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Research Article

Ethnobotanical Survey of Medicinal Plants in Korampallam Village, Thoothukudi District, Tamil Nadu, India

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ABSTRACT

People have been traditionally using medicinal plants from time immemorial for the treatment of various types of disease. An ethnobotanical survey was made in the Korampallam village in Thoothukudi district, Tamil Nadu, during the month of January 2020. Regular visits were conducted to collect and record the plants of that region. The following findings were made clear. A total of 129 plant species belonging to 62 families were recorded for Korampallam village of Thoothukudi district in Tamilnadu, India. Among the species, 1 species belongs to Pteridophyta, while the other 128 species belongs to Angiosperms. Analysis of habit forms indicated 73 species of herbs, 30 species of shrubs, 32 species of trees, 9 climbers, creepers and aquatic plants were recorded. The survey indicates that leaves are predominantly used for treating any ailment which was followed by stem with 34%, roots with 13% followed by whole plant and seeds with 9% and 3% respectively. Among 14 major disease categories, dermatological disorders were dominated followed by kidney disease with 451 use-reports, followed by skin disease and hair problem (302 and 242 use-reports, respectively).

Keywords: Demography, disorders, ethanobotany, Korampallam, survey.

INTRODUCTION

The progress of pharmacology, the therapeutic use of plants is very present in some countries, especially developing ones¹. Ethnobotany surveys include interviewing local people, use of the available data in the literature, and the folklore of each region². The goal of ethnobotany is to protect and to pass the valuable and useful traditional knowledge to future generations. Ancient methods of treatment by ethno medicinal value of various types of trees, shrubs, herbs and underground modification such as root, stem, bark, leaves, flowers, fruits and seed³. Now a days, indigenous knowledge about the use of medicinal plants in being lost from one generation to another generation due to modernization and the habitat destruction of the medicinal plants⁴. The present investigation elaborated the plant diversity Kormapallam village, Thoothukudi district, Tamil Nadu, India. The district shows rich diversity of plants having medicinal value and other important economic aspects which are generally used for various aspects by inhabitants of the area. The objective of the present study includes collection of plants from Korampallam village, identification of collected plants and recording the plant available in the selected area.

MATERIALS AND METHODS Description of the study area

Korampallam village was the area selected for the present analysis. Korampallam is a panchayat village located in Tamil-Nadu state, India, in the Thoothukudi district. The Korampallam geographical coordinates are latitude 8.77 and longitude 78.1.

Plant collection and identification

During the month of January 2020, Korampallam village was regularly visited and every plant was photographed and collected in plastic bags for identification. With the aid of Flora of the Presidency of Madras, the plants were identified. In addition to data on taxonomic place (family), vernacular name, common name, life form, and folk medicinal uses, the species entries were supplemented. The life type was graded according to the system suggested by Raunkiær into herbs, shrubs, grasses and trees (annual, biennial or perennial).

Ethnobotanical Survey:

The ethanobotanical study of the village includes the testing of knowledge about the usage of common medicinal plants. Based on the literature review, about 14 categories of common ailments like kidney disease (KD, Skin disease (SD), Hair problem (HP), Stomach problem (SP), Respiratory disease (RD), Cold (C), Cough (CO), Diuretic (D), Tooth ache (TA), Head ache (HA), Fever (F), Body heat (BH), Insect Bite (IB) and Menstural issues (MI) were selected for the present survey. A questionnaire was prepared using Google forms to collect the ethnobotanical applications of the plants in the village. The link is https://forms.gle/r4LYYRsiznLJ2qpN6. The link was then circulated among the residents of the chosen village. Choices were given to each respondent to select

the medicinal plants and their uses. There were up to 124 members participated in the survey.

RESULT AND DISCUSSION

Plant Diversity

In the present study the attention is focused on diversity of plants in Korampallam village, Thoothukudi district, Tamil Nadu, India. A total number of 129 plant genus and 149 species were recorded from the study area. In which 1 genus belongs to Pteridophyta, while the other 128 genera belong to Angiosperms. (Table 1) The plants in Atoor village of Kanyakumari district and recorded 89 plant species belonging to 47 families were recorded. 16 plant species belonging to 14 families were used for treating diabetes by the tribal peoples of Kolli hills of Namakkal district, Tamil Nadu were also reported and recorded.

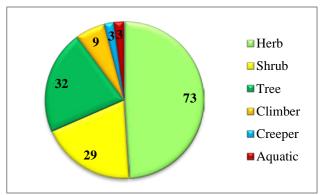


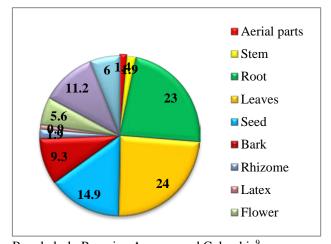
Figure 1: Habit Wise Distribution of Plant Species in Korampallam Village

Among the documented species belonging to 62 families, the family Fabaceae is most frequented represented with 9 species, followed by Asteraceae with 8 species, Amaranthaceae, Malvaceae and Verbenaceae with 6 species each. Previous studies reported that Fabaceae and Solanaceae are the dominant families with more no. of ethnomedicinal plants in Tirunelveli hills of southern India⁷.

Analysis of habit forms indicate 73 species of herbs, 30 species of shrubs, 32 species of trees, 9 climbers, creepers and aquatic plants are recorded and shown in Figure 1. The

common use of herbaceous medicinal plants was also reported in other parts like Kanyakumari and Red Hills of Tamilnadu⁸.

In the present study, the survey indicates that leaves are predominantly used for treating any ailment which is followed by stem with 34%, roots with 13% followed by whole plant and seeds with 9% and 3% respectively as shown in Figure 2. Findings of our study is in line with many ethnobotanical surveys showing that leaves are the most commonly used in areas like China, India, Thailand,



Bangladesh, Peruvian Amazon and Colombia⁹. Figure 2: Percentage of Plant Parts Used for Drugs Preparation

Use report and use categories

The ethanobotanical study of the village includes the testing of knowledge about the usage of common medicinal plants. Based on the literature review, about 14 categories of common ailments like Kidney Disease (KD, Skin disease (SD), Hair problem (HP), Stomach problem (SP), Respiratory disease (RD), Cold (C), Cough (CO), Diuretic (D), Tooth ache (TA), Head ache (HA), Fever (F), Body heat (BH), Insect Bite (IB) and Menstural issues (MI) are selected for the present survey and about 48 plant species are given in the survey to note down their usage as shown in plate 2 - 5. Among which about 24 species are noted to cure kidney disease followed by 19 species to cure stomach problem and 16 species to treat skin disease as shown in table 2.

Table 1. List of Plant Species Collected from Korampallam Village, Thoothukudi

S. No	S. No Botanical Name		Habit	Common Name
1.	Abutilon indicum Linn. Sweet.	Malvaceae	Herb	Country Mallow
2.	Acacia nilotica L. Willd. ex Delile	Fabaceae	Tree	Gum arabic
3.	Acalypha indica (Linn.)	Amaranthaceae	Herb	Indian Acalypha
4.	Acanthospermum hispidum DC.	Asteraceae	Herb	Goat's head
5.	Achyranthes aspera (L.)	Amaranthaceae	Herb	Nayurivi
6.	Aerva lanata (L.) Juss. ex Schult	Amaranthaceae	Herb	Poolai Poo
7.	Aerva tomentosa Forsk	Amaranthaceae	Herb	Desert cotton
8.	Agave cantala Roxb. ex Salm-Dyck	Agavaceae	Herb	Aanai katralai
9.	Albizia Labbek (L.) Benth.	Fabaceae	Tree	Vaagai
10.	Aloe vera (L.) Burm.f.	Liliaceae	Herb	Chotthu Kathalaw
11.	Alternanthera ficoidea (L.) P.Beauv.	Amaranthaceae	Herb	Brazilian Snow Flower

12.	Amaranthus viridis L.	Amaranthacee	Herb	Kuppai keerai
13.	Andrographis Paniculata (Burm.f.)	Acanthaceae	Herb	Nelavembu
14.	Anisomeles malabarica (L.) R. Br.	Lamiaceae	Shrub	Peyamerathi
15.	Annona Squamosa (Linn.)	Annonaceae	Tree	Sita
16.	Antigonon leptous Hook. & Arn.	Polygalaceae	Climber	coral vine, bee bush
17.	Areca Catechu Linn.	Arecaceae	Tree	Pakku
18.	Argemone mexicana Linn.	Papaveraceae	Herb	Bramadand
19.	Asparagus racemosus Willd.	Liliaceae	Shrub	Thanneer
17.	Tapa. agas racentosas milia.	Zimacouc	2111.40	Vittankizhangu
20.	Azadirachtaindica A. Juss.	Meliaceae	Tree	Veambu
21.	Bacopa monnieri (L.) Penn.	Scrophulariaceae	Creeping herb	Neer brahmi
22.	Biophytum sensitivum (L.) DC.	Oxalidaceae	Herb	Jala pushpam
23.	Boerhaavia diffusa (Linn.)	Nyctaginaceae	Herb	Mookkirattai
24.	Boerhaavia rependa L.	Nyctaginaceae	Herb	Punarnava
25.	Borassus flabellifer (Linn.)	Arecaceae	Tree	Panai
26.	Brassica Juncea (L.) Czern.	Brassicaceae	Herb	Kadugu
27.	Bryophyllum calycinium Salisb.	Crassulaceae	Herb	Ranakalli
28.	Calotropis gigantean (L.) R. Br	Asclepiadaceae	Shrub	Erukku
29.	Cardiospermum halicacabum (Linn.)	Sapindaceae	Climbing herb	Mudakkathan
30.	Carica papya (Linn.)	Caricaceae	Tree	Pappali
31.	Cassia fistula Linn.	Caesalpiniaceae	Tree	Sarakkondrai
32.	Cassia senna Linn.	Caesalpiniaceae	Under shrub	Avuri
33.	Catheranthus roseus (L.) G. Don	Apocynaceae	Herb	Nithya kalyani
34.	Ceiba Pentandra (L.) Gaertn.	Malvaceae	Tree	Illavam
35.	Centella asiatica (L.) Urban.	Apiaceae	Herb	Vallarai
36.	Chloris barbata (L.) Swartz	Poaceae	Herb	Mayil kondai pul,
37.	Cissus quadrangularis (L.)	Vitaceae	Shrub	Perandai
38.	Citrullus colocynthis (L) Schrad.	Cucurbitaceae	Creeping herb	Kumatti
39.	Citrus limon (L.) Osbeck	Rutaceae	Tree	Elumichai
40.	Citus reticulata Blanco	Rutaceae	Tree	Narathangai
41.	Cleome viscose L.	Cleomaceae	Herb	Naikaduku
42.	Clerodendrum inerme (L.) Gaertn	Verbenaceae	Shrub	Pinchil
43.	Clitoria ternatea (Linn.)	Fabaceae	Twiner	Sankupoo
44.	Coccinia grandis (L.) Voigt	Cucurbitaceae	Shrub	Kovai
45.	Cocos nucifera L.	Arecaceae	Tree	Coconut
46.	Commelina benghalensis Linn.	Commelinaceae	Procumbent	Kanavaazhai
4.5		TP:1:	Herb	D 1
47.	Corchorus aestuans Linn.	Tiliaceae	Herb	Punaku
48.	Crotalaria retusa Linn.	Papilonaceae	Under Shrub	Gilugiluppai,
49.	Crotalovia verrucose (Linn)	Papilonaceae	Herb	Kilukillappai
50.	Cynodon dactylon (L.) Pers.	Poaceae	Herb	Arugampullu
51.	Cyperus rotundus Linn.	Cyperaceae	Herb	Korai pul
52.	Cyperus triceps (Rottb.) Endl.	Cyperaceae	Herb	Mustaka Wallum mattai
53. 54	Datura innoxia Mill.	Solanaceae	Herb	Vellum mattai,
54. 55	Datura metal (Linn.)	Solanaceae	Herb	Umattai Sammairkandrai
55. 56.	Delonix regia (Bojer ex Hook.) Raf.	Caesalpinaceae	Tree	Semmairkondrai
56.	Duranta erect L.	Verbenaceae	Shrub Prostrate borb	Aagaaya poo
	Eclipta alba L.	Asteraceae	Prostrate herb	Karisalai Vallarugu
58. 50	Enicostemma axillare (Lam.) Raynal	Gentianaceae	Herb	Vellarugu Golden pothos
59.	Epipremnum aureum (Linden & André)	Araceae	Climber	Golden pothos
60	G.S.Bunting	Echagos	Trac	Valuana mummasi
60.	Erythrina indica Lam.	Fabaceae	Tree	Kalyana murungai
61.	Euphorbia hirta (Linn.)	Euphorbiaceae	Herb	Ammam patcharisi
62.	Evolvulus alsinoides (L.) Ficus benghalensis (Linn.)	Convolvulaceae	Prostrate Herb	Vishnu kirandi
63.	r icus pengnaiensis (Linn.)	Moraceae	Tree	Aalamaram
£1		Amoranthasass	Uarh	Vadamall:
64.	Gomphrena globosa (Linn.)	Amaranthaceae	Herb	Vadamalli Coastal globa
64. 65.		Amaranthaceae Amaranthaceae	Herb Herb	Vadamalli Coastal globe amaranth.

66.	Heliotropicum indicum (Linn.)	Boraginaceae	Herb	Thael Kodukkupoondu
67.	Heliotropium curassvicum L.	Boraginaceae	Herb	Salt heliotrope
68.	Hibicus rosa-sinen (L.)	Malvaceae	Shrub	Semparuthai
69.	Hyptis ovate Pohl ex Benth.	Lamiaceae	Herb	Pignut
70.	Indigofera tinctoria Linn.	Fabaceae	Herb	Avuri
71.	Ipomea aquatica Forsk.	Convolvulaceae	Floating Herb	Nalikam
72.	Ipomea carnea Jacq.	Convolvulaceae	Shrub	Neiveli katamanakku
73.	Jasminum sambac (L.)	Oleaceae	Shrub	Malligai
74.	Jatropha curcus Linn.	Euphorbiaceae	Shrub	Kaatuamanku
75.	Jatropha gossypifolia Linn.	Euphorbiaceae	Shrub	Siria amanakku
76.	Jatropha multifida (Linn)	Euphorbiaceae	Shurb	Malai amanakku
77.	Justica adhatoda L.	Acanthaceae	Shrub	Aadaathoda
78.	Lantana Camara (Linn.)	Verbenaceae	Shrub	Unnichedi
79.	Lawsonia inermis (Linn.)	Lythraceae	Shrub	Maruthani
80.	Leucas aspera Willd.	Lamiaceae	Herb	Thumbai
81.	Luffa cylindrica (L.) M. Roem.	Cucurbitaceae	Climber	Mozhukupirkankai
82.	Lycopersicon Lycopersicum (L.) H. Karst.	Solanaceae	Herb	Thakkali
83.	Mangifera indica (Linn.)	Anacardiaceae	Tree	Maa
84.	Manilkara zapota (L.)	Sapotaceae	Tree	Sapota
85.	Martynia annua (Linn.)	Martyniaceae	Herb	Puli nakam
86.	Melia azadarach (L.)	Meliaceae	Tree	Malai vembu
87.	Mimosa pudica (Linn.)	Fabaceae	Herb	Thottal surungi
88.	Mirabilis jalapa (Linn.)	Nyctaginaceae	Herb	Anthimantharai
89.	Mollugo nudicaulis (Linn.)	Aizoaceae	Herb	Parpaadagam
90.	Mollugo oppositifolia L.	Aizoaceae	Herb	Carpetweed
91.	Momordica cymbalaria Hook F.	Cucurbitaceae	Climber	Athalakkai
92.	Moringa oleifera Lam.	Moringaceae	Tree	Murungai
93.	Muntingia calabura L.	Muntingiaceae	Tree	Thean pazham
94.	Murraya koenigii (L.) Sprengel	Rutaceae	Shrub	Kariveppilai
95.	Musa paradisiaca (Linn.)	Musaceae	Tree like herb	Vazhai
96.	Nelumbo nucifera Gaertn.	Nelumbonaceae	Floating Herb	Thamarai
97.	Nerium oleander (Linn.)	Apocynaceae	Shrub	Arali
98.	Nymphaea stellata Willd.	Nymphaceae	Aquatic Herb	Neelambal
99.	Ocimum americanun (Linn.)	Lamiaceae	Herb	Naai thulasi
100.	Ocimum basilicum (Linn.)	Lamiaceae	Herb	Tirunutpatchi
101.	Ocimum tenuiflorcum (Linn.)	Lamiaceae	Herb	Tulsi
102.	Oldenlandia umbellate L.	Rubiaceae	Herb	Chayaver
103.	Oryza sativa (Linn.)	Poaceae	Herb	Nellu
104.	Parthenium hysterophorus (Linn.)	Asteraceae	Herb	Vishapoondu
105.	Passiflora foetida (Linn.)	Passifloraceae	Climber	Sirupoonaikkaali
106.	Pavonia odorata Willd.	Malvaceae	Herb	Kanapoondu
107.	Pedalium murex (Linn.)	Pedaliaceae	Herb	Perunerunjil
108.	Pergularia extensa (Forsk.)	Asclepiadaceae	Climber	Vellipparuthi
109.	Phoenix dactylifera L.	Arecaceae	Tree	Peritchapanai
110.	Phyla nodiflora (L.) Greene	Verbinaceae	Herb	Poduthalai
111.	Phyllanthus acidus (Linn.)	Euphorbiaceae	Tree	Aranelli
112.	Phyllanthus amarus Schum. & Thonn.	Euphorbiaceae	Herb	Keelanelli
113.	Physalia minima (Linn.)	Solanaceae	Herb	Sodakkuthakkali
114.	Physalia peruviana (Linn.)	Solanaceae	Hairy Herb	Pottipallam
115.	Pisonia alba L.	Nyctaginaceae	Shrub	Lachaikottai
116.	Pithecellobium dulce (Roxb.) Benth.	Fabaceae	Tree	Kodukapuli
117.	Plectranthus amboinicus (Lour.)	Lamiaceae	Herb	Karpuravalli
118.	Polyalthia longifolia (Sonn.)	Annonaceae	Tree	Nettilingam
119.	Prosopis julfilora (Sw.) DC.	Fabaceae	Tree	Velikathan
120.	Psidium guajava (Linn.)	Myrtaceae	Shrub	Koiyya
121.	Punica granatum (Linn.)	Punicaceae	Tree	Madulai
122.	Ricinus communis (Linn.)	Euphorbiaceae	Tree	Amanakku
123.	Ruellia tuberose (Linn.)	Acanthaceae	Herb	Vedikai

124.	Russelia equisetiformis Schlecht. & Cham.	Plantaginaceae	Shrub	Coral fountain
125.	Senna alata (Linn.)	Caesalpiniaceae	Shrub	Seemai agathi
126.	Senna auriculata (Linn)	Caesalpiniaceae	Shrub	Avarai
127.	Senna italic Mill.	Caesalpiniaceae	Herb	Italian senna
128.	Sida acuta (Burm. f.)	Malvaceae	Herb	Vathathiruppi
129.	Solanum nigrum (Linn.)	Solanaceae	Herb	Manatakkali
130.	Solanum torvum (Sw.)	Solanaceae	Shrub	Sundaikai
131.	Solanum trilobatum (L.)	Solanaceae	Shrub	Thuthuvalai,
132.	Solanum xanthocarpum Schrad. & H. Wendl.	Solanaceae	Herb	Kandangattiri
133.	Stahytarpheta jamaicensis (L.)	Verbenaceae	Shrub	Seemai Nayuruvi
134.	Stemodia viscosa (Roxb.)	Scrophulariaceae	Herb	Sticky blue rod
135.	Striga asiatica (L.) Kuntze	Orobanchaceae	Herb	Pallipoondu
136.	Syzygium cumini (L.) Skeels	Myrtaceae	Tree	Naval
137.	Tamarindus indica (Linn.)	Fabaceae	Tree	Puli
138.	Tectona grandis (Linn. f.)	Verbenaceae	Tree	Thekku
139.	Tephrosia purpurea (Linn)	Papilionaceae	Under shrub	Kolingi
140.	Terminalia catappa Linn.	Combretaceae	Tree	Vadham
141.	Thespesia populnea (Linn)	Malvaceae	Tree	Poovarasu
142.	Tragia involucrate (Linn.)	Euphorbiaceae	Climbing herb	Senthatti
143.	Tribulus terrestris L.	Zygophyllaceae	Herb	Nerunji
144.	Tridax procumbens (Linn.)	Asteraceae	Herb	Vettukayapoondu
145.	Typha angustata Bory & Chaub.	Typhaceae	Herb	Sambu
146.	Vernonia cinerea (L.) Less	Asteraceae	Herb	Neichitti keerai
147.	Vicoa indica (L.) DC.	Asteraceae	Herb	Jimikipoo
148.	Wedelia chinensis (Osbeck.) Merr.	Asteraceae	Herb	Manjal karisalai
149.	Xanthium indicum Koen.	Asteraceae	Herb	Marulumattai

Table 2. Medicinal Flora of the Study Area

S. No	Botanical Name	Useful Part	Uses
1	Abutilon indicum	Aerial Parts	Febrifuge, anathematic and anti-inflammatory; also employed in urinary troubles and lumbago
1	Thuillon indicum	Leaves, bark,	Extracts is diuretic and demulcent Astringent and diuretic
		Root	Nerving tonic and anti-pyretic; also used in piles
		Aerial Parts	Cough associated with bleeding from the lungs and insipient phthisis
2	Acalypha indica	Leaf	Juice employed for coetaneous troubles, Juice of fresh leaves is a reliable emetic, found useful in cases of croup.
3	Acanthospermum hispidum	Whole Plant	Dermatological medicaments
4	Achyranthes aspera	Whole Plant	Decoction of Herb diuretic, used in renal dropsy's
5	Aerva lanata	Aerial parts	Used in cough, sore throat, diabetes and lithiasis and diuretic
6	Aerva tomentosa	Whole plant Flower and	It is used externally to remove swelling relive inflammation and promote healing of wounds and ulcers. Used to alleviate Kidney problems and rheumatism.
		Roots Seeds	Cure headaches. A gargle is made from the plants to treat toothache.
7	Agave centala	Leaves	Used as laxative and emmenagogue, also given in scurvy. leaves used in syphilis, Scrofula and Caner
		Core Plant	Used in as cites, dropsy, venereal sores and dysentery
		Leaves and	In eye troubles
8	Albizia Labbek	Seeds	Boils
		Bark	

		Leaves	Fresh juice of leaves cathartic and refrigerant. Used in liver
9	Aloe vera		and spleen ailments and for eye troubles and also in chronic constipation
10	Andrographis	Whole Plant	Astringent anodyne, Tonic used in dysentery, cholera,
10	Paniculata	Leaves and roots	diabetes, influenza, bronchitis, itches and pile Febrifuge, Cholagogue and Anthelmintic
		Leaves and roots	Dyspepsia and fever Decoction of the plant used in
11	Anisomeles malabarica	200,100	rheumatism
12	Annona Squamosa	Root, Seed	Purgative Abortifacient
13	Areca Catechu.	Nuts	Used as a Masticators
14	Argemone mexicana	Whole Plant	Plant Juice used in scabies and opthaimia
		Seeds Whole Plant	Oil in coetaneous troubles. It is a cathartic Diuretic & galactogogue. Fresh Juice mixed with Honey and
15	Asparagus racemosus	Whole Flain	given in dyspepsia
	risparagus racemosas	Root	Root used in nervous and rheumatic complaints
		Leaves	Skin troubles
l		Flowers	Antiseptic Decoction given for ulcers and eczema
16	Azadirachta indica	Berries seeds	Stomachic and tonic, Purgative, emollient oil used for skin
		Fresh tender twigs	troubles Clean teeth particularly in pyorrhoea
		Whole Plant	Improve intelligence used in epilepsy insanity and other
17	Bacopa monnieri	Willow Traine	nervous diseases.
		Herb	Tonic and stimulant used in chest complaints, convulsions,
			cramps and inflammatory tumours. Ash mixes with lime juice
18	Biophytum sensitivum	Leaves & Roots	given in stomach ache.
		Seeds	Styptic Decoction of leaves given in diabetes, asthma and phthisis
			Powered applied to abscesses to promote suppuration
19	Boerhaavia diffusa	Root	Expectorant, diuretic, Laxative, used in asthma
20	Borassus flabellifer	Fresh Sap	Stimulant and ant phlegmatic properties, inflammatory and
			leprosy
21	Brassica Juncea	Seed	Urticaria, diarrhoea, arthritis, hiccup, emetic
22	Calotropis gigantea	Leaves	Rubbed in the skin elephants in the treatment of kesavayer disease
	~	Roots	Diuretic, diaphoretic, laxatives used in rheumatism, Lumbago
23	Cardiospermum halicacabum		and nervous diseases
	пансасавит	Leaves	Used as poultice in rheumatism
		Un ripe fruit	Milky Juice used to remove freckles and other blemishes from
24	Carica papya (Linn)	Dlant	the skin
		Plant	Anthelmintic particularly effective for limbic Yields a blood anticoagulant
		Root, bark	Constipation, skin diseases
25	Cassia fistula Linn	Stem-bark	Diabetes, leucorrhoea
		Leaf	Anaemia, Leprosy, Jaundice, Pain, indigestion
26	Cassia senna	Leaves & Fruits	Laxative and purgative
		Leaves	Used in diabetes, infusion of leaves.
		Root Plant	Used in menorrhagia, Juice applied for relief of pain due to wasp stings
27	Catheranthus roseus	1 14111	Hypertensive, Sedative and tranquillizing properties
			Extract from the plant has shown growth inhibitory effect in
			certain human tumours
28	Ceiba pentandra	Root	Diuretic Gum used in bowel complaints
29	Cissus quadrangularis	Whole Plant	Juice prescribed in scurvy Roydered root considered specific for freetures
		Root Fruit	Powdered root considered specific for fractures Fruit pulp considered drastic hydragogue, cathartic
30	Citrullus colocynthis	Root	Purgative used in as cites, Jaundice, rheumatism and urinary
			troubles.
31	Citrus limon	Fruits	Juice-Scurvy, pulp hypertrophy of spleen
32	Citus reticulate	Trust	Distaste, Thirst, oedema cardiac disease.

		Leaves	Rubefacient, Vesicant and soporific.
33	Cleome viscosa		poultice of seeds
		Seeds	Efficacious in chronic painful joints and also anthelmintic
		Root, Leaf	Glandular swellings eczema, Leucorrhoea scabies, pain,
34	Clerodendrum inerme		diseases of votary.
			Snake bit poisoning
35	Clitoria ternatea	Root	Cathartic and diuretic
		Leaf	Skin diseases
36	Coccinia grandis	Stem	Ulcers, stomatitis
30	Coccinia granais	Root	Diabetes, asthma
		Fruit	Arthralgia, retention of urine
37	Commelina benghalensis	Herb	Demulcent-emollient, laxative and refrigerant, leprosy
38	Corchorus aestuans	Seed	Stomachic
39	Crotalaria retusa	Plant	Used in scabies and impetigo
40	Crotalovia verrucose	Leaves	Used in scabies and impetigo
41	Cynodon dactylon	Rhizome	Used in genitor-urinary troubles
42	Cyperus rotundus	Whole plant	Diuretic, diaphoretic, astringent. Used in stomach and bowel complaints
43	Cyperus triceps	Root	Oil used in stimulating liver & to relieve puritans
44	Datura innoxia	Plant	Cerebral depressant
45	Datura metal	Leaves	Narcotic & antispasmodic
43	Baiara metat	Plant	Tonic and deobstrument used in hepatic and splenetic
46	Eclipta alba		enlargements and in skin troubles
47	Enicostemrnaaxillare	Whole Plant	Bitter tonic stomachic and laxative used as substitute for
т/	Enteosiemmaaxiiare		chirayita as a blood purifier also in dropsy and malaria
		Whole Plant	Used as an ingredient in preparations for cough and asthma;
48	Euphorbia hirta		also used in colic dysentery and diseases of genitor-urinary
			tract. Latest applied to warts.
49	Evolvulus alsinoides	Plant	Act as tonic and febrifuge, also used as vermifuge, along with
.,		_	oil used in promoting hair growth
		Latex	Used in rheumatism and lumbago. Infusion of bark considered
50	Ficus benghalensis		tonic astringent used in diarrhoea, dysentery and diabetes.
7.1		D .	Leaves to used and cooling
51	Gomphrena globosa	Root	Used in cough
		Plant	Emollient, Vulnerary and diruretic used in ulcers, sores,
		.	wounds boils and skin affections
50	77 1	Root	Decoction of roots in cough and fever
52	Heliotropicum indicum	Leaves	Decoction of leaves in urticaria and fever
		Flowers	Flowers acts as emmenagogue in small does and abortifacient
		Seeds	in large doses Seeds masticated and used as a stomachic
	+	Leaves	Anodyne, aperients, emollient
53	Hibicus rosa-sinen	Flowers	Decoction used in bronchial catarrh
		Plant	Extract used in epilepsy and other nervous disorders.
		riani	Ointment used in sores, old ulcers and piles.
54	Indigofera tinctoria	Leaves	Decoction used in blenorrhagia.
		Roots	Used in urinary complaints and hepatitis.
		Plant	Juice used as an emetic in opium and arsenic poisoning.
55	Ipomea aqualtica	1 10111	Useful for women suffering from nervous and general
55	гротии ичнини		debility
56	Ipomea carnea jacq	Plant	Act as mild purgative
57	Jasminum sambac	Root & Leaves	Eye lotions
31	Jashanan samoac	Seed Seed	Oil used in sciatica, dropsy, Paralysis and externally for skin
		Seed	troubles and rheumatism, also abortifacient
58	Jatropha curcus	Plant	Juice used in scabies, eczema & ringworm affections
		Leaves	Rubefacient and Lactagogue
		Roots	Used in leprosy
59	Jatropha gossypifolia		
59	Jatropha gossypifolia	Leaves	Decoction used as purgative

		Latex	Ulcer
		Root	Decoction used indigestion and colic's
60	1 1		Purgative also used in scabies
60	Jatropha multifida	Leaves	Roasted seeds used in fever and venereal diseases Cathartic,
		Seed	used in criminal poisoning
		Leaves	Used in curing bronchial troubles
61	Justica adhatoda		Juice used in diarrhoea dyes entery and glandular tumours
			Powdered leaves used in skin affections
		Plant	Diaphoretic, Carminative anti spasmodic used in fistulae
62	Lantana Camara		pustule and tumours. Decoction given in tetanus, rheumatism,
			malaria and for ataxy of abdominal viscera
63	Lawsonia inermis	Leaves	Prophylactic against skin troubles
		Leaves	Juice applied eternally in psoriasis, Chronic skin eruptions and
64	Leucas aspera		painful swellings
		Flowers	Given with Honey in cough and colds.
65	Lipia noflora	Herb	Used as an antipyretic
66	Luffa cylindrica	Fruit	Diuretic, Lactagogue, Carminative and anthelmintic Juice
	zinga cymanica		purgative
		Fruit	Laxative, diuretic
67	Mangifera indica	Bark	Used in uterine haemorrhage
		Seeds	Asthma
68	Manilkara zapota	Bark	Gum is used in dental surgery
		Leaves	Used in epilepsy and applied in tubercular glands of the neck
69	Martynia annua	Fruits	Juice used as a gargle for throat disorders
70	1 1 1 1 1 1 1	71	Alexeteric used in inflammation
70	Marsilea quadrifolia	Plant	Anti-inflammatory diuretic, febrifuge and refrigerant
		Leaf	Juice anthelmintic diuretic emmenagogue. Gum used in spleen
71	Melia azadirach	Bark	enlargement
		Fruit	Ascariasis
	+	Root	Tonic Description would in growel and other uniners complaints
72	Mimosa pudica	Leaves	Decoction used in gravel and other urinary complaints Juice used is dressing for sinus and also for sores and piles
		Leaves	Used as a tonic
		Stem	Bruised leaves applied to boils and abscesses
73	Mirabilis jalapa	Stem	Juice of leaves applied to wrangles and bruises and for
			allaying itching in urticaria
74	Mollugo nudicaulis	Leaves	Applied for boils for suppuration
75	Mollugo oppositifolia	Plant	Plant used as stomachic aperients and antiseptic
73	motiugo oppositijotia	Root	Used in haemorrhoids
		Leaves	Juice given in bilious affections
76	Luff tuberosa	Fruits	Tonics, stomachic, earrninative and cooling used in
			rheumatisrn gout and diseases of liver and spleen and also in
			diabetes
77	Momordica cymbalaria	Root	Abortifacient
	, , , , , , , , , , , , , , , , , , , ,	All Parts	Used in as cites, Venomous bites rheumatism and as a cardiac
		Roots	and circulatory stimulant
70	Manina 1 'C	Leaves	Rubefacient and vesicant
78	Moringa oleifera	Flower	Scurvy and catarrhal affections
		Seeds	Diuretic & Cholagogue
			Antipyretic oil applied in rheumatism
79	Muntingia calabura	Plant	Antiseptic
		Leaves	Tonic, Stomachic, Carminative
80	Murraya kominii	Root and Bark	Leaves used in diarrhoea and dysentery and for checking
00	Murraya koenigii		vomiting
			Root juice-renal pails
81	Musa paradisiasa	Fruit	Laxative, used in intestinal disorders. Uvaemia,nephritis,
01	Musa paradisiaca		hypertension and of the vascular disorders
82	Nelumbo nucifera	Rhizomes	Used in diarrhoea and dysentery
02	rveiumoo nacijera	Carpals	Demulcent and nutritive

83	Nerium oleander	Root	Resolving and attendant oil used in skin diseases.
		Rhizome	Demulcent used in dysentery and dyspepsia
84	Nymphaceae stellata	Flowers	Cardio tonic
		Seeds	Citreous diseases
85	Ocimum americanun	Whole Plant	Diuretic and tonic
		Plant	Stomachic, alexipharmic antipyretic, diaphoretic, expectorant,
86	Ocimum basilicum	Leaf	carminative Stimulant and anthelmintre
		Seed	Juice given for ringworm Demulcent, stimulate, diaphoretic,
		T	diuretic, piles
		Leaves Root	Stimulant, diaphoretic, ant periodic and expectorant chef in catarrh and bronchitis ringworm and other cut nears diseases
87	Ocimum tenuiflorcum	Seed	infusion used as a stomachic
07	Octmum tenuitiorcum	Seed	Decoction given as a diaphoretic in material fever
			Mucilaginous and demulcent used in genitor urinary disorders
88	Oldenlandia umbellata	Root	Decoction used as a liquorices
89	Oryza sativa	Root & Seed	Vomiting, abdominal disorders, fainting debility piles
	·	Plant	Tonic, Febrituge,
90	Parthenium	Root	Emmenagogue analgesic
	hysterophorus		Decoction used in dysentery
		Fruits	Erratic, Decoction used in asthma and biliousness
91	Passiflora foetida	Leaf	Decoction
		Root	Emmenagogue used in hysteria
92	Pavonia odorata	Roots	Antipyretic, Stomachic and refrigerant.
92	Tavonia oaoraia		Used in dysentery and intestinal haemorrhage
		Root	Decoction ant bilious
93	Pedalium murex	Fruits	Aphrodisiac decoction given in incontinence of urine
			nocturnal emissions spermatobhoca and impotence.
		Plant	Emetic, expectorant, anthelmintric
			Decoction used in asthma
0.4		Leaf	Juice infantile diarrhoea combined with lime.
94	Pergularia extensa		Juice applied to rheumatic swellings pulp applied to
			carbuncles. Plant extract given to uterine and menstrual troubles and to
			facilitate parturition
95	Phyllanthus acidus	Root & Seeds	Cathartic
,,,	1 Hytterities detects	Herb	Astringent, deobstruent, stomachic, diuretic and febrifuge
0.5		Root	used in stomach troubles likes diarrhoea, dysentery, dyspepsia
96	Phyllanthus amarus		colic also used in dropsy and diseases of Crino genetal system
			Given in Jaundice and also used as a galtagogu
97	Physalia minima	Fruits & Leaves	Tonic, diuretic purgative
98	Physalia peruviana	Leaves	Used in abdominal disorders
		Bark & pulp	Astringent and hemostatic extract used against dysentery
99	Pithecellobium dulce	Leaves & Seeds	chronic diarrhoea tuberculosis
			Leaf extract used heat gall ailments clear ulcer
		Leaves	Used in urinary diseases
100	Plectranthusamboinicus		Decoction given in chronic cough and asthma
100			Juice carminative used in dyspepsia
101	Polyalthia longifolia	Bark	Febrifuge
102	Psidium guajava	Bark	Decoction given in diarrhoea
		Fruits	Tonic, cooling and laxative useful in colic & bleeding gum
103	Punica avanatum	Bark Flower buds	Used to expel tapeworms Rind used as an astringent in diarrhoea and dysentery
103	Punica granatum	1 Tower buds	Used in bronchitis
		Root	Decoction given in lumbago
104	Ricinus communis	Leaves	Poultice applied to boils and sores
104	Actius Communis	Seed	Yield Oil as cathartic
105	Ruellia tuberose	Plant	Emetic used as a substitute for Ipecac
106	Sennaitalile	Leaves	Diarrhoea
107	Senna alata	Leaves	Juice used in skin troubles
107	senna atata	Leaves	Juice used in skin doddies

		Seeds	Vermifuge
		Roots	Used in skin troubles
108	Senna auriculata	Bark	Astringent
100	Senna auriculaia	Leaves &Fruits	anthelmintic
100		Seeds	Used in eye troubles diabetes and chylous urine
109	Senna italica	Leaves	Diarrhoea
110	Sida acuta	Roots	Tonic, stomachic diaphoretic and antipyretic Used in nervous and urinary disorders and bowel complaints also used as an electuary for expelling worms Demulcent and diuretic boiled in oil, they are applied to reticular swellings and elephentiasis Decoction used in haemorrhoids and impotence
111	Lycopersicon lycopersicum	Fruit	Cooling Tonic
	iyeopersieum	Herb	Antiseptic and ant dysenteric used in cardalgia and gripe
112	Solanum nigrum	Fruits	infusion of herb applied to anthrax pastels also used as a diuretic and laxative Decoction narcotic and antispasmodic Extract effective in cirrhosis' of liver Tonic, diuretic and cathartic used in anasarca and heart diseases. They are used in fever diarrhoea and eye troubles, dilatation of pupils
		Roots	Expectorant used in cough asthma and pain in the chest
		Stem Flower &	Carminative used in burning sensation of the feet
		Fruits	accompanied by vesicular watery eruption.
113	Solanum Suratense	Berries seed	Juice of leaves mixed with black pepper and used in
			rheumatism
			Juice used in sore-throat used as expectorant in asthma and
		Herb	Cough
		Roots	Useful in liver as well as spleen enlargement Decoction given in cough
114	Solanum torvum	Roots	Sedative, diuretic and digestive
			Used in poultices applied for cracks in the feet
115	G 1	Roots	Used for consumption in the form of electuary
115	Solanum trilobatum		Decoction or powder used to relive cough
		Herb	Used in intestinal worms. Venereal diseases, ulcers,
			erysipelas, dropsy and stomach ailments.
	Stahytarpheta	Bark	Juice employed to remove cataract and decoction as an
116	jamaicensis	Leaves	abortifacient
			Used in diarrhoea and dysentery
			Used in cardiac troubles Decoction used in ulceration of the
117	Stemodia viscosa	Plant	nose Used a demulcent
118	Striga asiatica	Plant	Given to improve appetite
		Bark	Used in gargles and mouth waster
119	Syzygium cumini	Seed	Decoction & Powder used in diabetes
		Fruit	Pulp refrigerant
120	Tamarindus indica		Carminative and laxative given as an infusion in biliousness
			and febrile conditions
		Wood	Oil, applied to eczema
121	Tectona grandis	Flowers	Used in biliousness, bronchioles' and urinary discharges
	0	Seeds	Flower and seed considered diuretic
		Bark	Astringent used in bronchitis Tonio I avotivo divertia and dealectment; used in bronchitis
		Roots Pod	Tonic, Laxative, diuretic and deobstruent; used in bronchitis and bilious febrile attacks also for boils pimples and bleeding
		100	piles
122	Tephrosia purpurea	Seed	Decoction given in dyspepsia diarrhoea rheumatism, asthma and urinary disorders. Roots given with black pepper in colic,
			Pulverized roots smoked for relief from asthma and Cough

			Decoction used as a vermifuge and to stop vomiting
			Oil used in scabies ich.eczem a and other skin eruption
		Leaves	Soporific also applied to rheumatic joints
123	Terminalia catappa	Bark	Juice used in ointment for scabies and coetaneous affections
			Diuretic and card ionic also used in dysentery
		Bark, leaves,	Used in cutarieaus affections
		flowers & fruits	Oil used in skin troubles
124	Thespesia populnea	Seed	Are astringent used in dysentery and haemorrhoids
124	тиегрезій рориней	Bark, Root &	Purgative
		fruits	
		Seeds	
125	Tragia involucrate	Plant	Diaphoretic,
123	Tragia involucrate	Roots	Paste applied for extraction of guinea worms
		Roots	Aperients
126	Tribulus terrestris	Leaves	Stomachic used as lithotripter
120	Tributus terrestris	Fruits	Tonic and diuretic used in painful maturation and calculus
			affections also prescribed in Bright's disease
127	Tridax procumbens	Leaves	Used in bronchial catarrh, dysentery and diarrhoea juice used
	<u> </u>		to check haemorrhage or wounds.
128	Typha angustata	Rhizome	Astringent and diuretic
		Herb	Useful combination against malaria. Juice given in
		Roots	incontinence of urine.
			Used as an anthelmintic
		Flowers	Decoction given in diarrhoea and stomach-ache.
129	Vernonia cinerea		Juice for cough and colic.
		Seeds	Used in fever, rheumatism and conjunctivitis
			Anthelmintic and alexipharmic effective against thread worms
			and round worms. Also given in cough, flatulence, intestinal
			colic dysuria, leucoderma, psoriasis and other skin diseases.
		Whole Plant	Anti fertility activity
130	Vicoa indica	Roots	Used in scorpion sting.
		Inflorescence	Used in throat disorders
131	Wedelia chinensis	Leaves	Tonic used in cough, cephalgia and alopecia.
131	Treactia crimensis	Herb	Decoction used in menorrhagia and uterine haemorrhages.
		Herb	Tonic diuretic and sedative.
		Roots	Tonic used against cancer and scrofula. Extract applied to
			ulcers, boils and abscesses.
		Leaves	Astringents, diuretic and anti-syphilitic used in scrofula and
132	Xanthium indicum	Fruits	herpes.
		Seeds	Rich in vitamin C and considered cooling and demulcent anti-
			inflammatory. Used in the treatment of arino-genital dis orders
			Used for resolving inflammatory swellings and their
			erysipelas.

Demographics of the participants

This survey is taken during the pandemic situation that happened in 2020. So to avoid the direct contact, the people of the village are given with Google form through electronic medium. About 123 people who participated, 70% are female and 30% are male. Based on the age group, most of them are young adults with the age group ranging between 15 to 25 years. The students with the masters and bachelors degrees actively participated in the survey which is been shown in Figure 3 – 5. Many researchers previously documented the ethnobotanical surveys also stated that, the gastrointestinal system disorder reports higher number of plants². These results confirm the results of other ethnobotanical work carried out at a national scale¹⁰. The

relatively high score of the older informants, as expected, is due to experience¹¹.

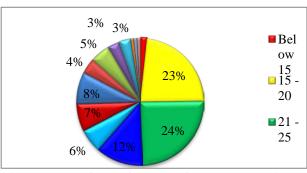


Figure 3: Age of the Informants of the Survey Study

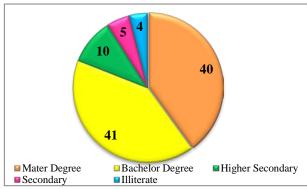


Figure 4: Education Qualification of the Informants

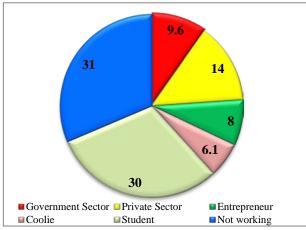


Figure 5: Employment Status of the Informants

CONCLUSION

A total of 129 plant species belonging to 62 families were recorded for Korampallam village of Thoothukudi district in Tamilnadu, India. Among the species, 1 species belongs to Pteridophyta, while the other 128 species belongs to Angiosperms. Among the documented species belonging to 62 families, the family Fabaceae is most frequented represented with 9 species. Analysis of habit forms indicated 73 species of herbs, 30 species of shrubs, 32 species of trees, 9 climbers, creepers and aquatic plants were recorded. The survey indicates that leaves are predominantly used for treating any ailment which was followed by stem with 34%, roots with 13% followed by whole plant and seeds with 9% and 3% respectively Based on the age group, most of them were young adults with the age group ranging between 15 to 25 years. The students with the masters and bachelors degrees actively participated in the survey. Current research work suggests that priority research projects in this area should be planned for the pharmacological evaluation and conservation of medicinal plants in this field.

REFERENCES

- Chaachouay, N, Benkhnigue, O & Zidane, L 2020, 'Ethnobotanical Study Aimed at Investigating the Use of Medicinal Plants to Treat Nervous System Diseases in the Rif of Morocco', Journal of Chiropractic Medicine, vol. 19, no. 1, pp. 70–81.
- Khajoei Nasab, F & Khosravi, AR 2014, 'Ethnobotanical study of medicinal plants of Sirjan in Kerman Province, Iran', Journal of Ethnopharmacology, vol.154, pp. 190-197.
- 3. Verpoorte R, Kim HK & Choi YH 2006, 'Plant as source of medicines', In: Bogers, RJ, Craker, LE, Lange D, editor, 'Medicinal and Aromatic Plants', Netherlands: Springer, pp. 261–273
- 4. Tabuti Vijayakumar, S, Morvin Yabesh, JE, Prabhu, S, Manikandan, R & Muralidharan, B 2015, 'Quantitative ethnomedicinal study of plants used in the Nelliyampathy hills of Kerala, India', Journal of Ethnopharmacology, vol. 161, pp. 238-254.
- Jeeva, S & Femila, V 2012, 'Ethnobotanical investigation of Nadars in Atoor village, Kanyakumari district, Tamil Nadu, India', Asian Pac. J. Trop. Biomed., vol. 2, pp. 593 - 600.
- 6. Elavarasi Jin, JH, Lee, DU, Kim YS & Kim HP 2011, 'Anti-allergic activity of sesquiterpenes from the rhizomes of Cyperusrotundus', Archives of Pharmacal Research, vol. 34, pp. 223–228.
- Ayyanar, M & Ignacimuthu, S 2011, 'Ethnobotanical survey of medicinal plants commonly used by Kanitribals in Tirunelveli hills of Western Ghats, India', Journal of Ethnopharmacology, vol. 134, pp. 851–864,
- 8. Bosco Bala Krishna, M 2011, 'Ethnobotanicla survey of medicinal plants in Khammam District, Andhra Pradesh, India', vol. 2, no.4, pp. 366-370.
- Kadir, MF, Bin SMS & Mia, MM 2013, 'Ethnopharmacological survey of medicinal plants used by traditional healers in Bangladesh for gastrointestinal disorders', J. Ethnopharmacol., vol. 147, no.1 pp. 148–156.
- Sahil Kaliyamoorthy, J 2015, 'Ethno Medicinal Value of Plants in Thanjavur District, TamilNadu,India', International Letters of Natural Sciences, vol. 29, pp. 33-42.
- 11. Noureddine Chaachouay PhD, Topics in Neurology Ethnobotanical Study Aimed at Investigating the Use of Medicinal Plants to Treat Nervous System Diseases in the Rif of Morocco a Ouafae Benkhnigue, PA, b and LahcenZidane, PES, Journal of Chiropractic Medicine, vol. 19, no. 1 pp. 70-81r.