Ethnobotatical studies on Thiruvannamalai district, Tamil Nadu, India

G. RAJKUMAR, J. SURESH KUMAR, M. KRISHNAVENI AND NOORU NISHA BEGAM

ABSTRACT

The people of in and around area of Thiruvannamalai district, Tamilnadu has been using numerous herbs of therapeutic purpose since time immemorial. Villagers chiefly depend on the herbs for all diseases. They are aware of the plant remedies for common ailments like diarrhoea, jaundice, rheumatism, dyspepsia, asthma, diabetes, dysentery, leprosy, antipyretic, gonorrhoea and skin diseases. They are also very familiar with the antidotes for snake bites and scorpion sting. Pharmacological and clinical traits will help in the confirmation of the efficacy of the report herbs. The use of the reported plant species were collected from the regional people, who use them as tradition. Therefore, it is not advisable to use them without consulting an experienced Siddha medicine practioner. For the benefit of the community the recorded plant species should be taken care of and also steps be taken for conservation as well as cultivation of these plant species.

Key words: Ethnobotatical studies, Plant species, Fungi, Aromatic plant, Bryophytes, Tradional knoweldge

How to cite this paper: Rajkumar, G., Suresh Kumar, J., Krishnaveni, M. and Begam, Nooru Nisha (2012). Ethnobotatical studies on Thiruvannamalai district, Tamil Nadu, India, *Ann. Pharm. & Pharm. Sci.*, 3 (1): 11-29.

Article chronicle: Received: 12.12.2011; Revised: 02.03.2012; Accepted: 12.03.2012

INTRODUCTION

Herbs are staging a comeback and herbal 'renaissance' is happening all over the globe. The herbal products today symbolise safety in contrast to the synthetics that are regarded as unsafe to human and environment. Although herbs had been priced for their medicinal, flavouring and aromatic qualities for centuries, the synthetic products of the modern age surpassed their importance, for a while. However, the blind dependence on synthetics is over and people are returning to the naturals with hope of safety and security. Over three-quarters of the world population relies mainly on plants and plant extracts for health care. More than 30 per cent of the entire plant species, at one time or other, were used for medicinal

MEMBERS OF THE RESEARCH FORUM

Address for correspondence:

J. SURESH KUMAR, Department of Botany, Government Arts College, THIRUVANNAMALAI (T.N.) INDIA

E-mail: sureshkumarj9@yahoo.com

Coopted auhors:

G. RAJKUMAR AND M. KRISHNAVENI, Department of Botany, Government Arts College, THIRUVANNAMALAI (T.N.) INDIA

NOORU NISHA BEGUM, Department of Botany, Annamalai University, Annamalainagar, CHIDAMBARAM (T.N.) INDIA

purposes. It is estimated that world market for plant derived drugs may account for about Rs.2,00,000 crores. Presently, Indian contribution is less than Rs.2000 crores. Indian export of raw drugs has steadily grown at 26 per cent to Rs.165 crores in 1994-'95 from Rs.130 crores in 1991-'92. The annual production of medicinal and aromatic plant's raw material is worth about Rs.200 crores. This is likely to touch US \$1150 by the year 2000 and US \$5 trillion by 2050 (Joy *et al.*, 2001).

India is represented by rich culture, traditions, and natural biodiversity, and offer unique opportunity for the drug discovery researchers. Utilization of plants for medicinal purposes in India has been documented in ancient literature (Samvat; Charak, Drdhbala, 1996). India is blessed with two (Eastern Himalayas and Western Ghats) of the eighteen worlds' hotspots of plant biodiversity and is seventh among the sixteen Mega diverse countries, where 70 per cent of the world's species occur collectively. In India, there are over 17,500 species of higher plants, 64 gymnosperms, 1,200 pteridophytes, 2,850 bryophytes, 2,021 lichens, 15,500 fungi and 6,500 algae are reported. India is rich in its own flora that is, endemic plant species (5,725 angiosperms, 10 gymnosperms, 193 pteridophytes, 678 bryophytes, 260 liverworts, 466 lichens, 3,500 fungi and 1,924 algae) (Sanjappa, 2005).

Study area:

Thiruvannamalai district is situated in the south-eastern portion of the state of Tamilnadu, India. The district lies between 12° 15" North latitude and 79° 07" East longitude and extending over an area of 6.191 square kilometer. It is bounded on the North by Vellore, east by Kanchipuram district, south by Vilupuram and west by Dharmapuri district and part of Krishnagiri district. The district is divided into 6 taluks namely, Tiruvannamalai, Chengam, Polur, Arani, Vandavasi and Cheyyar. The area under reserve forest is 1,06,653 hectares. The important forest produces are sandalwood, eucalyptus, bamboo, tamarind, etc. The important hills in the district are Javadhu hills (2500 feet above MSL), Kailasigiri (2743 feet above MSL) and Tiruvannamalai (2668 feet above MSL). The predominant soil types are red loam and red sand loam spread over in all Taluks. Black loam is found in tank and riverbed areas of Vandavasi and Cheyyar Taluks accounting for about 15 per cent of the total area. The climate is tropical. The period from April to June is generally hot. The average rainfall of the district is 1074.70 mm. Nearly 45 per cent of the rainfall is received during the North East monsoon period (October to December). The reserve forest category has rich soil and bright sunlight, and important natural resources which are abundantly available in this region and responsible for the development of rich vegetation having variable medicinal properties.

MATERIALS AND METHODS

Local traditional healers:

Local traditional healers having practical knowledge of plants in medicine were interviewed in randomly selected villages of the district during June 2011 – October 2011. In the study period we interviewed many people from several villages of Tiruvannamalalai. Methods of selecting informants depended upon the distribution of local people having folk knowledge. They were requested to collect specimens of the plants they knew or to show the plant species on site. These informants were traditional healers themselves or had tradition of healing in their families and had knowledge of the medicinal use of the plants. Adopting the methods of Jain (1964), ethnomedicinal data were collected through general conversations with the informants. The questionnaires were used to obtain information on medicinal plants with their local names, parts used, mode of preparation and administration. A total of 45 informants, comprising 28 males and 17 females were identified between the ages of 37 and 80. They were selected based on their knowledge of medicinal plants either for self-medication or for treating others. Informants were asked to come to field and show the plants with local name; the species mentioned by the informants were taxonomically identified.

Views of local people:

Information obtained from medicinally important plants

was assessed by calculating the proportion of plants cited and utilized in relation to the total number of interviewees.

Categorization of medicinally important plants:

Traditionally important medicinal plants which are cultivated, as well as grown in the wild were classified into different types of habits and forms such as trees, herbs, shrubs, climbers, etc.

Biodiversity of medicinally important plant species:

Medicinally important plant species were found to be in plenty in each sampling unit when surveyed. Depending upon the number, they were then divided into four arbitrary groups namely, rare, common, fairly common and abundant.

Knowledge about plants and their uses:

The spearman rank correlation was used to analyze the knowledge about medicinal plant and its correlation with age of survey samples (P < 0.005).

Preservation of plant specimens:

Standard method was followed with regard to collection of plant materials, drying, mounting, preparation and preservation of plant specimens (Jain and Rao, 1976). Voucher specimens of medicinal plants in triplicates were collected, prepared and identified. Plants with their correct nomenclature were arranged alphabetically by family name, vernacular name and ethnomedicinal uses. The identification and nomenclature of the listed plants were based on the Flora of Hooker (1884), Gamble (1935), Henry *et al.* (1987) and Matthew (1983). They were later verified at Botanical Survey of India, Southern Circle, Coimbatore, India. All the preserved specimens were deposited at the department of Botany, Government Arts College, Thiruvannamalai, Tamil Nadu, India.

RESULTS AND DISCUSSION

The present study revealed that the villagers of Thiruvannamalai district, Tamilnadu, India were using 321 species under 257 genera of medicinally important plants belonging to 91 families, they were Fabaceae-18, Asclepiadaceae-14, Euphorbiaceae-14, Acanthaceae-13, Apocynaceae-12, Rubiaceae-12, Solanaceae-11, Verbenaceae-11, Rutaceae-10, Lamiaceae-10, Asteraceae-10, Malvaceae-8, Lilliaceae-8, Cucurbitaceae-8 and Mimosaceae-7. The minimum number species used for medicinal purposes, they were Amaranthaceae-3, Araceae-1, Pteridaceae-4, Adiantaceae-1, Simarubaceae-1, Alangiberaceae-1, Zingiberaceae-5, Anacardiaceae-6, Angiopteridaceae-1, Bromeliaceae-1, Lauraceae-2, Annonaceae-3, Myrsinaceae-5, Arecaceae-2, Papaveraceae-1, Aristolochiaceae-3, Meliaceae-3, Balanophraceae-1, Poaceae-5, Caesalpiniaceae-5, Bischofiaceae-1, Oxalidaceae-2, Nyctaginaceae-4,

Table	e 1 : Ethanomedicinal plants botanical na Tamil nadu, India	ames, vernacular nam	es , family, use	ful parts and medicinal uses List of Thiruvannamalai Dt,
Sr. No.	Botanical and vernacular name	Family	Useful Parts	Mode of administration and uses
1.	Abelmoschus esculentus (L.)Moench.	Malvaceae	Fruits	The fruits are eaten to strengthen the nerves system and
	Venndai			helps in improving and maintaining good skin texture.
2.	Abrus precatorius L.	Fabaceae	Root	Root powder is taken orally along with cow's milk to treat
	Kundumani			scorpion sting and snake bite.
3.	Abutilon indicum L.	Malvaceae	Leaves &	Leaf juice and root are taken orally to treat dental problems.
	Thuthi		root	
4.	Acacia leucophloea (Roxb.)Willd. Velvelamaram	Mimosaceae	Stem bark	Paste of fresh stem bark is applied topically to treat cuts and wounds.
5.	Acacia tortacraib L.	Mimosaceae	Leaves	Leaf is cooked with onion & taken with food it facilitates the
	Seeva keerai			expulsion of gas to stomach disorder.
6.	Acalypha fruticosa Farsskal. Chinni chadi	Euphorbiaceae	Leaves	Decoction of leaves taken orally to treat dysentery.
7.	Acalypha indica L. Kuppaimeni	Euphorbiaceae	Flower	Leaf paste is applied topically to treat skin diseases.
8.	Acalypha paniculata Miq. Paruva thazhai	Euphorbiaceae	Leaves	Leaf paste is applied over pimples regularly once a day until cure pimples.
9.	Achyranthes aspera L. Naayuruvi	Amaranthaceae	Leaves	Leaf paste is applied topically to teat cuts and wounds.
10.	Acorus calamus L.	Araceae	Rhizome	Dried rhizome is ground in water and 10the paste is given
	Vasambu			orally to children for 11 clarity of speech.
11.	Actiniopteris radiata (Sw.)Link. Saava sedi, korai panai	Pteridaceae	Stem	The juice extracted from the stem is taken orally twice a day to treat diarrhea and fever.
12.	Adhatoda vasica Nees.	Acanthaceae	Leaves	Leaf power is mixed with water and taken orally in the
	Adathodai			morning to cure asthma.
13.	Adiantum raddianum C.Pres L. Kanjankorai	Adiantaceae	Leaves	Juice orally taken for indigestion.
14.	Aegle marmelos Curr.Ex.Roxd. Vilvam	Rutaceae	Leaves	Leaf paste is applied topically to heat wounds.
15.	Aerva lanala (L.) Juss.ExSchult. Siru peelai	Amaranthaceae	Whole plant	Juice of whole plant is taken orally to treat cough sore throat and wounds.
16.	Ailanthus excels Roxb. Perumaram	Simarubaceae	Leaves	Decoction is prepared from leaves and taken internally to treat paralyze.
17.	Alangium salvifolium (L.F)Wangerin. Alinji	Alangiaceae	Fruit	One or two drops of fruit juice applied in the eyes to treat eye infections.
18.	Albbizia amara (Roxb.)Boivin.	Mimosaceae	Leaves	The leaf juice is internally used in the case of general
10.	Usilai	Williosaccac	Leaves	weakness and energetic during dysentery and diarrhea and also to relieve body pain.
19.	Alfizia lebbeck (L.)Benth.	Mimosaceae	Flower	The powder prepared from five grams of flower is taken
	Vagai		13,001	orally along with hot water three times a day for three days to treat snake bite.
20.	Allium cepa L.	Liliaceae	Bulb	Paste with common salt is applied on injured paste to cure wound healing.
21.	Vengayam Aloe barbadensis L.	Lilliaceae	Whole plant	The juice of whole plant is taken as remedy for jaundice,
۷1.		Limaceae	whole plant	
	Sivappu sothu kathalai			fever and piles.

Contd...Table 1

dTable 1	,		,
Aloe vera L.	Liliaceae	Leaves	Sap mixed with oil is heated and applied on hair for hair
Sothu kathalai			growth and good sleep.
Alpinia calcarata Rosc.	Zingiberaceae	Rhyzome	Dried rhizome is mixed with water and two drops of juice
Arathi poo			are given orally to children for increase resistance power.
Alseodaphne semecarpifolia Nees.	Lauraceae	Stem bark	Juice applied externally for leach bite.
Attapattai			
Alstomia scholaris (L.) R.Br. &	Apocynaceae	Stem	Powdered stem is mixed with water and given orally to the
Paalooram Pattai			mother to increase lactation.
Alstomia venenata R.Br.	Apocynaceae	Stem bark	Decoction of stem bark taken orally to snake bite.
Elaipalai			
Alternanthera sessalis (L.) R.Br.ex.Dc.	Amaranthaceae	Leaves	Leaf extract is given to expecting mothers to increase
Ponnanganni			lactation. Leaf decoction given 2 times a day for 14-30
			days to cure nervous disorders.
Amaranthus caudatus L.	Amaranthaceae	Leaves	Leaves are boiled in water and the decoction is taken to
Sirukeerai			cure rheumatic pain.
Anacardium occidentale L.	Anacardiaceae	Stem bark	Powdered bark mixed with honey is taken orally once a day
Mundhiri			for six months against leprosy.
Andrographis echioides Nees.	Acanthaceae	Leaves	Juice of leaf taken orally in antipyretic and stomachache
Gopuramthangi			problems.
Andrographis lineate Wall.	Acanthaceae	Leaves	Three drops of extract given orally to children to expel
Periyanangai			worms.
Andrographis lineate Wallich Ex. Nees.	Acanthaceae	Leaves	Leaf powder is mixed with cow's or goat's milk and taken
Siriyanangai			orally to treat diabetes.
Androgrophis paniculata (Burm.f) Wallich	Acanthaceae	Leaves	Powdered leaf is mixed with cow as gratis milk and taken
Ex. Nees.			orally to treat diabetes.
Nilavembu			
Angiopteris evecta (Forst) Hoffm.	Angiopteridaceae	Leaves	Paste with common salt applied externally for fire burns.
Yanaivanangi			
Anisochilus carnosus (L.f.) Wallich.	Lamiaceae	Leaves	Paste of leaf is applied over the affected places to cure
Saetthupun thazhai			itching of feet on rainy season.
Anisomeles malabarica R.Br.	Lamiaceae	Leaves	Leaf juice used in fever and stomachache and the mixed
Periya peymarati			water to drink which cure snake bite.
_	Bromeliaceae	Fruit	The fruit are taken internally to cure peptic ulcer, jaundice
Annachi			worm infestion.
Annona squamosa L.	Annonaceae	Leaves	Leaves extract is taken orally to cure dysentery
Sitha			, ,
	Fabaceae	Whole	The plant powder mixed with cow's milk it is used as a
** *		plant	leprosy, syphilis and ulcer. Decoction of the flowers is
		1	taken a cough and asthma.
Ardisia solanacea roxb.	Myrsinaceae	Seeds	Paste applied externally for fungal infection.
		20040	Tr
	Arecaceae	Seeds	Fine paste applied on wounding past to treat wound.
	. II coucouc	55005	r-ste approce on mountaing past to deat mount.
	Papaveraceae	Leaves	The leaf decoction is given in ulcers and malarial fever.
o	- apareraceae	200,00	and maintain to vol.
	Aloe vera L. Sothu kathalai Alpinia calcarata Rosc. Arathi poo Alseodaphne semecarpifolia Nees. Attapattai Alstomia scholaris (L.) R.Br. & Paalooram Pattai Alstomia venenata R.Br. Elaipalai Alternanthera sessalis (L.) R.Br.ex.Dc. Ponnanganni Amaranthus caudatus L. Sirukeerai Anacardium occidentale L. Mundhiri Andrographis echioides Nees. Gopuramthangi Andrographis lineate Wall. Periyanangai Andrographis lineate Wallich Ex. Nees. Siriyanangai Androgrophis paniculata (Burm.f) Wallich Ex. Nees. Nilavembu Angiopteris evecta (Forst) Hoffm. Yanaivanangi Anisochilus carnosus (L.f.) Wallich. Saetthupun thazhai Anisomeles malabarica R.Br. Periya peymarati Annona scomosus L. Annachi Annona squamosa L.	Aloe vera L. Sothu kathalai Alpinia calcarata Rosc. Arathi poo Alseodaphne semecarpifolia Nees. Attapattai Alstomia scholaris (L.) R.Br. & Apocynaceae Paalooram Pattai Alstomia venenata R.Br. Elaipalai Alternanthera sessalis (L.) R.Br.ex.Dc. Ponnanganni Amaranthus caudatus L. Sirukeerai Anacardium occidentale L. Mundhiri Andrographis echioides Nees. Gopuramthangi Andrographis lineate Wall. Periyanangai Andrographis lineate Wallich Ex. Nees. Siriyanangai Androgrophis paniculata (Burm.f) Wallich Ex. Nees. Nilavembu Angiopteris evecta (Forst) Hoffm. Angiopteris evecta (Forst) Hoffm. Anisochilus carnosus (L.f.) Wallich. Saetthupun thazhai Annona scomosus L. Annona squamosa L. Sitha Arachis hypogea L. Nilakadalai Ardisia solanacea roxb. Kohlikoltai Areca catechu L. Pakku	Aloe vera L. Sothu kathalai Alpinia calcarata Rosc. Zingiberaceae Rhyzome Arathi poo Alseodaphne semecarpifolia Nees. Lauraceae Stem bark Altapattai Alstomia scholaris (L.) R.Br. & Apocynaceae Stem bark Paalooram Pattai Alstomia senolaris (L.) R.Br. & Apocynaceae Stem bark Elaipalai Alternanthera sessalis (L.) R.Br.ex.Dc. Amaranthaceae Leaves Ponnanganni Amaranthus caudatus L. Amaranthaceae Leaves Ponnanganni Amaranthus caudatus L. Anacardiaceae Stem bark Mundhiri Andrographis echioides Nees. Acanthaceae Leaves Gopuramthangi Andrographis lineate Walli. Acanthaceae Leaves Periyanangai Andrographis lineate Wallich Ex. Nees. Acanthaceae Leaves Siriyanangai Andrographis paniculata (Burm.f) Wallich Acanthaceae Leaves Siriyanangi Anisonchilus carnosus (L.f.) Wallich. Acanthaceae Leaves Yanaivanangi Anisonchilus carnosus (L.f.) Wallich. Lamiaceae Leaves Periya peymarati Annona seomosus L. Bromeliaceae Fruit Annona squamosa L. Bromeliaceae Fruit Annona squamosa L. Annonaceae Leaves Sitha Arachis hypogea L. Pabaceae Whole Nilakadalai plant Areca catechu L. Arecaceae Seeds Kohlikoltai Areca catechu L. Arecaceae Seeds

Contd... Table 1

43.	d Table I Aristolochia bracteolate Lam.	Aristolochiaceae	Root	The root powder is taken with honey and is given internally
15.	Aluthedapalai	Thistorochiaceae	Root	to treat ulcer and skin diseases.
44.	Aristolochia indica L. Urikakodi	Aristolochiaceae	Leaves	Paste applied on the body to prevent skin diseases.
45.	Artemisia nilagirica (C.B,clarke) Pamp. Masipathri	Asteraceae	Leave	Juice taken orally for three days to cure asthmatic eruption.
46.	Asparagus recemosus Willd. Thanneer vittan kilangu	Liliaceae	Leaves	Paste of tender and mature leaves is applied topically on the heels before going to fed to cure hell crack.
47.	Asystasia gangetica (L.)T.andesson. Valukkai keerai	Acanthaceae	Leaves	Leaf power is mixed with coconut oil and applied topically to head and wounds.
48.	Atalantia monophylla Corr. Kattu elumichai	Rutaceae	Leaves	The leaves are boiled with water externally and used for to treat swelling and joint pain.
49.	Azadirachta indica A. Juss. Vembu	Meliaceae	Leaves	Leaf past is applied topically on the body to treat small pox, rheumatism and skin diseases.
50.	Azinta tetracantha Lam. Sunkan	Salvadora	Root & leaves	Root and leaf potion is used for joints swelling.
51.	Bachanania lanzan Spreng. Chainnamurli	Anacardiaceae	Stem bark	Stem bark powdered is administered one spoonful twice a day for 3days to treat diarrhea
52.	Balanophora fungosa Fors. Vaer chedi	Balanophoraceae	Whole plant	Paste of the whole plant is applied over the infected part of the skin to treat skin diseases.
53.	Bombusa arundinacea Willd. Mungil	Poaceae	Leaves	Leaf paste applied externally in skin diseases. Leaf juice is used in fever, diarrhea and diabetes.
54.	Barleria prionitis L. Kattu kanagambaram	Acanthaceae	Root	Root decoction taken orally for snakebite.
55.	Barleria strigosa Willd. Neelambaram	Acanthaceae	Root	Root crushed with piper and the juice extract is given two spoonfuls twice a day for 30days to treat tuberculosis.
56.	Bauhinia racemosa Lam. Kolathi	Caesalpiniaceae	Stem bark	Extract taken orally to relieve abdominal pain.
57.	Bichofia javanica Blume. Romaviruksha pattai	Bischofiaceae	Stem bark	Paste of stem bark is applied externally on the affect parts to cure nervous disorders.
58.	Biophytum neruifolium Thw. Pusphajalam	Oxalidaceae	Leaves	Leaves are boiled in water and the decoction is taken for 45 days to cure rheumatoid arlhitis
59.	Boerhaavia diffusa L. Mookaratai	Nyctaginaceae	Root	Root paste is applied topically to treat hydrocele.
60.	Bombax ceiba L. Elavampanchu	Bombacaceae	Seed	Seed powder with goat's milk is taken orally to treat diabetics and skin disease.
61.	Borreria hispida (L.) G.F.W.Meyer. Nathaisoori	Rubiaceae	Root	The tea from of the root decoction is used in the treatment of leucorrhoeas and gonorrheas.
62.	Bougaianvilaea spectabite Willd. Kaaghitha poo	Nyctaginaceae	Leaves &	Leaves juice is given in jaundice, dysentery and diarrhea, roots are used in cough and fever.
63.	Brassica juncea (L.) Czern.Coss. Kadugu	Bracecaceae	Root Seed	Seed powder with milk is taken orally to cure diabetics cold and respiratory trouble.
64.	Buchanaia lanzan Sperng. Kolamavu	Anacardiaceae	Stem bark	Paste of stem bark used for cut wounds.
65.	Buddleja asiatica Lour.	Buddlejaceae	Leaves	Strong decoction orally taken to relieve headache with cold.
	Karukattan			Table 1 contd

Contd...Table 1

Cont	dTable 1			
66.	Bupleurum mueronatum Wight & Arn.	Apiaceae	Seeds	Strong decoction taken orally for once a day to cure chronic
	Kattucheeragam			stomach pain.
67.	Butea frandosa koen.	Papillionoceae	Leaves	Juice of leaf is given in antiseptic alterative and blood
	Porasan			pressure.
68.	Cadaba fruticosa (L.)Druce.	Cappadidaceae	Leaves	The leaf juice is internally used in the case of general
	Vizhuthi			weakness and energetic during dysentery and diarrhea and
				also to relieve body pain.
69.	Cadunaregum spinosa (Thun)	Rubiaceae	Fruits	Crushed unripe fruits are used to stupefy fish.
	Tiruvengadam.			
	Karangai maram			
70.	Caesalpinia sepiaria Roxb.	Caesalpiniaceae	Leaves	Leaves are taken orally with food for digestion problems
	Intha chedi			stomach disorder.
71.	Cajanus cajan (L.) Millsp.	Fabaceae	Seed	Seed cooked and taken along with food to treat diabetics
	Thuvarai			
72.	Calophyllum inoohyllum L.	Cuttiferaceae	Leaves	Ten to fifteen gram of leaf is made into paste with few
	Punnai			drops of hot water. This paste is applied externally on
				roheumatism and gonorrhoea.
73.	Calotropis gigantea (L.) R.Br. Erukku	Asclepiadaceae	Whole	The plant powder mixed with cow's milk it is used as a
	7 30 ,	ī	plant	leprosy, syphilis and ulcer. Decoction of the flowers is
			1	taken a cough and asthma.
74.	Canna indica L.	Musaceae	Rhizome	The rhizome and fresh fruit of juice mixed with water to
	Kalvazhai			drink which cure fever, dropsy and dyspepsia.
75.	Capparis sepiaria L.	Violaceae	Fruit & root	Leaves are pasted with lemon juice and are applied
/	Thottichedi	, Tolubout	11411 66 1001	topically to treat swellings. The fruits are edible.
76.	Capparis zeylanica L.	Capparaceae	Root bark	Root bark is ground with water boiled and taken orally to
70.	Aadhandai	Саррагассас	Root bark	treat indigestion.
77.	Caralluma adscendens (Roxb) Haw.	Asclepiadaceae	Tuber	Sliced stem with salt taken orally for diuretic condition.
//.	Elavan	Asciepiadaceae	Tuber	Sheed stell with sait taken orany for didictic condition.
78.	Caralluma umbellate (Roxf) Haw.	Asclepiadaceae	Stem	Burnt in direct five and eaten for five days regularly in
76.	Kallimulayan	Asciepiadaceae	Stelli	empty stomach to cure ulcer.
79.	Cardiospermum canescens Wall.	Sapindaceae	Leaves	• •
19.	*	Sapindaceae	Leaves	Paste applied for abdominal pain.
90	Kuthumadakan	Sapindaceae	Doot	Doct is bailed with all and applied on boad before both to
80.	Cardiospermum halicacabum L.	Sapindaceae	Root	Root is boiled with oil and applied an head before bath to
0.1	Mudakkathan	* 411	0: 1 1	treat throat infection and headache.
81.	Careya arborea Roxb.	Lecythidaceae	Stem bark	Paste applied for cracks in toes and heels.
	Ayma	~ .		
82.	Carica papaya L.	Caricaceae	Flower &	Flower used in anthelmintic. Fruit decoction used to blood
	Pappali		rruit	pressure and improve eye power.
83.	Carissa spinarum L.	Apocynaceae	Fruit	Ripen fruit eaten for urinary infections.
	Kattu kalakai			
84.	Carmona redusa (Vah)Masam.	Boraginaceae	Leaves	Juice of leaves is taken internally for three to four months
	Kurangu vetthilai			to induce fertility.
85.	Cassia absns L.	Caesalpiniaceae	Seed	Seeds are ground into paste and applied topically to treat
	Karunai kanam			skin diseases and headache.
86.	Cassia alata L.	Fabaceae	Leaves	Pounded leaves coconut oil and bee wax made into paste is
	Seemai agathi			applied on the affected parts to cure tinea vesicularis.

Cont.... Table 1

Cont	Table 1	_		
87.	Cassia auriculata L. Aavarai	Caesalpiniaceae	Flower	Flowers are crushed and mixed with goat's milk and taken orally to prevent white discharge in women.
88.	Cassia occidentalis L. Ulunthu	Caesalpinaceae	Leaf & fruit	Leaf paste is applied topically to treat scabies and to heal bone fracture and for skin disease.
90		F-1	Ch 4 4: -	
89.	Cassia tora L.	Fabaceae	Shoot tip	Tender twigs are cooked with onion and taken with food
00	Thahara chedi	A	XX71 1 -	used as a vegetable.
90.	Catharanthus roseus G.Don.	Apocynaceae	Whole	Whole plant is powdered and mixed with cow's milk and
01	Nithyakalyani	G.1. <i>i</i>	plant	taken orally to treat diabetes.
91.	Celastrus paniculatus Willd.	Celastrcaceae	Seeds	Seed powder mixed with water taken orally to cure nervous
02	Valuruvai	A 1 ' 1	T	disorder.
92.	Ceropegia candelabrum L.	Asclepiadaceae	Leaves	Paste of leaves is applied on forehead to treat headache.
0.2	Perun kodi		G.	
93.	Ceropegia juncea Roxb.	Asclepiadaceae	Stem	Crushed with milk taken orally for three days to cure ulcer.
	Pulichan			
94.	Chloris barbata Sw.	Poaceae	Leaves	Leaf paste applied externally in skin diseases. Leaf juice is
	Grass	D (ъ.	used in fever, diarrhea and diabetes.
95.	Chycosmis pentaphyela Correa.	Rutaceae	Root	The root is pasted with cumin and taken internally to treat
	Kolichi maram			asthma.
96.	Cinnamomum verum Presl.	Lausaceae	Stem bark	Decoction of stem back is taken internally to treat cough,
	Lawangappattai			dysentery and to keep the body cool.
97.	Cipadessa baccifera Naiq.	Meliaceae	Root &	The paste of root and bark is applied topically to cure
	Seeru maram		bark	psoriasis skin diseases.
98.	Cissampelos pareira L.	Menispermaceae	Whole	The plant used for blood purification and anti inflammatory
	Pon musatai		plant	properties.
99.	Cissus quadrangularis L.	Vitaceae	Stem	Paste of stem is taken orally for easy digestion.
	Pirandai			
100.	Citrullus colocynthis (L.) Schread.	Cucurbitaceae	Fruit	Five drops of juice with milk given orally for five days to
	Peykumati			treat nervous disorder.
101.	Citrus aurantifolia (Christm) Swingle L.	Rutaceae	Leaves	Decoction of leaves is inhaled to get relief form fever
	Elumichai			headache and cold.
102.	Citrus medica L.	Rutaceae	Leaves	Leaves juice used as fever and dyspepsia
	Naarthankai			
103.	Citrus maxima Merr.	Rutaceae	Fruit	The fruit is used as a major source of vitamin C.
	Pamlimasu			
104.	Citrus sinensis (L.)Osbeck.	Rutaceae	Leaves	Decoction of leaves is inhaled to get relief form fever
	Saathukudi			headache and cold.
105.	Clausena dentata (Willd.)Roem.	Rutaceae	Leaves	Paste of leaves is applied over the affected parts to treat
	Anai thazhai			wounds.
106.	Clematis gouriana Roxb&Dc.	Ranunculaceae	Leaves	Paste of leaf is applied topically on affected part of the skin
	Attumeesai chedi			to treat skin diseases.
107.	Cleome gynandra L.	Cappadidaceae	Leaves	Sap from leaf has been used as an analgesic particularly for
	Thaivelai			headache epileptic fits and earache.
108.	Cleome viscosa L.	Capparaceae	Leaves	Leaf paste is applied topically to heal wounds.
	Naikadugu			
109.	Clerodendron inerme Geertn.	Verbenaceae	Leaves	Leaf juice mixed with bee wax resins made into a paste is
	Changu kuppi			kept in a hot water bath and cooled before use. It is applied
L				once a day before bed time to cure various skin diseases.
		-		Table 1 contd

Таріе	1 contd			
110.	Clerodendrum phlomidis L. Thaluthalai	Verbenaceae	Leaves	The fresh juice of leaf is used to treat mental tension and mental disturbance.
111.	Clerodendrum serratum (L.)Dc. Siruthekku	Verbenaceae	Leaves	Leaf paste applied externally for joint pain.
112.	Clitoria ternatea L.	Fabaceae	Leaves	Leaf juice is given internally is dropsy and antipyretic.
113.	Sangu poo Coccinia grandis (L.) J.Voigt.	Cucurbitaceae	Leaves	Leaf juice is mixed with butter and applied topically to treat
114.	Kovai Cochrostchys cineea Wight& Arm.	Minosaceae	Leaves	skin diseases. Decoction taken orally thrice a day to treat diarrhea.
115.	Vedathalan Cocos nucifera L.	Aracaceae	Oil & fibres	The tea from the husk fiber is widely used to treat several
116.	Thennai Coldenia plocumbens L.	Boraginaceae	Leaves	inflammatory disorders and oil is used for health hair. Juice of leaf is taken orally to prevent white discharge in
117.	Cheruppadai Coleus aromaticus Benth.	Lamiaceae	Leaves	women. Leaf juice is taken orally by children to treat indigestion
	Karpura valli			and cough.
118.	Commiphora caudate Engl. Malaikilavai	Burseraceae	Fruit	Pericarp eaten to cure dry skin.
119.	Corallocarpus epigaeus HK.f. Karudankilangu	Cucurbitaceae	Tubers	Tubers boiled in coconut oil is applied once a day for six month on the affected parts to cure leprosy.
120.	Corchorus triloculasis Rox. Talakkaip poondu	Tiliaceae	Whole plant	Plant macerated with water yields, mucilage, prescribed as a demulcent, seeds are used in fever and for cleaning bowls.
121.	Coriandrum sativum L. Koththamalli	Apiaceae	Fruit & leaves	The seeds and the rhizome of zingiber are ground with water, the extract is taken internally for giddiness. The leaf
122.	Curcuma longa L. Manjal	Zingiberaceae	Rhizome	may have antimicrobial properties. Rhizomes paste is applied on the affected parts twice a day till the recovery to cure impetigo.
123.	Crinum deficum Ker. Vishanarayani	Amarylliaceae	Bulbs	Pounded bulbs mixed with hot water is given orally twice a day for three days for curing tinea cruris.
124.	Crotalaria verucosa L. Narimiratti	Fabaceae	Flower	Flower powdered with cow's milk are given in scabies.
125.	Cuminum cyminum L. Cheerakam	Apiaceae	Fruit	Fruit soaked in water and taken orally to treat dysentery and diabetics
126.	Curculigo orchioides Gaesth. Nilappanai	Amaryllidaceae	Rhizome	Crushed with milk taken internally to treat rheumatic pain.
127.	Curcuma aromatica Sal. Kasturimanjal	Zingiberaceae	Rhizome	Rhizomes paste is applied on the affected parts twice a day till the recovery to cure impetigo.
128.	Cymbidium aloifolium (L.)Sw. Panaipulluruvi	Myrsinaceae	Leeds	Paste of seed applied externally to treat fungal infection.
129.	Cynanchum callialatam Buch. Vepadalkodi	Asclepiadaceae	Latex	Three drops with milk taken orally for five days to cure mouth and intestine ulcer.
130.	Cynodon dactylon L. Pes.	Poaceae	Whole	Decoction of whole plant is taken orally to keep the body
131.	Arugampullu Cyperus rotundus L. Korai	Cyperaceae	plant Tuber	cool. Paste of dried tuber is applied on breast of women to secrete more milk and applied topically on bitten site of
				scorpion.

Contd.... Table 1

Contd	Table 1	·		
132.	Datura metel L.	Solanaceae	Leaves	Few drops of leaf juice is poured into ear to treat earache.
	Oomathai			
133.	Datura stramonium L.	Solanaceae	Leaves	Decotion of leaves is useful in rhewmatism, toothache.
	Periyamathai			
134.	Dichrortachys cinerea Wight & Arn.	Mimosaeae	Leaves	Leaf pasted with and taken once a day to cure dysentery
	Vedathalan			and diarrhea.
135.	Didymocarpus gambleanus Fischer L.	Gesneriaceae	Leaves	Leaf paste applied on pimples and external cracks to cure
	Paraiotti			pimples.
136.	Dioscorea oppositifolia L.	Dioscoreaceae	Rhizome	Paste of rhizome is taken internally to cure stomachache.
	Vallikilangu			
137.	Dodonaea viscose L.	Sapindaceae	Stem &	The stem and root are used for the treatment of rheumatism,
	Verrali	•	root	skin diseases and diarrhea.
138.	Drymaria cordata (L.)Roem & Schult.	Caryophyllaceae	Leaves	Paste of leaf is applied over the heels before going to bed
	Kodi charai	J.I. J		regularly till cure for heel crack.
139.	Eclipta prostrata L.	Asteraceae	Leaves	Leaf power is mixed with coconut oil & applied on the hair
	Karisalankanni			regularly for healthy and black hair.
140.	Elytraria acaulis L.	Acanthaceae	Whole plant	The whole plant is internally and as well as externally used
110.	Nelakatambu	7 icanimicouc	whole plant	in the case of deworming.
141.	Enicostemma littorale Blume.	Gentianaceae	Leaves	The decoction of leaf used in rheumatism, abdominal ulcer
171.	Velleruku	Gentianaceae	Leaves	and white discharge for womens.
142.	Ervatamia coronaia Steapf.	Anagynagaa	Leaves	Two gram leaf powder with honey is used five days to cure
142.	•	Apocynaceae	Leaves	
1.42	Nandhiyavattai	Fabaceae	Lagrage	rheumatism, dysentry and dyspepsia
143.	Erythrina indica L.	гавасеае	Leaves	Leaves are ground with rice and made into a roasted dosa
	Kalyana murungai			this is consumed against cold and cough and leaf poultice is
1 4 4		E d 1	337 11 1	used for joint pain.
144.	Erythroxyhm monogynum Roxb.	Erythroxylaceae	Wood bark	An infusion of the wood bark is administered as stomachic,
	Sempulichan			diaphoretic and diuretic.
145.	Eucalyplius globulus Labill.	Myrtaceae	Leaves	The vapors of boiled leaves are in haled for coughs and a
	Thailamaram			cold.
146.	Eugenia caryophyllata Thumb.	Myrtaceae	Flower bud	Strong decoction with palm sugar orally administered for
	Kirambu			twice a day to treat respiratory problems.
147.	Eulophia graminea Lindl.	Orchidaceae	Bulb	Extract used as eardrop to ear and eye problems.
	Kattuvengayam			
148.	Euphorbia antiquorum L.	Euphorbiaceae	Latex	Dried latex is taken internally in low dose to help free
	Sathurakkalli			motion.
149.	Euphorbia tirucalli L.	Euphorbiaceae	Stem	The stem is boiled with water and given to children to treat
	Kodikalli			skin diseases.
150.	Euphorbia thymifolia L.	Euphorbiaceae	leaves	Pried leaves and seeds are asomatic, astcingent and
	Sittrapaladai			stimulant, they are used as laxative.
151.	Euphorbia hirta L.	Euphorbiaceae	Milky latex	The milky latex is applied topically to treat wounds and lip
	Amman pacharisi			cracks.
152.	Evolvulus alsinoides L.	Convolvulaceae	Whole plant	The whole plant extracts are used to treat brain disorders
	Vishnu karanthai			like insanity, epilepsy, memory enhancement and nervous
				debility.
153.	Exacum pedunculatium L.	Gentianaceae	Whole plant	Decoction taken three days to fever with dysentery.
	Chakkalathi			

Tubie	I contd			
154.	Excoecoria crenulala L. Vellai thillai	Euphorbiaceae	Stem	Paste of the stem is applied on the affected part of the skin to cure skin diseases.
155.	Ficus benghalensis L. Alamaram	Moraceae	Stem	Stem latex is applied topically on heel cracks young stem is used as tooth brush.
156.	Ficus glomerata L. Arhi	Moraceae	Latex	Applied on the skin to common treat inrection.
157.	Ficus racemosa L. Athimaram	Moraceae	Stem	Stem latex is applied topically to treat heel cracks.
158.	Ficus religiosa L.	Moraceae	Leaves	Dried leaf powder is mixed with water and taken orally to
159.	Arasamaram Flacocurtia ramontchi (L.) Herit.	Bixaceae	Fruit	get relief from body pain. Ripened fruits are taken orally to keep the body cool body
160.	Kejalika chedi Garcinia indica (Thouars) Chois.	Guttiferae	Aerial part	heat. The aerial extract has been used to treat inflammation and
161.	Pazhampuli Gardenia resinifera Roth.	Rubiaceae	Resin	other disorders. Powder taken with milk once a day to treat diabetes.
162.	Kambili Gemelina arborea L.	Verbenaceae	Stem bark	Stem bark is used as hair cleaner and prevent dandruff.
163.	Kumala Ghycosmis pentaphylla (Rebz.) Correa. Kuttivila	Rutaceae	Fruit	Juice administered orally twice a day to cure chronic
164.	Kuttivila Gloriosa superba L.	Liliaceae	Tuber	stomach pain Decotion of the tuber is taken internally to treat aphrodisiae
165.	Kalappai kilangu Glycyrrhiza glabea L.	Fabaceae	Root	and piles. The root powder mixed with hot water to drink which cure
166.	Athimathuram Gmelina arborea Roxb. Kumilamaram	Verbenaceae	Root	throat pain. Juice of root bark is taken internally to cure diabetes.
167.	Grewia tiliafolia Vahl. Thadasu maram	Tiliaceae	Bark	The decoction of bark is apply all over the head before taking to treat montal illness mental illness.
168.	Gymnema elegans Wight Arn. Venkurinja	Asclepiadaceae	Leaves	Juice applied an eye to reduce irritation.
169.	Gyrnnema sylvestre R.Br. Sirukurinchan	Asclepiadaceae	Leaves	Leaf power is mixed with cow's milk and taken orally to treat diabetes.
170.	Habenaria longicornu Lindl.	Orchidaceae	Root tuber	Tubes stored is honey for 5 more days and then eaten for
171.	Pullukilangu Helianlthus annuns L. Sagring conthi	Asteraceae	Seed	nine days to cure nervous problem The preparation oil from seed is taken to reduce cholesterol.
172.	Sooriya ganthi Helicteres isora L. Valampuri	Sterculaceae	Fruit	The fruit is boiled with gingelly oil, cooled and then the filtered (2 to 3 drops) is poured into the ear for odalgesic
173.	Heliotropium indicum L. Thelkodukku	Boraginaceae	Leaves	diseases Paste of whole plant is applied topically to teat wounds and skin affections.
174.	Hemidesmus indicus L.	Asclepiadaceae	Whole	Juice extracted from the whole plants is taken Internally to
175.	Nannari Hexapetalum (Roth)Sant.& Wagh.	Caesalpiniaceae	plant Leaves	keep the body cool. Decoction of leaves is taken internally by pregnant women
176.	Kari indu Hibiscus rosasinensis L.	Malvaceae	Leaves	to reduce delivery time pain. Paste of fresh leaves is applied on the hair for healthy and
	Semparuthi		-	black hair

Table	1 contd			
177.	Holarrhena pubescens L. Kutsuppalai	Apocynaceae	Stem bark	One tea spoonful of bark powder is given orally till cure asthma.
178.	Hybanthus enneaspernus F.Muell.	Violaceae	Whole	Paste of whole plant is applied topically to treat cough.
	Orithal Thamarai		plant	1 11 1 7
179.	Hygrophila auriculata (Schum.) Heme.	Acanthaceae	Leaves	Dried leaf powder mixed with castor oil is applied on the
	Neer malli			affected parts to cure skin diseases.
180.	Ichnocarpus frutescens (L.)R.Br.	Apocynaceae	Latex	Latex of the plant is applied topically on painful tumours to
	Udarkodi			reduce pain and retard growth.
181.	Indigofera aspalathoides Vahl.	Fabaceae	Root	The roots soak with coconut oil and they used for chronic
	Shivanar vembu			eczyeme, acute tumour, psociasis root is chewed for
				toothache and abscess.
182.	Ipomea obscura (L.)Ker Gawl.	Convolvulaceae	Leaves	Handful of fresh leaves is crushed and cooked with rice
	Siruthali			(Oryza sativa L.)to add ghee. This cooked food is taken
				orally to cure urinary problems and reduce body heat and
				skin diseases.
183.	Ipomea batatas L.	Convolvulaceae	Leaves	Leaf juice is taken to treat diabetics.
	Sakkarai valli			,
184.	Ixora coccinea L.	Rubiaceae	Flower	The decoction yielded from is used in the treatment of
	Idli poo			dysentery leucorrhoea, dysmenorrhoea, bronchitis.
185.	Jatropha curcas L.	Euphorbiaceae	Bark	Decoction prepared from bark and mixed with water the
	Kattu amanaku	1	& latex	water is used to take bath for the treatment of stomach
				problems.
186.	Jatropha glandulifere Rox.	Euphorbiaceae	Tubers	Tuber boiled and taken to treat diabetics.
	Adalai chedi	1		
187.	Justice simplex D.Don.	Acanthaceae	Leaves	The leaf extract is externally applied in the case of bone
	Odivwatiki			fracture which enhances in fusion and strengthening of
				bones.
188.	Kalanchoe laciniata (L.)Dc.	Crassulaceae	Leaves	Leaf extract applied externally for joint pain.
	Chothuthalai			
189.	Kedrostis foetidissima Cogn.	Cucurbitaceae	Leaves	Five drops of juice given orally to treated common cold in
	Appakovai			children.
190.	Lantana camara L.	Verbenaceae	Flower	A handful of flower is ground with coconut oil and applied
	Unnichedi			topically on the head to get relief.
191.	Lantana whitiana Wall.	Verbenaceae	Leaves	The leaf is ground with Cipadessa baccifera root. Leaf and
	Vella unni chedi			bark and applied topically to treat psoriasis skin disease.
192.	Lawsonia inermis L.	Lythraceae	Leaves	Leaf powder is mixed with coconut oil and applied
	Maruthani			topically to treat cuts and wounds.
193.	Leucas aspera L.	Lamiaceae	Leaves	A bunch of leaves is boiled and the vapour is inhaled to
	Thumbai			cure headache and fever.
194.	Lippia nodiflora Mich.	Verbenaceae	Leaves	Paste of leaves is applied topically to treat swelling and
	Poduthalai			wounds.
195.	Lobelia nicotianaefolia Heyne.	Lobeliaceae	Leaves	Dried powder used as snuff to get rid of cold.
	Kattupugaielai			-
196.	Lobelina heyneama Roem & Schult.	Lobeliaceae	Leaves &	Leaf and flower are mixed with water and the paste is
	Upperi chedi		flower	applied on skin till cure to treat skin diseases.
197.	Madhuca longifolia (Koenig) Macbride.	Sapotaceae	Seed	Pounded seeds mixed with leaf extract of <i>Ocimmum</i>
	Eluppai	-		tenuiflorumace applied on the affected parts to cure leprosy.

Tuble	I contd			
198.	Mangifera indica L.	Anacardiaceae	Leaf &	The latex from leaf and stem bark is used to treat heel
	Maamaram		Stem bark	cracks.
199.	Masselia quadrifolia L.	Marseliaceae	Leaves	Leaves along with Sesamum indicum oil is fried and given
	Aaraikeerai			orally day after day for 15days.
200.	Melia azedaraeh L.	Meliaceae	Flowers	The flowers powdered with cow's milk are used to cure
	Mallay vembu			headache.
201.	Melochia corchorifolia L.	Sterculiaceae	Leaves	Boiled leaf in taken as food to help in free motion.
	Punnakku chedi			
202.	Memecylon umbellattum Burm.F.	Melastomataceae	Leaves	Paste of leaf applied on pimple to disappear.
	Kaya			
203.	Merremia emarginata (Burm.f.) Hall.f.	Convolvulaceae	Whole	Decoction of the whole plant in taken internally to treat
	Elikkadilai		plant	stomach problems.
204.	Menthe arvensis L.	Lamiaceae	Leaves	Leaf extract drank to vomiting.
	Pudinaa			
205.	Mimosa pudica L.	Mimosaceae	Stem bark	Paste of fresh stem bark is applied topically to treat cuts and
	Thottasurungi			wounds.
206.	Mimusops elengi L.	Sapotaceae	Fruit &	The decoction of bark, fruit and seeds are used in tonic,
	Maghizham		Seeds	fever, diarrhea and headache.
207.	Mirabilis jalapa L.	Nyctaginaceae	Leaves	The leaf juice mixed with water which cures jaundice,
	Andhimalli			dysentery, diarrhea and dyspepsia.
208.	Mohonia leschenaultia (wight & arn)	Berberidaceae	Stem bark	Powdered stem bark is boiled with gingelly oil and applied
	Tak.Ex.Gamble.			over the body before bath to treat skin diseases.
	Mullu kadambu			
209.	Mollugo cerviana (L.) Ser.	Aizoaceae	Whole	The paste obtained from twenty grams of whole plant along
	kuthurikkai		plant	with cow's milk is applied externally when bathing to treat
				eye irritation.
210.	Monosdiea charamtia L.	Lucustitaceae	Leaves	Leaves are used for gastroenteritis
	Pavai kai			
211.	Morinda tinctoria Roxb.	Rubiaceae	Leaves	Leaf juice is given orally to children before food for easy
	Nuna			digestion.
212.	Moring oleifera Lam.	Moringaceae	Flower	Flower is taken as food and it gives chillness to eyes and
	Murangai			increases sperm production in man.
213.	Mucuna pruriens L.Dc.	Fabaceae	Seed	The seed is powdered and combined with cow milk which
	Poonai kali			is effective in treating male sterility and nervous diseases.
214.	Murraya koenigii (L.) Sprengel.	Rutaceae	Leaves	Juice of tender leaves is taken orally to arrest vomiting.
	Karuveppilai			
215.	Musa paradisiaca L.	Musaceae	Stem	Stem extract reduces diabetics, to treat kidney stone, reduce
	Vazhai			urinary problems and stem juice applied for fire injury.
216.	Myristica fragrans Houtt.	Myristicaceae	Seed	Seed powder with milk given orally to improve digestion.
	Jathikai			
217.	Nelumbo nucifera Gaerth.	Nymphiaceae	Flower	Flower made to juice and taken orally to and diabetics.
	Alli			
218.	Nerium oleander Sol.	Apocynaceae	Stem bark	Juice prepared from the stem bark is boiled with gingelly
	Arali			oil and two drops are put into ear to treat ear pain.
219.	Nuckia maderaspatana (L.)M.Roemer.	Cucubitaceae	Leaves	Leaf powder is mixed with boiled rice and taken orally to
	Musumukai			treat cold and cough.

Table	1 contd			
220.	Ocimum bassilicum L.	Lamiaceae	Leaves	Leaf juice is used in urinary problems. The leaf juice when
	Thirunetrupachilai			mixed water used in cooling medicine gonorrhoea.
221.	Ocimum sanctum L.	Lamiaceae	Leaves	Leaf juice is taken orally by children to treat indigestion
	Thulasi			cough and cold
222.	Ocimum tenuiflurum L.	Lamiaceae	Leaves	Leaves pound with leaves of vitex negundo and ate fresh
	Naithulasi			juice extracted is administered along with honey 5ml once a
				day for 10days.
223.	Odina wodier Roxb. Fl.	Anacardiaceae	Leaves	Juice of leaves is taken orally to prevent white discharge in
	Uthiyam			women.
224.	Ohlorophylum borivillianum Sant.	Liliaceae	Root	Root are used for the preparation of nutritive tonic used in
	Sathi musali			general sexual weakness.
225.	Oldenlandia umbellata L.	Rubiaceae	Root	The root paste is applied topically to arrest bleeding.
	Siruver			
226.	Opuntia dillenii Haw.	Cactaceae	Fruit	The fruits paste is applied on snake bite and dog bite.
	Sappathickali			
227.	Oryza sativa L.	Poaceae	Fruit &	Roots are pasted with lemon juice are applied externally to
	Nel		Root	treat swellings. The fruits containing rice are edible.
228.	Oxalis corniculata L.	Oxalidaceae	Leaves	Leaf Juice with pepper powder taken to cure stomach pain.
	Puliyarai			
229.	Pandanus amaryllifolius L.	Pandanaceae	Tender	Tender shoots are directly eaten in the case of severe
	Thazham poo		shoot	jaundice & treat jaundice.
230.	Pavetta indica L.	Rubiaceae	Root	The juice prepared from fifteen grams of root is boiled. The
	Pavattai			obtained extract is taken orally 30ml per time for three days
				to cure fever.
231.	Pavonia odorata Willd.	Malvaceae	Root	The extract prepared from 40 grams of root in water is
	Peramutti			boiled in a low flame. This decoction is taken orally for
				twice a day to get relief from fever.
232.	Pedalium murex L.	Pedaliaceae	Leaves	The leaf extract is used against fever.
	Anai nerinjil			
233.	Pergalaria daemia L.	Asclepiadaceae	Leaves	Fresh leaves are boiled are with water and the vapour body
	Veliparuthi			to cure headache.
234.	Phoenix loureirii (Kunth)Var.	Arecaceae	Seed	The powder prepared from twenty five grams of seeds
	Malaieecham.			along with water is taken orally to treat eye diseases.
235.	Phyllanthus amarus Schum& Thnn.	Euphorbiaceae	Leaves	Fresh leaves are ground and mixed with a cup of cow or
	Keezhanelli			goats milk and taken internally to cure jaundice.
236.	Phyllanthus emblica L.	Euphorbiaceae	Fruit	Fruit powder is mixed with cow's or goat's milk and taken
	Nelli			orally to treat cold and cough.
237.	Piper betlc L.	Piperaceae	Leaves	Five drops of juice with honey given orally to children for
	Vetrilai			cough and chewing of leaves for digestion.
238.	Piper Nigruum L.	Piperaceae	Seed	The dried seeds are taken orally to treat throat infection.
	Milagu			
239.	Plectranthus coleoides Benth.	Lamiaceae	Leaves	Juice of leaves is boiled with coconut oil and applied on
	Omavallichedi			head to stimulate hair growth.
240.	Plumbago zeylanica L.	Plumbaginaceae	Root	Powdered root is mixed with goat's milk and taken
	Chithira moolam			internally to cure stomach problems.
241.	$Polyalthia\ longifolia (Sonn.)\ Nettiling am$	Annonaceae	Stem bark	Juice extracted from the fresh stem bark is taken orally to
	Nettilingam			treat indigestion.

Tubie	I contd			
242.	Polycarpaea carymbnosa Lam. Nilaisedaehi	Caryophyllaceae	Leaves	Leaves are used as poultice
243.	Pongamia pinnata (L.)Pierre. Pungamaram	Fabaceae	Root	Root powder is taken orally along with cow's milk to treat scorpion sting and snakebite.
244.	Psidium guejava L.	Myrtaceae	Leaves	The leaves used to treat dysentery and fruit reduce blood
	Koyya			pressure.
245.	Pteris biaurita L.	Pteridaceae	Rhizome	The rhizome is ground into paste and applied over the
	Nandu kuddhi			affected places to get relief from body pain.
246.	Ptersis longipes D.Don.	Pteridaceae	Leaves	Juice taken in sore throat to treat cough and fever.
	Kadavalai			
247.	Pteris vittata L.	Pteridaceae	Whole	The whole plant parts are ground into paste and applied
	Yanai vanaji		plant	over the affected places for wound healing.
248.	Punica granalum L.	Punicaceae	fruit	Unripe fruits unshed with milk taken orally to cure
	Madhuli			dysentery.
249.	Quomoclit pinnata L.	Convotvalaceae	Leaves	The juice of the leaves is used in bleeding piles and
	Mayilmaniaum			abdominal pain.
250.	Randia dumetorum Lamk.	Rubiaceae	Seed &	Fruit are rubbed hard substances and paste is applied
	Kaarai chedi		fruit	topically to cure skin diseases dermatitis.
251.	Ravwolfia tetraphylla L.	Apocynaceae	Whole	Paste of the whole plant is mixed with castor oil and
	Nagamani		plant	applied topically to teat skin diseases.
252.	Rhinacanthus nasutus (L.)Kurz.	Acanthaceae	Leaves	Juice given orally for snakebite.
	Nagamalli			
253.	Ricinus communis L.	Euphorbiaceae	Leaves	The leaf juice is taken orally as well as washed leaves are
	Amanakku			tied on the breast to increase secretion of milk in women.
254.	Rosa indica L.	Rosaceae	Flowers	The eaten to improving and maintaining good skin texture.
	Rosa poo			
255.	Rubia cordifolia L.	Rubiaceae	Root	Root paste is applied topically on heel before going to bed
	Kalutharupanchedi			to cure heel cracks.
256.	Rubus ellipticus Sm.	Rosaceae	Root	The root paste is taken internally to treat paralyzes.
	Vella mulli			
257.	Sanservieria loxburghiana Schult.	Liliaceae	Leaves	Juice of warmed leaf is powder into ear to treat ear pain.
250	Marul	G 1		
258.	Santalum album L.	Santalaceae	Leaves	Leaf extract with cow's milk is taken orally three times a
2.50	Sandhanam			day for four day to get relief from gonorrhoea.
259.	Sapindus emarginatus Vahl.	Sapindaceae	Root	Five gram of root is soaked in 100ml of water and boiled in
	Poonthikottai			a low flame. The boiled extract is taken orally for 50ml
				twice a day for the period of thirty to ninety days to treat
				lungs disease headache and epilepsy.
260.	Sarcostemma acidum Voigt.	Asclepiadaceae	Latex	Three drops with honey taken orally thrice a day for
	Kodikalli			chronic ulcer.
261.	Scoparia dulcis L.	Scrophulariaceae	Leaves	The leaf extract is used to treat respiratory, gastric and
	Sarkkarai vembu	<u>.</u> .		hepatic disturbances diabetes and hypertension.
262.	Scutellaria violaeea Heyne	Lamiaceae	Leaves	Leaf paste applied on cuts and wounds to treat wounds.
	Malainagai			
263.	Secamone emetica R. Br.	Asclepiadaceae	Leaves	Juice with milk orally for fifteen days to treated nervous
	Angaravalli			disorder.

Tuble	1 contd			
264.	Secamone esculentum R.Br. Kolapalai	Asclepiadaceae	Flower	Crushed with water taken internally thrice a day for fifteen days to cure diabetes.
265.	Sesbania aegyptiaca Pers .	Fabaceae	Seed	Tender twig and seeds are infused with coconut oil and
	Malai seetha			applied topically on the hair regularly for healthy and black hair.
266.	Sesbania grandiflora (L.) Poiret.	Fabaceae	leaves	Leaves are ground with the equal amount of leaves of
	Agaththi			similar zoyeanica and applied externally on the cuts once a
	-			fill cure wound.
267.	Sida acuta Burn.	Malvaceae	Leaves	Leaf paste is applied topically to heel cuts wounds and to
	Arrival mania poondu			get relief from headache.
268.	Sida thombifolia L.	Malvaceae	Root &	Root is used to cure rheumatism. The crushed.
	Chitramutti		fruit	
269.	Solanum erianthum D.Don.	Solanaceae	Fruit	The ripened fruits are boiled with water and the vapour is
	Malai sundai			inhaled once or twice a week through mouth to cure
				toothache.
270.	Solanum lycopersicum L.	Solanaceae	Fruit	The fruit eaten for low urinary symptoms.
270.	Thakkali	Solumeeue	11011	The fruit energies for arming symptoms.
271.	Solanum susattronse Burm.F.	Solanaceae	Fruit	Fresh or dried fruits are kept in fire and the smoke is
	Kandan kathiri			inhaled with mouth to treat toothache.
272.	Solanum melongena L.	Solanaceae	Fruit	Eating brinjal is a effective may of maintaining blood
	Kathiri			cholesterol levels and treats enlarged spleen caused due to
				malaria avoid eating brinjal during pregnancy.
273.	Solanum nigrum L.	Solanaceae	Whole	Whole plant parts are taken as food to treat cough.
	Manathakkali		plant	
274.	Solanum torvum L.	Solanaceae	Leaves	Decoction of leaves is given internally to treat stomachache
	Sundaikai			,
275.	Solanum trilobatum L.	Solanaceae	Leaves	The leaf juice is taken orally to treat cough itching and
	Thoodhuvalai			asthma.
276.	Sonchus oleraceus L.	Asteraceae	Leaves	Leaves are ground with the equal amount of leaves of
	Kaalaadi pachilai			similar zoyeanica and applied externally on the cuts once a
				fill cure wound.
277.	Spermacoce hispid L.	Rubiaceae	Seed	Seeds are crushed into paste and taken orally to treat
	Nathaichuri			stomach problems.
278.	Sphaeranthns indicus L.	Asteraceae	Seed,	Leaf flower and seed are ground into paste and applied
	Kottaikkarantai		leaves &	topically to treat skin diseases and piles.
			flower	
279.	Spilanlhes calva Dc.	Asteraceae	Leaves	Chewed to cure tooth ache.
۵17.	Kattpudu	Asteraceae	Leaves	chewed to cure toom defic.
280.	Spilanthes acmella Murr.	Asteraceae	Flower	Flower are crushed & applied on the site of tooth ache.
200.	Manjal poo chedi	Asteraceae	1 10 WC1	Trower are crushed & applied on the site of toom ache.
281.	Spondias pinnata (L.f.)kurz.	Anacardiaceae	Leaves	Leaf juice is used for ear ache.
201.	Mambulichi	macarulaceae	Leaves	Deat Julee is used for car ache.
282.	Stachytarpheta jamaicensis Vahl.	Verbenaceae	Stem &	Paste of stem and root bark is applied topically to treat
202.	Seemai nayuruvi	v ci uciiaceae	root bark	dysentery.
283.	•	Moraceae	Leaf	Leaf paste is applied topically to treat measles like
203.	Strobulus asper Lour.	MOTACEAE	LEai	
	Kembara			swellings on the skin. Contd Table 1

Tuble	I contd			
284.	Strychnos potatorum L. Thetram kottai	Loganiaceae	Fruit	Five grams of dry fruits are consumed once in a day to cure vomiting and dysentery.
285.	Stryehnis nux-vomica L. Yetti	Loganiaceae	Stem bark	The paste of stem bark is applied on the abdomen to cure stomach ache.
286.	Syzygium cumini (L.) Skeels.	Myrtaceae	Stem bark	Paste of stem is applied topically to treat swellings the ripe
200.	Naval maram	111/11/11/11	our our	fresh fruits are taken orally to reduce body heat.
287.	Tamarindus indica L.	Caesalpiniaccae	Fruit	Dried fruits are taken orally to treat eye infections.
	Puliyamaram			
288.	Tarenna ariatica (L.)Alston.	Rubiaceae	Fruit	Juice applied on the eyelids to arrest infection
	Velichi			
289.	Tephrosia purpurea (L.)Pers.	Fabaceae	Whole	The whole plant has been claimed to cure diseases of
	Kolinchi		plant	kidney, liver, spleen, heart and blood.
290.	Terminalia arjuna Roxb. Ex DC Wight &	Combretaceae	Fruit	Fruit paste is applied topically on wounds bark powder is
	Arn.			boiled with water and inhaled to cure headache to kill
	Marutha maram, arjuna maram			warms in teeth.
291.	Terminalia bellerica (Gaertn) Roxb.	Combretaceae	seeds	Paste prepared from seeds and mixed with coconut oil is
	Tanrikkai			applied twice a day against rash.
292.	Terminalia chebula Retz.	Combretaceae	Fruit	Powdered fruit is mixed with water or cow's or goat's milk
	Kadukkai maram			and taken internally to treat skin diseases.
293.	Theriophonum Fischeri M.sivadasan.	Araceae	Tuber	Boiled tuber eaten for body pain.
	Puchandikilangu			
294.	Thespesia populaea Cav.	Malvaceae	Stem bark	The stem bark and root decoction used in dysentery cholera
	Poovarasan		& Root	& heamorrhoids.
295.	Tinospora cordifolia Mias.	Menispermaceae	Leaves	Leaf paste is applied topically to treat wounds.
	Seendil			
296.	Toddalia asiatica (L.) Lam.	Rutaceae	Leaves	Decoction of leaves is given internally to treat
	Kindu mullu			stomachache.
297.	Trianthema decandra L.	Aizoaceae	Root	The root of this plant is taken internally to treat elephant
	Sachicharanai			dialysis elephantiasis.
298.	Trianthema portulacastrum L.	Aizoaceae	Root	Decoction of roots is taken internally to treat constipation
	Saaranai			and asthma.
299.	Tribulus terrestris L.	Zygophyllaceae	Fruit	The fruit is mixed with foiled law since taken orally to
	Nerunchi mul			prevent white discharge in women and to treat urinary
				troubles
300.	Trichidesma indicum R.Br.	Boraginaceae	Whole	The whole plant is used as emollient and diuretic the root
	Kazhutha thumbai		plant	were used in the treatment of dysentery, cough, cold, fever
201	Til de la Di	C 1'	3371 1	and joint pain.
301.	Trichosanthues lobata Roxb.	Cucurbitaceae	Whole	Whole plant paste is applied once a day for one year on the
202	Peppudal		plant	affected parts to cure leprosy.
302.	Trichosanthes anguina L.	Cucurbitaceae	Leaves	Five drops of juice given orally to treated common cold in
	Pudalangai			children.
303.	Tridax procumbens L.	Asteraceae	Leaves	Leaf paste is applied topically on cuts and wounds.
	Vettukaya pundu			
304.	Trigonella foenum-graecum L.	Fabaceae	Seed	Seed soaked in water used to treat diabetics and body heat.
	Vendhyem			Contd Table 1

Table 1 contd....

305.	Tylophora indica (Burm.f.)Merr.	Asclepiadaceae	Leaves	Paste of leaf and root is mixed with equal amount of root
	Nangilai/Asthuma kodi		& root	paste applied externally on the spot of snakebite to cure snakebite.
306.	Tylophora zeylanica Deene. Palaikeerai	Asclepiadaceae	Leaves	Leaf powder taken as snuff to cure respiratory troubles.
307.	Vernonia cinerea (L.)Less. Neisattikeerai	Asteraceae	Root	Spoonful of root decoction mixed with 2 black pepper fruits is given once a day for 6days to cure malaria.
308.	Vicica faba L. Beans	Fabaceae	Leaves	Leaf juice is used in urinary problems. The leaf juice when mixed water used in cooling medicine gonorrhoea.
309.	Vigna unguiculata L. Karamani	Fabaceae	Seed	Eating boiled seed is a effective may of maintaining blood cholesterol levels and treats enlarged spleen caused due to malaria.
310.	Vetiveria zizamioides Nash. Vettiver	Poaceae	Rhizome	Decoction of the rhizome is taken internally to treat blood pressure and stomach ache problems.
311.	Vitex negundo L. Notchi	Verbenaceae	Leaves	Fresh leaves are boiled with water and the vapour is inhaled twice a day.
312.	Wattakaka volubilis Cooke. Kurijan	Asclepiadaceae	Leaves	Leaf past is applied topically to treat rheumatic pain cough fever and severe cold.
313.	Wedelia chinensis (osbeck) Merrill. Manjalkarisalanganni.	Asteraceae	Whole plant	The seeds, flowers, as well as the leaves are used in decoction, in the menorrhagia, leaves are used in dyeing grey hair in promoting the growth of hair.
314.	Wedlandia tincttoria DC. Kattumanjanathi	Rubiaceae	Leaves	Leaf juice is given orally to children before food for easy digestion.
315.	Wilhania somnifera (L.) Dunal. Ashwagantha/Amukra	Solanaceae	Leaves	The leaf also used as a cure for several illnesses including tumors, inflammations conjunctivitis and tuberculosis.
316.	Croton sparsiflorus Morang. Sinatha mani chedi	Euphorbiaceae	Latex	Paste is prepared from leaves and it is administered orally to treat leveorrhoea.
317.	Wrightia tinctaria (Roxb.) R.Br. Veppalai	Apocynaceae	Seed	Juice of seeds taken orally to treat indigestion and leaves boiled with coconut oil to cure sudden falling of hats.
318.	Zingiber officinale Roscoe. Inchi	Zingiberaceae	Ginger	Dried ginger is boiled with plam sugar candy and is internally useful in the case of chronic cough and cold.
319.	Ziziphus oenoplia Mill. Churipala chedi	Rhamnaceae	Fruit & bark	Bark and fruit paste along with cumin is taken internally to treat diarrhea.
320.	Ziziphus xylopyrus Willd. Mullukottai	Rhamnaceae	Fruit	Fruit powder with milk orally for five days to treat diabetes.
321.	Ziziphus mauritiana Lam . Ilandhai	Rhamnaceae	Leaves & bark	Leaf and bark decoction is boiled and it is used to take bath to treat severe body pain. Dried bark powder is applied topically to treat wounds.

Bombacaceae-1, Braceaceae-1, Buddlejaceae-1, Apiaceae-3, Papillionoceae-2, Cappadidaceae-2, Guttiferaceae-2, Musaceae-2, Violaceae-2, Capparaceae-3, Sapindaceae-4, Lecythidaceae-1, Caricaceae-1, Boraginaceae-2, Celastrcaceae-1, Menispermaceae-3, Vitaceae-1, Ranunculaceae-1, Tiliaceae-2, Amarylliaceae-2, Cyperaceae-1, Gesnesiaceae-1, Dioscoreaceae-1, Caryophyllaceae-2, Gentianaceae-2, Erythroxylaceae-1, Myrtaceae-5, Orchidaceae-2,

Convolvulaceae-5, Moraceae-5, Bixaceae-1, Sterculaceae-2, Lobeliaceae-2, Sapotaceae-2, Marseliaceae-1, Melastomataceae-1, Berberidaceae-1, Aizoaceae-3, Lucustitaceae-1, Moringaceae-1, Pandanaceae-1, Pedaliaceae-1, Piperaceae-2, Plumbaginaceae-1, Punicaceae-1, Rosaceae-2, Santalaceae-1, Scrophulariaceae-1, Loganiaceae-2, Combretaceae-3, Zygophyllaceae-1, Rhamnaceae-3. These medicinally important plants were categorized in to five types

which were herbs, shrubs, climbers, small tree and large trees (Table 1)

These are commonly occurring medicinally important plants used to treat various diseases like cold, fever, cough, diarrhea, dysentery, skin diseases, toothache, indigestion, worm infestations, jaundice, liver diseases and as an antidote for poison and in wound healing. Our selected plants used to various numbers in different illness they were Asthma -6, wound-38, pimples-7, skin diseases-27, stomach pain-21, dental problems-18, snake bite-16, diarrhoea-22, cold-32, indigestion-11, cough-36, for healthy hair growth-13, for resistance power-8, leach bite-2, nervous disorders-8, worms-14, diabetes-11, fire burns-4, dysentery-17, fever-33, jaundice-18, malarial fever-3, heal crack-9, joint pain-19, swelling-24, tuberculosis-3, blood pressure-2, body pain-15, headache-18, urinary infections-12, for improve eye power-7, ulcer-4, white discharge-5, for keep body cool-13, ear ache-9, rheumatism-17, abdominal ulcer-2, dyspepsia-8, for fungal infection-2, leprosy-4, mental disturbance-2, respiratory problems-12, for used as tooth brush-3, lip cracks-4, to help free motion-18,dandruff-12, piles-14, throat pain-11, to reduce cholesterol-1, to reduce delivery time pain-3, to strengthening of bones-2, vomiting-8, to increases sperm production in man-2, dog bite-2, sexual weakness-2, to increase secretion of milk in women-2, for good skin texture-7, lungs disease-6, epilepsy-3, kidney stone-22, clarity of speech for children-1, paralyze-4, used as laxative-2, gonorrhea-14.

This is constant with the other general observation which has been reported earlier in relation to medicinal plant studies by the Indian Traditional System of Medicine like Siddha and Ayurvedha (Kirtikar and Basu, 2001; Gogte, 2000; Anonymous, 1992; Asolkar et al., 1992). The leaves of the plant Phyllanthus niruri is combined with white goat milk and taken with empty stomach in three doses for effective treatment of severe jaundice and liver diseases and it also enhances the appetite (Sankaranarayanan, 2008). In recent research, this plant has gained world wide attention due to its effectiveness against Hepatitis B (Yeh et al., 1993). In the modern research, this plant is found to contain an antiviral activity extended to the human immunodeficiency virus (Qian-Curtrone, 1996). Data collected from the Thiruvannamalai district were compared with available data in other districts of Tamilnadu like Kancheepuram, salem, Tirunelveli and Vilupuram. An interesting observation was that some medicinally important plants such as Achyranthes aspera, W. tinctoria, Mukia maderaspatana, A. indica, Abrus precatorius, H. rosasinensis, Mimosa pudica, B. diffusa and Solanum nigrum were found to be practiced as important medicinal plants in Kancheepuram district for the treatment of various diseases like dog bites, skin diseases, cold, fever, deworming, wounds and hydrocele (Muthu et al., 2006). Apart from this, medicinal plants like E. alsinoides, Helicteres isora and Ocimum basilicum are practised among the Kani tribals of Tirunelveli hills for their medicinal value to treat veneral diseases, fever and cold and also as a hair growth promoter (Ayyanar and Ignacimuthu, 2005). *Adhatoda zeylanica, Vitex negundo, Plectranthus coleoides*, and *Piper nigrum* are the leading species used as remedies against a variety of complaints in Madurai dt (Ignacimuthu *et al.*, 2006).

Conclusion:

The people of in and around area of Thiruvannamalai district, Tamilnadu has been using numerous herbs of therapeutic purpose since time immemorial. Villagers chiefly depend on the herbs for all diseases. They are aware of the plant remedies for common ailments like diarrhoea, jaundice, rheumatism, dyspepsia, asthma, diabetes, dysentery, leprosy, antipyretic, gonorrhoea and skin diseases. They are also very familiar with the antidotes for snake bites and scorpion sting. Pharmacological and clinical traits will help in the confirmation of the efficacy of the report herbs. The use of the reported plant species were collected from the regional people, who use them as tradition. Therefore, it is not advisable to use them without consulting an experienced Siddha medicine practioner. For the benefit of the community the recorded plant species should be taken care of and also steps be taken for conservation as well as cultivation of these plant species.

REFERENCES

Anonymous (1992). *Wealth of India: Raw materials*, Council of Scientific and Industrial Research Publication, NEW DELHI, (India). pp. 591-593.

Asolkar, L.V., Kakkar, K.K. and Chakra, O.J. (1992). Second supplement to glossary of Indian medicinal plants with active principles. Part I (A-K). Publication and Information Division, CSIR, NEW DELHI, INDIA, pp. 205-206.

Ayyanar, M. and Ignacimuthu, S. (2005). Traditional Knowledge of Kani tribals in Kouthalai of Tirunelveli hills, Tamil Nadu, India. *J. Ethnopharmacol.*,**102**: 246–255.

Muthu, Chellaiah, Ayyanar, Muniappan, Raja, Nagappan and Ignacimuthu, Savarimuthu (2006). Medicinal plants used by traditional healers in Kancheepuram District of Tamil Nadu, India. *J. Ethnobiol Ethnomed.*, **2**: 43.

Gamble, J.S. (1935). The Flora of the Presidency of Madras. Adlard & Son Ltd., LONDON.

Gogte, V.M. (2000). Ayurvedic pharmacology and therapeutic uses of medicinal plants (Dravyagunavigyan), First ed. Bharatiya Vidya Bhavan (SPARC), Mumbai Publications. pp. 421-422.

Henry, A.N., Kumari, G.R. and Chitra, V. (1987). *Flora of Tamil Nadu*, India, Series 1: Analysis Botanical Survey of India. Coimbatore: Southern Circle; 1987.

Ignacimuthu, S., Ayyanar, M. and Sankara Sivaraman, K. (2006). Ethnobotanical investigations among tribes in Madurai District of Tamil Nadu (India). *J. Ethnobiol Ethnomed.*, **2**: 25.

Jain, S.K. and Rao, R.R. (1976). *A handbook of field and herbarium methods*. Today and Tomorrow Printers and Publishers, NEW DELHI (INDIA).

Jain, S.K. (1964). The role of botanist in folklore research. *Folklore*, **5**: 145–150.

Joy, P.P., Thomas, J., Mathew, S. and Skaria, B.P. (2001). Medicinal plants. *Tropical orticulture Vol.* 2. (eds. Bose, T.K., Kabir, J., Das, P. and Joy, P.P.). Naya Prokash, Calcutta (W.B.) INDIA, pp. 449-632.

Kirtikar, K.R. and Basu, B.D. (2001). *Indian medicinal plants*, Vol. 1. Lalit Mohan Basu, Allahabad, India, pp. 35-45.

Matthew, K.M. (1983). *The Flora of the Tamil Nadu Carnatic*. The Rapinat Herbarium, St Joseph's College, Tiruchirapalli, (T.N.) INDIA.

Qian-Cutrone, J. (1996). Niruriside, a new HIV REV/RRE binding inhibitor from Phyllanthus niruri. *J. Nat. Prod.*, **59**: 96-199.

Sanjappa, M. (2005). Plant diversity in India—status, conservation and challenges (P. Maheshwari Medal Award Lecture). In: XXVIII, Conference of Indian Bot. Soc., Oct., 24(26): 5-6.

Sankaranarayanan, S. (2008). Medical taxonomy of angiosperms: Recent trends in medicinal uses and chemical constituents. 1st ed. Harishi Puplication. India pp. 741-742.

Yeh, S.F., Hong, C.Y., Huang, Y.L., Liu, T.Y., Choo, K.B. and Chou, C.K. (1993). Effect of an extract from *Phyllanthus amarus* on Hepatitis B surface antigen gene expression in human hepatoma cells. *Antiviral Res.*, **20**: 185-192.

