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Ethnobotanical Survey of Medicinal Plants used by Malayali Tribes in Palamalai Hills Salem District, Tamil Nadu, India

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ABSTRACT: An ethnobotanical survey was carried out among the tribes of Palamalai hills Salem district, Eastern ghats of Tamil Nadu. The traditional healers used native herbal plants for various medicinal purposes with their indigenous knowledge. The information was collected from the people through face-toface interviews during field trips. The documentation of important medicinal plants used for the treatment of various ailments occurs in their daily life. In this present collection 96 medicinal plant species belonging to 46 families are discussed. The maximum number of medicinal plants belonging to the family Acanthaceae is deserved by 6 species, Andrographis two species, Electraria one species Justicia one species, Ruellia one species and Rungia one species among the 96 species. The plant was mostly used to cure fever, common cold, cough, asthma, rheumatism, etc. In a survey reported of the world health organization, it was found that the 80% population of the world rely on traditional herbal medicine for primary health care need. In this review article discusses the limitation and challenges faced for the production of herbal medicine. There for, this work will also contribute to the search for new drugs and treatments. The documented plants were given in a table that includes respective families along with their botanical name, habit, vernacular name and medicinal uses. Medicinal plants used by local people in Palamalai has been listed along with plant parts used for their ethnomedicinal significance. An exhaustive survey was carried out for one year from 2019 to 2020.

Keywords: Ethnobotanical studies, Tribes, Medicinal plants, Palamalai hills, Traditional Knowledge.

INTRODUCTION

India is having a rich diversity of medicinal plants. The supply base of 90% of herbal plants is used in the mass production of Ayurveda, Siddha, Unani, and Homoeopathy systems of medicines. It was mainly collected from the forest. This wild source is gradually reduced day by day. Therefore, there is a necessity for the conservation and sustainable use of medicinal plants. In the future, ethnobotany may play an important role in sustainable development and biodiversity conservation (Rajasekaran and Warren 1994). Plants and their derivatives are used for the treatment of diseases, such plants are known as herbal medicine, which is considered part of folk or traditional medicine. For many centuries, treatment with medicinal plants was the only resource available for numerous ethnic groups, and nowadays, plants are still used in traditional medicine to treat and prevent many diseases (Gasparetto et al., 2011; Patil et al., 2019; Kumar et al., 2019, Thakur and Waske 2018). These medicinal plants lie in some chemical substances that produce a definite physiological action on the human body (Edeoga et al., 2005). Ethnobotany is defined as the study of the relationship between people and plants and most commonly refers to the study of ancient uses of plants. By the way of explanations, a study that explores the role of plants as medicine, sustenance, and natural resources is a gateway to God. India is having rich vegetation with a wide variety of plants, because of the furthermost variations in geographical and climatic conditions prevailing in the country (Handa, 1998). Medicinal plants have obtained global importance in the alternative healthcare system, for their proven and effective curative properties. Certain plant antidotes used in modern medicine have an ethnobotanical background (Dev, 1997; Fabricant and Farnsworth 2011). Infectious diseases are the most cause of death in developing countries and according to WHOM, as many as 80% of the world population depends on traditional medicines for their primary healthcare needs. But today 25% of medicines are based on plants and their derivatives (Yahaya et al., 2012). India is possibly the most traditional knowledge on the medicinal uses of plants. The country won an ancient system of health care based predominantly on medicinal plants of several natures, ranging from microorganisms to higher plants, from which more than 80% of medicinal products are derived and have been used for thousands of years (Balakrishnan et al., 2009). The tribals have developed their traditional knowledge related to plant

medicine, which has become a valuable and cultural ancestry of our nation (Kamble et al., 2008) Ethnobotany and ethnomedicinal studies are used to easily identify the new medicinal plants and refocusing the earlier reported for bioactive compounds (Kanble et al., 1981a; Goal and Bhattacharya 1981; Yaniv et al., 1987; Katz et al., 2007). Various active compounds have been discovered in plants based on ethnobotanical information and used directly as patented drugs (Leach, 2007). Several ethnobotanical surveys in Panay Island have been conducted on the Ati (Negritoes) indigenous groups (Madulid et al., 1989; Ong and Kim 2015; Cordero et al., 2020; Cordero and Alejandro 2021). Of the 17 imperishable development goals adopted by the Member States at the United Nations General Assembly in September 2015 at least seven are related to traditional knowledge (Kumar et al., 2021). Ethnobotanical study in Palamalai hills of Eastern ghats India is bound especially by the traditional knowledge of Malayali tribes. The people who used many plants are unknown to us and it is only known to the tribal residents. Hence understanding the established knowledge through tribal participative research is necessary to carry on the knowledge to the next generations. To objective of the study traditional knowledge of tribes and villagers of palamalai hills, Salem district, and Tamil Nadu through an ethnobotanical survey.

MATERIALS AND METHODS

Study area. Tamil Nadu is situated in the Southern end of India, east of Kerala and south of Andhra Pradesh

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and Karnataka states. Several folds of the Southern Western Ghats separate the states of Tamil Nadu and Kerala. The area of investigation Palamalai hills (also known as Siddeswaran malai) is located in the North-West of Mettur Taluk, Salem District, Tamil Nadu (Fig. 1). Palamalai hills are located near the Sathyamangalam forest area and fall under the southern Eastern Ghats covering an area of 68 km. Which is covered by thick reserved forest. It comes under Southern Tropical Dry Deciduous forests - Dry Deciduous Dense Scrub. Palamalai hills division consists of five beats Kolathur beat, Mettur beat, Nerunjipettai beat, Ramanpatti beat, and Periyakulam beat. Palamalai hills lie between 11°45' latitude and 77°44' longitude E with an altitude of 1050-1100 M above MSL. The study area of Palamalai hills covers 9464 hectares which consider a small range of hills with steeper and rockier outer slopes. These hills are approximately 200 and 40 km away from well-known cities like Coimbatore and Salem, respectively. The temperature of the hill's during summer is around 34°C and during winter is around 30°C. The annual rainfall of these hills measured between 750 and 848 mm. In the hills, there are several types of soil present, yellowish brown to reddish brown. The general surface of the is loamy sand to loamy clay and it is related to acidity. According to the 2011 census of India, in palalamalai hills' total population is 2895, with a male being 1525, and females being 1370, and households 777 are present.



Fig. 1. Map of the study area (Kolathur Taluk), Salem district Studied tribal people.

Field trips and data collections. The ethnobotanical investigation was carried out from November 2019 - March 2020 (Fig. 2). The information was gathered go along with the informants and collections of plants by visual inspection of their morphological parts like leaf, stem, and flower. Aromatic plants were identified by smelling and tasting. The medicinal plants are collected from the hills and voucher specimens are preserved by herbarium. The data was collected from traditionally knowledgeable persons above the age of 65 to 70 years. These were documented on field notebook.





Fig. 2. Data collections from Malayali tribes in Palamalai hills.

Plant identification. The identification of medicinal plants was used by the Flora of the presidency of madras, (Gamble and Fischer 1936) and the flora of the Tamil Nadu Carnatic (Matthew, 1981; Matthew, 1982; Matthew, 1983; Matthew, 1988; Matthew, 1991). The identified specimens were used for the preparation of the herbarium and the voucher specimens were deposited in the herbaria of the Department of Botany, Chikkaiah Naicker College, Erode, Tamil Nadu, India for future reference.

RESULT AND DISCUSSION

Life form and parts used. The present survey revealed that the Malayali tribes of the Palamalai hills region were using 96 species belonging to 46 families (Table 1) for medicinal uses. These species belong to 46 families the most representative being Acanthaceae and Fabaceae 6 species followed by Apocynaceae and Euphorbiaceae 5 species and Asclepiadaceae and Asteraceae with 4 species and other families such as Mimosaceae, Caesalpinaceae, Cucurbitaceae Convolvulaceae have three species each and other families are one or two species are presented (Fig. 3). Among them 41 % were herbs followed by 17% were shrubs, 26% were trees and 12% were climbers (Fig. 4). In most of the cases roots 14% (14 species) are used to prepare various medicinal formulations followed by leaves 30% (30 species), whole plant 16% (16 species), bark 7% (7 species), flower 7% (7 species), rhizome 1% (1species), shoots 1% (1species), stem resins 1% (1species), seed oil 1% (1species), root bark 1% (1species), stem 1% (1species), gel 1% (1species) (Fig. 5). These were used to treat various ailments such as diabetes, fever, cold, cough, toothache, liver disorders, urinary problems, skin diseases, headaches, and blood purifiers, etc. The observation of the present study at Palamalai hills showed that traditional medicine plays an important role in the life of tribal communities. The medicinal plants are used as a curative agent of predominant importance in direct health problems of traditional communities and third-world countries as well as modern societies (Cano and Valpato 2010). Habit-wise analysis constitutes the dominance of herbs followed by shrubs, trees, and climbers. These varying habits indicate the richness of all habits. One epiphytic plant and four parasitic plants were reported. This is in line with the findings of (Venktaswamy et al., 2011) in Malasar tribals, Coimbatore district, (Arunachalam and Parimelazhgan 2011), in Kadambur hills. This study found that though whole and different parts of the medicinal plants were used as medicine, the most commonly used plant part was leaves. This is in agreement with the earlier findings of Ranganathan et al. (2012); Bose et al. (2014); Alagesaboopathi (2015); Gritto et al. (2015); Sathyaraj et al. (2015). The information collected from this study is related to previous reports Ignacimuthu et al. (2006); (Ayyanar and Ignacimuthu (2005); Sandhya et al. (2006). The study of the medicinal plant species used in the indigenous health care practices showed the immeasurable usage of Malayali people ethnobotanical knowledge and indicative importance for their rich cultural heritage. The families of Fabaceae, Lamiaceae, and Poaceae were represented with a highly medicinal valuable plant species. Fabaceae as the most preferred medicinal plant family used by the Malayali tribes is parallel to the other folkloric studies conducted in Western Visayas (Madulid et al., 1989; Tantiado, 2012; Ong and Kim 2014; Cordero and Alejandro 2021). The use of leaves as the most preferred medicinal plant part to address medical conditions is comparable to other ethnobotanical surveys conducted throughout the archipelago (Balangcod and Balangcod 2011; Olowa et al., 2012; Abe and Ohtani 2013; Gruyal et al., 2014; Ong and Kim 2014; Raterta et al., 2014; Balangcod and Balangcod 2015; Pizon et al., 2016; Odchimar et al., 2017; Baddu and Ouano 2018; Tantengco et al., 2018; Agapin, 2019; Pablo, 2019; Cordero et al., 2020; Dapar et al., 2020; Belgica et al., 2021; Cordero and Alejandro 2021; Madjos and Ramos 2021; Montero and Geducos 2021; Nuneza et al., 2021). Majority of the people of the area are illiterate especially in the rural areas of the hills and the earning sources of the locals are only agriculture and livestock. Some of the local inhabitants collect medicinal plants and sell. Local herb sellers in very cheap prices and these species are traded to the pharmaceutical companies in good prices. Over grazing, urbanization, and uprooting of medicinal plants are serious threats in the area. These threats increase the risk of their extinction and calls for a strict control over their protection by the authorities. The sustainable use of wild flora and cultivation of medicinal plants should be promoted in the area, this will strongly improve the socioeconomic condition of the local inhabitants. The medicinal plant species unfortunately due to their over exploitation there is a very danger of their extinction. Hence, effort must be taken to protect these species in this area by involving the local communities in preservation and conservation aspects.

Table 1: Medicinal plants used by Malayali tribes.

Sr. No.	Botanical name	Vernacular name	Family	Parts used	Medicinal uses
1.	Abrus precarious L.	Kundumani	Fabaceae	Leaves	Leaves are used as a pain killer.
2.	Abutilon indicum G. Don.	Thuthi	Malvaceae	Bark	The bark is astringent and diuretic.
3.	Achyranthus aspera L.	Nayuruvi	Amaranthaceae	Seeds	Bleeding piles.
4.	Aerva lanata L.	Sirupoolai	Amaranthaceae	Root	Headache and diuretic
5.	Alangium salvifolium Wang.	Alinghi	Alangiaceae	Root	Skin diseases.
6.	Albizzia lebbeck Benth.	Vakai	Mimosaceae	Bark	Cough and diuretic.
7.	Aloe vera (L.) Burn. f.	Katralai	Liliacea	Gel	Antibiotic
8.	Alternanthera sessilis R.Br.	Ponnanganni	Amaranthaceae	Leaves	Digested agent

9.	Amaranthus spinosus Nees	Mullukkerai	Amaranthaceae	Leaves	Fever, anaemia and general debility
10.	Andrographis echioides Nees	Kopuramthangi	Acanthaceae	Root	The Paste is applied externally for scorpion stings.
11.	Andrographis paniculata Nees	Siriyanangai	Acanthaceae	Whole Plant	Febrifuge and tonic.
12.	Anisochilus carnosus Wall.	Karpuravalli	Lamiaceae	Leaves	Allergic problems.
13.	Anisomeles indica (L.) O. Kuntze.	Peimiratti	Lamiacae	Whole	Gastric problems and to
	<u> </u>			Plant	treat fevers.
14.	Annona squamosa L.	Seetha	Annonaceae	Root	Asthma and fever.
15.	Bambusa arundinaceae Willd.	Mulmunkil	Poaceae	Root	Astringent, laxative
16.	Carrisa carandas Linn.	Kalaka	Apocynaceae	Flowers	Extract of flower to treat eye-related diseases.
17.	Calotrophis gigantea R. Br.	Erukku	Asclepiadaceae	Latex	Scorpion bite.
18.	Cardiospermum helicacabum Linn.	Mudakkathan	Sapindaceae	Leaves	Nervous disorders and as a blood purifier.
19.	Cassia alata Linn.	Seemai agathi	Caesalpiniaceae	Leaves	Skin diseases and insect bites.
20.	Cassia auriculata Linn.	Avaram	Caesalpiniaceae	Flowers	Diabetics.
21.	Catharanthus roseus (L.) G. Don.	Nithyakalyani	Apocynaceae	Leaves	Epistasis, diarrhea, leucorrhoea, and urinary tract infection.
22.	Celosia cristata L	Kozhi kondai	Amaranthaceae	Leaves	Epistasis, diarrhoea, leucorrhoea, and urinary tract infection.
23.	Centella asiatica Linn.	Vallarai	Apiaceae	Leaves	Refresher of brain.
24.	Cleome viscosa L	Naiveli	Capparidaceae	Leaves	Digestive purposes.
25.	Coccinia indica W. & A.	Kovaikai	Cucurbitaceae	Whole plant	Induces sweet glands and urinary secretion.
26.	Coleus amboinicus Lourr.	Omavalli	Lamiaceae	Leaves	Chest cold and
				Whole	digestion for babies. All the plant parts are used
27.	Commelina benghalensis L.	Adutennathalai	Commelinaceae	plant	as emollients.
28.	Crotalaria verrucose Linn.	Gilugiluppai	Fabaceae	Leaves	Leaves mixed with forages are used as a remedy for veterinary purposes.
29.	Croton bonplandianum Baill.	Aathupoondu	Euphorbiaceae	Whole plant	Asthma, Pneumonia, Rheumatism, and as a laxative.
30.	Curcuma longa L.	Manjal	Zingiberaceae	Rhizome	Anthelmintic and antiparasitic.
31.	Dichrostachys cinerea (L.) W. & A.	Vidathalai	Mimosaceae	Shoots	Tender shoots are useful in ophthalmia.
32.	Decalepis hamiltonii Wight & Arn.	Magali kizhangu	Apocynaceae	Root	Antimicrobial, antidiabetic, antioxidant
33.	Eclipta prostrata L.	Manjal karislanganni	Asteraceae	Leaves	Blood purifier.
34.	Elytraria acaulis Lind.	Nilakadambu	Acanthaceae	Flowers	A Stomach problem controls body heat.
35.	Euphorbia hirta L.	Amman pacharusi	Euphorbiaceae	Leaves	Worms and gonorrhea.
36.	Evolvulus alsinoides L.	Vishnukaranati	Convolvulaceae	Whole	Brain tonic and
				plant	sedative. It assists to cure diabetes and
37.	Ficus racemosa L.	Aththi	Moraceae	Fruits	diarrhoea. Burning sensation and
38.	Ficus benghalensis L.	Alamaram	Moraceae	Bark	skin diseases. The tubers are regarded as
39.	Gloriosa superba L.	Senganthal malar	Colchicaceae	Tubers	tonic, Stomachic, And anthelmintic.
40.	Gymnema sylvestre R. Br.	Sirukurinjan	Asclepiadaceae	Leaves, Flowers	Diabetes, paralysis and to remove poison.
41.	Gyrocarpus americanus Jacq.	Tanukku	Gyrocarpaceae	Bark	Powder of bark is used to treat filariasis.
42.	Hedyotis herbacea L.	Nonnanam pullu	Rubiaceae	Whole plant	Febrifuge, anthelmintic, expectorant, stomachic.
43.	Heliotropium indicum Linn.	Siruthel kodukku	Boraginaceae	Leaves	Anticancer agent.
44.	Holoptelea integrifolia PLss	Ayamaram	Ulmaceae	Bark	Urinary diseases, vomiting, leprosy, diabetes.
					Urinary diseases, vomiting,
45.	Holoptelea integrifolia PLss	Ayamaram	Ulmaceae	Bark	leprosy, diabetes.
	Holoptelea integrifolia PLss Ionidium suffruticosum (L.)	Ayamaram Orithal thamarai	Ulmaceae Violaceae	Bark Whole plant	

					Febrifuge and
48.	Jatropha curcas L.	Kattamanakku	Euphorbiaceae	Leaves	mouthwash for
40		G: : 11	F 1 1:	D .	strengthening gums.
49. 50.	Jatropha gossypifolia L.	Siriya amanakku	Euphorbiaceae Acanthaceae	Root	Leprosy.
51.	Justicia tranquebariensis L. Lantana camara L.	Sivanervembu Unnichedi	Verbenaceae	Leaves Roots	Eye complaints and jaundice. Dysentery.
52.	Leucas aspera Spreng.	Thumbai	Lamiaceae	Leaves	Fever and vomiting.
				Whole	Inflammations and general
53.	Merremia tridentata Hall. F.	Savurikodi	Convolvulaceae	plant	debility.
54.	Mimosa pudica L.	Thottalsinungi	Mimosaceae	Leaves	Scorpion sting.
55.	Mollugo nudicaulis Lam.	Parpadagam	Aizoaceae	Whole	Cloudy vision and whooping.
56.	Momordica charantia L.	Pahal	Cucurbitaceae	plant Fruits	Antidiabetic, antitumor
57.	Myristica fragrans Houtt.	Jathikai	Myristicaceae	Seeds	Fever, Headache
58.	Ocimum basilicum L.	Thirunitru pachai	Lamiaceae	Whole plant	Ringworm, leukoderma, and other skin diseases
59.	Oligochaeta ramose (Roxb.) Wagenitz.	Peikumatti	Astraceae	Leaves	Cuts and injuries.
60.	Opuntia dilleniid Haw.	Chapathikalli	Cactaceae	Leaves	To reduce inflammation.
61.	Passiflora foetida L.	Mupparisavalli	Passifloraceae	Whole plant	decoction is used for hypertension.
62.	Percularia extensa (Jacq.) N. E. Br.	Veliparuthi	Asclepiadaceae	Leaves	Catarrhal affection and infantile diarrhea.
63.	Phyllanthus emblica Linn.	Nelli	Euphorbiaceae	Fruits	Jaundice, diabetes, and used as anticancer agent.
64.	Plumbago zeylanica L.	Velikodi	Plumbaginaceae	Roots	Paralytic affections, ulcers, leprosy, enlarged spleen, piles, skin diseases, and influenza.
65.	Pongamia glabra Vent.	Pungam	Fabaceae	Seeds	Oils is used as antiseptic, scabies, herpes.
66.	Psidium guajava L.	Koyya	Myrtaceae	Leaves	Leaves are used as an astringent for bowel trouble.
67.	Pseudarthria vicida (L.) W. & A.	Nirmalli	Fabaceae	Whole plant	Asthma and insect bites are used against inflammations and vomiting.
68.	Pterocarpus marsupium Roxb.	Vengai	Fabaceae	Leaves	Diabetes and whooping cough.
69.	Pterolobium hexapetalum (Roth.) Sant. & Wagh.	Karuindumul	Caesalpiniaceae	Leaves, Seeds	Diarrhea, constipation, and piles.
70.	Rauwolfia serpentina Benth.	Sarpagandha	Apocynaceae	Root bark	Blood pressure and nervous disorder.
71.	Rhynchosia minima DC.	Kaliyan thuvarai	Fabaceae	Leaves	Healing wounds.
72.	Ruellia prostrata Poir	Pottakanchi	Acanthaceae	Fruits	Cloudy vision, congestion, neuralgic pain, and silent glaucoma.
73.	Rungia repens Nees.	Paarpaatha	Acanthaceae	Flowers	Diuretic, vermifuge and is given in snakebite.
74.	Sapindus emarginatus Vahl.	Poochakottai	Sapindaceae	Fruits	Emetic, blood purifier
75.	Secamone emetica R. Br.	Ankaravalli	Asclepiadaceae	Stem bark	Inflammation and ulcer.
76.	Sida acuta L.	Kattu karunthakaikai	Malvaceae	Leaves and Roots	Emollient and tonic
77.	Solanum nigrum L.	Milagutakkali	Solanaceae	Whole plant	A decoction of the plant depresses the central nervous system.
78.	Solanum torvum SW.	Sundaikkai	Solanaceae	Fruits	Carminative, diuretic, antidiabetic and vermifuge.
79.	Stephania wightii Dunn.	Karudan kilangu	Menispermaceae	Seeds	Snakebite, tumours
80.	Strychnos nuxvomica L.	Ettikottai	Loganiaceae	Root	Cholera
81.	Strychnos potatorum Linn.	Thetran kottai	Loganaceae	Seeds	Nutritious food for babies
82.	Tamarindus indica L.	Puli	Caesalpiniaceae	Leaves, Fruits	Inflammatory swelling and ringworm. Fruits are used in inflammatory illnesses.
83.	Terminalia chebula Retz.	Kadukai	Combretaceae	Fruit	Pain, constipation, and diarrhoea
84.	Toddalia asiatica Lam.	Kattumilagu	Rutaceae	Roots, Flowers	Paralysis, malarial and intermittent fevers, cough, and general debility.
85.	Tribulus terrestris L.	Nerunji	Zygophyllaceae	Leaves, flowers	Stop bleeding, and eye burning and stops the

					secretion of water from the eye.
86.	Trichodesma indicum R. Br.	Kasithumbai	Boranginaceae	Whole plant	Leprosy, skin disease, fevers, and sores.
87.	Tridax procumbens L.	Vettukkai poondu	Asteraceae	Leaves	Dysentery and diarrhea.
88.	Triumfetta rhomboidei Jacq.	Ottu pullu	Tiliaceae	Roots	Dysentery and the bark and fresh leaves in diarrhea.
89.	Terminalia paniculate Roth.	Poo maruthu	Combretaceae	Bark	Fever and diseases of pitta and kappa doshas.
90.	Veteria indica Linn.	Vellai kuntrikam	Dipterocarpaceae	Stem resin, seed oil	Leprosy, knee pain, and painful teething in children.
91.	Vitex negundo Linn.	Nochi	Verbenaceae	Leaves	Stomach problems, asthma, and painful teething of children.
92.	Xanthium strumarium L.	Marulumattai	Asteracae	Roots	Cancer and Scrofula.
93.	Waltheria india L.	Chempoondu	Sterculiacaea	Whole plant	Cough and scrofula
94.	Wrightia tentoria R. Br.	Palai	Apocynaceae	Leaves	Leukoderma, psoriasis, dandruff and gum pain.
95	Zizyphus oenoplia Mill.	Suraimulu	Rhamnaceae	Roots	Ascaris infection and healing of wounds.
96.	Zizyphus xylopyrus Willd.	Kottaielanthai	Rhamnaceae	Bark and leaves	Bark and leaf powder as the paste is applied on the chest to relieve pain during cough.

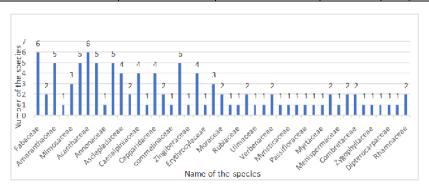


Fig. 3. List of plant families in medicinal plants used by Malayali tribes in Palamalai.

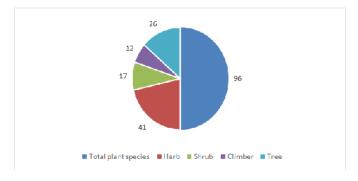
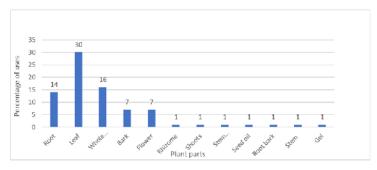


Fig. 4. Life form analysis of medicinal plants in the study area.



 $\textbf{Fig. 5.} \ \ \textbf{The rapeutic uses of various medicinal plant parts.}$

CONCLUSION

Medicinal plants in Palamalai hills play an important role in the primary health care of the tribal people. Herbal medicines are comparably secure to synthetic drugs. The tribal people are more knowledgeable and experienced in conventional medicinal practices because it comes from thousands of years of trial and error. In the present study, 96 plants were documented, and among these 41 plants were herbs, 17 were shrubs, 12 were climbers and 26 were trees. They are using the plants for diuretics, snake bites, skin diseases, diabetics, cough & cold, body pain, and diarrhea as anti-inflammatory and anti-cancerous diseases. Besides, the plants need to be evaluated through phytochemical analysis to discover the possibility of drugs.

FUTURE SCCOPE

This study provides knowledge about herbal treatment of the ethnic people and subsequent pharmacognostical and pharmacological investigations should be made to confirm their mode of preparatons.

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