must also be able to identify the medication, the way it is used, its beneficial components, etc.

Keywords: Sandhaniya, Mahakashaya, Ayurveda, Dashemani.

INTRODUCTION

It is simply stated in Ayurveda, a study of awarenessbased health and healing, that in order for individuals to feel well and healthy. In particular, Charaka Samhita and Sushruta Samhita, with their respective chapters C.Su.4 and S.Su.38, provide a group-based taxonomy of Dravya. Medicinal plants play a very important role in the health sector. Around 80% of people worldwide rely on traditional medicine, which is largely composed of plant-based ingredients. Local wellbeing practices in India's rural and tribal villages primarily utilize 7,500 plants. Over 4,000 of them have true therapeutic advantages, yet the general public is either unaware of them or only vaguely aware of them. Around 1,200 plants are used in traditional medical systems like Ayurveda, Siddha, Unani, and Tibetan. About 50 Mahakashaya or Dashemani have been described by Acharya in fourth chapter, "Shad Virechana Shatashriteeya" of Sutra Sthana in the Charaka Samhita. Each of these collections has ten plants that have a single pharmacological effect. The Sandhaniya Mahakashaya, often known as Unifying medicine, is one such group. It consists of the following plants: Madhuyashthi [Glycyrrhiza glabra Linn.],

Guduchi [Tinospora cordifolia Miers.], *Prishniparni* [Uraria picta Desv.], *Patha* [Cissampelos pareria Linn.], *Lajjalu* [Mimosa pudica Linn.], *Mocharasa* [Bombax ceiba Burm.f.], *Dhataki* [Woodfordia Fruticosa], *Lodhra* [Symplocos Racemosa], *Priyangu* [Callicarpa Macrophylla], *Katphala* [Myrica Esculenta].

***** MATERIAL/METHODS:

The 10 Drugs of *Sandhaniya Mahakashaya's Rasa, Guna, Vipaka, Virya*, and *Karma* were taken from Charaka Samhitha, Sushrutha Samhitha, Astanga Hrudaya, Nighantus, and several additional Dravyaguna Vigyana textbooks. Images, photographs taken from Google and Journal.

DISCUSSION

Table No -1- Information of Drugs in Sandhaniya Mahakashaya.

S. N. Name		Eng. Name	Botanical Name	Family	
1.	Madhuka	Liquorice	Glycyrrhiza Glabra	Fabaceae	
2.	Guduchi	Giloe	Tinospora Cordifolia	Menispermaceae	
3.	Prishnaparni	Prsniparni	Uraria Picta	Fabaceae	
4.	Patha	Velvetleaf	Cissampelos Pareira	Menispermaceae	
5.	Samanga	Touch Me Not	Mimosa Pudica	Mimosaceae	
6.	Dhataki	Fire Flame Bush	Woodfordia Fruticosa	Lytheraceae	
7.	Lodhra	Lodhtree	Symplocos Racemosa	Symplocaceae	
8.	Mochrasa	Silk-Cotton Tree	Salmalia Malabarica	Bombacaceae	
9.	Priyangu	Perfumed Cherry	Callicarpa Macrophylla	Verbenaceae	
10.	Katphala	Box Myrtle	Myrica Esculenta	Myricaceae	

Table No-2- Description of Drugs in Sandhaniya Mahakashaya with their important Pharmacological action.

S.N.	Name	Rasa	Guna	Virya	Vipaka	Karma
1.	Madhuka					Balya, Varnya,
						Vranahara,
		Madhura	Guru,	Sheeta	Madhura	Sothahara, Vishaghna,
			Snigdha			Rakthapittahara
2.	Guduchi					Balya, Krimihara,
						Dahahara,
		Tikta	Guru,	Ushna	Madhur	Vishaghni,
		Kashaya	Laghu			Deepana, Amahara

3.	Prishnaparni					Tridosasamaka,
						Vranahara, Dahasamaka,
		Madhura, Katu	Laghu Sara	Ushna	Madhura	Jwaraghna
4.	Ambastaki					Vatakaphahara
	(Patha)					Vranahara
		Tikta	Laghu	Ushna	Katu	Dahasamaka
			tikshna			Krimighna
						Bhagna
						Sandhanakara
5.	Samanga	Tikta, Kashaya	Laghu,	Sheeta	Madhura	Pittakaphahara,
			Ruksha			Vranahara,
						Sandhaniya,
						Sothahara,
						Raktapittaghna,
						Raktastambhaka
6.	Dhataki	Kashaya, Katu	Laghu,			Pittakaphahara,
			Ruksha			Vranahara,
				Sheeta	Katu	Sandhaniya,
						Krimighna, Vishaghna
7.	Lodhra					Pittakaphahara,
		Kashaya,	Guru,			Sita grahi,
		Madhura, Tikta	Ruksha	Sheeta	Katu	Vishagna, Sothahara,
						Jwarahara
8.	Mochrasa					Pittavatahara,
		77. 1	T a silver	GI .	3.6.11	Raktapradara,
		Kashaya	Laghu,	Sheeta	Madhura	Daha, Raktapitta, Vranahara,
			Snigdha			· '
						Agnidagdha
9.	Priyangu					Vatapittahara,
		Tikta,	Guru,			Dahahara,
		Kashaya,	Ruksha	Sheeta	Katu	Jwarahara, Vishaghna,
		Madhura				Stambhaka
10.	Katphala					Vatakapha hara,
		Kashaya,	Laghu	Ushna	Katu	Jwaraghna,
		Tikta,	Ruksha			Amahara,
		Katu				Dipana

Chemical constituents & Therapeutic uses:

1. YASTIMADHU

Chemical constituents:

Triterpene, saponin, flavonoids, polysaccharides, pectins, simple sugars, amino acids, mineral salts, asparagine's, bitters, essential oil, fat, female hormone estrogen, gums, mucilage (rhizome), protein, resins, starches, sterols, volatile oils, tannins, glycosides, and various other substances Glycyrrhizin, a triterpenoid compound glycyrrhizin, glycyrrhetic acid, isoliquiritin, isoflavones, etc.

> Therapeutic uses:

Expectorant, binding, healing, rejuvinative, cholegogue, complexion enhancer etc. Antitussive and Expectorant, Anticoagulant and Memory Enhancing Activity, Antioxidant and Anti-inflammatory, Anticarcinogenic and Antimutagenic Activity, Hepatoprotective Activity, Antidiabetic, Immuno-modulator Activity.



2. GUDUCHI

Chemical constituents:

Diterpenoid lactones, glycosides, steroids, sesquiterpenoid, phenolics, aliphatic compounds, essential oils, a mixture of fatty acids, and polysaccharides etc.

> Therapeutic uses:

Anti-inflammatory, anti-pyretic, immune modulator, analgesic, anti-pyretic, rejuvinative, wound healing, antimicrobial activity, Antioxidant activity, Anti-toxic effects, Antidiabetic activity, Antistress activity, Hypolipidemic effect, Hepatic disorder Protective Effects, Anticancer activity, Anti-HIV potential, Anti-osteoporotic effects, Parkinson's disease.



3. PRASHNAPARNI

Chemical constituents:

Alkaloids, flavonoids, steroids, terpenoids, pterocarpans, saponins, phenols, tannins, carbohydrates, proteins, cardiac glycosides etc.

Therapeutic uses:

Anti-inflammatory, Hepatoprotective effects, Anti-acaricidal, Antimicrobial, Antinociceptive, Antioxidant, Fracture healing, anti-Cancer, Antidiabetic, Anxiolytic.



4. <u>PATHA</u>

Chemical constituents:

Alkaloids, especially bisbenzylisoquinoline alkaloids. The rhizomes contain hayatine, hayatidine, d-4"o-methylbebeerine, L-bebeerine, isochondrodendrine, dicentrine, dehydrodicentrine, insularine.

➤ Therapeutic uses:

Anti-fertility activity, Anthelmintic activity, Antinociceptive and Antiarthritic activity, Antiulcer activity, Antioxidant activity, Anti-hemorrhagic effects, Hepatoprotective activity, Antiinflammatory activity, Curariform activity, Antileukemic activity, Anti-protozoal effect, Antidiarrhoeal activity, Memory enhancing, Antihyperglycemic, Cardioprotective, Antiplasmodial, Anti-tumour, Immunomodulatory, Antidengue.



5. SAMANGA

Chemical constituents:

Chalcones, alkaloids, flavonoids, indoles, terpenes, terpenoids, saponins, steroids, amino acids, glycosides, flavanols, phenols, lignoids, polysaccharides, lignins, salts and fatty ester.

> Therapeutic uses:

Antioxidant, Antimalarial, Wound healing, Antimicrobial, Anti-hepatotoxic, Analgesic and anti-inflammatory, Anticonvulsant, Antidiarrhoeal, Antihelminthes, Antifertility, Antihyperglycemic, Antivenom, Antiulcer.



6. DHATAKI

Chemical constituents:

Tannins (especially those of macrocyclic hydrolysable class), flavonoids, anthraquinone glycosides, and polyphenols.

Therapeutic uses:

Antioxidant, Antimicrobial, Hepatoprotective, Analgesic and anti-inflammatory, Antihelminthes, Antifertility, Antihyperglycemic, Antiulcer, Cardioprotective, Antihyperlipidemic, Anti-tumor, Immunomodulatory.



7. LODHRA

Chemical constituents:

Bark contains flavanol glucosides like symplocoside, symposide, leucopelargonidin 3glucoside, ellagic acid, flavonol glycoside, triterpenoids glucopyranosides, betulin, Oleanolic acid, β -sitosterol and α -amyrin.

Therapeutic uses:

Anti-acne, Analgesic and anti-inflammatory, Antioxidant, Anthelmintic, Anti-angiogenic, Antibacterial, Anticancer, Alzheimer's disease, Hepatoprotective, Female reproductive disorders, Lipoxygenase and urease inhibitory activity.



8. MOCHRAS

Chemical constituents:

Glycosides, alkaloids, phenolics, carbohydrates, tannins, phytosterols, fixed oils, proteins, amino acids, flavonoids, saponins, gums, & mucilage.

> Therapeutic uses:

Hypotensive, Antioxidant, Antimicrobial, Hepatoprotective, Analgesic and antiinflammatory, hypoglycaemic, Antiangiogenic, Cytotoxicity, Cancer Cell Growth Inhibition, Anti-obesity, Anti-acne Effect, Antipyretic, Cardioprotective, Aphrodisiac.



09. PRIYANGU

Chemical Constituents:

Calliterpenone and its acetate acid, 2a-hydroxyursolic acid, ursolic acid, B-Sitosterol, B-Dglucoside, apigenin, luteolin, Propronic acid, C22-C24 fatty acids, ethyl ester of C23 fatty acid. A new diterpenoid-Isopropylidenocalliterpenone is isolated from essential oil of leaves along with calliterpenone.

Therapeutic uses:

Amoebic dysentery, hyperhidrosis, Anti-inflammatory, Hepatoprotective, Antifungal, Antiarthritic, Anti-bacterial, Analgesic, Antidiabetic, Cytotoxic.



10. KATPHALA

Chemical constituents:

Leaves of the plant also contain flavone-4'-hydroxy-3',5,5'-trimethoxy-7-O- β -I-Dglucopyranosy) (1 \rightarrow 4)- α -L-rhamnopyranoside; flavone-3',4'-dihydroxy-6-methoxy-7-O- α -Lrhamnopyranoside; β -sitosterol; β -sitosterol- β -D-glucopyranoside and quercetin.

> Therapeutic uses:

Analgesic, Antiasthmatic, Anticancer, Antidepressant, Antidiabetic, Antihelmintic, Antihypertensive, Antiinflammatory, Antimicrobial, Antioxidant, Antipyretic, Antiulcer, Anxiolytic, Chemopreventive, Hepatoprotective, Wound healing.



CONCLUSION

One of the amazing notions provided by Acharya Charaka in Sutra sthana 4th chapter is the Mahakashayas. Among them, the medications of the Union Promoting Mahakashaya are being examined to better understand their ability to promote Sandhaniya karma (improves cell migration and binding). All of the medications listed under Sandhaniya Mahakashaya contain either Katu (pungent), Tikta (bitter), Kashaya, or Madhura Rasa, which are extremely important in the treatment of wounds. At the same time, the Sandhaniya Mahakashaya drugs are Amapachaka, Krimihara, Vranahara (wound healer), and Vishahara (anti-toxic), demonstrating their ability to manage wounds properly. Certain phytochemicals, which are bioactive components of plants, are playing an important role in speeding wound healing. Sandhaniya Mahakashaya are medications with a similar pharmacological activity.

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