

ISSN: 2230-9926

Available online at http://www.journalijdr.com



International Journal of Development Research Vol. 08, Issue, 12, pp.24486-24493, December, 2018



ORIGINAL RESEARCH ARTICLE

OPEN ACCESS

AN ETHNO-BOTANICAL SURVEY OF MEDICINAL PLANTS IN MOOLAIKARAIPATTI, TIRUNELVELI DISTRICT, TAMILNADU, INDIA

*1Pholtan Rajeev, S. R., 1Pooja, K., 1Sakthi, G., 1Siva, M., 2Chenthamaraiselvi, G. and 3Thiruthani, M.

¹PG Scholars, Department of Toxicology, Govt. Siddha Medical College, Palayamkottai ²Lecturer, Department of Toxicology, Govt. Siddha Medical College, Palayamkottai ³Head of the Department, Department of Toxicology, Govt. Siddha Medical College, Palayamkottai

ARTICLE INFO

Article History:

Received 06th September, 2018 Received in revised form 03rd October, 2018 Accepted 19th November, 2018 Published online 26th December, 2018

KeyWords:

Medicinal plants, Traditional practitioner.

ABSTRACT

An Ethno-botanical survey was carried out to record information on medicinal plants from native healers and public from Moolaikaraipatti. This study was field visit and identified existent medicinal plants used for treating diseases in various ways. Main informers are area common public and their data confirmed by traditional practitioner with direct interview conversation. This survey identified and recorded 249 plants from 27 families, used to treating diseases in Moolaikaraipatti area. The Fabaceae family plants were most represented while medicinal used collections. Most of medicinal plants are harvested from wild and bare area commonly (52.7%). A most of the number of the plants species are used for treating different diseases in Moolaikaraipatti area, Tirunelveli district. The conventional ethno medicinal plants were mostly used for fever, skin diseases, poisonous bite, wounds, and rheumatism.

Copyright © 2018, Pholtan Rajeev et al. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Citation: Pholtan Rajeev, S. R., Pooja, K., Sakthi, G., Siva, M., Chenthamarai Selvi, G. and Thiruthani, M. 2018. "An ethno-botanical survey of medicinal plants in Moolaikaraipatti, Tirunelveli District, Tamilnadu, India", *International Journal of Development Research*, 8, (12), 24486-24493.

INTRODUCTION

An ethno-botanical study of medicinal plants was carried out in Moolaikaraipattiarea, Tirunelveli in India2017 December to 2018 February with the help of traditional healers. The indigenous knowledge of local traditional healers and herbal medicine collectors of the native plants used for medicinal purposes were collected through personal interviews during field trips. The investigation survey revealed that, the traditional healers used 249 species of plant used to cure skin disease, poisonous bites, cough and swelling. In this study the most dominant family was Fabaceae. This study showed that many people in the studied parts of Tirunelveli district still continue to depend on medicinal plants least for the treatment of primary health care. The traditional healers are dwindling in number and there is grave danger of traditional knowledge disappearing soon since the younger generation is not interested to carry on this tradition.

Background: Plants have been used in traditional medicine for several thousand years.

*Corresponding author: Pholtan Rajeev, S. R.,

PG Scholars, Department of Toxicology, Govt. Siddha Medical College, Palayamkottai

The knowledge of medical plants has been accumulated in the course of many centuries based on different Indian medical system such as Ayurveda, Unani and Siddha. During the last decades there has been an increasing interest in the study of medical plants and their traditional use in different parts of the world. Documenting the indigenous knowledge through ethnobotanical studies is important for the conservation and utilization of biological resources. The acceptance and use of herbal medicine is on the increase globally. In country situation is not different, over 80 % of the population particularly in the developing countries depends directly on plants for their primary healthcare requirement. Plants form an important part of health care especially for the rural poor in Moolaikaraipatti. The noted increased use of herbal medicine is as a result of the confirmed therapeutic evidence of the herbal remedies. This has been enhanced by the consequences of limited access to modern health services in most developing countries including India, high cost of modern medicine compared to the indigenous herbal medicines, wide sociocultural acceptance of traditional medicine and the belief that natural products pose no risk. The increased preference of herbal medicine has consequently propelled the search for pharmaceutical remedies against different ailments from

plants. The medicines are collected from the wild and this has negatively impacted on the plant resource due to unsustainable exploitation rates as well as the health of many people who cannot afford orthodox medicine. This makes documentation, sustainable utilization as well as conservation essential. The first step in conservation is to document material traditionally used to treat an ailment. Previous studies have identified and documented numerous medicinal plants for treatment of various diseases in Moolaikaraipatti however these have been targeting specific ailments and are not detailed in shared use. A larger number of medicinal plants and indigenous uses have not yet been documented. The rich history of African cultures and their innovative utilization of plants as a source of remedies have been passed down through generations largely by oral tradition. This knowledge is gradually being lost as the custodians die before passing on information to the younger generations. Besides the gradual loss of ethno-botanical knowledge due to lack of documentation, overharvesting of medicinal materials from their natural habitat has been one of the major threats of traditional medicine.

It will also facilitate the discovery of new sources of drugs and promote sustainable use of medicinal plant resources in Moolaikaraipatti. In addition conservation of medicinal plants will add value to the recreational environment as well as health improvement through sustained ecosystems. This study aimed at collecting data on plant species used to treat different health conditions and prevent this plant source.

MATERIALS AND METHODS

Study area: Moolaikaraipattiis located on South East direction of Tirunelveli District. (Figures) this is the one of boarder of Tirunelveli District from Thuthukudi District. Moolaikaraipatti is 35km from Palayamkottaitown and Town and Country Plan developing area. This area fully occupied by farming and Wood cutters commonly. This rural area is filled Poor community people. In several villages as our survey we got famous traditional practitioners were they are regularly practicing aid of their knowledge on Siddha medicines and traditional knowledge with use of local plant resources

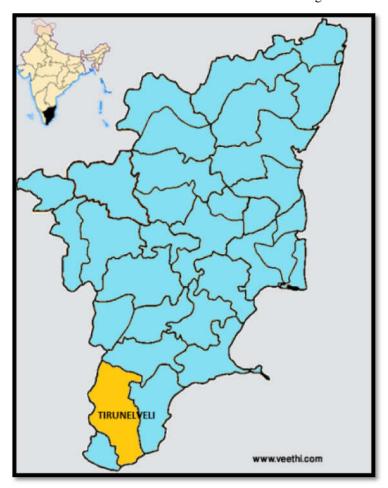


Fig. 1. Location Map of Tirunelveli map Tamil Nadu, India

In order to conserve wild plant species, there is need for reliable data on their distribution and level of use. The documentation of indigenous knowledge through ethnobotanical studies is important in conservation and utilization of biological resources. The identification of local names, scientific names and indigenous uses of plants not only preserves indigenous knowledge but also facilitates future research on safety and efficacy of medicinal plants in treatment of various ailments. This will ensure that traditional knowledge about use of these plants is conserved.

Interviewed information on the use of medicinal plants were recorded.

Data Collection

Survey: In order to assess the consumption of indigenous medicinal plants, survey was carried out during the year, 2018 in the areas of Moolaikaraipatti, Tirunelveli district in TamilNadu, India. To get maximum information the survey was widened diagonally during the following rainy season. Moolaikaraipatti, Tirunelveli have so many famous Traditional Medical Practitioners in twenty years ago.

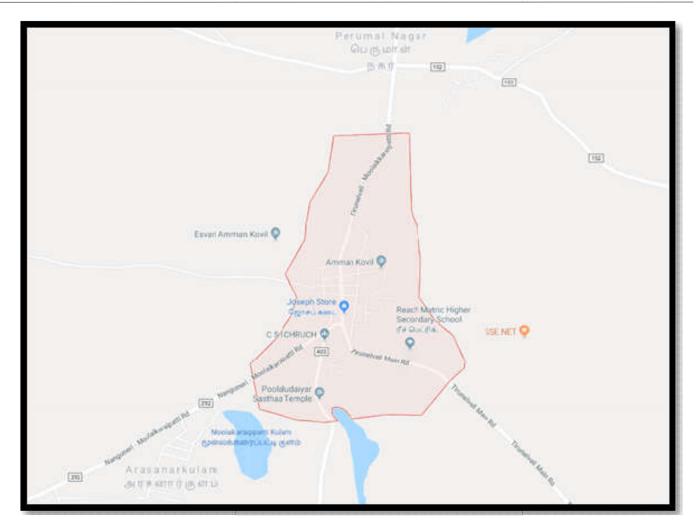


Fig. 2. Location Map of Moolaikaraipatti, Tirunelveli District, Northern Province (India)

Their families and generations are displaced to other station for various reasons therefore Traditional Medical Practitioners (TMP's) generations were the main informants in the survey. The information on medicinal uses of the indigenous plants has been described after gathering it from local people, experienced aged rural folk, traditional herbal medicine practitioners, local herbal drug sellers and the information collected from the available literature. A total of 38 inhabitants were interviewed. Randomly people were selected of which 21 men and 17 women of age 35 and above were interviewed in their local language, that is, Tamil. In addition, direct plant observation and identification was done with the help of local healers known as 'NaatuVaidyar'. Author also as a Doctor and have enough knowledge about medicinal plants in India. Plants recorded in the results were mentioned by at least two TMP's as treating the same disease in order to confirm its use.

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 interviewers.

RESULTS

The recorded Information only18Plants Species, used commonly as remedies for various diseases are listed with their Family and Local Ecological status in the Moolaikaraipatti, Tirunelveli District. And identified

medicinal plants countered 249 as cultivated also included (Table:2) followed by their habitat. The Plant part used, Local distribution, ecological status all are enumerated below only some plants (Table: 1)

DISCUSSION

This Study revealed a considerable medicinal plant diversity of Moolaikaraipatti, Tirunelveli district. Data were compared with the available literature of different regions of Indiaon medicinal plants and was found that many of these are not recorded earlier. In Indian ethnobotanical studies on medicinal plants were conducted earlier in other districts. However, in Moolaikaraipatti, Tirunelveli district, No detailed studies on ethno medicine have been conducted. The formulation and standardization of these effective phyto-medicines should be encouraged for their sustainable uses and preservation of endangered species of this area. The data accrued is expected to useful for the development of the herbal drug industries to improve tribal and rural economy of Moolaikaraipatti, Tirunelveli district. The plants which are accrued are to be used single or combination with others. Some information pertaining to particular remedy from different localities or groups of informants reflects the accuracy and authenticity of the medicines on the phyto-chemistry. The Data from the Traditional practitioners will helpful further for the Scientific assessment of these medicines on phyto-chemistry, Biological activity and clinical studies are, however necessary. This may provide a lead in the development of drugs to be used in modern system of medicine.

Table 1. Details of Medicinal plants in Moolaikaraipatti, Tirunelveli Dist

No.	Family	No.	Scientific name	Vernacular name	Habit	Actions	Method of preparation and medicinal uses
		1	Barleria mysorensis Roth.	T. Ikkiri	Н	expectorant stimulant	The whole plant and leaves are used cough cure.
				T. Adathodai		Antispasmodic	Decoction of leaves mix with honey and given for cough and fever.
			Adathoda vasica Nees.	E. Malabar nut		Expectorant	
		2			S	Germicide	
	Acanthaceae					Diuretic	
		-		T. Neermulli		Leaves-demulcent	-
		3	Hydrophila spinosa t Ander		Н		A decoction of the root is a diuretic and administered for stones in the kidney.
				E. Long leaved baleria		Diuretic	
						Flower & root- Refrigerant	
						Diuretic	
						Demulcent	
1						Tonic	
						Seeds- Diuretic	
						Aphrodisiac	
				T. Krishna adatoda/	- S	Diuretic	The root of the plant is boiled in milk and given as a remedy for rheumatism, fever, jaundice and
		1	Justicia gendaarusa	Neernochchi		Diulette	
		4	Burm.f.	E. Willow- Leaved justicia		Diaphoretic	
				·	1	Bark – Emetic	diarrhoea.
			Barleria prionitis Linn.	T. Semmulli	S		The juice of leaves is applied to feet to prevent maceration and cracking.
		5				Whole plant stimulant	
				E. Porcupine flower		Whole plant sumulait	
			Perstrophebicalycula				- C
		6	taNees.	T. Kattunilavemb	S	Anti pyretic	Decoction given for fever.
				T.Saranai	Н		Root decoction used to diuretic especially in hypertension patient.
		7	Trianthema portulacastrum Linn.			Root diuretic	
		1		E.Horse purslanes		Root diurene	
2	Aizoaceae		Mollugo Pentaphylla Linn.	T.Kattupatpadagam	Н	Stomachic Antiseptic	An infusion of the plant is given to women to promote menstrual discharge.
		8					
				E. Wild Indian chickweed			
		9 Achyranthe Linn.		T.Nayuruvi	Н	Astringent	Leaves paste used for some poisonous bites.
			Achyranthes aspera	pera E.Prickly cuff flower		Diuretic	
						Alterative	
						Antiperiodic	
		10		T.Sirupeelai	Н	Diuretic	A decoction of the plant is a reputed diuretic and considered of great value in lithiasis. Used for some eye disease
	Amaranthaceae		Aerva lanata(Linn.)	•			
			Juss	E.Common way side weed		Lithontriptic	
			Alteranther asessiis	T.Ponnangani		Alterative	
3			Linn.	E.sessil joy weed	Н	Cooling	
			Amaranthus spnosus	T.Mullukeerai		Demulcent	Paste apply over the swelling and
		12	Linn.	E.Prickly amaranth	Н	Stomachic	tumors to reduce
		13	Celosia argentea Linn.	T.Pannankeerai	nnankeerai	Astringent	Powder of seeds given with milk
				E.Silver cocks comb		Demulcent	
				E.SHVCI COCKS COIIIO		Laxative to reduce cough.	to reduce cough.
		14	Amaranthu viridis Linn.	T.Mulaikeerai	Н	Stomachic	Cooked leaves eaten for increase appetites.
				E.Green amarath		Febrifuge	
				T.Kottaimunthiri		Fruit- Diuretic	
		15	Anacardium occidentale Linn.		TR		Fruits are Increase spermatogenesis
				E.Cashew nut		Stimulant	
						Seeds-Tonic	
						Aphrodisiac	
						Bark-Astringent	
		16	Odinawodier Roxb	T.Othi	TR	Astringent	Decoction of barks used for wash wounds.
4				E.Woider		Tonic	
4						Disinfectant	
						Styptic	
		17	Mangiferaindica Linn.	T.Maa		Fruit- Laxative	Ash of leaves mix with ghee and apply over the burns.
				E.Mango tree	TR	Diuretic	
						Tonic	
						Bark- Astringent	
					1	Tonic	1
		1		T.Annamunna		- 5	The seeds, crushed into a paste
5	Annonaceae	18	Annona squamosa	E.Sugar apple	TR	Vermicide insecticidal	with water, are applied to the
-	1 minorial cat	10	Linn.	E.Riber ebony	110	. Similar moodicidal	scalp to destroy lice.
	I	1	L	E.KIUCI CUUIIY	1	1	scarp to desirely fice.

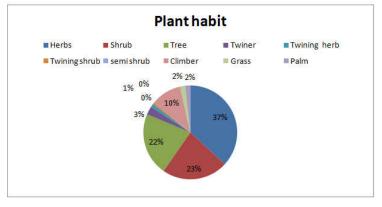


Chart 1. Plant habit

Table 2. Local status of Medicinal plants (wild& cultivated) in Moolaikaraipatti, Tirunelveli Dist

No.	Tamil Name	Botanical Name
1	Aavarai	Cassia auriculata.
2 3	Adathodai	Justicia adatoda. Aristolochiabracteolata.
4	Adutheenadapalai Agatti	Sesbaniagarandiflora.
5	Akasagarudan	Corallocarpusepigaeus.
6	Akasathamarai	Pistiastratiotes.
7 8	Alamaram Alari	Ficusbenghalensis.
9	Alli	Neriumodorum. Nymphaeanouchali.
10	Al–vallikuzhang	Manihotesculenta.
11	Amanakku	Ricinuscommunis.
12 13	Ammaiyarkoondal Ammanpachcharisi	Curcutareflexa. Euphorbia pilurifera.
14	Anai – katrazhai	Agave Americana.
15	Anaikuntri	Adenantherapavonina.
16	Annasipazham	Ananascomosus.
17 18	Anthimalli Araikirai	Mirabilis jalapa. Marsileaquadrifilia.
19	Arasu	Ficus religiosa.
20	Arathai	Alpiniagalanga.
21 22	Arivalmookkupatchilai	Sidaacuta.
23	Arugu Arukirai	Cynodondactylon. Amarantustristis.
24	Arunelli	Phyllanthusacidus.
25	Athondai	Cappariszeylanica.
26 27	Atti Attunetti	Ficusrecemosa. Neptuniaoleracea.
28	Attuthumatti	Citrulluscolocynthis.
29	Avarai	Lablab purpureus.
30	Avuri	Inidgoferatinctoria.
31 32	Ayil Azhavanam	Chukarasiatabularis. Lawsoniainermis.
33	Azhinjil	Alangiumsalvifolium.
34	Charanai	Trianthemadecandra
35 36	Chavukkumaram	Casuarinaequisetifolia.
30 37	Chembai Chemparuthi	Sesbaniasesban. Gossypium arboretum.
38	Chemparuththi	Hibiscus rosa-sinensis.
39	Chemparuththi	Gossypium arboretum.
40 41	Chengadugu Cheppu – nerunjil	Brassica juncea. Indigoferaenneaphylla.
42	Chirupelai	Aervalanata.
43	Chirupeyathi	Ficushispida.
44 45	Chitramutti	Pavoniazeylanica.
46	Chundai Churai	Solanumtorvum. Lagenariasiceraria.
47	Echchuramooli	Aristolochiaindica.
48	Eechu (Sitrechu)	Phoenix sylvestris.
49 50	Elikkadilai Eliyamankku	Merremiaemarginata. Jatrophacurcas.
50 51	Ellu	Sesamsumindicum.
52	Elumichai	Citrus lemon.
53	Elumichanthulasi	Ocimumgratissimum.
54 55	Erukku Etti	Calotropisgigantea. Strychnosnux-vomica.
56	Ezhathalair	Plumeriarubra.
57	Ezhilapalai	Alstoniascholaris.
58 59	Gopuramtargi Ilandamaram	Andrographisechiodes
59 60	Ilandamaram Ilavamaram	Ziziphusmauritinaia. Bombaxceiba.
61	Iluppai	Madhucalongifolia.
62	Impural	Oldenlandiaumbellata.
63 64	Inji Iruvi	Zingiberofficinale. Dryopterisfelizmas.
65	Isangu	Clerodendurminerme.
66	Iththi	Ficusmicrocarpa.
67	Iyvirali Vaababalkadi	Diplocyclospalmatus.
68 69	Kachchalkodi Kadalazhinjil	Cocculushirsutus Diels. Salaciareticulata.
70	Kadambu	Anthocephaluscadamba.
71	Kadaranaraththai	Citrus medica.
72 73	Kai-vallikkodi	Dioscoreaalata Clitoriatornataa
73 74	Kakkanam Kakkarikkay	Clitoriaternatea Cucumissativus.
75	Kala	Crissacarandar
76	Kala	Carissa carandas

77	Kalen	Agaricuscampestris
78	Kalippakku	Areca catechu
79	Kaliyanamurukku	Erythrinavariegata.
80	Kaliyanapushnikay	Benincasahispida.
81		
	Kallapaikizhangu	Gloriussuperba.
82	Kalli	Euphorbia ligularia
83	Kamuku	Areca catechu.
84	Kanamvazhai	Commelinabenghalensis
85	Kanap – pundu	Exacumpedunculatum.
86	Kandangkattari	Solanumsurattense.
87	Kariabolam	Aloe littoralis
88	Karisalankanni	Ecliptaprostrata.
89	Kari-vembu	Murrayakoenigi
90	Karpuravalli	Anisochiluscarnosus.
91	Kartamarai	Smilax zeylanica
92	Karumbu	Saccharumofficinarum.
93	Karunaithandu	Amarphophalluspaeonicfolis.
94	Karungali	Diospyrusebanum
95	Kaththari	Solanummelongena.
96	Katrazhai	Aloe barbadensis
97	Kattamnakku	Jatrophacurcas
98	Kattatti	Bauhinia tomentosa
99	Kattuellu	Sesamumprostratum
100	Kattuelumichchai	Atalantiamalabarica
101	Kattukadalai	Osbekiasettla
102	Kattukadugu	Cleome viscose
102		Blumealacera
	Kattumullangi	
104	KattuPagal	Momoridicadioica
105	Kattupeipudal	Trichosantheslobata
106	Kattuulunthu	Cassia uniflorus
107	KattuVengayam	Urgineaindica
108	Kattukodi	Cocculusindicus
109	Kavizhthumbai	Trichodesmaindicum.
110	Kazharchikodi	Caesalpiniabonduc
111	Kazhu-nir	Nymphaea alba
112		Crotalaria retusa
	Kilukiluppai	
113	Kiraikal	Greens
114	Kiraithandu	Amaranthusgangeticus
115	Kitchilikizhangu	Curcuma zeodaria
116	Kitchilipazham	Citrus aurantium
117	Kizhanelli	Phylanthusamarus
118	Kodagasalai	Rungiarepens
119	Kollukkaivelai	Tephorosiapurpurea
120	Konrai-Sarak-Konrai	Cassia fistula
121	Koola	Schleicheraoleosa
122	Korai	Cyperusrotandus
123	Koththavarai	Cyamopsistetragonoloba
124	Kottaikaranthai	Spaeranthusindicus.
125	Kovai	Cocciniagrandis
126	Kudiyottupoondu	Argemonemexicana
127	Kuntri	
		Abrusprecatorius
128	Kuppeimeni	Acalyphaindica
129	Kurattai	Trichosanthestricuspidata
130	Kurinjam	Gymnemasylvestre
131	Kuthukaransammadi	Indigoferaoblongifolia
132	Ma	Mangiferaindica.
133	Magizh	Mimusopselengi.
134	Mallikai	Jasminumgrandiflorum.
135	Manalikirai	
		Gisekiapharnaceoides
136	Manathathakkali	Solanumnigrum.
137	Manjal	Curuma longa.
138	Manjalparuthi	Cochospermumreligiosum
139	Mantharai (red)	Bauhinia purpurea.
140	Marakkarai	Catunaregumspinosa.
141	Maruthu	Terminaliaarjuna.
142	Mathulai	Punicagranatum.
143	Mavilangu	Crateava magna.
144	Methikkeerai	Asystasiagangetica
145	Milakaranai Mudakkattan	Todaliaasiatica.
146	Mudakkattan	Cadiospermumhelicacabum.
147	Mudkorandi	Lepidagathuspungens
148	Mukkirattai	Boerhaviadiffusa.
149	Mungil	Bambusaarundinacea.
150	Munthiri	Anacardiumoccidentale.
151	Murungai	Moringaoleifera.
152	Musumusukkai	Mukiamadraspatana.
153	Nagananda	Dicelptrapaniculata
154	Nagathali	Opuntiadillenii.
155	Nancharuppan	Tylophoraindica.
156	Nannari	Hemidesmusindicus.
157	Naruvili	Cordiadichotoma.

158	Naththichuri	Spermacocehispida.
159	Naval	Syzygiumcumini.
160	Nayuruvi	Achyranthesaspera.
161 162	Neichatti Nel	Vernoniacinerea. Oryza sativa.
163	Nelli	Phyllanthusemblica.
164	Nerunjil	Tribulusterrestris.
165	Nettilingam	Polyalthialongifolia.
166	Nilakkadambu	Asarumeuropaeum.
167 168	Nilakumizh Nirbrahmi	Gmelinaasiatica. Bacopamonnieri.
169	Nirmelneruppu	Ammaniabaccifera.
170	Nirmulli	Hygrophilaauriculata.
171	Nirpola	Phyllanthusmedaruspatana
172	Notchi	Vitexnegundo.
173 174	Nuna Odukkan	Morindatinctoria. Cleistanthuscollinus.
175	Oritazhttamarai	Ionidiumsuffrufiocosum.
176	Pakal	Momorchicacharantia.
177	Pappali	Casica papaya.
178 179	Paruththi	Gossypiumherbaceum.
180	Payaru Peramanakku	Vignamungo. Ricinusinermis.
181	Peramutti	Pavoniaodorata.
182	Perechu	Phonexdactilifera.
183	Perumpuladi	Desmodiumgiganticum
184 185	Peyatti Peyavarai	Ficushispida. Cassia occidentalis.
186	Pirandai	Cissusquadrangularis.
187	Piray	Streblusasper.
188	Poduthalai	Phytanodiflora.
189	Ponnanganni	Alternantherasessils.
190 191	Pudal Puli	Trichosanthescucumesina. Tamarindusindicus.
192	Puliyarai	Oxalis corniculata
193	Pungu	Pongamiapinnata.
194	Puvarasu	Thespesiapopulnea.
195	Rattai - peimarutti	Anosomelesmalabarica.
196 197	Rudrajadai Samanthipoo	Ocimumbasilicum. Chrysanthemum coronarium.
198	Serupulladi	Desmodiumtrifolium
199	SeruPunaikalli	Passiflora
200	Shadhurakalli	Euphorpiaantiquorum
201 202	Sindil Siththa	Tinosporacordifolia. Anonasquamosa.
202	Situtina Sivathia	Anonasquamosa. Operculinaturpethum.
204	Tamaraththam	Avarrhoacarambola.
205	Telkodukku	Heliotropiumindicum.
206	Tengumaram	Cocosnucifera.
207 208	Thaivelai	Gynandropsisgynandra. Cassia tora.
209	Thakarai (Usithakarai) Thamarai	Nelumbonucifera.
210	Thannirvittan	Asparagus racemosus.
211	Thantri	Terminaliabellirica.
212 213	Thazhai	Pandanusodoratissimus.
213	Thazhuthazhai Thekku	Clerodendrumphlomoidis. Tectonagrandis.
215	Thillai	Excoecariaagallocha.
216	Thirakshi	Vitisvinifera.
217	ThottarChinungi	Mimosa pudica.
218 219	Thulasi Thumbai	Ocimum sanctum.
220	Thuththi	Leucasaspera. Abutilon indicum.
221	Thuthuvalai	Solanumtrilobatum.
222	Uka	Salvadorapersica.
223	Umaththai	Datura metal.
224 225	Uppilangodi Uthamakani	Mimosa paniculata. Pergulariadaemia.
223	Uzhundu	Vignamungo.
227	Vadhanarayan	Delonixelata.
228	Vagai	Albizialebbeck.
229	Vandukolli Varikotralai	Cassia alata.
230 231	Varikatralai Vasambu	Sensiveriarotants Acoruscalamus.
232	Vazhai	Musa paradisiaca.
233	Vel	Acacia nilotica.
234	Velai Vellarikai	Cleome viscose.
/ 13	v enarik at	11/21/11/25/11/21/5

Vellarikai

Vellarugu

Venvaadamalligai

Vembu

Cucumissativus.

Enicostemmaaxillare.

Gomphrenacelosioide

Azadirachtaindica.

235

236

239	Vendakai	Abelmoschusesculantus.
240	Vengai	Pterocarpusmarsupium.
241	Vengayam	Aliumcepa.
242	Verkadalai	Arachis hypogea.
243	Vetchi	Ixoracoccia.
244	Vetrilai	Piper betle.
245	Vilamaram	Limoniaacidissima.
246	Vilvam	Aeglemarmeoles.
247	Vinnaku	Pterospermumcanescens
248	Vishamunkil	Crinum asiaticum.
249	Vishnukiranthi	Evolvulusalsinoides.

249 plants with 27family species were found to be the most used plants (Figure 2) followed by Shrubs, Trees, Climbers, Twining herbs, Twining shrubs, Semi shrub, Grass and Palm. The most dominant families in the study were Fabaceae documented. Under Family Labiatae, Cucurbitaceae, Euphorbiaceae, Malvaceae, Acanthaceae, Amaranthaceae, Apocynaceae, Compositae, Liliaceae, Aizoaceae, Rubiaceae, Solanaceae, Asclepiadaceae, Convolvulaceae, Rutaceae, Anacardiaceae, Capparidaceae, Aristolochiaceae, Annonaceae, Combretaceae, Dioscoreaceae, Meliaceae, Menispermaceae, Oxalidaceae, Piperaceae, Zygophyllaceae family plants available in research area.

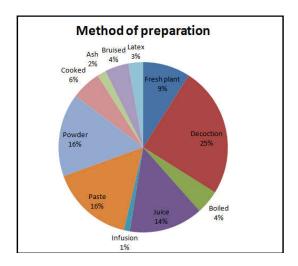


Chart 2. Method of preparation of data plants

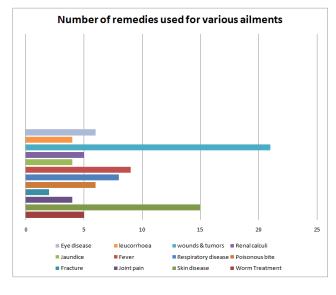


Chart 3. Total number of remedies used for various aliments

It was observed that, most of the remedies consisted of single plant part and more than one method of preparation. However, many of the remedies consisted of different parts of the same plant species to treat single or more diseases. For example, *Cynodondactylon* - This herb soaked in water and mixed with milk and drink for head disease and eye disease. This Juice also use burning sensation of eyes. Moreover, a single plant is used for more than one disease. For example, *Leucaszeylanica* (*Linn.*) *R.Br.*- The pounded leaves are used as a poultice for wounds, sores, itches, headaches and vertigo., *Mimosa pudica Linn.* - The leaves fermentation applies for body pain. Powder of this plant is given for diabetic. Common health problem in the sites of the study area were skin problems such as wounds, cuts, burns, skin disease and Respiratory disease such as asthma and cough. Largest number of the remedies was used to treat these troubles. Several studies have enumerated the plants used for skin disease, wound healing and respiratory disease in various parts of the world.

Conclusion

The survey indicated that, the study area has plenty of medicinal plants to treat a wide spectrum of human ailments. Earlier studies on traditional medicinal plants also revealed that the economically backward local and tribal people of Moolaikaraipatti folk medicine due to low cost and sometimes it is a part of their social life and culture. It is evident from the interviews conducted in within the village; knowledge of medicinal plants is limited to traditional healers, herbalists and elderly persons who are living in Moolaikaraipatti. This study also points out that certain species of medicinal plants are being exploited by the local residents. Who are unaware of the importance of medicinal plants in the ecosystem. This study concluded that even though the accessibility of Western medicine for simple and complicated disease is available, many people in Tirunelveli district is still continue to depend on medicinal plants, at least for the treatment of some simple disease such as, cough, fever, poisonous bites, skin disease, toothache and earache. Well-knowledge healers have good interactions with patients and this would improve the quality of health care delivery system. The present day traditional healers are very old. Due to lack of interest among the younger generation as well as their tendency to migrate to cities for lucrative jobs, there is a possibility of losing this wealth of knowledge in the near future. It thus becomes necessary to acquire and preserve this traditional system of medicine by proper documentation and identification of specimens.

Acknowledgement

We special thanks to Prof. Dr. M. Thiruthani, Head of the Department, Post Graduate Department of Toxicology for

APPENDIX: Medicinal plants:

guidance and grant permission to publication this research work. We are very thankful to the Senior Lecturer Dr. G. Chenthamaraiselvi, Lecturer who providing encouragement for this work. Sincere thanks to lecturers, department of medicinal botany for identification and confirmation of the medicinal plants. We thankful to native people and Traditional practitioners of Moolaikaraipatti, Tirunelveli districts for their kind support during the work.

REFERENCE

Dayanand M. Kannur, Mukta P. Paranjipe Evaluation of *Caesalpinia bonduc* seed coat extract for anti inflammatory and analgesic activity, *Jurnal of advanced pharmaceutical technology & research.*, 2012 Jul-Sep;3(3):171-175.

Jain, N.N. et al. 2003. Clitoria ternate and the CNS. Pharmacol Biochem Behav.

Jayaweera. D. M. A. 2006. Medicinal plants (indigenous and exotic) used in Ceylon, The National Science Foundation, Sri Lanka, part 1, 2, 3, 4 and 5

Jigna, P, Nehal. K, Sumitra, C, 2006. Evaluation of antibacterial activity and phytochemical analysis of *Bauhinia variegate.l* bark, *African Journal of Biomedical Research*, vol.9 2006; 53-56.ISSN 1119-5096 Ibadan Biomedical Communications group.

Pinar K, 2014. *Tamaridus indica* and its health related effects, *Asian pacific journal of Tropical Biomedicine*, Vol.4.

Ragone, Diane/Lorence, David H.2003. Botanical and ethnobatanical inventories of the national park of American Samoa. National tropical Botanical Garden, Kalaheo, Hawaii and pacific cooperative studies unit, Department of Botany, University of Hawaii.

Siddha material medica (Part 1) Dr. k. s. Murugesamuthaliyar, Publication – Indian medicine – homeopathy, Chennai – 600 106

Sivasanmugaraja.S, 2008, *Moolikaiththiravukol*dictionary of medicinal plants, Siddha Medical Development Society 199/1 kilner lane Jaffna.

Vogt. K, 1995. A field guide to the identification, propagation and uses of common trees and shrubs of dryland Sudan, Sossahel international(UK), retrieved on June 22, 2008

https://en.wikipedia.org/wiki/Fabaceae, 02.02.2018 @8.00pm https://www.herbpathy.com/ medicinal plants, 01.02.2018 @8.10pm

https://www.mahaaushadhi.com/Medicinal Value of *plants* 01.02. 2018 @ 8.30pm

https://www.iloveindia.com/herbs, 11.02.2018



Osbekiaselleta Sopubia delphinifolia



Ludwigia polygonoides

Marremia tridentata



Tribulus teristris

Trichodesma indica
