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Regular Article

Studies on ethnomedicinal plants used by the Malayali tribe of Kalrayan Hill, Tamil Nadu state

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An ethnomedicinal plants survey was carried out to collect the information about the medicinal plants found in kalrayan hill and used by the native malayali tribe of Southern Eastern Ghats of India. 80 plant species, belonging to 41 families, which are used in traditional health care system are described under this study. The studies also attempted to find out the medicines prepared out of these medicinal plants, forms of medicine and their corresponding ailments. In this communication, the information obtained from the tribals was compared with the already existing literatures on ethnobotany of India. The documented ethnomedicinal plants were mostly used to cure skin diseases, wounds and rheumatism. The medicinal plants used by the tribals are arranged alphabetically, and followed by their botanical name, family name, common names, vernacular name(s), part(s) used, mode of preparation and their corresponding diseases.

Keywords: Ethnobotany, Medicinal plants, Kalrayan Hill, Eastern Ghats

India is one of the world's 12 mega biodiversity centers with the presence of over 45000 different plant species. The Eastern and the Western Ghats and the north eastern hills are the main biodiversity hotspots of India and the India's bio-diversity is unmatched due to the presence of 16 different agro-climatic zones 10 vegetation zones 25 biotic provinces and 426 biomes (habitats of specific species). Of these, about 15000-20000 plants have good medicinal value. However, only 7000-7500 species are used for their medicinal values by indigenous people. Today the continued deforestation and environmental degradation of habitats in many parts of the country has brought about the depletion of medicinal plants and the associated knowledge. The part of the medicinal plants collected also poses a serious threat to the survival of the species (Berhe Tesfu et al., 1995; Kibebew and Addis, 1996). Loss of the knowledge has been aggravated by the expansion of modern education which has made the younger generation underestimate its traditional values.

India has the second largest tribal population in the world after Africa. The tribal people mostly depend on forests for their livelihood. Plants and their parts are not only used as food and medicine but also used in various tribal rituals that are a part of their social and religious life. The recent forest cover estimates in Tamilnadu by Forest Survey of India points out that the Tamilnadu has a forest area of 2.26 million ha, which constitutes 17.40% of the state. Among them only 1.71 million ha is under actual forest cover, which is 13.10% of the total geographical area. Tamilnadu has a total scheduled tribe population of 0.65 million which constitute about

1.04% of the total population of the state. The majority of the tribes that inhabit the start include kadar, muduvan, paaliyan, kanikkar, malayali, soliga and konda redid. kalrayan hill, which is a part of the Eastern ghats, lies on the western side of the Kallakurichi Taluk. This area spread over an area of 600 sq. kms. Along with the Pachaimalai, Javadi, and Shevaroy hills, they separate the Kaveri river basin to the north from the Palar river basin to the south. The range as a whole is fairly smooth, with soil well-suited for plant growth. Scrub jungles reach up to 400 metres in altitude, while deciduous forests can be found between above 800 metres. Sholas, a type of high-altitude stunted evergreen forest, can be found growing on isolated plateaus.

Ethnic people are highly knowledgeable about the vegetation and their multi socio, economic and religious values, and one among them is their medicinal values. This knowledge is passed through oral communication from generation to generation (Perumal Samy and Ignacimuthu, 1998, 2000), and is still retained by various indigenous groups around the world. The World Health Organization estimates that about 80% of the population of most developing countries relies on herbal medicines for their primary health care needs (de Silva, 1997; Mukherjee and Wahil, 2006). In Indian medicine systems, Ayurveda, Sidha and Unani entirely and Homeopathy partially depend either on plant materials or their derivatives for treating human ailments (Prajapati et al., 2003). Nearly 1100 species were recognized as sources of raw materials for Ayurvedic and Unani formulations (Gupta, 1986). This plant based traditional knowledge has become a recognized tool in search for new sources of drugs and nutraceuticals (Sharma and Mujumdar, 2003). Therefore, the present work has been made to document the indigenous medicinal systems and medica plants used by the malayali tribes of kolli hill of eastern ghats against various diseases and human health disorders.

2. Materials and Methods

2.1Study area and Vegetation

Kalrayan hill are located in the semi-evergreen forest with the altitude ranging from 1000 to 3800 meters above mean sea level in the Attur taluk of Salem district in Tamilnadu state, South India. This is one of the places with a rich biodiversity in India. Traditional healers, called "Vaidyars" from indigenous groups were targeted for documentation of the uses of medicinal plants. The study area has semi deciduous to scrub forests, found on hill slopes. It is an area where sandalwood grows naturally, besides other dominant species like teak and bamboo. Indigenous species like *Pterocarpus marsupium*, *Terminalia chebula and Dalbergia lacifolia* are also found in this region.

2.2The malayali tribe

The malayalis (literally meaning mountain people) are the principal inhabitants of the Kalrayan hill, and call themselves as malaikaran, male gouder and also believe that they originally belonging to the vellalla caste of cultivators and migrated from kancipuram to the hills of south west Tamilnadu a few generations ago. According to Thurston (1990) the term malayali has been derived from the words malai (hill), al (person) and is used to denote hill people.

2.3Methods of data collection

The field survey, the information collected on plant species was mainly gathered through semi-structured interviews that were held with selectively 14 knowledgeable elders (13 men and 1 woman) between the ages of 45 and 80, and also with the assistance of local administrators and community leaders, who served as key informants. Information regarding,

local name, plant part(s) used, ailments, mode of preparation and administration were recorded through informal meetings, interviews, open and group discussions and overt observation, with selected strata of informants. At the end of each interview, specimens of the plants were collected for scientific identification and herbarium preparation following standard procedures (Jain and Rao, 1977). Specimen number, local name, location and identification points were remarked on each herbarium sheet and field note book. The collected plants were identified according to different references concerning the medicinal plants of South India and voucher specimens were deposited in the Institute herbarium.



3. Results and Discussion

The present investigation indicates a high level of consensus of traditional knowledge of medicinal plants within the malayali community. The results of this study show that a large number of medicinal plants are traditionally used by the tribal community of Kalrayan hill for the treatment of various diseases or health disorders of man. In this study, 80 plant species were reported and arranged alphabetically by the botanical name. Common names, vernacular name, and their family belonging to part (s) used, mode of preparation and their administration have also been given (see Table 1). The reported species belong to 74 genera and 41 families with a highest representative of five species belong to the family Asteraceae and four species belong to the family Asclepiadaceae, Caesalpiniceae, Fabaceae and Lamiaceae. From Amaranthaceae, Apocyanaceae, Euphorbiaceae, Malvaceae, Liliaceae, Rutaceae and Solanaceae three species each. The families Aristolochiaceae, Combretaceae, Lauraceae, Mimosaceae, Piperaceae, Poaceae, Rubiaceae and Verbenaceae have two species each, whereas the rest of 22 families have one species each.

Ethnomedicinal plants listed in Table-1 were used in more than 36 types of diseases. Maximum number of 8 species were used to cure body cooling followed by 7 species used to cure skin diseases , 6 species used to cure fever and wound, 5 species used to cure cold and Stomachache, 4 species used to cure Diabetes and Headache, 3 species used to cure Snake bite, 2 species used to cure Jaundice, Scorpion sting, Stimulant, Urinary diseases and White low, and 1 species was used to treat Anticancer, Antileprotic, Breast milk, Cough and Chest pain, Diaphoretic, Digestive disorder, Diuretic, Dysentery, Fungal diseases, Joint pain, Ophphalmia, Phlem, Piles, Poisonous, Rheumatism, Scabies, Small pox, Stone disorder, Swelling, stimulate hunger and Ulcer. Leaves were the most widely used plant part, which accounted for 33 species out of 80 reported medicinal plants in this study. Seed stood in second, followed by whole plant (7 species), root (6 species), bark (5 species), latex and stem (4 species), flower and fruit (3 species), rhizome and ripe skin (2 species) and resin, skin bulb, tuber and young twig (1 species). The majority of the remedies were prepared in the form of juice from freshly collected plant parts. The paste was usually prepared by pounding or crushing the plant parts in a stonemade mortar and pestle. Water was mostly used to dilute the juice. The plant materials were used in fresh form or in dried form and most plants to be used as a remedy were stored for later use in the dry state, which allowed their utilization throughout the year.

Table 1 List of Ethnomedicinal plants used by the Malayali Tribes of Kalrayan hill

Botanical name and common names of medicinal plants and their respective families	Vernacular names (Tamil name)	Part(s) used	Mode of preparation of medicines	Corresponding diseases
Abrus precatorius L. (Crab's Eye) Fabaceae	Kundumani	Root	Paste (E)	Jaundice
Abutilon indicum L.Sweet. (Country Mallow) Malvaceae	Thutthi	Leaf and Fruit	Juice (I)	Piles
Acacia leucophloea (Roxb.) Wild. (White Babul) Mimosaceae	Vellavelan	Bark	Paste (E)	Skin diseases
Acalypha indica L. (Indian Acalypha) Euphorbiaceae	Kuppaimeni	Leaf	Paste (E)	Scabies
Achyranthes aspera Blume. (Prickly Chaff Flower) Amaranthaceae	Naayuruvi	Leaf and Stem	Paste (E)	Wound
Acorus calamus L. (Sweet Flag) Araceae	Vasambu	Rhizome	Paste (I)	Stomachache
Aegle marmelos (L.) Correa ex Roxb (Vilvam) Rutaceae	Bael tree	Half-ripe fruits	Decoction (I)	Diabetes
Alangium salviifolium L.f. (Sage- Leaf Alangium) Alangiaceae	Alangi	Root bark	Decoction (I)	Fever
Allium cepa L. (Onion) Liliaceae	Venkayam	Underground bulb	Paste (E)	Headache
Aloe vera (L.) Burm.f. (Indian Aloe) Liliaceae	Sotthukatthalai	Leaf	Paste (I)	Body cooling
Alpinia officinarum Hance. (Lesser Galangal) Zingiberaceae	Chitrattai	Rhizome	Powder (I)	Phlem
Alternanthera sessilis (L) R.Br.exDc. (Alligator Weed) Amaranthaceae	Ponnonkanni	Stem and Leaves	Juice (I)	Snake bite
Amaranthus spinosus L. (Prickly Amaranth) Amaranthaceae	Mullukeerai	Leaf	Decoction (I)	Stomachache
Andrographis paniculata (Burm.f.) Wall. (Creat) Acanthaceae	Nilavembu	Whole plant	Powder (I)	Diabetes
Aristolochia bracteolata Lam. (Braeteated Birthwort)	Aaduthinna chedi	Leaf	Paste (E)	Fungal diseases

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Aristolochiaceae				
Aristolochia tagala Cham.	Keradalum	Whole plant	Paste (I)	Stomachache
(Birthwort) Aristolochiaceae	Retudululli	vviioie piant	Tuste (1)	Stomachache
Artemisia nilagirica (C.B. Clarke)	Masipattari	Leaf	Juice (I)	Antileprotic
Pamp. (Indian Wormwood)	Masipattari	Lear	Juice (1)	Tittleprotic
Asteraceae				
Asparagus racemosus Willd.	Thanneervitan-	Tuber	Juice (I)	Digestion
		Tuber	Juice (1)	Digestion
(Wild Asparagus) Asparagaceae	kizhangu Vembu	Leaf	Paste (E)	Small pox
Azadirachta indica A. Juss.	vembu	Lear	Paste (E)	Small pox
(Neem Tree) Meliaceae	C 11	D (D (F)	TA7 1
Azima tetracantha Lam.	Sangumullu	Root	Paste (E)	Wound
(Needle Bush) Salvadoraceae	3.6 '1	T (D ((T)	D 1 1:
Bambusa arundinacea (Retz.) Willd.	Moongil	Leaf	Paste (E)	Body cooling
(Bamboo) Poaceae	36.1.1	T 6	D (T)	.
Cardiospermum halicacabum L.	Mudukottan	Leaf	Decoction (I)	Joint pain
(Balloon Vine) Sapindaceae				
Caesalpinia bonducella (L.) Flem.	Kazharchikkaai	seed	Juice (I)	Diuretic
(Fever Nut) Caesalpiniaceae				
Calendula officinalis L.	Marikollundhu	Flower	Juice (I)	Stomachache
(Calendula) Asteraceae				
Calotropis gigantea (L.) R. Br.	Erukku	Latex	Latex (E)	Scorpion sting
(Bowstring Hemp) Asclepiadaceae				
Carica papaya L.	Pappaali	Latex	Latex (I)	Scorpion sting
(Papaya) Caricaceae				
Cassia auriculata L.	Avaaram	Leaf	Paste (I)	Body cooling
(Tanner`s Casssia) Caesalpiniaceae				
Cassia tora L.	Thagarai	Leaf and Seed	Paste (E)	Skin disease
(Sicklesenna) Caesalpiniaceae			, ,	
Catharanthus roseus (L.) G. Don.	Nithya kalyani	Whole plant	Juice (I)	Anticancer
(Madagagaga Danisasi ali 1)	, ,	•		
(iviauagascar Periwinkle)				
(Madagascar Periwinkle) Apocynaceae				
Apocynaceae	Vallarai	Leaf	Paste (I)	Fever
Apocynaceae Centella asiatica (L.) Urban.	Vallarai	Leaf	Paste (I)	Fever
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae			`,	
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm.	Vallarai Lavangapatri	Leaf Leaf and Bark	Paste (I) Decoction (I)	Fever Diaphoretic
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae	Lavangapatri	Leaf and Bark	Decoction (I)	Diaphoretic
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn.			`,	
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae	Lavangapatri Pattai	Leaf and Bark Bark	Decoction (I)	Diaphoretic Stimulant
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L.	Lavangapatri	Leaf and Bark	Decoction (I)	Diaphoretic
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae	Lavangapatri Pattai Perandai	Leaf and Bark Bark Shoot and leaf	Decoction (I) Decoction (I) Fresh (I)	Diaphoretic Stimulant Stimulate
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f.	Lavangapatri Pattai	Leaf and Bark Bark	Decoction (I)	Diaphoretic Stimulant
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f. (Lemon) Rutaceae	Lavangapatri Pattai Perandai Elumichai	Leaf and Bark Bark Shoot and leaf Ripe skin	Decoction (I) Decoction (I) Fresh (I) Fresh (E)	Diaphoretic Stimulant Stimulate Skin disease
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f. (Lemon) Rutaceae Clerodendrum serratum (Linn.) Moon.	Lavangapatri Pattai Perandai	Leaf and Bark Bark Shoot and leaf	Decoction (I) Decoction (I) Fresh (I)	Diaphoretic Stimulant Stimulate
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f. (Lemon) Rutaceae Clerodendrum serratum (Linn.) Moon. (Butterfly Pea) Verbenaceae	Lavangapatri Pattai Perandai Elumichai Sirutekku	Leaf and Bark Bark Shoot and leaf Ripe skin Leaf and Root	Decoction (I) Decoction (I) Fresh (I) Fresh (E) Decoction (I)	Diaphoretic Stimulant Stimulate Skin disease Stimulant
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f. (Lemon) Rutaceae Clerodendrum serratum (Linn.) Moon. (Butterfly Pea) Verbenaceae Coleus aromaticus Benth.	Lavangapatri Pattai Perandai Elumichai	Leaf and Bark Bark Shoot and leaf Ripe skin	Decoction (I) Decoction (I) Fresh (I) Fresh (E)	Diaphoretic Stimulant Stimulate Skin disease Stimulant Urinary
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f. (Lemon) Rutaceae Clerodendrum serratum (Linn.) Moon. (Butterfly Pea) Verbenaceae Coleus aromaticus Benth. (Indian Borage) Lamiaceae	Lavangapatri Pattai Perandai Elumichai Sirutekku Karpuravalli	Leaf and Bark Bark Shoot and leaf Ripe skin Leaf and Root Leaf	Decoction (I) Decoction (I) Fresh (I) Fresh (E) Decoction (I) Juice (I)	Diaphoretic Stimulant Stimulate Skin disease Stimulant Urinary diseases
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Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f. (Lemon) Rutaceae Clerodendrum serratum (Linn.) Moon. (Butterfly Pea) Verbenaceae Coleus aromaticus Benth. (Indian Borage) Lamiaceae Commiphora caudate Wight & Arn. (Mullukiluvai) Burseraceae	Lavangapatri Pattai Perandai Elumichai Sirutekku Karpuravalli Hill mango	Leaf and Bark Bark Shoot and leaf Ripe skin Leaf and Root Leaf Latex	Decoction (I) Decoction (I) Fresh (I) Fresh (E) Decoction (I) Juice (I) Paste (E)	Diaphoretic Stimulant Stimulate Skin disease Stimulant Urinary diseases Rheumatism
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f. (Lemon) Rutaceae Clerodendrum serratum (Linn.) Moon. (Butterfly Pea) Verbenaceae Coleus aromaticus Benth. (Indian Borage) Lamiaceae Commiphora caudate Wight & Arn. (Mullukiluvai) Burseraceae Cynodon dactylon (L.) Pers.	Lavangapatri Pattai Perandai Elumichai Sirutekku Karpuravalli	Leaf and Bark Bark Shoot and leaf Ripe skin Leaf and Root Leaf	Decoction (I) Decoction (I) Fresh (I) Fresh (E) Decoction (I) Juice (I)	Diaphoretic Stimulant Stimulate Skin disease Stimulant Urinary diseases
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Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f. (Lemon) Rutaceae Clerodendrum serratum (Linn.) Moon. (Butterfly Pea) Verbenaceae Coleus aromaticus Benth. (Indian Borage) Lamiaceae Commiphora caudate Wight & Arn. (Mullukiluvai) Burseraceae Cynodon dactylon (L.) Pers. (Bermudagrass) Poaceae Datura metel L.	Lavangapatri Pattai Perandai Elumichai Sirutekku Karpuravalli Hill mango	Leaf and Bark Bark Shoot and leaf Ripe skin Leaf and Root Leaf Latex	Decoction (I) Decoction (I) Fresh (I) Fresh (E) Decoction (I) Juice (I) Paste (E)	Diaphoretic Stimulant Stimulate Skin disease Stimulant Urinary diseases Rheumatism
Apocynaceae Centella asiatica (L.) Urban. (Asiatic Pennywort) Apiaceae Cinnamomum tamala Nees & Eberm. (Indian Cassia,) Lauraceae Cinnamomum zeylanicum Breyn. (Cinnamon) Lauraceae Cissus quadrangularis L. (Adament vine) Vitaceae Citrus limon (L.) Burm. f. (Lemon) Rutaceae Clerodendrum serratum (Linn.) Moon. (Butterfly Pea) Verbenaceae Coleus aromaticus Benth. (Indian Borage) Lamiaceae Commiphora caudate Wight & Arn. (Mullukiluvai) Burseraceae Cynodon dactylon (L.) Pers. (Bermudagrass) Poaceae Datura metel L. (Dhatura) Solanaceae	Lavangapatri Pattai Perandai Elumichai Sirutekku Karpuravalli Hill mango Arugampullu Karuoomatthai	Leaf and Bark Bark Shoot and leaf Ripe skin Leaf and Root Leaf Latex Whole plant Leaf	Decoction (I) Decoction (I) Fresh (I) Fresh (E) Decoction (I) Juice (I) Paste (E) Paste (E)	Diaphoretic Stimulant Stimulate Skin disease Stimulant Urinary diseases Rheumatism Rheumatism Swelling
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1 \/ 1 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\	Santaium album L.	Santhanam	Stem	Paste (E)	Body cooling

(Sandal Tree) Santalaceae				
Sida cordifolia L.	Valvaluppaichadi	Leaf	Paste (E)	Body cooling
(Country Mallow) Malvaceae				
Solanum surattense Burm.f.	Kandankattiri	Fruit	Paste (I)	White low
(Yellow Berried Nightshade)				
Solanaceae				
Solanum trilobatum L.	Toothuvilai	Leaf	Powder (I)	Cold
(Purple Fruited Pea Eggplant)				
Solanaceae				
Sonchus oleraces L.	Karpooravalli	Leaf	Paste (E)	Skin disease
(Milk Thistle) Asteraceae				
Strychnos nux-vomica L.	Etti	Seed	Decoction (I)	Wound
(Nux Vomica) Loganiaceae				
Terminalia bellirica Roxb.	Thanrikkaai	Seed	Powder (I)	Dysentery
(Belliric) Combretaceae				
Terminalia chebula Retz.	Kadukkai	Seed	Decoction (I)	Digestive
(Chebulic) Combretaceae				disorder
Tribulus terrestris L.	Nerunchi	Whole plant	Powder (E)	Fever
(Gokshura) Zygophyllaceae				
Tridax procumbens L.	Vettukaya poondu	Leaf and root	Paste (E)	Wound
(Tridax) Asteraceae				

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