

Research Article - Traditional Practice

Identification of Medicinal Plants in Homam: a religious practice

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Abstract

In India, Homam is an important religious practice. The consecrated fire is the central element of the ritual homa. It is offered in many hindu temples in early morning before dawn. Apart from the temples, many hindus offer this practice during their home ceremonies also. The most beneficial factor of these homas, is that smoke not only purifies the atmosphere but also helps us to get rid of many diseases. In this paper, the local and scientific name, plant parts used in the Homam were identified and presented. Different plant parts like leaf, aerial root, fruit, seed, bark, root, flower, wood, tuber, rhizome and pericarp of fruits have been used in the practice. Some highly useful medicinal plants listed are Justicia adhatoda, Withania somnifera, Phyllanthus emblica, Tinospora cordifolia, Andrographis paniculata, Strychnos nux-vomica, Pongamia pinnata, Ficus benghalensis, Chrysopogon zizanioides and Curcuma aromatica.

Key words: Homam, medicinal plants, Tinospora cordifolia, festivals, religious.

Introduction

Hindus constitute over 80% population in India. A precise definition of Hinduism is hard to formulate since the beliefs and practices of Hindus vary widely both regionally and within a given region from class to class. During earlier times Hindus worshipped nature. They worshipped fire, snakes and trees. Even though these practices are still in India, anyone can see people worshipping different gods like Siva (The destroyer), Vishnu (The preserver), Ganesh (Son of Siva), Durga (The fiercer) and Lakshmi (Goddess of wealth) predominantly throughout the country.

The people of India have connected their god with nature. Even in Puranas (the Sacred legend of Hinduism), Lord Siva is visualized as sitting under a banyan tree (Alamaram in Tamil) and expounding eternal truths to four disciples. Lord Vishnu or Tirumal is pictured as an innocent baby, nestling on the leaf of a banyan tree, floating on water. These gods are also called Alamar Kadavul (Subramania Pillai, 1948). Traditional knowledge of people of Tamilnadu explores their scientific approach in many practices. For example, people in many villages play pouring turmeric powder mixed in water each other. The turmeric is scientifically known as

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Curcuma longa and the plant has a range of medicinal uses including its disinfectant nature. In Vishnu temples, a holy water presoaked with the leaves of Holy Basil, Ocimum basilicum called Thulasi Theertham in Tamil is distributed to devotees. In villages, a thread wet with turmeric slurry is tied around people's wrist on the start of their temple festival ("Kovil Kodai" or "Kovil Pongal" in Tamil) which is celebrated for about ten days. During the festival, the people are restricted to go out of the village/town and they should not stay in any other village/town. This is probably due to minimize the chance of spreading communicable diseases. The traditional knowledge of using medicinal plants for different ailments explored the botanical identity, biological activity and the separation and characterization of principal or bioactive compounds (Ljubuncic et al. 2005; Ayyanar and Ignacimuthu, 2005; Koduru et al., 2007).

Homam is a Sanskrit word that means any ritual, offering things into a consecrated fire in the primary action. In India, homam is an important religious practice. The consecrated fire is the central element of the ritual homa. It is offered in every Hindu temple and many houses during ceremonies, mostly between 4.30 and 6.00 a.m. The time is believed to be Brahma Muhoortham by the Hindus and seems to be ideal for doing good things. Scientifically, the temperature is very low at the time, atmosphere is less polluted and especially due to the relative humidity, the smoke arising from the Homam can stay for more

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time in the atmosphere. There are different types of Homam offered by Hindu people such as, Ayushya Homam (for longevity), Lakshmi Homam (for wealth), Navagraha Homam (to relieve from the ill impacts of planets) and Ganesh Homam (for happy and prosperous life). There are many different things offered in Homam by the people. Many people are aware of using the dried stems of *Mangifera indica* (Mango tree) known as Samikthu in Sanskrit or Mankuchi in Tamil, but unaware of other plant parts used by the priests. The common scene in many festivals is the large gathering of people. So the present study was carried out to identify and document the plant parts that are used in Homam.

Materials and Methods

Identification of medicinal plants and collection of traditional uses

The priests or Burohidhars known as the persons who perform the homam and chanting were interviewed in Tuticorin, Tamilnadu during June 2006 to December 2006 by frequent trips. The knowledge of priests in offering plant parts and the reason for performing homam were also collected. However, our aim was predominantly to find out the plants parts used during the practice. We also made informal interviews with the devotees participating during the ceremonies for their knowledge about the plant parts used in the practice.

Results

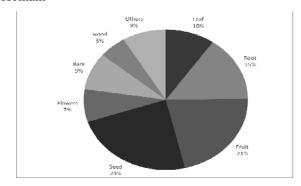
From the study, the religious reasons for performing the practice, the descriptions and explanations about the practice on religious side are omitted and only the scientific outcome are presented here.

In homam, there are 108 plant parts representing 103 species used in dried form. However, due to the availability of specimen (not entire plant) in the form of root, leaf, aerial root, seed etc., we could identify only 92 species. These plants come under a total number of 55 families. There are 7 genus that belongs to Graminae, followed by Zingiberaceae and Caesalpiniaceae each representing 4 genus. The plant parts like leaf, aerial root, roots, fruit, seed, bark, root, flower, wood, tuber, rhizome, mucilage gum and epicarp of fruit were used. Parmelia sp., locally called as 'Kalpasi' was the only lower plant (Lichen) used in the practice. The botanical name of plants followed by local name, family and used parts are documented in Table 1. In the case of different plant parts identified in the Homam, the seed (24 %) and

fruits (24 %) of differentplants are used mostly followed by root (15 %), leaf (10 %) and bark (9%) and others (Figure 1). Since many of the plants are aromatic the volatile compounds may spread in the

atmosphere and help the people to relieve their health problems.

Figure 1. Percentage of different plant parts used in Homam



In the practice, some well known and highly medicinal valued plants like *Justicia adhatoda*, *Withania somnifera*, *Phyllanthus emblica*, *Tinospora cordifolia*, *Andrographis paniculata*, *Strychnos nuxvomica*, *Pongamia pinnata*, *Ficus benghalensis*, *Chrysopogon zizanioides* and *Curcuma aromatica* are used. The seeds of wild and cultivated *Lawsonia inermis* are used. *T. cordifolia* is used in large amount in Ayushya Homam.

Discussion

The people gathering at a large mass of thousands in temple festivals are a common scene throughout India. The study conducted by us is the first type of this and we could notice that people almost not aware of the plants used in the practice.

The priests explained that smoke of *T. cordifolia* keeps any poisonous insects away from the home even for many days after the homam practice. The plant was reported to have many medicinal uses, especially for the bites of poisonous insects and venomous snakes (Kirtikar and Basu, 1991). The chemopreventive potential of the plant has been reported (Singh et al., 2006). Most of the plants identified in the practice are holding the property of treating many diseases and their medicinal properties are reported elsewhere (Kirtikar and Basu, 1991; Rastogi and Mehrotra, 1991).

The botanical identification of medicinal plants used in the practice can make the people aware of the plants used in the practice. The priests should always use only the pure plant parts for the perfect completion of the practice as the people participating in the ceremonies are mostly unaware of the things used in the religious practice.

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Table 1. List of medicinal plants and their parts used in Homam practice

ayurivi asambu linchi tharathai akkavalikai ilavembu kil arikolunthu aramanchal appira alarchikai nnaikai ukku aratti Mokku	Amaranthaceae Araceae Alangiaceae Zingiberaceae Menispermaceae Acanthaceae Thymeliaceae Asteraceae Berberidaceae Bixoceae Caesalpiniaceae Guttiferae	Seed Seed Root Seed Rhizome Fruit Leaf Wood Leaf Wood Seed Fruit
asambu linchi tharathai akkavalikai ilavembu kil arikolunthu aramanchal alarchikai nnaikai aratti Mokku	Araceae Alangiaceae Zingiberaceae Menispermaceae Acanthaceae Thymeliaceae Asteraceae Berberidaceae Bixoceae Caesalpiniaceae Guttiferae	Root Seed Rhizome Fruit Leaf Wood Leaf Wood Seed Fruit Fruit
linchi tharathai akkavalikai ilavembu kil arikolunthu aramanchal appira alarchikai nnaikai ukku aratti Mokku	Alangiaceae Zingiberaceae Menispermaceae Acanthaceae Thymeliaceae Asteraceae Berberidaceae Bixoceae Caesalpiniaceae Guttiferae	Seed Rhizome Fruit Leaf Wood Leaf Wood Seed Fruit Fruit
tharathai akkavalikai ilavembu kil arikolunthu aramanchal alarchikai nnaikai aratti Mokku	Zingiberaceae Menispermaceae Acanthaceae Thymeliaceae Asteraceae Berberidaceae Bixoceae Caesalpiniaceae Guttiferae	Rhizome Fruit Leaf Wood Leaf Wood Seed Fruit Fruit
akkavalikai ilavembu kil arikolunthu aramanchal appira alarchikai nnaikai ukku aratti Mokku	Menispermaceae Acanthaceae Thymeliaceae Asteraceae Berberidaceae Bixoceae Caesalpiniaceae Guttiferae	Fruit Leaf Wood Leaf Wood Seed Fruit Fruit
ilavembu zi ilavem	Acanthaceae Thymeliaceae Asteraceae Berberidaceae Bixoceae Caesalpiniaceae Guttiferae	Leaf Wood Leaf Wood Seed Fruit Fruit
kil rarikolunthu raramanchal lappira lalarchikai mnaikai rukku raratti Mokku	Thymeliaceae Asteraceae Berberidaceae Bixoceae Caesalpiniaceae Guttiferae	Wood Leaf Wood Seed Fruit Fruit
arikolunthu faramanchal uppira alarchikai nnaikai ukku aratti Mokku	Asteraceae Berberidaceae Bixoceae Caesalpiniaceae Guttiferae	Leaf Wood Seed Fruit Fruit
aramanchal appira alarchikai nnaikai rukku aratti Mokku	Berberidaceae Bixoceae Caesalpiniaceae Guttiferae	Wood Seed Fruit Fruit
appira alarchikai nnaikai rukku aratti Mokku	Bixoceae Caesalpiniaceae Guttiferae	Seed Fruit Fruit
alarchikai nnaikai rukku aratti Mokku	Caesalpiniaceae Guttiferae	Fruit Fruit
nnaikai (rukku / aratti Mokku (Guttiferae	Fruit
rukku aratti Mokku		
aratti Mokku	Asclepiadaceae	T1
		Flower
avarai	Capparaceae	Fruit
uvuiui	Caesalpiniaceae	Flower
nagarai	Caesalpiniaceae	Seed
nevadharu	Coniferae	Wood
ettiveru	Graminae	Root
nalisapathri 1	Lauraceae	Leaf
avangam	Lauraceae	Bark
alaithangi	Menispermaceae	Root
		Root
oshtam :	Scitaminaceae	Root
ilapanai	Amaryllidaceae	Tuber
		Wood
		Tuber
-	Cyperaceae	Tuber
		Root
arungali l	Ebenaceae	Bark
irali	Sapindaceae	Leaf
alakkai	Zingiberaceae	Fruit
eppai	Graminae	Seed
	Myrsinaceae	Seed
ellarugu	Gentianaceae	Root
ishnugranthi	Convolvulaceae	Root
al	Urticaceae	Bark
angusthan	Guttiferae	Pericarp
ru Kurinja	Asclepiadaceae	Leaf
ruveru	Rubiaceae	Whole plant
alampurikai :		Fruit
annari	Asclepiadaceae	Root
emparathai 1	Malvaceae	Flower
arley	Graminae	Seed
aikadugu l	Papilionoidae	Seed
vuri 1	Papilionoidae	Seed
dathodai	Acanthaceae	Leaf
aruthani	Lythraceae	Seed
appai :	Sapotaceae	Fruit
agilam	Sapotaceae	Flower
oonaikali	Papilionoidae	Seed
		Flower
arunjeeraham	Ranunculaceae	Seed
	Labiatae	Leaf
ılukapattai	Labiatae	Bark
-	Graminae	Seed
	Parmeliaceae	Whole plant
-		Seed
		Seed
		Fruit
	nalisapathri nvangam alaithangi rutheku pshtam ilapanai asthuri Manjal polankilangu praikilangu praikilangam praili alakkai peppai praili alakkai praili alamgusthan ru Kurinja ruveru alampurikai annari praparathai arley paikadugu praili aruthani praili aruthani praili aruthani praili arunjeeraham praili aragu	nalisapathri Ivangam Ilauraceae Ilauraceae Ilauraceae Ilaithangi Ivangam Ilauraceae Ilauraceae Ilaithangi Ivangam Ilauraceae Ilauraceae Ilaithangi Ivangam Ilauraceae

Phyllanthus emblica Nelli Euphorbiaceae Fruit/Bark/Wood Plectranthus vetiveroids Vialmichai Lamiaceae Root Fabaceae Seed/Fruit Pongamia pinnata Pungam Mathulai Lythraceae Punica granatum Pericarp Fagaceae Gall Quercus infectoria Masikai Euphorbiaceae Ricinus communis Amanakku Seed Rosa cymosa Rosa Rosaceae Flower Sapindus emarginatus Poonthikottai Sapindaceae Fruit Asoham Caesalpiniaceae Saraca indica Bark Schrebera swietenioides Mahalingam Oleaceae Bark Semecarpus anacardium Sengottai Anacardiaceae Fruit Venkadugu Cruciferae Sinapis alba ssp. alba Seed Kandangathiri Solanaceae Fruit Solanum surattense Nathai Choori Rubiaceae Spermacoce hispida Seed Ettikai Loganiaceae Fruit Strychnos nux-vomica Strychnos potatorum Thethangottai Loganiaceae Fruit Syzygium aromaticum Lavangapathri Lauraceae Leaf Syzygium cumini Naval Lauraceae Fruit Telosma minor Asclepiadaceae Sammangi Seed Terminalia bellirica Thandrikai Combretaceae Fruit Terminalia chebula Kadukkai Combretaceae Fruit/Flower Tinospora cordifolia Seenthil Menispermaceae Aerial root Umbelliferae Trachyspermum ammi Omam Seed Ficoidaceae Trianthema portulacastrum Saranai Root Trichosanthes cucumerina Peipudal Cucurbitaceae Root Triticum vulgare Gothumai Graminae Fruit Valeriana jatamansi Jadamanji Valerianaceae Root Ventilago madraspatana Vempadam Rhamnaceae Bark Vitex negundo Nochi Verbenaceae Leaf Withania somnifera Amukkura Solanaceae Root Zingiber officinale Sukku Zingiberaceae Rhizome Ziziphus mauritiana Elanthai Rhamnaceae Fruit

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