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Research Article

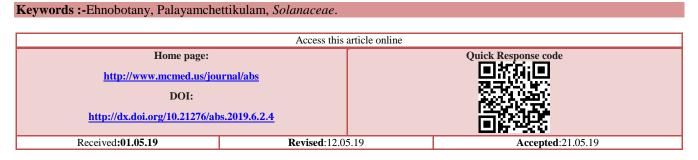
ETHNOBOTANICAL STUDY OF PALAYAMCHETTIKULAM PLAINS IN TIRUNELVELI DISTRICT, TAMIL NADU, INDIA

A. Antony Selvi and T. Leon Stephan Raj*

Department of Botany, St. Xavier's College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu, India.

ABSTRACT

The plants are used as a source of medicine from time immemorial. The local people take the different sources of medicinal product as food. In India, the medicinal plants are used in Traditional Medicinal Systems like Siddha, Unani and Ayurveda. In the present investigation, the local people of palayamchettikulam of Tirunelveli district, Tamil Nadu used traditional medicinal plants are documented. There are 72 medicinal plants were documented along with their local names and their uses for different diseases. A total of 72 plant species representing 68 genera and 32 families were documented from the study area. *Euphorbiaceae* with 6 species was the most species family followed by Apiaceae (5 species) and Solanaceae (5 species). At the genus level, *Solanum* dominated with three species followed by *Citrus*(2 species) and *Piper*(2 species).Most of the medicinal plants are taken in as roots, tubers, stem and leaves, are taken orally with or without combination of other plants, external applications like paste, fumigation. Most of plants used by them are Herbs (43%), Shrubs (24%), Trees (22%) and Climbers (11%). It is observed that the urban educated people are more aware of good effects of herbal medicine over allopathic medicine than the rural people.



INTRODUCTION

Medicinal plants are used by 80% of people from developing countries to fulfill their primary health needs, occupying a key position on plant research and medicine. In India, the use of different parts of several medicinal plants to cure specific ailments has been practiced since ancient times. Ethno botany is the study of the interaction between plants and people, with a particular emphasis on traditional cultures. From "ethno" - study of people and "botany" - study of plants. Ethnobotany is considered a branch of ethnobiology. Ethnobotany studies the complex relationships between (uses of) plants and cultures. The focus of ethnobotany is on how plants have been or are used, managed and perceived in human societies and includes plants used for food, medicine, divination, cosmetics, textiles, for building, tools, currency, clothing, rituals and social life. Ethnobotany is a multidisciplinary science defined these as the interaction between plants and people. The relationship between plants and human cultures is not limited to the use of plants for food, clothing and shelter but also includes their use for religious ceremonies, ornamentation and health care [1].

According to the World Health Organization (WHO) about 65-80% of the world's population in developing countries depends essentially on plants for their primary healthcare due to poverty and lack of access to modern medicine [2]. Ethnobotanical studies have become increasingly valuable in the development of health care and conservation programs in different parts of the world [3]. In the developed countries, 25% of the

Corresponding Author T Leon Stephan Raj Email: - leostephanraj@gmail.com

medical drugs are based on plants and their derivatives [4] and the use of medicinal plants is well known among the indigenous people in rural areas. India is one of the most medico-culturally diverse countries in the world where the medicinal plant sector is part of a time honoured tradition that is respected even today. The country possesses an ancient system of healthcare based chiefly medicinal plants of diverse nature, ranging from higher plants to microorganisms from which more than 80% of therapeutic products are derived have been used for 6000–7000 years [5].

Traditional knowledge of medicinal plants and their use by indigenous healers and drug development in the present are not only useful for conservation of cultural tradition and biodiversity but also for community health care and drug development in the local people. The indigenous knowledge on medicinal plants appears when humans started and learned how to use the traditional knowledge on medicinal plants [6]. While the focus of ethnomedical studies is often the indigenous perception and use of traditional medicines, another stimulus forthis type of research is drug discovery and development. Ethno-medicinal studies are a suitable source of information regarding useful medicinal plants that can be targeted for domestication and management [7]. These studies assume great importance in enhancing our traditional skills and technology about the plant grown and used for native for their sustenance. The use of ethnobotanical information in medicinal plant research has gained considerable attention in segment of the scientific community [8]. Also, traditional medicine and ethno-botanical information play an important role in scientific research, particularly when the literature and field work data have been properly evaluated [9].

MATERIALS AND METHODS

Study Area

Palayamchettikulam is located in Tirunelveli district of Tamil Nadu. It is a village in Palayamkottai Taluk in Tirunelveli district of Tamil Nadu state. It is located 13 km towards east from district head quartersTirunelveli 6km from Palayamkottai, 644 km from state capital Chennai. Current temperature is 24°C. Humidity 78%.Altitude 48 meters.Latitude-8.728486(north). Longitude -77.687738(east). The climate in peninsular India is in generally uniformly mega thermal. This area has semi-arid tropical climate. In this study area, the hottest months of the year are April and May and the coolest months of the year are November to January. The water received from the monsoon is collected in the bonds and pools which is helpful for the irrigation of cultivated lands.

Collection of Data

During the course of present study, field trips were carried out to the area during November 2014 from

Palayamchettikulam, standard methodology was used to elicit the knowledge of medicinal plants. The plants specimens collected were processed at the laboratory of Botany, St. Xavier's College, Palayamkottai, and identified with the help of available literature. The plants were identified from fresh specimens with the help of different floras [10]. Tree species were collected by hand and was identified by experts of the field.

Ethno medicinal data were collected through conversation with traditional healers, and elder people in the field trips. During the interviews local names, useful plant parts, method of preparation and dosage were recorded. After eliciting detailed information regarding the medicinal plants (Table 1), the collected materials were carefully brought to the laboratory for identification.

RESULT AND DISCUSSION

The present study revealed that the local people of Palayamchettikulam of Tirunelveli district, Tamil Nadu, India were using 72 species of medicinally important plants belonging to 32 families (Table 1). The most medicinally important plants species were observed in most of families. Medicinal plants play an important role in providing knowledge to the researchers in the field of ethno botany and ethno pharmacology. The observations of present study showed that traditional medicine plays a significant role among the local people of palayamchettikulam. Besides this, in other districts of tamilnadu like kancheepuram, Vilupuram and tiruvanamalai, practitioners are practicing the traditional system of medicine namely siddha and ayurvedha. Different parts of the plants such as stem, leaf, root, flower and fruits having capability to cure different diseases in the form of paste, powder, juices and decoctions. The ethno medicinally important plants collected from the Palayamchettikulam used to treat various diseases like cold, fever, cough, diarrhea, dysentery, skin diseases, laxative, diabetes and jaundice. This is constant with the outer general observation which has been reported earlier in relation to medicinal plant studies by the Indian traditional system of medicine like siddha and ayurvedha [11-14].

The total of 72 medicinal plant species representing 67 genera and 32 families were recorded. *Euphorbiaceae* comprises of 6 species followed by *Apiaceae* and *Solanaceae*(5 species), *Acanthaceae* (4 species), *Rutaceae* (4 species) and *Fabaceae* (4 species). Other families constitute one or more species in the study area (Figure 1). At the genus level, *Solanum* is dominated with three species followed by *Citrus*(2 species) and *Piper*(2 species). Of these 72 species, 66 dicots and 6 monocot.

In the habitat, most of the medicinal plants 43% (31 species) were herbs, 24% (17 species) were shrubs,

22% (16 species) were trees and 11% (8 species) were

climbers (Figure 3).

S.No	Botanical Name	Family	Local Name	Useful part	Formation	Uses
1.	Abelmoschuse sculentus (L.) Moench.	Malvaceae	Vendakaai	Fruit	Soak ladies finger in a clay pot for five hrs and eat it.	Cure urine irritation.
2.	Acalyphaindic a L.	Euphorbia ceae	Kuppaimenii	Whole Plant Leaf Leaf	 Paste of Kuppaimenii is used to apply the wound. Kuppaimenii and salt. Paste of kupaimeni add salt, 	 Aenimic, jaundice, Dropsy. Cure cough. Reduce itching.
3.	Adadhodavasi ca L.	Acanthace	Adadhoda	Leaf Fruit	 apply it in itching. 1. Make the Adadhoda leaf into a paste by grinding it finely and eat with honey. 2. Paste of adadhoda 	 Cure cough, cold. Cure skin diseases. Cure stomach ache.
			and theean (honey)	Leaf	fruit with water, and drink it. 3. Paste of adadhoda leaf and drink it.	
4.	Aeglemarmelo s (L.) Correa.Ex.	Rutaceae	Veilvam and theean (honey)	Flower	Powder flower ofveilvam and add honey to it and drink it.	Cure allergy.
5.	Allium cepa L.	Liliaceae	Veangayam Veangayam and palm suger	Bulb Bulb	 Fry Veagayam and paste it. Eat small Veagayam with palm sugar. 	 To cure the swelled wound. Antidote for Scorpion Poision.
6.	Allium sativumL.	Liliaceae	Poondu	Bulb	Fried Poondu with rice soaked water.	Cure stomach ache.
7.	Allium sativum L. Piper beetleRoxb.	Liliaceae Piperaceae	Poondu Vethallai	Bulb Leaves	Make a paste use it Poondu and vethallai use it as a body wash.	Skin allergy.
8.	Allium sativumL.Zing iberofficinalis Roxb.	Liliaceae Zingiberac eae	Poondu Injii	Bulb Rhizome	Paste Poondu, Injii and add honey to it and eat twice a day before food.	Throat infection.
9.	Aloe vera L.	Liliaceae	Katrralli and palm suger		 Eat the Katrralli with palm sugar. Take the fleshy part and add sugar to 	 Laxative, Wound healing, Skin burns & care, Ulcer. Cure piles.

Table 1. Ethnomedicinal plants, family, local name, parts used and uses of ethno medicinal plants in Palayamchettikulam plains of Tirunelveli district, Tamil Nadu, India.

				Stem	it and eat weekly once a day.3. Take the fleshy	3. Reduce dandruff.
					part and apply on the hairs.	
10.	Aloe vera L. Phyllanthuse mblica L.	Liliaceae Euphorbia cea	KattrallaiNell ei	Stem Fruit	To gel Kattrallai add Nellei juice and coconut oil and boil it and apply it to hair.	Black colored hair.
11.	Alternanthera sessilis (L.) R.Br.Ex Dc.	Amarantha ceae	Ponnakanni	Leaves	Eat twice a week.	Reduce irritation of eye and naked it cool and fresh.
12.	Amaranthusvi ridis L.	Amarantha ceae	Reddish herbaceous stem (kerrai)	Leaf	Ground the leaves and applied over the swell on region.	Cure wound.
13.	Andrographisl ineataWallich Ex nees.	Acanthace ae	Seriyanangai	Leaf	 Eat twice week. Paste of Seriyanangai leaf. 	 Control diabetes. Snake bites and Liver disease. It is good for diabetes.
14.	Andrographis paniculata(Bu rm.F.)Wallich. Ex Nees.	Acanthace ae	Nilavembu or periyanangai. keerizhangu	Leaf	Paste of Nilavembu leaf and keerizhangu.	1. Insect's bites and Liver stone disease. 2. It is good for diabetes and also the control
	Anaphyllumwi ghtii Scott.	Araceae	Keenznangu	Leaf		of body temperature.
15.	Annonasquam osa L.	Annonacea e	Seetha	Fruit Leaves	 Continuously eat the fruits. Paste of seetha leaves and apply it in wounded parts. 	 Strength the Heart. Cure wound.
16.	Cumiumcymin umL. Piper longumL. Centellaasiati ca (L.) Urban.	Apiaceae Piperaceae Apiaceae	Jera, pepper, vallarikerrai	Seed Leaf	Paste of jera, pepper and vallarikerrai boil it and drink.	Increase memory powder.
17.	Cumiumcymin umL. Citrus limonL.Burm. F.	ApiaceaeR utaceae	Jera Elumichai	Seed Fruit	Add jera powder to lemon juice and drink every morning.	Reduce bitterness of growth.
18.	Cumiumcymin umL. Piper longumL.	Apiaceae Piperaceae	Jera Mellakku	Seed Seed	Eat a powder of mellakku and jira with milk.	Cure malaria.
19.	Azadirachtain dicaA.Juss. Ocimumbasili cum L.	Meliaceae Lamiaceae	Vembu Tulsi	Leaf Leaf	Leaf boils it using water.	Control body temperature.
20.	Azadirachtain dica A. Juss. Ocimumbasili	Meliaceae Lamiaceae	Vambu Tulsi	Leaf Leaf	Paste of neem and tulsileaves add a few drops of lemon juice.	Reduce dandruff.
	cumL.Var.pilo	Rutaceae	Elumichai	Fruit		

	611722	I				
	sum <i>Citrus limon</i> (L.) Burm.F.					
21.	Azadirachtain dicaA.Juss. Momordicach arantia L.	Meliaceae Cucurbitac eae	Vembu Pakarkaii	Leaf	Paste vembu leaf, bitter leaf and tulsi boil it with water.	Kill worms in stomach.
22.	Azadiractaind ica A. Juss.	Meliaceae	Vembu	Flower	 Eat flower of neem plant. Powder, the neem tree flower and mix it with warm water and drink. 	 Natural insecticide. Gastric disorders.
23.	Brassica nigraL.	Brassicace ae	Kaddugu	Seed	Grind mustard seeds and mix it with water and drink.	Control the vomiting.
24.	Brassica nigra L. Zingiberoffici nalisRoxb. Apiumgraveol ens L.	Brassicace ae Zingiberac eae Apiaceae	Kaddugu Injii Jera	Seed Rhizome Seed	Mustard seeds, pepper, ginger, jera is roasted and grind to the powder and eat.	Cure stomach ulcer.
25.	Carumcopticu m L.	Apiaceae	Omam	Seed Seed Leaf	 Dry omam with add 1¹/₃ liter of diluted boiled rice socked water and drink. Powder Omam keep it swollen gums of teeth and goggle. Make a decaution of omam leaf petiole. 	 Cure stomach ache. Reduce pain swollen gums. Cure cough, cold fever.
26.	Cassia auriculata L.	Caesalpini aceae	Avaram	Flower	Eat five avaram flower daily.	Good for Blood circulation.
27.	Catharanthusr oseus (L.) G.Don.	Apocynace ae	Nithyakalyan i	Stem	Dry bark powder.	Used for cancer therapy.
28.	<i>Centellaasiati</i> <i>ca</i> (L.) Urban	Apiaceae	Vallarikerrai	Leaf	Boil kerrai and add coconut milk.	Cure Stomach ulcers.
29.	Cissusquadra ngularis L.	Vitaceae	Pirandai	Stem	 Paste pirandai with salt apply it in affected parts. Make juice from add one drop of milk apply it eye. 	 Cure swelled stomach leg. Used as a medicine of eye infection.
30.	Citrus aurantium L.	Rutaceae	Orange	Fruit	Eat orange daily.	Strength and heart.
31.	<i>Citrus limon</i> (L.) Burm.F.	Rutaceae	Lemon	Fruit	 Mix lemon juice and honey and drink it. Make a tonic using lemon and drink it daily. Lemon and salt. 	 Cure dry cough. Make the swollen liver to normal. Severe cold.

20	Cocciniaindic	Cucurbitac	Varailaasi	Emit	Eat one kovaikaai	Control blood suger
32.	a (L.) Voigt.	eae	Kovaikaai	Fruit	fruit daily.	level.
	Cocosnucifera				Soaked the jeraseeds	Cure cough, stomach
	L.	Arecaceae	Theangaai	Fruit	with coconut water	ache.
33.				Seed	for onedayaddjera	
	Cumiumcymin	Apiaceae	Jera	Secu	was added. During	
	umL.				day time to drink.	
			Theangaai	Fruit	1. Coconut ground	1. Reduce hair fall.
					with applied in head	
					before taking bath.	
					2. Prepare white	
					milk from coconut	2. Fresh and clear
34.	Cocosnucifera	Arecaceae	Theangaai	Fruit	endosperm. To	skin.
	L.		Thean		coconut milk add	
			(honey)		one spoon of honey	
					and massage the	
					body.	2 61 2 1 2
			C	0.1	3. Apply coconut oil	3. Shiny skin.
			Coconut	Oil	in face before bath.	D. 1
	Coriandrumsa	ApiaceaePi	Kothamalli		Green coriander,	Reduce acidity.
35.	tivum L. Binar	peraceae	Melakku	Seed	peppers add in the milk and boil it.	
	Piper	_	Injii		mink and boll it.	
	longumL. Coriandrumsa				Paste of melakaii,	Cure ulcer.
	tivum L.	Apiaceae,	Kothamalli	Seed	kothamalli and	Cule ulcel.
36.	Capsicum	Solanaceae	Melakaii	Fruit	prepare chatny.	
	annum L.	Solaliaceae	wiciakan	Tun	prepare chanty.	
	Coriandrumsa				Boil it Pepper,	Cure headache caused
	tivumL.				coriander, coconut	due water
	Piper	Apiaceae	Kothamalli	Seed	filter the extract and	accumulation in head.
37.	longumL.	Piperaceae	MellakuThea	Seed	drink it.	uccumulation in noud.
	Cocosnucifera	Arecaceae	ngaai	Fruit		
	L.					
	Curcuma	Zingberace	Manjal	Rhizome	Paste of Vembu	Cure skin diseases.
20	domestica	ae	5		leaves, manjal and	
38.	(Medik) Valh		Katrallai		katralli.	
	Aloe vera L.	Liliaceae		Stem		
					1. Paste turmeric	1. Cure fracture.
					seed and apply it in	
					fractured areas.	
	Curcuma	Zincharooo			2. Turmeric applies	2. Cure face pimple.
39.	domestica	Zingberace	Manjal	Rhizome	powder and curd.	3. Gives deep sleep.
	(Medik) Valh.	ae			3. Before going to	
					bed, add turmeric	
					and honey to hot	
					milk and drink.	
	Curcuma	Zingberace	Manjal	Rhizome	Mix turmeric and	Cure wound.
	domestica	ae			castor oil.	
40.	(Medik) Valh.		Amanakku	Seed		
	Ricinuscommu	Euphorbia				
	nisL.	ceae				
41.	Cynodondacty	Poaceae	Arugam pull	Leaf	Prepare juice from	Purity blood, increase
	lon (L.) Pers.		• •		arugampull.	immunity.
42.	Cynodondacty lon (L.) Pers.	Poaceae	Arugampull	Leaves	Grind turmeric and	Rood remedy for
+/					Arugampull apply it	itching.

	<i>Curcuma</i> <i>domestica</i> (Me dik) Valh.	Zingiberac eae	Manjal	Rhizome	in itch mark.	
43.	Daemiaextens a R. Br. Zingiberoffici nalisRoxb. Mukiamadera spatana(L.) M.Roemer.	Ascleipada ceaeZingib eraceae Cucurbitac eae	Veliparuthi, Injii,Melaku, poondu, mosumosikai	Whole plant	Make juice from garlic ginger, piper, neemleaf, dhuduvalai,tulsi leaf.	Cure fuss.
44.	Deaemiaexten sa L.	Ascleipada ceae	Velliparuthi	Leaf	Drink the extracted milk of daemiaextensa.	Cure soriasis.
45.	EmblicaOffici nalisL.	Euphorbia ceae	Nellei	Fruit	Seed is used for powder to boil it for 10 min and drink.	Increase memory power.
46.	<i>Ferula</i> <i>foetida</i> (Bunge) Regal.	Apiaceae	Kayam	Latex	 Soak asafotida in hot water. Apply asafetida paste on wounded area. 	 Controlled body temperature. Cure wound.
47.	Gossypiumher baceumL.	Malvaceae	Parruthi	Seed	Take the milk of paruthi seed and boil it and drink.	To give strength to body.
48.	Hibiscus rosasinensis L.	Malvaceae	Chembaruthi	Leaf	Dry hibiscus leaves and powdered it and eat twice a day.	For normal human discharging.
49.	<i>Hyacinth bean</i> L.	Apocynace ae	Avuri	Leaf	Mix leaf, pepper, jira and boil it in water.	To cure Fever.
50.	<i>Leucasaspera</i> (Willd.) Spreng.	Lamiaceae	Thumbai	Leaf	Leaf juice is given with honey.	Bronchitis in children.
51.	Leucasaspera (Willd.) Spreng. Solanumtrilob atum L.	Lamiaceae Solanaceae	Thumbai Thudhuvalai	Leaf	Make powder of thumbai, tulsi, thudhuvalai dissolve it water.	Cure cough.
52.	Lycopersicum esculentum Mill.	Solanaceae	Thakalli	Fruit	Cut tomato into two equal half, and apply it on face.	Reduce oil content on face.
53.	Menthaarvens is L.	Lamiaceae	Puthena	Leaves	Boil menthol leaves with water and make a decoction and drink it daily.	Cure fever caused due to cold.
				Leaves	1. Cook drumstick	1. Cure eye disease.
54.	<i>Moringaoleife</i> <i>ra</i> Lam.	Moringace ae	Murungai	Leaves	leaves and eat. 2. To juice of drumstick leaves and honey and limestone and apply it in	2. Cure cough.
				Bark Leaves	throat. 3. Boil the bark of Drumstick and extract the juice and drink.	 Cure cold fever. Cover like a
		1	1			

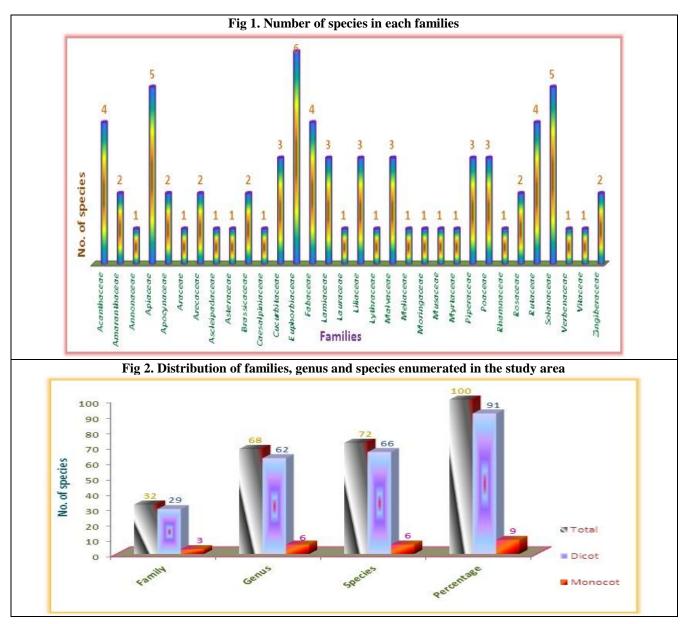
					4. Make extract from drumstick leaves and add salt to it.	bandage over the paining area.
55.	Murrayakoeni gii (L.) Spr. EmblicaOffici nalisL.	Rutaceae Euphorbia ceae	Nellei, neem, tulsi.	Leaf	Paste Curry, gooseberry, henna, neem, tulsi boil it with coconut oil.	Used for hair oil.
	Zingiberoffici nalisRoxb.	Zingiberac	Injii	Rhizome	Add curry leaf,	Cure indigesition.
56.	<i>Murrayakoeni</i> gii(L.) Spr.	eae Rutaceae	Kariveppilai	Leaf	ginger, jera in glass of water and boil it. Filter the solution	
	Cumiumcymin umL.	Apiaceae	Jera	Seed	and drink it.	
				Stem	 Prepare juice from banana stem ad drink. Banana stems 	 Dissolve kidney sone. Antidote for snake
57.	Musa paradisiaca L.	Musaceae	Vazhai	Stem	juice. 3. Apply ripened	 Antidote for shake bite. Soft skin.
				Fruit	banana paste to face and let it dry for 20 minutes and wash soft skin.	
58.	Musa paradisiacaL. Cuminumcymi numL.	Musaceae Apiaceae	Vallai Jera	Flower Seed	Fresh juice of banana flower and add ground jera to the juice for drink it daily.	Cure piles.
	<i>Ocimumbasili</i> <i>cum</i> L. Var.	Lamiaceae	Tulsi	Leaf	Tulsi, dried ginger, pepper boil it and	Cure throat pain and cough.
59.	Zingiberoffici nalisRoxb.	Zingiberac eae	Injii	Rhizome	drink.	cougn.
60.	<i>Ocimumbasili</i> <i>cum</i> L. Var.	Lamiaceae	Tulsi	Leaves	Make juice from tulsi leaves and mix it with boil water and drink it for 48 days.	Cure heat disease.
61.	Ocimumbasili cum L. Var. Zingiberoffici nalisRoxb.	Lamiaceae Zingiberac	Tulsi Injii	Leaves Rhizome	Make decaution from tulsi, ginger and drink it.	Cure cold.
	Ocimumbasili	eae Lamiaceae	Tulsi	Leaves	Make a paste using	Cure head ache.
	cum L. Var. Zingiberoffici	Liliaceae	Injii	Rhizome	tulsi leaves dried ginger and lavangam	
62.	nalisRoxb. Cinnamomum aeylanacumH ook.	Lauraceae	Lavagam	Seed	apply it in forehead.	
	Phoenix	Arecaceae	Perechi	Fruit	Perechi and manjal	Cure dry cough.
63.	<i>humilis</i> Royle. <i>Curcuma</i> <i>domestica</i> (Medik) Valh.	Zingiberac eae	Manjal	Rhizome	add milk boil it.	

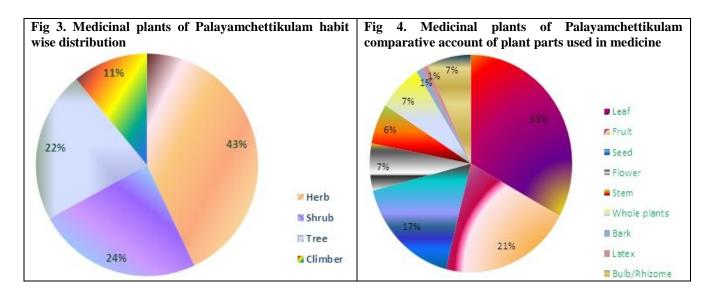
64.	Phylanthusam arusSchum. &Thenn.	Euphorbia ceae	Keezhanelli	Whole plant	Eat the plant paste.	Cure Jaundice.
65.	Phyllanthous amarusSchum . &Thenn.	Euphorbia ceae	Kupaimeni	Leaf	Paste the kupaimeni leaf	Cure wound on skins and palms of legs.
			Nellei and honey	Fruit	1. Boil goose berry and honey filtrate the extract to drink.	1. Cure allergy.
	Phyllanthuse	Euphorbia	Nellei	Fruit	 Eat goose berry legiyam twice a day. 	2. Cure bone fever.
66.	mblica L.	ceae	Nellei and honey	Seed	3. Paste of gooseberry seed and honey.	3. Cure allergy.
			Nellei	Fruit	4. Eat gooseberry daily.	4. Cure asthma.
67.	Phyllanthusni ruri L.	Euphorbia ceae	Keezhanelli	Leaves	Grind Keezhanelli leaves and add curd to it and eat.	Cure jaundice.
68.	Piper longumRoxb., Apiumgraveol ens L.	Piperaceae Apiaceae	VallMelaku Jera	Seed Seed	Add Mellaku and jera powder in the boil water to drink.	Cure virus fever.
69.	Piper nigrum L.	Piperaceae	Mellaku, sugar Mellaku and black jera	Seed Seed	 Add pepper powder in the milk to drink. Boil it and drink. 	 Cure cough. Cure fuss.
70.	<i>Piper</i> <i>beetle</i> Roxb.	Piperaceae	Betal	Leaf	Eat the betal leaf.	Cure insect bite.
71.	Pongamiaglab ra L.	Fabaceae	Pungai	Flower	Dry Pungai flower and powder it and eat twice a day.	Cure thyphoid.
72	Punicagranat um L.	Lythraceae	Maathulai	Fruit	Skin of Maathulai and jera paste to eat.	Cure Stomach ache.
72.	Apiumgravepl ens L	Apiaceae	Jera	Seed		
72	Punicagranat	T. damas	Mathulai	Fruit	1. Take Mathulai Juice and add drink	1. Purify blood, and for normal human
73.	um L.	Lythraceae	Mathulai and honey	Fruit	it daily. 2. Drink Mathulai Juice with honey.	discharge. 2. Cure nervous disorders.
74.	Pyruspyrifolia (Burm.) Nak.	Rosaceae	Pearikaai	Fruit	Eat pear fruit twice a week.	Increase digestion.
75.	Raphanussativ us(L.) Domin.	Brassicace ae	Mullaghii	Rhizome	Make juice from mullaghii and drink it.	Cure headache, cough.
76.	Rhinacanthus nasutus (L.) Kurz.	Acanthace ae	Nagamalli	Leaf	Leaves boiled with gingelly oil.	Treatment toothache.
77.	Ricinuscommu nis L.	Euphorbia ceae	Ayamanaku	Seed	Paste Ayamanaku seeds and apply to it face and hairs.	Reduce dandruff, face pinple.
78.	Rosa centifolia L.	Rosaceae	Rose and honey	Flower	Paste rose petals with honey and	Keep body fresh and cool increase blood

					dates.	production.
					1. To dry rose petals,	1. River shiny
		Rosaceae	Rose	Leaves	add rose water,	Appearance to face.
	D	Rutaceae	lemon	Rose petals.	sandal and add a few	
	Rosa			1	drops of lime juice	
79.	centifolia L.				and apply it in face.	
19.	Citrus limon					2 Deduce heat course
	(L.) Burm.F.				2. Soak Rose petals	2. Reduce heat cause
	· /				in water and filter it	due to piles.
					and add sugar to it	
					and drink.	
					Prepare ash of	Cure cracks on lips.
	Saccharumoffi				sugarcane straw and	
80.	cinarumChase	Poaceae	Karumpu	Stem	add butter to it,	
			1		apply the mixture to	
					lips.	
					1. Eat agathi	1. Blood pressure.
					twice a week.	1. Diood pressure.
	Sesbaniasesba				2. Drink	2. Cure chicken pox.
81.	n (L) Merr.	Fabaceae	Agathi	Leaves	agathikeerai leaf	
					extract bark	
					decaution.	
82.	Solanumnigru	Solanaceae	Manathakalli	Fruit	Eat tomato daily.	Cure intestine,
62.	<i>m</i> L.	Solallaceae	IvialiatilaKalli	Tiun	Eat tomato dany.	wound.
	Solanumtrilob	Solanaceae	Dhudhuvalai	Leaf	Boil the leaf of	Cure cough.
	atum L.	Lamiaceae	Tulsi	Leaf	dhudhuvalai, tulsi	_
	Ocimumbasili				and vembu with	
83.	cumL. Var.	Meliaceae	Vembu	Leaf	peppar. Filtrate the	
00.	pilosum.	memaceae	(emou	Loui	extract and drink.	
	Azadirachtain				extract and drink.	
	dica (A.Juss.)					
	Solanumtrilob		Dhudhuvali	Leaf	Omam, dhudhuvali	Cure couch and fuse
		Soloanacea			·	Cure cough and fuss
0.4	atum L.	e	Omam	Seed	leaf powdered it and	
84.	Carumcopticu	Apiaceae			mixes it with water	
	mL.	Tiplaceae			and drink.	
~ ~	Solanumtrilob			. .	Make pickle from	Increase powder sigh
85.	atum L.	Solanaceae	Thuthuvalai	Fruit	solanaumtriobatum	of eyes.
	annin D.				and eat.	
					1. To kandankathiri	1. Cure furs, cough
					leaf extract, add	and natural
				Leaf	honey boil and	insecticide.
0.5	Solanumxanth	0.1	Kandankathir		drink.	2. Cure fuss, cough
86.	ocarpum L.	Solanaceae	i		2. To Kadakathri	and natural
	ocarpant L.		· ·	Whole plant	leaf extract, add	insecticide.
				in nois plant	honey boil and	mootiondo.
					drink.	
			Sollam,		Mix white yolk of	Remove unwanted
	Sorghum					
87.	vulare (L.)	Poaceae	sugar, and	Seed	egg, sugar, soya	hair in face.
	Pers.		egg white		powder and apply it	
			yolk		in face.	
88.	Syzygiumarom	Myrtaceae	Kerambu	Flower	To clove powder add	Strengthen body
00.	aticum L.	wiyitaceae			honey and eat.	parts.
	Sumaiumanam	Myrtaceae	Kerambu	Flower	Powder seed of	Increase strength of
89.	Syzygiumarom	wrynaecae	ixeramou	110 wei	1 Owder Seed Of	

	Phyllanthuse mblica L.	ceae			clove use as tooth powder.	
90.	Tridaxprocum bens L.	Asteraceae	Thatha poo	Leaf	Apply tridax leaf on blood clotting area.	Reduce the swelling.
91.	Tridaxprocum bens L. Azadirachtain dica (A.Juss.)	Asteraceae Meliaceae	Thatha poo Vembu	Leaf Leaf	Apply the paste of thatha poo leaf or vembu leaf on throat.	Cure throat pain.
92.	Trigonellafoe num – graecum L. Cuminumcymi numL. Ocimumbasili cumL. Var. pilosum.	Fabaceae Apiaceae Lamiaceae	Vendhayam Jera Tulsi	Seed Seed Leaf	Powder Vendhayam, jera and tulsi is boiling in water. Drink the extract.	Cure stomach ache.
93.	VignamungoL	Fabaceae	Ulunthu	Seed	Apply the paste of Ulunthu and white yolk of egg.	Cure fracture.
94.	Vitexnegundo L.	Verbenace ae	Nochii	Leaves	 Eat nochiileaf,pepper, caranga, garlic daily. Eat nochii leaf, pipes, lavanga, and garlic. Leaf of nochii plant is grindand mix it with water and bath. Boil nochii and coconut oil to it apply it on affected areas. 	 Cure asthma. Cure asthma. Body temperature is controlled. Reduce neck pain, spinal cord pain, head ache.
95.	Zingiberoffici nalisRoxb.	Zingiberac eae	Injii	Rhizome	 Make juice from ginger add honey and coconut milk into it. Take a paste of ginger adds a pinch of salt and boils it. 	 Cure stomach ulcer. Cure stomach acidity.
96.	Zingiberoffici nalisRoxb. Mukiamadera spatana (L.) M.Roemer.	Zingberace ae Cucurbitac eae	Injii Mosumosikai	Rhizome Leaf	Ginger juice and mosumosikai.	Cure headache.
97.	Zingiberoffici nalisRoxb. Mukiamadera spatana(L.) M.Roemer. Deaemiaexten saR.Br. Allium	Zingberace ae Cucurbitac eae Asclepidac	Injii Mosumosiki Velliparuthi Poondu	Rhizome Leaf Leaf Bulb	Make juice from ginger, garlic, velliparuthi leaf and mosumosiki.	Reduce stomach acidity.

	sativumL.	eae Liliaceae				
98.	Zingiberoffici nalisRoxb. Citrus limon (L.) Burm.f.	Liliaceae Rutaceae	Injii Lemon	Rhizome Fruit	 Paste ginger, lemon juice with honey. To juice of ginger add honey and drink. 	 Induce hunger and reduce acidity. Purify blood.
99.	Zingiberoffici nalisRoxb. Curcuma domestica (Medik) Valh	Zingiberac eae Zingiberac eae	Injii, Mellaku, pearuchi, manjal.	Rhizome Fruit	Paste Ginger, pepper, dates, dried ginger, turmeric add honey to it mix it with water and drink.	Cure gastric problems.
100.	<i>Zizphusjujuba</i> Lam	Rhamnace ae	Elanthai	Fruit	Eat elanthai fruit daily.	Reduce chest pain.





CONCLUSION

The data from this survey suggests some complex relationships between medicinal plant use and migrating people. Ethnobotanical research can provide a wealth of information regarding both past and present relationships between plants and the traditional societies.In addition to its traditional roles in economic botany and exploration of human cognition, ethnobotanical research has been applied to current areas of study such as biodiversity prospecting and vegetation management. It is hoped that, in the future, ethnobotany may play an increasingly important role in sustainable development and biodiversity conservation. In interaction with the traditional areas of science, ethnobotany gives out several interrelated and interdisciplinary subjects link *ethnomedicine*, *ethnoarchaeology*, *ethnobryology*, *ethnoecology*, *ethnoagriculture*, *ethnonarcotics*, *ethnopharmacology*, etc. Local cultivation of medicinal plants and other economic species can play an important role in economic development of the area.

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CONFLICT OF INTEREST None declared.

REFERENCES

- 1. Schultes RE. (1992). Ethnobotany and technology in the Northwest Amazon: A partnership. In Sustainable harvest and marketing of rain forest products, Eds. Plotkin and Famolare, Island Press, CA, 45-76.
- 2. Awoyemi OK, Ewa EE, Abdulkarim IA, Aduloju AR et al. (2012). Ethnobotanical assessment of herbal plants in southwestern Nigeria. Academic research international, 2, 50-57.
- 3. Balick MJ. (1996). Transforming ethnobotany for the new millennium. *Annals of the Missouri Botanical Garden*, 83, 58–66.
- 4. Principe P. (2005). Monetizing the pharmacological benefit of plants. Washington: US Environmental Protection Agency.
- 5. Balakrishnan V, Prema P, Ravindran KC, Philip Robinson J. (2009). Ethnobotanical studies among villages from DharapuramTaluk, Tamil Nadu, India. *Global J Pharmacol.* 3(1), 8–14.
- 6. Emiru B, Ermias A, Wolde M, Degitu E. (2011). Management, use and ecology of medicinal plants in the degraded dry lands of Tigray, Northern Ethiopia. *Journal of Horticulture and Forestry*, 3(2), 32-41.
- 7. Kunwar RM and Duwadee NPS. (2003). Ecology and Economy of NTFP's in Nepal: A case study from Dolpa and Jumla districts, Nepal. *Botanicaorientalis*, 3, 89–97.
- 8. Heinrich M. (2000). Ethnobotany and its role in drug development. *Phytotheraphy Res.* 14, 479-488.
- 9. Awadh A, Ali N, Al-rahwi IK, Lindequist U. (2004). Some medicinal plants used in Yemeni herbal medicine to treat Malaria. *African J Trad Alt Med.* 1, 72–76.
- 10. Gamble JS and Fischer CE. (1935). Flora of the Presidency of Madras.
- 11. Anonymous, 1992. Wealth of India: Raw materials, Council of Scientific and Industrial Research Publication, New Delhi, (Revised). 3, 591-593.
- 12. Asolkar LV, Kakkar KK, Chakra OJ. (1992). Secound supplement to glossary of Indian medicinal plants with active principles. Part I (A-K). Publication and Information Division, CSIR, New Delhi, India, 205-206.

- 13. Gogte VM. (2000). AyurvedicPharmcology and Therapeutic Uses of Medicinal Plants (Dravyagunavigyan), 1st ed. BharatiyaVidyaBhavan (SPARC), Mumbai Publications, 421-422.
- 14. Kirtikar KR and Basu BD. (2001). Indian Medicinal Plants, Lalit Mohan Basu, Allahabad, India, 1, 35-45.

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