Review Article

Website: www.ijhsr.org
ISSN: 2249-9571

Drug Review on Siddha Drug - Thirikadugadhi Mandooram

Shakthi Priya M¹, Essakky Pandian G²

¹PG Scholar, Department of Gunapadam, ²Reader, Department of Gunapadam, Government Siddha Medical College, Palayamkottai, Tirunelveli, Tamil Nadu, India.

Corresponding Author: Shakthi Priya M

ABSTRACT

Siddha system is an oldest system of traditional medicine originating in ancient Tamilnadu in South India. In Siddha system, medicine includes the herbal products, inorganic substances and animal products that lead to different formulations ranging from low shelf life drug to high shelf life drug. *Thirikadugadhi Mandooram* is a poly herbo-mineral formulation used to treat Anaemia, Jaundice, Anasarca, Fever, Tuberculosis. This review describes the phytochemicals, pharmacological action and medicinal uses of the part of each ingredient used in this formulation. Ingredients of the formulation and their pharmacological action in various research studies are discussed in this review. The details were collected from different Siddha texts and electronic databases. In conclusion the results of the review revealed that the pharmacological action and the medicinal uses of drug were perfectly matched with each ingredients of formulation.

Keywords: Siddha system, Thirikadugadhi Mandooram, review

INTRODUCTION

Siddha medicine is an oldest system of traditional medicine originating in ancient Tamilnadu in south India. Palm leaf manuscripts say that the Siddha system was 1st described by Lord Shiva to his wife Parvati. The concept of siddha medicine is based on 96 thathuvas. According to the siddha medicine system, diet and lifestyle plays a major role in health and in curing disease. This system believes that all objects in the universe including human body are composed of basic elements namely earth, water, fire, air and space.

In siddha medicine, there are 32 internal and 32 external medicinal preparations are available for the treatment. Mathirai (pills) is the one form of internal medicine in which powdered raw drugs are triturated with the juice of leaves or decoction, ghee or honey or types of milk. They are rolled into different size of pills dried and stored.

The drug review of Thirikadugadhi Mandooram poly herbo-mineral is a formulation gives evidence for therapeutic actions mentioned in literatures. It has 15 ingredients among all only 2 metal drugs and other all from plant origin and detoxification process of all ingredients should be done before the preparation of final medicine. This review describes the phytochemicals, pharmacological action and medicinal uses of the part of each ingredient used in this formulation.

MATERIALS AND METHODS

Research design: Drug review on literature

Research type: Literature review **Research period:** 3 months

Literature collected from:

Thiyagarajan.K, GunapadamThadhu-Jeeva vaguppu (part – 2&3) published by Department of Indian medicine & Homeopathy, Chennai -106, pg no:200.

INGREDIENTS OF DRUG:

Chukku (Zingiber officinale.Linn.) Milagu (Piper nigrum.Linn.) Thippili (Piper longum.Linn.) Kadukkai (Terminalia chebula.Linn.) *Nellivattral (Phyllanthus emblica.Linn.)* Thandrikai (Terminalia bellerica.Linn.) Elam (Elettaria cardamomum.Linn.) Saadhikai (Myristica fragrans.Linn.) *Krambu* (*Syzygium aromaticum*.*Linn*.) *Kattaathipoo (Bauhinia tomentosa.Linn.)* Thippilimoolam (Piper longum.Linn.) *Koraikizhangu (Cyperus rotundus.Linn.)* Sadamanjil(Nardostachysgrandiflora.Linn.) *Karkadagasingi (Rhus succedanea.Linn.)* Mandooram (Ferroso ferric oxide) Ayapodi (Ferrum) Karisaalai juice - (Eclipta prostrate.Linn.) -Q.S

PREPARATION:

Equal quantities of the above ingredients are mixed together and the Mandooram powder is then added equal to the weight of all the chooranams. Half part of the Aya powder is then added and the ingredients are triturated with the juice of trailing eclipta (*Eclipta prostrata*). Pills are made into the size of a jujube (*Zizyphus jujube*) seed.

DOSAGE:

Jujube sized seed

ADJUVANT:

Sugar or honey

INDICATIONS:

Paandu (Anaemia) Sobai(Anasarca) Kamaalai (Jaundice) Suram (Fever) Kshayam (Tuberculosis)

RESULT

Table 1: Scientific & selected vernacular names, families of the medicinal ingredients

Botanical name	Tamil name	English name	Sanskrit Name	Family
Zingiber officinalis	Chukku	Dried ginger	Nagaram	Zingiberaceae
Piper nigrum	Milagu	Pepper	Maricha	Piperaceae
Piper longum	Thippili	Long pepper	Pippali	Piperaceae
Terminalia chebula	Kadukkai	Chebulic myrobalan	Pathya	Combretaceae
Phyllanthus emblica	Nellivattral	Indian gooseberry	Amalaki	Euphorbiaceae
Terminalia bellerica	Thandrikai	Belleric myrobalan	Vebeethaki	Combretaceae
Elettaria cardamomum	Elam	Cardamom seeds	Ela	Zingiberaceae
Myristica fragrans	Saadhikai	Nut meg	Jatphalam	Myrtaceae
Syzygium aromaticum	Krambu	Clove	Lavangam	Myrtaceae
Bauhinia tomentosa	Kattathipoo	Holy mountain ebony	Phalgu	Fabaceae
Piper longum	Thippilimoolam	Long pepper root	Pipaleemoola	Piperaceae
Cyperus rotundus	Koraikizhangu	Nut grass	Mutha	Cyperaceae
Narsostachys grandiflora	Sadamanjil	Valerina root	Jatmamsi	Valerianaceae
Rhus succedanea	Karkadagasingi	The galls	Karkatashring	Anacardiaceae
Eclipta prostrata	Karisaalai	Trailling eclipta	Bhringaraj, Kesaranja	Asteraceae

Table 2: Morphology, parts used & organoleptic charecters of the herbal ingredients

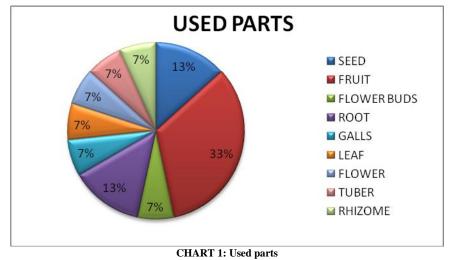
Botanical name	Morphology	Parts used	Taste	Potency	Bio availability
Zingiber officinalis	Herb	Tuber	Pungent	Hot	Pungent
Piper nigrum	Climber	Seed	Bitter, pungent	Hot	Pungent
Piper longum	Climber	Fruit	Sweet	Hot	Sweet
Terminalia chebula	Tree	Fruit	Astringent, little sweet, sour, pungent, bitter	Hot	Sweet
Phyllanthus emblica	Tree	Fruit	Sour, astringent, sweet.	Cool	Sweet
Terminalia bellerica	Tree	Fruit	Astringent	Hot	Sweet
Elettaria cardamomum	Herb	Seed	Pungent	Hot	Pungent
Myristica fragrans	Tree	Fruit	Pungent, astringent	Hot	Pungent
Syzygium aromaticum	Tree	Flower buds	Pungent	Hot	Pungent
Bauhinia tomentosa	Tree	Flower	Bitter, astringent	Hot	Pungent
Piper longum	Climber	Dried root	Pungent	Hot	Pungent
Cyperus rotundus	Herb	Tuber	Slightly bitter, sweet	Cool	Pungent
Nardostachys grandiflora	Herb	Root	Fresh piece- sweet, Dry piece- pungent	Hot	Pungent
Rhus succedanea	Tree	Galls	Astringent	Hot	Pungent
Eclipta prostrata	Herb	Whole plant	Bitter	Hot	Pungent

Table 3: Information about metal & mineral drugs of ThirikadugadhiMandooram

Tamil name	English name	Chemical name	Taste	Potency	Biotrans formations
Mandooram	Iron rust, impure oxide of	Ferroso ferric	Astringent	Hot	Pungent
	Iron, Magnitite	oxide			
Ayam	Iron	Ferrum	Astringent, mild sour, bitter	Hot	Pungent

Table 4: Information about ingredients of Thirikadugadhi Mandooram

Table 4: Information about ingredients of Thirikadugadhi Mandooram						
Ingredients	Actions	Phyto chemistry	Medicinal uses in siddha			
Zingiber	Stomachic, carminative, stimulant	Gingerdione, shogaols,	Indigestion, asthma, cough, anal diseases,			
officinalis		gingerols, zingiberin	diarrhoea, anaemia, ulcer			
Piper nigrum	Acrid, carminative, anti- vadha,	Piperine, chavicine,piperidine,	Anaemia, diarrhoea, ulcer, cough, hemiplegia,			
	resolvent, rubefacient	limonene, pipercide, pipericide	piles, indigestion, jaundice			
Piper longum	Stimulant, carminative	Piperine, pipernonaline,	Cough, asthma, tuberculosis, anaemia, head			
		piplasterol, sesamine	ache, kabha diseases, ulcer			
Terminalia	Laxative, tonic, stomachic,	Chebulinic acid, chebulagic	Eye diseases, cough, dysgeusia, liver diseases,			
chebula	purgative, alterative	acid, chebulic acid, gallic acid,	vomit, ascites, fistula, TB, anaemia, ulcer,			
		fatty acid, tannin	leprosy, jaundice			
Phyllanthus	Astringent, refrigerant, laxative,	Ascorbic acid, gallic acid,	Kabha diseases, sinusitis, gonorrhoea, vomit,			
emblica	diuretic	ellagic acid, tannins	psychiatric disorders			
Terminalia	Astringent, expectorant, laxative,	Gallic acid, ellagic acid, ethyl	Asthma, hypertension, gonorrhoea, pox			
bellerica	tonic	gallate, chebullagic acid, belleric	diseases, tooth ache, cough, spider poison			
		acid, bellaricanin				
Elettaria	Stimulant, carminative, stomachic	Limonene, linalool, cineole,	Throat infection, cough, diarrhoea, spider			
cardamomum		campesterol, methylacetate,	poison, stomach pain, sinusitis			
16 1 1	0.1 1	geranyl acetate	D' l l l l l l l l l l l l l l l l l l l			
Myristica	Stimulant, carminative, narcotic,	Myricetin, elemicin, essential	Diarrhoea, headache, asthma, cough, stomach			
fragrans	aromatic, aphrodisiac, tonic	oils and fixed oil, methyleugenol	pain, tooth ache			
Syzygium aromaticum	Antispasmodic, carminative, stomachic	Caryophyllene oxide, eugenol, acetophenone, eugenol acetate,	Throat infection, headache, vomit, diarrhoea, ear diseases, cataract			
аготансит	stomacnic	methyl palmitate	ear diseases, cataract			
Bauhinia	Anti- periodic, tonic	Flavone, flavono glycoside,	Diarrhoea, cough, gonorrhoea, hypertension,			
tomentosa	Anti- periodic, tonic	flavonoids, triterpene, saponin	Sexually transmitted diseases			
Piper longum	Stomachic	Piperine, piplastine, sesamin,	Cough, STD, fever,diarrhoea, sore throat,			
1 iper iongum	Stomachic	piperlatine, futoamide	vadha diseases, cardic arrest			
Cyperus	Demulcent, vermifuge, astringent,	Steroids, Phytosteroids,	Diarrhoea, fever, hypertension, vomit, scorpion			
rotundus	stimulant, tonic, diuretic,	quinones, coumarine, cardiac	bite, TB, cough			
	diaphoretic, emmenagogue	glycosides	1 111, 1 = , 111, 11			
Nardostachys	Stimulant,anti- spasmodic, diuretic,	Jatamansin, angelicin, elemol,	Spider poison, fever, diarrhoea, hypertension,			
grandiflora	expectorant	nardol, virolin, jatamansone	cough, asthma, eclampsia			
Rhus	Astringent, tonic nutritive,	Tannin, palmitic acid, stearic	Diarrhoea, cough, leucoderma			
succedanea	digestive, expectorant, stimulant,	acid, arachidic acid				
	cholagogue					
Eclipta	Cholagogue, tonic, alterative,	Ecliphine, nicotine, tigmasterol,	Anaemia, jaundice, leprosy, oedema, tooth			
prostrata	emetic, purgative, hepato-tonic,	alkaloids, pentodecanic acid,	disease, cough, liver and spleen disorders,			
	deobstruent	14 - heptacosanal	filariasis			
Ferroso	Stomachic, tonic, alterative	-	Fever associated with bone disorders, severe			
ferric oxide			anasarca& paleness, wheezing, dropsy due to			
			abdomen enlargement, pallor, asthma,			
			gonorrhea, deranged kapha			
Ferrum	Tonic, haemopoietic, appetite,	-	Anaemia, jaundice, leucoderma, obesity,			
	stimulant		dropsy, anorexia, peptic ulcer, spermatorrhea,			
			diarrhoea and dyspepsia.			



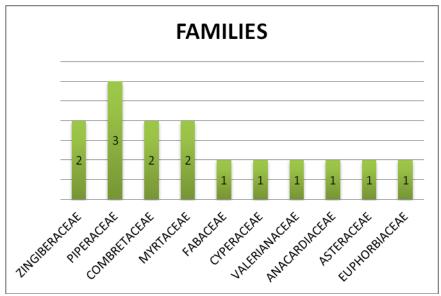


CHART 2: Families

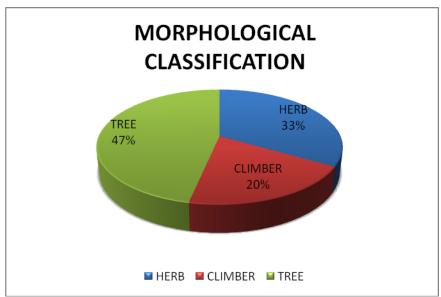


CHART 3: Morphological classification

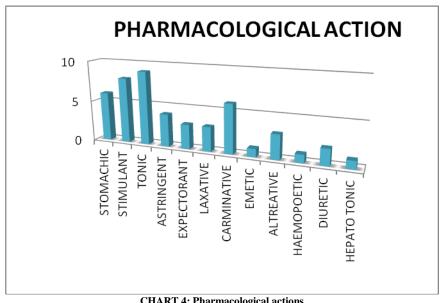


CHART 4: Pharmacological actions

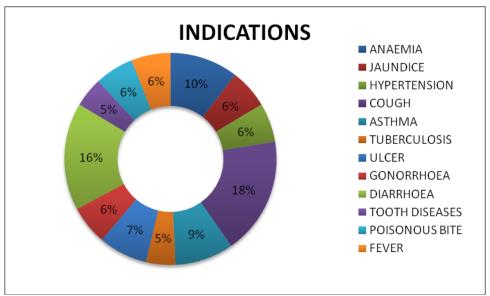


CHART 5: Indications

DISCUSSION AND CONCLUSION

According to the review of literature of *Thirikadugadhi Mandooram*, the following topics were analysed such as parts used, family, morphology, pharmacological actions and indications of each ingredients.

In parts used - fruits were used in 33%, seeds & roots were used in each 13%, flower buds, flower, rhizome, tuber, leaf, galls were used in each 7%. In family, 3 ingredients coming under the Piperaceae family, Zingiberaceae (2), Combretaceae Myrtaceae (2),Fabaceae (2),Cyperaceae (1),Anacardiaceae (1),Asteraceae (1), Euphorbiaceae (1) were used. In the whole ingredients 47% were tree, 33% of herbs, 20% of climbers. When consider the pharmacological actions - tonic (9),stimulant (8),stomachic carminative (6), astringent (4), expectorant (3), laxative (3), alterative (3), diuretic (2), haemopoietic (1), hepato tonic (1), emetic (1). Finally based on the indications, the following results were find out from the text & researches- cough 18%, diarrhoea 17%, anaemia 11%, asthma 9%, ulcer 8%, jaundice 6%, hypertension 6%, poisonous bite 6%, fever 6%, gonorrhea 6%, tooth diseases 5%, tuberculosis 4%.

In conclusion.

Based on the review, the pharmacological actions, organoleptic characters and chemical constituents of each

ingredients were perfectly matched with the indications of '*Thirikadugadhi Mandooram*' which mentioned in siddha text.

Acknowledgement: None

Conflict of Interest: None

Source of Funding: None

REFERENCES

- Thiyagarajan.R, 2008, Siddha Materia Medica (Mineral & Animal section) in Tamil, 1st edition, Department of Indian Medicine & Homeopathy, Chennai-106.
- 2. Thiru K.S.Murugesa Mudhaliyar, 2013, Gunapadam Mooligai vaguppu (part 1), Department of Indian Medicine & Homeopathy, Chennai-106.
- 3. Anonymous, 2007, WHO country cooperation strategy 2006-2011 supplement on traditional medicine. New Delhi.
- Sambasivampillai .T.V., 2016, Siddha Medical Dictionary (Tamil-English), 4th print, Department of Indian Medicine & Homeopathy, Chennai-106
- 5. Vaidhyaratnam P S, 1989, Variers's, Indian Medicinal Plants a compendium of 500 species vol-5, Arya vaidhya sala, Kottakal
- Somasundaram.S, 2015, Taxonomy Of Angiosperms (Medicinal plants part-2), 6th edition, Ilangovan publishers, Tirunelveli-627002
- 7. Anonymous, 2011, The Siddha Pharmacoepia of India, part 1, vol-1&2,

- Depart of Indian Medicine & Homeopathy, New Delhi,.
- 8. Anaivaari Ananthanan, 2008, Sarakku Suddhi Sei Muraigal, 1st edition, Department of Indian Medicine & Homeopathy, Chennai
- 9. Ambai Arunachalam, Mooligaiiyal, Gandhimathi Printers, Tirunelveli-627 003.
- 10. Kumarasamy.R, 1978, Medical Taxonomy (part 1&2), Indian Medical College, Palyamkottai
- 11. Kandaswamy pillai.N, 2012, History of Siddha Medicine, 3rd edition, Department of Indian Medicine & Homeopathy, Chennai.

- 12. Gupta A.K., 1988, Wealth of India, vol-4, Publications & Information Directorate, New Delhi.
- 13. Pulliah.T, 2002, Medicinal plants in India vol-1, Regency publications, New Delhi.

How to cite this article: Shakthi Priya M, Essakky Pandian G. Drug review on siddha drug – thirikadugadhi mandooram. *Int J Health Sci Res.* 2021; 11(5): 140-145. DOI: https://doi.org/10.52403/ijhsr.20210521
