

ISSN (E): 2320-3862 ISSN (P): 2394-0530 NAAS Rating 2017: 3.53 JMPS 2017; 5(6): 30-38 © 2017 JMPS Received: 19-09-2017 Accepted: 20-10-2017

Patharai J

Research and Development Barathiar University, Coimbatore, Tamil Nadu. India

Dr. Kannan R

Assistant professor: CNC College Erode, Tamil Nadu. India

Medicinal plants used by thoriya ethnic (Sub tribe of baduga) in Nilgiris, India

Patharaj J and Dr. Kannan R

Abstract

An ethnobotanical study was carried among the Thoriya ethnic (sub tribe of Baduga) in Nilgiri mountain of India. 200 plant species belonging to 75 families used in treatment of various ailment are described under this survey. Once these ethnic group were extensively using herbal medicine to treat illness like cough, cold, diarrhea, dysentery, asthma, jaundice, fever, infertility, eye infection, urinal infection, intestinal worms etc. now this traditional practice is being reduced due to various factors. According to this investigation the most dominant families used by them are Asteraceae, Euphorbiaceae, Solanaceae, Fabaceae and Poaceae. In most cases they they use roots and leaves to treat ailment.

Keywords: Thorya, ethnobotany, India, Nilgiri, Baduga, primary health care.

1. Introduction

Ethnobotany is the science that deals with relationship between people, plants and environment. Medicinal plants are the backbone of the traditional medicine, the World Health Organization (WHO) estimates that about 80% of the people of the world exclusively rely on traditional medicine for their primary health care needs. There are nearly 2000 ethnic group in the world and it is believed that almost every group has its own traditional medical knowledge and practices. it is estimated that about 50,000 plant species are believed to be used in Traditional and complementary medicine as per the data available more than 35% of entire plant species, at one time or other were used for medicinal purposes Gewali (2008) generated a general breakdown of the availability of higher plant species and medicinal plants for the selected countries shown in table 1.1.Countries like India, Indonesia, Malasia have high number of higher plant species, their utilization as medicinal plants are low.(table 1.1) india accounts with 20% in the utilization as medicinal plants and china closely followed it with 18.9% countries like Thailand, Srilanka and Viatnam use about 15.5 – 17.1% of their floral biodiversity as medicinal plants.

Since ancient times man have relied on nature for their basic needs such as food, shelter, clothing transport, medicine etc as a means of its survival (Cargg and newmann, 2005). They gathered wild fruits and tubers, hunting animals for food and utilized plants as a sources of medicine to get rid of diseases. By trial and error, man learnt that certain plants were found useful as food while others being used for curing various infection or diseases. In this way man was able distinguish between useful and harmful

2. Material and Method

2.1. Site Selection

The present work is the result of rigorous field studies carried in the hamlets settled by Thoriya ethnic in the Nilgiri, Tamil nadu of India. Explorative field trips were regularly made twice in a month of the year 2015 and 2016 to all settlements, and obtained the general information on medicinal plants used in treatment of various ailments. This survey carried in the villages based on the accessibility, availability of local informants or traditional practitioners and the willingness of the village community to extend the support to the present investigation. The present ethno botanical study covers altogether 15 hamlets of Thoriya settlements that spresd across the district. List of the hamlets surveyed, its location, and altitude is presented on the table (1) i

Correspondence Patharaj J Research and Development Barathiar University, Coimbatore, Tamil Nadu. India

Table 1: Showing hamlets of Thoriya ethnic with latitude.

Name of the hamilate	Loca	A 1434 1 -	
Name of the hamlets	North (latitude)	East (longitude)	Altitude
Ullathatti (melidhane region)	11.447°	76.873°	1938/m
sakkatha (aravenu region)	11.417°	76.843°	1853/m
Kaikatti (kotagiri region)	11.451°	76.770°	1979/m
kallatti (kattabettu region)	11.435°	76.817°	1985/m
Thuneri (kil kotagiri region)	11.454°	76.735°	1847/m
Kil kotagiri	11.448°	76.834°	1922/m
Ajoor (kagguchi region)	11.445°	76.794°	1836/m
Yedapalli (kattabettu region)	11.363°	76.844°	1815/m
Kookalthorai (kambatti)	11.423°	76.800°	1570/m
Kokal	11.477°	76.820°	1646/m
Kappatti (kotagiri region)	11.444°	76.840°	1671/m
Naragiri (kotagiri region)	11.463°	76.845°	1767/m
Bematti	11.408°	76.808°	1931/m
Ketchigitti (Kagguchi)	11.451°	76.802°	1871/m
Addasolai	11.396°	76.898°	1625/m

2.2 Data collection

The data on ethnomedicinal plants were collected according to the method adopted by Schltes (1960); Jain (1989) and Martin (1995). Extensive field trips were conducted to remote rural settlements. From each hamlet, three or more than three local herbal healers were interviewed to obtain information in respect of the plant products curing various infectious diseases. Here both men and women medicinal healers were asked to explore their view on utilization of medicinal plants. However women medicinal healers given more priority because they seemed to have more knowledge about the utility plants in curing various diseases. They know more about remedies for children, disease and ailments associated with delivery. Men new more about treatment of bone fracture, cuts, wounds, scorpion and snake bites. The traditional healers (informants) were taken to the field and record of medicinal plants are made. The informants were requested to explain the medicinal properties, vernacular name, preparation method and mode of administration. All the above said information was recorded. For analyzing ethno botanical data, information about 200 plants belonging to 75 families (shown in the table 2) which are used by Thoriya communities for their primary health care purposes were taken in to account.

2.3 Plant collection and identification

This research is based on field surveys carried out on them during month January-June 2015 and march -june 2016. There are 15 settlements of Thoriya which includes, Ullathatti, Sakkatha, Kllatti, Thuneri, Kil kotagiri, Ajoor, Yedapalli, Kambatti, Kookal and Kappatti were selected for the present study. Voucher specimens were collected during field survey and were preserved with 10% formalin and pressed for future identification. GARMIN GPS 76 was used for taking the reading of the latitudes, longitude and altitudes of all villages where the study was carried out. The Collected plants were identified by different botanist working at various botanical regional centers at Nilgiri district which includes Department of Botany Government Arts College Ooty, Medicinal Plant Development Area (M.P.D.A) Doddabetta, Nilgir and Department of Horticulture Government Botanical Garden Ooty, Nilgiri. The identified and pressed herbarium voucher specimens are listed alphabetically by their generic names, family name and Thoriya names. A short description of plants is also provided. The voucher specimens of plants have been deposited in the herbarium at Govt Arts College Ooty for the future reference.



Fig 1: Kappatti (one of the Thoriya village)

3. Result

Outcome result of present study, 200 plant species belonging to 75 families are recorded. Of these 55 plant species fall under families like Asteraceae, Euphorbiaceae, Fabaceae, Solanaceae and Poaceae, which include 16, 10, 9, 11 and 8 respectively which are listed in the table 1 and 2. Of these plants, most of them are herbs and shrubs, and only few of them are trees, creepers, climbers trees and ferns. The active medicinal compounds from these plants are mainly used in treating major illness like cancer, fever, asthma, cuts and wound, indigestion, diarrhea rheumatism, fracture, menstrual problem, headache, body pain, allergy, dysentery, cough and cold. In most of the cases fresh plant parts are used than dried one.

For treating illness, Plants parts like leaf, stem, bark, root, fruits, and rhizomes are being used. But in most cases leaves are extensively used than other plant parts. Of 200 plant species, flowers are used from only family like Malvaceae. Knowledge in the near future. Hence, it is necessary to gain and preserve this traditional system of healing practice through different scientific investigation.

Tables and figures

Table 2: List of medicinal plants used by Thoriya ethnic (sub tribe of Baduga) in Nilgiri, India

S-no	Name of the plant	Family	Local (baduga name)	Morphological parts used	Mode of administratin	Therapatic uses
1	Strobilanthus lawsoni	Acanthaceae	Kadu kattai	leaf and bark	Heat, mastgatorr	Internal
2	Strobilanthus kunthianus	Acanthaceae	Kattai (neela kurungi)	stem and bark	Mastigatory	Internal
3	Agava americana	Agavaceae	Kathalai	laves and roots	Rhematism	External
4	Achyranthus aspera	Amaranthaceae	Utharani	root,leaves	Asthma	Internal
5	Amaranthus paniculata	Amaranthaceae	Keerai	leaves, seeds	Digestion	Internal
6	Amaranthus spinosus	Amaranthaceae	Mullu Keerai	Roots,leaves	Used for allergy	Internal
7	Annona reticulata	Anonaceae	Seetha annu	Fruit	Reduces heat,	Internal
8	Annona squamosa	Anonaceae	Kunna setha annu	Fruit	Dysentry	Internal
9	Milusa nilagirica *	Anonaceae	Kongannu	leaves, bark	Rheumatism	Both external and internal
10	Brassica nigra	Apiaceae	Thotta kadugu	Seeds and leaves	Indigestion and cold	Both external and internal
11	Brassica juncea	Apiaceae)	Kunna kadugu	Seeds and leaves	Eye disease	External
12	Centella asiatica	Apiaceae	kuthirai kokku	whole plant	Menstrual pain	Internal
13	Coriandrum sativum	Apiaceae	kothumalli	aerial part, seed	Digestion, Anthelmintic	Internal
14	Heracleum sprengelianum	Apiaceae	nari gidu	root	Dysentry	Internal
15	Carissa paucanervia	Apocynaceae	kavilannu	Fruit	Edible, digestion	Internal
16	Vinca rosea	Apocynaceae	nithya kalyani	leaf	Cancer treatment, sarcoma	Internal
17	Acorus calmas	Araceae	Basumbu	rhizome	Diarrhoea	Internal
18	Arisaema leschnaultii	Araceae	Avemarigidu	whole plant	Skin diseases	External
19	Areca catechu	Arecaceae	addeka	Fruit	Mastigatory	Internal
20	Caryota urens	Arecaceae	mandemora	tender leaves	Health tonic	Internal
21	Ristolochia elegans	Aristolochaceae	pipe	leaf past	used for snake bite	External
22	Calotropis gigantea	Asclepediaceae	kalli mora	root,leaves	Skin infection, snake bite,	External
23	Cerpogia accuminata	Asclepediaceae	Kadigisi	Leaves, Roots	Wounds	External
24	Gymnemahirsutum	Asclepiadaceae	nore	Leaves and Bark	Diabetes, jaundice, inflamation	Both external and internal
25	Gymnema sylvestris	Asclepiadaceae	kadu nore	leaves	paralysis, diabetes, fertility	Both external and internal
26	Hemidemus indicus	Asclepiadaceae	nannarai	whole plant	blood purification	Internal
27	Nephrolepis smithii	Aspidieae	mora thavi	leaves	asthma, cough, viral infection	Internal
28	Nephrolepis tuberosa	Aspidieae	thavi	leaves	lung infection, cough	Internal
29	polystichm angulare	Aspidieae	thavi	leves and root	muscle pain	External
30	achilla millefolium	Asteraceae	arra gidu	laves and roots	Rhematism, fever and urinary infection	Internal
31	Anaphalis neelgiriyana	Asteraceae	Thitti gidu	Leaves	Stomach ach and fertility	Internal
32	Anaphalis elliptica*	Asteraceae	kunna thiti	whole plant	fever, indigestion	Internal
33	bidens pilosa	Asteraceae	kothimullu	leaves	menstrual problems	Internal
34	chromolaena odarata	Asteraceae	nadagisi	leaves	eye infectin	External
35	conoclinium coelestinum	Asteraceae	neela manju gidu	leaves	blood purification	Internal
36	Dichrocepala integrifolia	Asteraceae	gaigidu	leaves, aerrial parts	Menstrual pain	Internal
37	Erigeron karvnskiana	Asteraceae	kothi gidu	leaves	Cuts and wounds	Both external and internal
38	Eupatorium glandulosum	Asteraceae	oogidu	leaves	Cuts and wounds	External
39	Galinsoga parviflorus	Asteraceae	kothakasa	leaves	cuts and wounds	Both external and internal
40	Galinsoga quadriradiata	Asteraceae	kothakasa	leaves	Cuts and wounds, stomach trouble	Both external and internal
41	Helichrysum buddleoids	Asteraceae	kadu vada malli	leaves	cuts and wounds	External
42	scehium edulis	Asteraceae	kurigidu	leaf	Eye disease, jaundice	Both external and internal
43	sida acuta	Asteraceae	nasarikke	leaves	skin allergy, fertlity	Internal
44	Adenostema laevenia	Astraceae	Eurugidu	whole plant	fertility	Internal
45	Agreratum conyzoids	Astraceae	magathi	leaves	Cuts and wounds	External
46	Begonia malabarica	Begoniaceae	neerumulli	aerial part	Fever	Internal
47	Berberis tinctoria	Berberdiae	jakka annu	Roots, leaves	Jaundice, ulcer and stomach ache	Internal
48	berberis vulgaris	Berberdiae	barberi	bark and leaves, root	malaria, cough, fever, back pain, arthiritis	Both external and internal
49	cynoglossum zylanicum	Boraginaceae	Jathakai	Leaves	Vomiting, digestion	Internal
50	Coronopus didynamous	Brassicaceae	Naregidu	Aerial parts	Cuts and wounds	Internal
51	Canna indica	Cannaceae	kadavalli elai	Root, flower	Paralysis	Both external and internal
52	dianthus barbatus	Caryophyllaceae	sakarae willium	seed	edible, digestion	Internal
53	Drymarra cordata	Caryophyllaceae	kasagidu	Leaves	Cuts and wounds	External
54	siegesbeckia orientalis	Caryophyllaceae	kaau gidu	leaves	head ache	Internal

					T	
55	spergularia arvensis	Caryophyllaceae	mosuru gidu	aerial part	digestive	Internal
56	Cassia occidentalis	Ceasalpinaceae	thangra gidu	Root, leaves	Pain during Deliveries, fe4ver	Internal
57	Cassia pumila	Ceasalpinaceae	agorai	Leaves	Veterinary	Both external and internal
58	Chenopodium album	Chenapodiaceae	Pruppusoppu	leaves, seeds	Digestion	Internal
59	Chenopodium ambrosoides	Chenapodiaceae	Kadu soppu	Leaves	stomach disorder	Internal
60	Calophyllum inophyllum	Clusiaceae	kad annu	leaves, seeds	Rhematism, purgative	Both external and internal
61	Commelina coelestes	Commelinaceae	kunna Kannai	Stem	skin diseases	Internal
62	Cynotis tubarosa	Commelinaceae	kannai	leaves	eye iritation	External
63	Cynotis pilosa	Commelinaceae	kanne ullu	Stem	Eye disease	External
64	Argyrreia pomacea	Convolvulaceae	Mandeminiki	Leaves	Cooling effect	External
65	Ipomeia nil	Convolvulaceae	bellae oo gidu	leaves	digestion, allergy	Both external and internal
66	Ipomeia terbinata	Convolvulaceae	Kadu gidu	Leaves	Skin allergy	External
67	Monardica charanitia	Cucurbitaceae	pavakke	leaves and fruits	asthma, wheezing and	Internal
68	Ruta graveolens	Cucurbitaceae	marakai	fruits	diabetes digestion	Internal
69	Cupressus macrocarpa	cupressaceae	thada sambrani	leaves	Rheumatism muscular pain	Both external and internal
70	Eleacarpus serrata	Elacocarpiaceae	bikka annu	Leaves, fruit	Skin allergy edible	Both external and internal
71	Eleaganus latifolia	Eleangiaceae	thotta kolanga	fruit and root	Fever	internal
72	Eleaganus latifona Eleaganus kologa	Eleangiaceae Eleangiaceae	kolanga annu	Root, leaf, fruit	heart pain, fever	Both external and internal
73	Gaultheria fragrantissima	Ericaceae Ericaceae	ennai gidu	root, leaves	skin nourishment	External
	<u>=</u>		cimai giuu		skin hourishment skin burns, ring worm,	External
74	Acalypha indica	Euphorbiaceae	kasa soppu	young shoot, leaf paste	scabies	External
75	Breynia vitisidaea	Euphorbiaceae	kadu keerai	Leaves	Cuts and wounds	External
76	Euphorbia elioscopia	Euphorbiaceae	allu gidu	Latex	Cuts and wounds	External
77	Euphorbia hirta	Euphorbiaceae	kaadu assiakki	whole plant	stomach ache	Internal
78	Flugyea leucorpyros	Euphorbiaceae	ooli gidu	leaf	Cuts and wounds	External
79	Givotia rottlariformis	Euphorbiaceae	bethelai mora	leaves, bark	mouth ulcer, body heat, dysentry, vomiting	Internal
80	Glochidion neilgherrense	Euphorbiaceae	mori gidu	leaf and young shoot	fever, cooling effect	Internal
81	Jatropa gosipifolia	Euphorbiaceae	kottamuthu	leaves	lepresy, snake bite	External
82	Jatropa curcus	Euphorbiaceae	kunna kotamuthu	seed	purgative, skin nourishment	
83	Ricinus communis	Euphorbiaceae	arulu gidu	seeds	purgative	external
84	Crotolaria buxifolia	Fabaceae	kaadu mora	bark and leaves	head ache sore eyes	Internal
	Ciotolaria banifolia	1 abaccac				
85	Crotolaria semper florens	Fabaceae	kattatavarai	leaves	eve infection	External
85 86	Crotolaria semper florens	Fabaceae Fabaceae	kattatavarai Sanghoo	leaves Root Seed	eye infection	External Both external and internal
86	Clitoria ternatea	Fabaceae	Sanghoo	Root Seed	body swelling	Both external and internal
86 87	Clitoria ternatea Crotolaria juncea	Fabaceae Fabaceae	Sanghoo Sanapai	Root Seed Flower	body swelling Antifertility	Both external and internal Both external and internal
86	Clitoria ternatea	Fabaceae	Sanghoo	Root Seed	body swelling Antifertility Diuretic essential protein, antibody	Both external and internal
86 87 88 89	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus	Fabaceae Fabaceae Fabaceae Fabaceae	Sanghoo Sanapai kothikeerai avarai	Root Seed Flower Leaves seeds	body swelling Antifertility Diuretic essential protein, antibody production	Both external and internal Both external and internal Internal Internal
86 87 88 89	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae	Sanghoo Sanapai kothikeerai avarai Manali	Root Seed Flower Leaves seeds Leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain	Both external and internal Both external and internal Internal Internal Internal
86 87 88 89 90 91	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura	Root Seed Flower Leaves seeds Leaves leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds	Both external and internal Both external and internal Internal Internal Internal Internal Internal
86 87 88 89 90 91 92	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu	Root Seed Flower Leaves seeds Leaves leaves leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect	Both external and internal Both external and internal Internal Internal Internal External
86 87 88 89 90 91 92 93	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai	Root Seed Flower Leaves seeds Leaves leaves leaves leaf	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever	Both external and internal Both external and internal Internal Internal Internal External Internal Internal
86 87 88 89 90 91 92 93	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy	Both external and internal Both external and internal Internal Internal Internal Internal Internal Internal External Internal External External
86 87 88 89 90 91 92 93 94 95	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica*	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry	Both external and internal Both external and internal Internal Internal Internal Internal Internal External Internal External Internal External Internal External Internal
86 87 88 89 90 91 92 93 94 95	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry	Both external and internal Both external and internal Internal Internal Internal Internal Internal External Internal External Internal Internal External Internal Internal Internal Internal
86 87 88 89 90 91 92 93 94 95 96	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Geraniaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaves leaf oil	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin	Both external and internal Both external and internal Internal Internal Internal Internal Internal External Internal Internal External Internal External Internal External Internal External Internal External External
86 87 88 89 90 91 92 93 94 95 96 97	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry	Both external and internal Both external and internal Internal Internal Internal Internal Internal External Internal Internal Internal Internal External Internal Internal Internal Internal Internal
86 87 88 89 90 91 92 93 94 95 96 97 98	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Hydrangeaceae Labiate	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaves leaf oil laves and roots	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect	Both external and internal Both external and internal Internal Internal Internal Internal External Internal External Internal External Internal External Internal External Internal External External External External External External External External
86 87 88 89 90 91 92 93 94 95 96 97 98	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Hydrangeaceae Labiate Labiate	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf leaf, root	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever	Both external and internal Both external and internal Internal Internal Internal Internal External Internal External Internal External Internal External Internal External External External External External External Both external and internal
86 87 88 89 90 91 92 93 94 95 96 97 98	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Hydrangeaceae Labiate	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaves leaf oil laves and roots	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion	Both external and internal Both external and internal Internal Internal Internal Internal External Internal External Internal External Internal External Internal External Internal External External External External External External External External
86 87 88 89 90 91 92 93 94 95 96 97 98	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Hydrangeaceae Labiate Labiate	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaves leaf oil laves and roots leaf leaf, root whole plant	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache,	Both external and internal Both external and internal Internal Internal Internal Internal External Internal External Internal External Internal External Internal External External External External External External Both external and internal
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni *	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaves leaf oil laves and roots leaf leaf, root whole plant	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion	Both external and internal Both external and internal Internal Internal Internal External Internal
86 87 88 89 90 91 92 93 94 95 96 97 98 99	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni * Leucas aspera Micromera biflora	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula Thumbai gidu	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf Leaf Leaf ves leaf oil Leaves leaf oil Leaves leaf oil Leaf Leaf Leaf Leaf oil Leaves Leaf oil Leaves Leaf oil Leaves ontous Leaf Leaf, root whole plant Leaves, fruits and root whole plant	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache, small pox	Both external and internal Both external and internal Internal Internal Internal Internal External
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni * Leucas aspera	Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf Leaf Leaf	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache, small pox post- natal treatment fever muscle pain back ache,	Both external and internal Both external and internal Internal Internal Internal Internal External Both external and internal Both external and internal
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni * Leucas aspera Micromera biflora Plectranthes malbarica	Fabaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae Lamiaceae Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula Thumbai gidu Bathigidu yellambai	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf Leaf seaf oil laves and roots whole plant Leaves, fruits and root whole plant aerial part	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache, small pox post- natal treatment fever muscle pain back ache, sunburn, throat infection	Both external and internal Both external and internal Internal Internal Internal Internal External Internal External Internal External Internal External Internal External Both external and internal Internal External
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni * Leucas aspera Micromera biflora Plectranthes malbarica Rosmarinus officinalis*	Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula Thumbai gidu yellambai centu gidu	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf Leaf leayes leaf oil laves and roots vhole plant Leaves, fruits and root whole plant laves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache, small pox post- natal treatment fever muscle pain back ache, sunburn, throat infection respiratory prblem, body	Both external and internal Both external and internal Internal Internal Internal Internal External Internal External Internal External Internal External Internal External Internal External External Internal External External Internal External External External External Internal External External Internal External External External External External External External
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni * Leucas aspera Micromera biflora Plectranthes malbarica Rosmarinus officinalis* Salvia officinalis	Fabaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula Thumbai gidu Bathigidu yellambai centu gidu sage thyme	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf Leaf, root whole plant Leaves, fruits and root whole plant laves leaves leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache, small pox post- natal treatment fever muscle pain back ache, sunburn, throat infection respiratory prblem, body pain	Both external and internal Both external and internal Internal Internal Internal Internal External External External Internal External Internal External Internal External Internal External External Internal External External Internal External Internal External Internal
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni * Leucas aspera Micromera biflora Plectranthes malbarica Rosmarinus officinalis* Salvia officinalis	Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula Thumbai gidu Bathigidu yellambai centu gidu sage	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf leaf, root whole plant Leaves, fruits and root whole plant aerial part laves leaves leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache, small pox post- natal treatment fever muscle pain back ache, sunburn, throat infection respiratory prblem, body pain Rheumatism	Both external and internal Both external and internal Internal Internal Internal Internal External External Internal External External Internal External External External External External Internal External External External External External External External External
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni * Leucas aspera Micromera biflora Plectranthes malbarica Rosmarinus officinalis* Salvia officinalis Thymus vulgaris Cassythafiliformis Iaurus nonilis	Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula Thumbai gidu gellambai centu gidu sage thyme Kadugidu bay	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf leaf, root whole plant Leaves, fruits and root whole plant aerial part laves leaves leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache, small pox post- natal treatment fever muscle pain back ache, sunburn, throat infection respiratory prblem, body pain	Both external and internal Both external and internal Internal Internal Internal Internal External External External Internal External Internal External External External External External External
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni * Leucas aspera Micromera biflora Plectranthes malbarica Rosmarinus officinalis* Salvia officinalis Thymus vulgaris Cassythafiliformis Iaurus nonilis Allium sativam	Fabaceae Fagaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula Thumbai gidu Sathigidu yellambai centu gidu sage thyme Kadugidu bay Eerabenguvai Bellai	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf leaf, root whole plant Leaves, fruits and root whole plant aerial part laves leaves leaves leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache, small pox post- natal treatment fever muscle pain back ache, sunburn, throat infection respiratory prblem, body pain Rheumatism arthiritis, rheumatism Body heat controls blood pressurs,	Both external and internal Both external and internal Internal Internal Internal Internal External External External Internal External Internal External External External Internal External External External Internal External Internal External Internal
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107	Clitoria ternatea Crotolaria juncea Cytisus scoparius Dolichos lignosus Indigofera tinctoria Pongamia pinnata Sophora glauca Quercus infectiria Didymocarpus tomentosa Impatiens nilgirica* Impatiens chinensis Pelargonium graveolens Hydrangea macrophylla Artemisia aborta Artemisia nilagirica Asparagus fysoni * Leucas aspera Micromera biflora Plectranthes malbarica Rosmarinus officinalis* Salvia officinalis Thymus vulgaris Cassythafiliformis Iaurus nonilis	Fabaceae Genseriaceae Geraniaceae Geraniaceae Labiate Labiate Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae	Sanghoo Sanapai kothikeerai avarai Manali pungamura ubbai soppu massikai kadu gidu kunna anni anni gudu geranium nasi gidu kunna benigidu Benigidu perumula Thumbai gidu getanium the sage thyme Kadugidu bay Eerabenguvai	Root Seed Flower Leaves seeds Leaves leaves leaves leaf Leaf leaves leaf oil laves and roots leaf leaf, root whole plant Leaves, fruits and root whole plant aerial part laves leaves leaves	body swelling Antifertility Diuretic essential protein, antibody production Stomach pain cuts and wounds Cooling effect fever Skin allergy diarrhoea dysentry Dysentry nourish the dry skin kidney disorder cooling effect Insecticide, Fever digestion skin allergy, tooth ache, small pox post- natal treatment fever muscle pain back ache, sunburn, throat infection respiratory prblem, body pain Rheumatism arthiritis, rheumatism Body heat	Both external and internal Both external and internal Internal Internal Internal Internal Internal External External Internal External External Internal External External External External Internal External External Internal External External Internal External External Internal External External

114 Aspargagus 115 Buddleia	plumosus		_			
	praniosas	Liliaceae	mari thavi	plant sap or past	eczema, ulcer, inflamated wound	Both external and internal
116 4	davidii	loganiaceae	pattapuchi oovu	leaves	wound healing	External
	ıniatus	loranthaceae	sippiti	leaves	skin allergy	External
117 Abutilon vi		Malvaceae	seena gidu	leaves	laxative, diuretic, sedative	Internal
118 Hibiscus rosa	a-sinansis	Malvaceae	Semerthi	Flower	Diabetes	Internal
119 Setaria i	talica	Malvaceae	kalligidu	root, leaves	Menstrual pain, heat, labour pain	Internal
120 Azadiracto	indica	Meliaceae	Bevusoppu	whole plant	Chickenpox, smallpox, fever	Both external and internal
121 Cissampelo	os perira	Menispermiaceae	Padavalli	Root	postponing menopause	Both external and internal
122 Acacia de	elbeta	Mimosaceae	Seegai	bark	Cuts and wounds	External
123 Acacia a	rmata	Mimosaceae	kangaroo mullu	leaves	skin nourishment	External
124 Ficus sap	ertima	Moraceae	peetahi	Fruit	blood purification	Internal
125 Ficus exa	sperta	Moraceae	atthi	Fruit	fertility	Internal
126 Ficusglar	nerata	Moraceae	kadatthi	Fruit	Veterinary	External
127 Embilica of	ficinalis	Myrsiniaceae	nellikai	fruit	sources of vitamin C, Mouth ulcer	Both external and internal
128 Melaeuca al	ternifolia	myritaceae	teamora	leaf oil	Wounds insect bite, skin allergy	
129 Eucaliptus l	ongifolia	Myrtaceae	kappuramora	leaf oil	head ache, pain, cough, running nose	External
130 Eucaliptus	globulus	Myrtaceae	kappura elai	leaves	joint pain, body pain, head ache	External
131 Psidum g	uajava	Myrtaceae	koinnanu	leaves	Diarrhoea, dysentry	Both external and internal
132 Rhodomyrtis		Myrtaceae	thavatai annu	fruit	digestion	Internal
133 Boerhaavid	ı diffusa	Nyctaginaceae	Saranai	Leaves	Cuts and wounds	External
134 Oxalis carr		Oxalidaceae	Kunna ulla majigai	Leaves	Dysentry, headache	Internal
135 Oxalis la	tifolia	Oxalidaceae	ulla majjigai	whole plant	Paralysis	Internal
136 Corydalis	dubia	Papavaraceae	basaka	leaves	blood purification	Internal
137 Corydalis		Papavaraceae	basaka	leaves and root	liver disorder	Internal
138 Argemone n		Papavaraceae	Mullmothakka	Flower	Eye disease	External
139 Passiflora	edulis	Passifloraceae	odeyannu	Flower	head ache	External
140 Passiflora	caerulea	Passifloraceae	gudi soppu	leaf and root	pain, insomania and and promotes sleep	
141 Papaver son	nniferam	Pepavraceae	madhu pattae soppu	leaf, dry fruit, latex	sedative, body pain and promotes sleep	internal
142 Plumbago z	eylanica	Plambaginaceae	kodaibelli	root	skin allergy	External
143 Plantago	erosa	Plantaginaceae	neelavarikai	leaves	muscle pain	Both external and internal
144 Bambusa arı	ındinacea	Poaceae	bidul	tender shoot	Bone fracture	External
145 Cyanodon o	dactylon	Poaceae	Garikkai	Roots, leaves	urinogenital troubles, asthma	External
146 Cymbopogo	n nardus	Poaceae	kunna bamullu	leaves	indigestion and cold	Internal
147 Cymbopogon c	onfetiflorus	Poaceae	Bambe ullu	Leaves	Skin allergy	External
148 Embalia		Poaceae	Oongal beru	leaves, root	Jaundice	Both external and internal
149 Eleusine co	orocana	Poaceae	Erigi	Grains	Cooling effect	Internal
150 Panicum v		Poaceae	Samai	Seed flour	Strength	Internal
151 Senecio ca		Poaceae	thenai	whole plant	rhematism, cooling effect	Internal
152 Polygonur	n molli	Polygonaceae	gongu	root	Vomiting, digestion	Both external and internal
153 Polygonum	chinensis	Polygonaceae	kappu annu gidu	whole plant	paralysis, giddiness	Both external and internal
154 Polygonum	_	Polygonaceae	paregudi	root, young shoot	piles, jaundice and constipation	Internal
155 Rubus race		Polygonaceae	gongu	root, leaves	jaundice	Internal
156 Portulaca qu		Portulacaceae	kannai	leaves	Cooling effect	Internal
157 Portulaca		Portulacaceae	pasai kannai	leaves	digestion, cooling effect	Both external and internal
158 Angagalis	arvensis	Primulaceae	Kadu gidu	Leaves	fertility	Internal
159 Punica gra	nnatum	Punicaceae	thalliannu	Leaves, fruits, bark, outer cover of fruit and root	Diarrhoea, dysentry, bronchitis	Internal
160 Aconitum la		Ranunculaceae	keppuoo	leves and root	Bone fracture, asthma, diarrhoea and oedema	Both external and internal
161 Colletia	ferox	Rhamanaceae	thong mora	leaves	antiseptic for wound	External
162 Cotoneaster	buxifolia	Rosaceae	kallu mora	petals and leaves	fungal infection,	Both external and internal
163 Cotoneaster		Rosaceae	roja oov	leaves and bark	respiratory prblem,	Internal
164 Prunus p		Rosaceae	peach	leaf	stomach	Internal
165 Pyrus con	nmunis	Rosaceae	plums	leaves	dysentry	Internal

166	Rubus ellipticus	Rosaceae	mulli	leaves, fruits	digestion, paralisis and edible	Internal
167	Cinchona officinalis	Rubiaceae	cincon	leaf and bark	fever, malarial fever	Internal
168	Coffea arabica	Rubiaceae	kappe annu	Seeds	body pain	Internal
169	Hedyotis corymbosa	Rubiaceae	kasagidu	whole plant	fertility	Internal
170	Pavetta indica	Rubiaceae	kurigidu	leaves	skin allergy	Both external and internal
171	Richardia scabra	Rubiaceae	molamathi	leves and root	fever	Internal
172	Aegle marmelos	Rutaceae	vilva mora	leaf and fruit	indigestion, diarrhoea and dysentry	Internal
173	Glycomis cochincinensis	Rutaceae	papparatte	Root	Tumor	External
174	Rumex nepalensis	Rutaceae	aravathu gidu	leaves	fever, antiseptic	Internal
175	Toddalia aciatica	Rutaceae	masigae	root	skin diseases	External
176	Micromera biflora	Sabiaceae	sembappu	wood and leaf	skin allergy	External
177	Dodonea viscosa	Sapindaceae	marantha	leaves, stem	Bone fracture	External
178	Digitalis purphrea	Scrophularaceae	narimora	Leaves, fruits and root	heart disorder	Internal
179	Saline gallica	Smilaceae	nasura	root, fruit	skin allergy, swelling	External
180	Capasicum annum	Solanaceae	masu	fruit	dyspepsia	Internal
181	Datura metal	Solanaceae	umatha	Leaves	Asthma, cough	External
182	Nicandra physaloides	Solanaceae	Ummathakkai	Leaves	Cuts and wounds	Internal
183	Physalis peruviana	Solanaceae	pitlannu	fruit and root	antioxident, vomiting	Both external and internal
184	Smilax zeylanica	Solanaceae	kaadu badanekai	root, fruit	asthma, cough, viral infection	Internal
185	Solanumsurrattense	Solanaceae	sundakkai	fruit, root	cough, skin cracks, liver disorder	Internal
186	Solanum tarvum	Solanaceae	kaadu sundai	fruit	Antifertility	Internal
187	Solanum sisymbrifolium	Solanaceae	mullu sundai	fruit, seed	toothach	Internal
188	Solanum xanthocarpum	Solanaceae	gulleki	fruit	Dysentry, headache	Internal
189	Solanum anguvi	Solanaceae	kunna sundai	leaves	swelling, dysentry	Internal
190	Solanum nigrum	Solanaceae	gakkee soppu	leaves	diabetes, cough and aneamea	Internal
191	Camellia sinensis	Theaceae	tea gidu	root,leaves	Diabetes, Dysentry	Internal
192	Celtis cinnamomea	Ulamaceae	Aduva	leaf, root	Cuts and wounds	External
193	Debregesia longifolia	Urticaceae	kadugidu	Leaves	Skin allergy	External
194	Pousolzia bennettiana	Urticaceae	tuoraikolu	stem bark	Cooling effect	External
195	Clerodendrum phlomidis	Verbinaceae	Kunna modakai	leaf	Cuts and wounds	External
196	Clerodendrum serratum	Verbinaceae	Modathakai	leaf	Asthma, m Wheezing	Both external and internal
197	Lantana camera	Verbinaceae	juthaka	leaves	internal worm, cuts and wound	Both external and internal
198	Cissus quadrangularis	Vitaceae	paraday	root snd stem powder	bone fracture, asthma, diarrhoea, piles	Both external and internal
199	Hedycheum flavescense	Zingiberaceae	sulle	rhizome	fertility	Internal
200	Zingiber officinalis	Zingiberaceae	ingi	rhizome	gastric cough and internal parasite	Internal

Table 3: Family viz distribution of Ethnomedicinal plants

Serial number	Name of the family	Number of species distributed in each family	%
1	Acanthaceae	2	1
2	Agavaceae	1	0.5
3	Amaranthaceae	3	1.5
4	Anonaceae	3	1.5
5	Apiaceae	5	2.5
6	Apocynaceae	2	2
7	Arecaceae	4	2
8	Aristolochaceae	1	0.5
9	Asclepediaceae	5	2.5
10	Aspidieae	3	1.5
11	Asteraceae	16	8
12	Begoniaceae	1	0.5
13	Berberdiae	2	1
14	Boraginaceae	1	0.5
15	Brassicaceae	1	0.5
16	Cannaceae	1	0.5
17	Caryophyllaceae	4	2
18	Ceasalpinaceae	2	1
19	Chenapodiaceae	2	1
20	Clusiaceae	1	0.5
21	Commelinaceae	3	1.5
22	Convolvulaceae	3	1.5
23	Cucurbitaceae	2	1

24	cupressaceae	1	0.5
25	Elacocarpiaceae	1	0.5
26	Eleangiaceae	2	1
27	Ericaceae		0.5
28	Euphorbiaceae	10	5
29	Fabaceae	9	4.5
30	Fagaceae	1	0.5
31	Geransiaceae	3	1.5
32	hydrangeaceae	1	0.5
33	Labiate	3	1.5
34	Lamiaceae	6	3
35	Lauraceae	2	1
36	Liliaceae	5	2.5
37	loganiaceae	1	0.5
38	loranthaceae	1	0.5
39	Malvaceae	3	1.5
40	Meliaceae	1	0.5
41	Menispermiaceae	1	0.5
42	Mimosaceae	2	1
43	Moraceae	3	1.5
46	Myrsiniaceae	1	0.5
47	myritaceae	5	2.5
48	Nyctaginaceae	1	0.5
49	Oxalidaceae	2	1
50	Papavaraceae	1	0.5
51	Passifloraceae	2	1
52	Plambaginaceae	1	0.5
53	Plantaginaceae	1	0.5
54	Poaceae	8	4
55	Polygonaceae	4	2
56	Portulacaceae	2	1
57	Portulacaceae	1	0.5
58	Primulaceae	1	0.5
59	Punicaceae	5	2.5
60	Ranunculaceae	1	0.5
61	Rhamanaceae	1	0.5
62	Rosaceae	5	2.5
63	Rubiaceae	5	2.5
64	Rutaceae	<u> </u>	2.3
65	Sabiaceae	1	0.5
66	Sapindaceae	1	0.5
67	Scrophularaceae	1	0.5
68	Smilaceae	1	0.5
69	Solanaceae	<u> </u>	5.5
70		1	0.5
70	Theaceae	1	0.5
72	Ulamaceae	2	0.5
73	Urticaceae	3	1.5
74	Verbinaceae	1	
	Vitaceae		0.5
75	Zingiberaceae	2	1

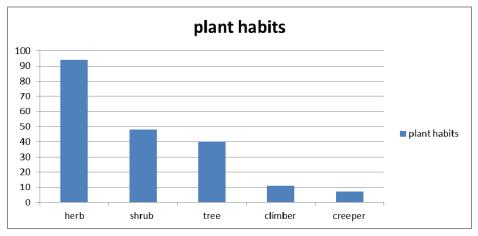


Fig 2: (bar diagram). Showing number of species distributed in terms of habits

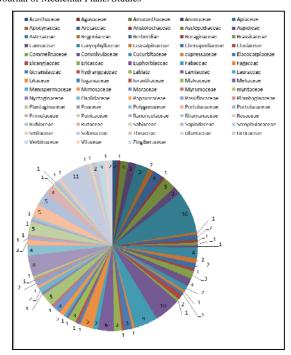


Fig 3: Pie diagram showing family wise distribution of ethnobotanical plants

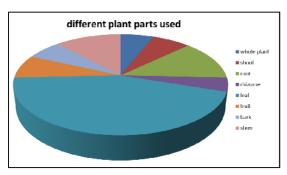


Fig 4: Showing different plant parts used for therapeutic drug.

Discussion

Nilgiri which is well known for its plant biodiversity with many endemic plants with high medicinal value, require massive effort for more ethnobotanical field exploration, micro propagation and phytochemical analysis. Huge numbers of plant species used in local traditional medicine in the Nilgiri district lack phyto-therapeutic evidence. Hence steps must be taken to perform phytochemical and pharmacological investigation to explore and validate the potential of local plants used in treating various illness. The present study also reveled a rich heritage of medicinal knowledge and high diversity of ethno medicinal plants from study area.

These local ethnic to treat various illness uses different plant parts. Among the plant parts, leaves are exclusively used in treatment of diseases followed by whole plant, root, stem, fruit, stem bark, seed, latex and root bark and rarely they use flower (Table 3 figure 2) the method of plant preparation fall in to four categories, viz; applied as paste (35%) fresh plant juice mixed with any liquid (28%) powder made from dried plant (25%) raw plant parts like ripen and un ripen fruits (5%) latex of plant parts (2%)

Photos of some notable medicinal plants



Viola odarate



Adathoda vasica



Thymus vulgaris



Rosemarium sps



Solanum viarum



Brassica nigra



Melontthera medaraspatna



Taraxacum officinalis



Coglearia armorus



Melaleuca alternifolia

Conclusion

According to this investigation and earlier investigation, the study area has enriched medicinal plants to treat extensive range of human ailments. Though this study area is known for

plant biodiversity, still people use western medicine for their simple ailments due to lack of knowledge about use of medicinal plants among them. Traditional medicinal practices among these Thoriya ethnic is being declined due to following reasons, present day traditional healers are very old, lack of interest among younger generation, migration towards cities for seeking job and higher education, present generation do not show interest in consuming plant medicine for their ailments. There is possibility of losing this wealth of

References

- 1. Duke J, Wain K. Medicinal plant of the World, Vol. 3 Computer index with more than 85,000 entries. Plant genetics and germplasm Institute. Agriculture Research service, Beltsville, Maryland, 2008; 231-239.
- Katewa SS, Galav PK. Traditional herbal medicine from Shekawathi region of Rajesthan. I.J. Trad. Knowl. 2005; 4(3):237-245.
- 3. Kumaravelu. Ethnobotanical knowledge of the Toda tribes of Nilgiris, EEco news. 2008; 14:17-19.
- 4. Sathyyavathy R, Janardhan KJ. folkalore medicinal practices of Baduga community in Nilgiri Biosphere reserve, Tamil Nadu, India. IJPRD 2011; 3:50-63.
- Manikandan A. Ethnobotanical studies of Baduga population in the Nilgiri District of Tamilnadu. South India Asl. 2007; 17:50-59.
- Manikandan A. Ethno-medical studies of Badaga population in Nilgiris of Tamil Nadu, south India. Asl. 2007; 17:50-59.
- Rajan S, sethuRaman M. plants used in folk medicine by Kotas of Nilgiris, Tamil Nadu, India. Asl. 1991; 10:223-230.