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ETHNOMEDICINAL APPROACHES FOR TREATING VARIOUS DISEASE BY IRULAS TRIBALS, KONBANUR VILLAGE, ANAIKATTI HILLS, THE WESTERN GHATS, COIMBATORE DISTRICT

Ganesan, C.M.* and G. Kumaresan

Department of Botany, Government Arts College, Udumalpet. *E.mail: bioganesan@gmail.com

ABSTRACT

Indigenous traditional Knowledge is an integral part of the culture and history of a local community. It evolves through years of regular experimentation on the day to day life and available resources surrounded by the community. The present paper documented 85 ethno-medicinal plants of Konbanur village, Anaikatti, Coimbatore district, the Western Ghats, Tamil Nadu belonging to 48 families were used by the Irula tribals for various diseases and food. The conventional ethno medicinal plants were mostly used for different inflammation, cough and cold, leucoderma, different skin diseases, ulcers and leprosy. The ethnomedicinal plants are arranged alphabetically followed by botanical name, family, local name and medicinal uses.

Keywords: Psychological Approach, Canadian fiction, Margaret Atwood, nature.

1. INTRODUCTION

India is endowed with a variety of natural resources. All along the West coast the Western Ghats are sprawling. The entire Western Ghats is known for its biodiversity, richness and endemism of different species. India harbours about 15% (3000 -3500) out of 20,000 medicinal plants of the world. About 90% of these are found growing wild in different climatic regions of the country (Singh, 1997). The tribal and rural populations of India are, to a large extent, dependent on medicinal plants not only to meet their own healthcare needs by selfmedication, but also for their livestock. The Western Ghats is richly credited with varied kind of vegetation and unimaginable topographical features. There are about 2,000 plant species that has been found to possess the medicinal value, in all the four systems of indigenous medicine, viz., Ayurveda, Unani, Siddha, and Homeopathy (Hemambara et al., 1996). Irulas are a small tribal community that is part of the Dravidian language group that is spoken in South-Eastern India. They are recognized as a Scheduled Tribe (ST) by the Government of India (Sasi et al., 2011; Ragupathy and Newmaster, 2009). The Irulas are the Dravidian inhabitants and one among the 36 sub-tribal communities in Tamil Nadu that holds the population about 26,000 Irulas living in Tamil Nadu, out of the total population of 558 lakh in the state (Department of Tribal Welfare of Tamil Nadu, Statistic table, July 2006), which is less than 0.5 % of the entire state's population (Census of India, 1991 and 2001). The study area Konbanur village, Anaikatti (11°6'N, 76°45'E). is occupied 250 acres site constitutes a part of the large two square kilometers catchment area. Two hill slopes, northern

and southern, also form a part of NBR park. The hills elevate to a height of $80\ \text{to}\ 120\ \text{meter}$ from the valleys.

2. MATERIALS AND METHODS

The present work is the outcome of intensive field studies undertaken in hamlet inhabited by Irulas community. Explorative field trips were regularly made once in a month of the study area to all habitants to elicit information on medicinal plant used to treat various ailments. Folklore medico botanical investigations were carried out according to the method adopted by Schultes (1960, 1962); Jain (1989) and Martin (1995). Fieldwork is the most significant aspect in this type of study. Extensive field trips were conducted to remote rural settlements. From each village, two or three local herbal healers were interviewed to elicit first hand information in respect of the plant/plant product curing various diseases. The voucher specimen plants collected were identified with the help of Flora of Presidency of Madras by Gamble (1936) and Flora of Tamilnadu and Carnatic by Mathew (1983).

The medicinal plants collected in this way are tabulated. All the collected medicinal plants were arranged their family and genus according to the alphabetical order. The botanical names followed by author citation and synonyms of the plant species, local name of the plant species were also provided. Most of the plants are used as a medicine rest of them served as edible plants.

3. RESULTS AND DISCUSSION

The present study was carried out in the Konbanur village of Anaikatti hills, the Western Ghats, Coimbatore District. Fieldwork is the most significant aspect in this type of study. Extensive field trips were conducted to remote rural settlements. From each village, two or three local herbal healers were interviewed to elicit first hand information in respect of the plant/plant product curing various diseases. In Table 1, data obtained from the field survey are presented. In this study 85 plant species belonging to 48 families have been recorded. Many plant species belonging to families of Solanaceae, Asteraceae and Amarandhaceae are frequently used. The informations collected from this study are in agreement with the previous reports (Pushpangadan and Atal, 1984, Kala, 2005; Jain, 2001; Avvanar and Ignacimuthu, 2005; Sandhya et al., 2006; Ignacimuthu et al., 2006). For common ailments such as fevers, stomach ache and respiratory disorders, skin diseases, joint pains, hair loss, dysentery, diarrhea, snakebite, jaundice and malaria more number of medication were used. On the other hand, few were used to complicated problems such as heart diseases, kidney disorders

skin diseases, cancer and diabetes. The knowledge informants were taken to the field and information on medicinal plants was recorded. The informants were asked to explain therapies of the diseases and to list plants they employ (Table 3-4).In this investigation, there are 20species belonging to 17 families and 18 Genera were reported by the local practice for the treatment of common heart diseases (Table 2). Among them, 17 families represents atleast single species each. Nearly 20 species, they are using for the treatment of common stomach problems which belonging into 12 families and 20 Genera (Table 3) and The Irula communities of the study area selectively used around 15 families with their 19 plant species especially for the treatment of kidney disorders which is belonging into (Table 4) Amarandhaceae, Asclepiadaceae, Cucurbitaceae, Lamiaceae, Fabaceae, Malvaceae, Menispermaceae and Nyctaginaceae etc. For each plant species complete documentation of folklore medicinal information including medicinal property, their vernacular names, family, parts of used, uses and their identified phytochemical compounds was recorded (Coehran and Cornfield, 1951; Martin, 1995).

Table 1. List of Ethnomedicinal plants used by Irula tribalin study area.

S. No	Botanical Name	Family Vernacular Name		Parts used ,Mode of Preparation, Ethno medicinal uses and some other plants used as ingredients
1	Abelmoschus esculandusL.	Malvaceae	Bhendhi	Protect from asthma and diabetes
2	Abrus precatoriusL.	Fabaceae	Rosary pea, Ratti	Used in stomach pains and diarrhea
3	Abutilon indicumLinn.	Malvaceae	Thuthi	Protect from Piles and Pulmonary
	Achyranthes asperaLinn.	Amaranthaceae	Chirchitta	tuberculosis Useful in treatment of Vomiting,
4	Aconitum	Timur antinaceae	Giiii ciiicca	Cough, Dysentery
5	heterophyllumL.	Fabaceae	Athividayam	Extracts used for treating Snakebite, Fever
6	Acorus calamusL.	Acoraceae	Vasambu	Rhizome used for cough and fever.
7	Adina cordifolia(Roxb.)	Rubiaceae	Kadami	Leaf used for Diuretic Medicine for Stomach-ache, cold cough, fever
8	Aegle marmelos(L.) Correa	Rutaceae	Vilvam	Fruits used for Dysentery
9	Aerva lanata L.	Amarandhaceae	Kanpulai	Leaf juice cure kidneystone Treating for stomach pain and
10	Ageratum conyzoidesL.	Asteraceae	Chick weed	antifungal disease
11	Allium ceba L.	Liliaceae	Onion	To relieve congestions especially in lungs and bronchial tract. To lower blood pressure and
12	Allium sativum L.	Liliaceae	Garlic	cholesterol.
13 14	Amarandhus caudatusL. Amaranthus spinosus L.	Amarandhaceae Amaranthaceae	Cirukeerai Mullu	Avoid diarrhea done by its powder Leaf juice used for Diuretic and

				Digestion
15	Andrographis paniculata	Acanthaceae	Siriyanangai	Leaf paste mixed with milk
	Burm.f. Aristolochia bracteolate	Aristolochiaceae	Aaduthinnapaa	internally taken for snake bite Leaf Paste used externally on the
16	Lam.	Alistolochiaceae	lai	wound of snake bite
17	Artocarpus heterophyllusLam.	Moraceae	Palamaram	Leaf juice used for taken internally for ulcer Leaves boiled in water and taken
18	Basella alba L.	Basellaceae	Kodipasalai	
19	Boerhaavia diffusaL.	Nyctaginaceae	Mukkurttaikko ti	internally to cure piles Taken for treatment of abdominal pain,tumors
20	Bryophyllum pinnatum (Lam.)oken	Crassulaceae	Malaikali	Cure kidney stone and Cough
21	Burberis vulgaris Linn.	Berberidaceae	Jaundice	Fruit used to reinforce the heart and
22	Caesalpinia pulcherrimaLinn.	Fabaceae	barberry Peacock Flower	liver Focusing the diseases like asthma, malaria, kidney stone
23	Caeselpiniabonduc (L.) Roxb.	Caesalpinaceae	Kazhichikai	Seed used for Fever. Leaf juice used for diabetics
24	Camellia sinensis (L.) Kuntze	Berberidaceae	Tea plant	Tea used for cancer, heart disease,
25	Canna indicaL.	Scitaminaceae	Kalvazhai	liver disease Root juice are used for diuretic and
26	Canthiumcoromandelicu m(Burm.f) Alston	Rubiaceae	Bellakarai	digestion Roots and Leaves paste used for Diuretic
27	CapparissepiariaL.	Violaceae	Thottichedi	Root and Leaves are pasted with lemon juice and are applied topically to treat swellings
28	CappariszeylanicaL.	Capparaceae	Kevisi	topically to treat swellings. Leaves juice used for Immuno
	CarallumabicolourRama			stimulant anti-inflammatory
29	ch, S. Joseph, H. A. John and C. Sofia	Asclepiadaceae	Kattalae	Plant extract used for Weight loss
30	Caralluma umbellateHaw.	Asclepiadaceae	Chirukalli	Whole plant roasted for a few minutes and roasted paste applied for indigestion Cures Abdominal disorders,
31	Carica papaya Linn.	Caricaceae	Papaya	
32	Cassia occidentalis(L)	Fabaceae	Ponnavarai	Amenorrhoea, Atherosclerosis Works as an antibacterial,
33	Celosia argentiaL.	Verbenaceae	Kozhikontai	antifungal, antimalarial Curing infant fever and Chronic
	-			cough
34	CissampelospareiraL.	Menispermaceae	Ponmusutai	Treatment of urinary tract Treating diseases of urinary tract
35	Cocciniagrandis(L.) J.Viogt	Cucurbitaceae	Koovaikodi	infection, skin diseases,
36	Coleus aromaticus benth.	Lamiaceae	Karpuravalli	Hypoglycaemic Working against Anti-tumor and
37	Coleus forskohlii (willd.)Briq	Lamiaceae	Marunthukoor kankizanku	Cholera Treating intestinal disorders, asthma
38	Commiphora mukul (Jacq.)Eng	Burseraceae	Guggul	oleo-gum-resin used in treatment of
39 40	CordiadichotomaG. Forst.	Boraginaceae	Karadisellai	nervous diseases, leprosy Seed extract used for Anti-
40	Crataegus oxyacantha Linn.	Rosaceae	Hawthorn	inflammatory To reduce cardiac and cerebral damage, when ischemia

41	Crocus sativus Linn.	Iridaceae	Saffron	Stamens are used for curing heart disease
42	Curcuma longa Linn.	Zingiberaceae	Turmeric	Use in cardiovascular diseaseand
43	Cyphomandra betacea (Cav.) Miers	Solanaceae	Maraththakkali	gastrointestinal disorders Fruits used for diuretic, cough and cold
44	DaturastramoniumL.	Solanaceae	Unmatta	Relieve the diseases urinary retention and ulcer
45	Digitalis lanataLinn.	Scrophulariaceae	Wooly	Used to relive from heart diseases
46	DioscoreaoppositifoliaL.	Dioscoreaceae	foxglove Chinese yam	and asthma Leaves paste is used as antiseptic for
47	Diplocylospalmatus(L.) Jeffrey	Cucurbitaceae	Sivalingakkodi	ulcers Fruits juice used in body pain
48 49	DolichosbiflorusL. Drynariaquercifolia(L.) I.Sm.	Fabaceae Polypodiaceae	Kulattha Mudavattukizh	Lowering the level of blood sugar Rhizome juice are taken internally
50	Emblica officinalisGaertn.	Euphorbiaceae	angu Indian	for body pain Treatment of jaundice, dyspepsia
51	Erigeron Canadensis L.	Asteraceae	<i>gooseberry</i> Horseweed	and cough Helps for curing Blood clotting
52	GloriosasuperbaL.	Liliaceae	Kanvalipoo	andrheumatic complaints Rhizome paste is applied treat
53	Glycosmispentaphylla(R etz.) Dc.	Rutaceae	Melaekulukki	wounds. Used for cough, rheumatism, anemia and jaundice.
54	Gompherna serrate L.	Amarandhaceae	Arasan con todo	Cures the Kidney problems and live disorders
55	Guizotiaabyssinica(L.f.) Cass.	Asteraceae	Malaiellu	Treatment for Stomach ache
56	Hemidesmusindicus L.	Asclepiadaceae	Nanari	Refrigerant and for kidney and
57	Inula racemosa HOOK. F	Asteraceae	Sunspear	urinary disorders Roots are powerful biological
58	JatrophamultifidaL.	Euphorbiaceae	Churakkalli	activity. Protects fromStomach ache, burn
59	JusticiaadhatodaL.	Acanthaceae	Aadhatodai	Leaf juice from this plant used for cough, fever and diarrhea
60	KalanchoepinnataL.	Crassulaceae	Ranakalli	Medicine for curing kidney diseases
61	Lagenariasiceraria L.	Cucurbitaceae	Surakkai	Treating diseases like Diabetic,Doarrhea and digestive
62	<i>Madhucalongifolia</i> (Koen ig)	Sapotaceae	Iluppai	problem Medicine for diabetes, Painkiller, Skin diseases
63	MatricarrecutitaL.	Asteraceae	Chamomile	Cures the digestive problems and acts as an anti-inflammatory, antispasmodic.
64	MomordicacharantiaL.	Cucurbitaceae	Pakkrkai	Cure kidney stone. Stabilize blood pressure and make
65	Moringa oleifera L.	Moringaceae	Murungai	
66	<i>Nelumbo nucifera</i> Gaertn	Nymphaeaceae	Indian Lotus	strengthen Treatment of diarrhea, tissue inflammation and haemostasis
67	<i>Pachygoneovata (</i> Poir.) Diels	Menispermaceae	Perungkaattuk odi	Seeds powder used for Snake bites
68	Pergulariadaemia (Forsk) Chiv	Asclepiadaceae	Veliparuthi	Treating the diseases like malarial intermittent fevers, toothaches
69 70	Phyllandhusniruri L. Piper longum L.	Phyllandhaceae Piperaceae	Keezhanelli Long pepper	Brain tumor and Jaundice Therapeutic agent for Alzheimer

71	Psidium guajava L.	Myrtaceae	Guava	disease, Anti-stress Rich in antioxidant properties Focusing on treatment of diabetics
72	Punica granatum L.	Puniacaceae	Pomegranate,	and prevention of cancer, cardiovascular disease
73	RicinuscommunisL.	Euphorbiaceae	Castor	Protect liver damage from certain poisons
<i>74</i> 75	Riveahypocrateriformis Choisy Scillahyacinthina (Roth) Macbr.	Convolulaceae Liliaceae	Mustae Kattuvengaya m	Leaves paste used for diarrhea Paste made from bulb applied externally for body pain
76 77	Scopariadulcis L. SolanumnigrumL.	Scrophuraliaceae Solanaceae	Sarkaraivempu Makoi	Cure kidney stone. Having antiulcer properties cures
78	Solanumru depannum Dunal	Solanaceae	Toothuvalai	stomach diseases Leaf juice is taken orally for cough and feyer
79	$\it Strychnospotatorum L.f.$	Loganiaceae	Sillakottai	The whole plants used for Urinary
80	Terminalia arjunaW. and A.	Combretaceae	White Marudah	and Kidney Protects the heart, strengthens circulation Works as
81	Terminalia chebulaRetz.	Combretaceae	Haritaki	anAntioxidant,Antibacterial,
82 83	Tribulus terrestis L. Withaniasomnifera	Zygophyllaceae	Nerunji	Protects the liver and kidney Increases hemoglobin content in the
84	Dunal Zingiber officinale	Solanaceae	Winter cherry	blood
	Roscoe.	Zingiberaceae	Ginger	Useful in fighting heart disease, cancer
85	Zizphus jujube (L.)	Rhamnaceae	Ber	Increase physical stamina and cures the liver disorders

Table 2. List of medicinal plants used by Irula tribal for the treatment of heart diseases.

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S. No	Botanical Name	Common name	Name of the Family	Parts used	Chemical Constituents
1	Allium ceba L.	Onion	Liliaceae	Bulb and Leaves	Sulphur compounds(Ajoene, allyl sulfides, and vinyldithiins), quercetinand Allicin(diallyl disulphide oxide)
2	Allium sativum L.	Garlic	Liliaceae	Bulb	Sulphur compounds,(Ajoene, allyl sulfides, and vinyldithiins)andAllicin
3	Burberis vulgarisLinn.	Jaundice barberry	Berberidaceae	Bark andRoot	Berberine
4	Camellia sinensis (L.) Kuntze	Tea plant	Theaceae	Leaves and Leaf buds	Epicatechin (EC),Epigallocatechin (EGC), Epicatechin-3-gallate (ECG), and Epigallocatechin-3-gallate (EGCG)
5	<i>Coleus forskohlii</i> (willd.) Briq	Marunthu koorkankizan ku	Lamiaceae	Tuberous root	Forskohlin,Arjunic acid
6	Commiphora mukul (Jacq.) Eng.	Guggul	Burseraceae	Gum andResin	Guggulsterones,Z-guggulsterone, Guggulipids
7	Crataeguş oxyacantha Linn.	Hawthorn	Rosaceae	Berries, Leaves andFlowe rs	Oligomeric proanthocyanidins, Catechin, Quercetin, Epicatechin
8	Crocus sativus Linn.	Saffron	Iridaceae	Stigmas	Crocetin, Picrocrocin

9 10	Curcuma longa Linn. Digitalis lanata Linn.	Turmeric Grecin foxglove	Zingiberaceae Scrophulariace ae	Rhizome Leaves	Curcumin(diferuloylmethane) C3 Cardiac glycosides
11	Emblica officinalis Gaertn.	Amalaki, amla	Euphorbiaceae	Fruit	Vitamin C, Gallic acid, Emblicanin A,B
12	Inularacemosa HOOK. F	Indian elecampane	Asteraceae	Rootand Rhizome	Alantolactone, isoalantolactone
13	<i>Nelumbo nucifera</i> Gaertn	Indian Lotus	Nymphaeaceae	Flowers andRhizo me	Quercetin,Luteolin
14	Piper longum L.	Long pepper,Thipp ali	Piperaceae	Fruitand Root	Piperlongumine
15	Psidium guajava L.	Guava	Myrtaceae	Fruit andLeave s	Quercetin, Lycopene,vitamin C
16	Punica granatum L.	Pomegranate	Puniacaceae	Fruitsand flowers	Hexahydroxydiphenic acid,Gallic acid, quercetin, Punicic acid,
17	Terminaliaarjuna W. and A.	Maruthamara m	Combretaceae	Bark	Arjunolic acid,Arjunic acid, Glycosides, Gallic acid, oligomeric proanthocyanidins
18	Terminaliachebula Retz.	Haritaki	Combretaceae	Fruit, Bark andseed	Pentacyclictriterpenes, vasicine and vasicinone,Ellagic acid,chebulic acid
19	<i>Withaniasomnifera</i> Dunal	Winter cherry, Ashwagandha	Solanaceae	Tuber andRoot	Withaferin A
20	Zingiberofficinale Roscoe.	Ginger	Zingiberaceae	Root	Galanolactone

Table 3. List of medicinal plants used by Irula tribal for the treatment of stomach disorders.

S.NO	Botanical name	Name of the family	Common name	Part used	chemical constitution
1	Abrusprecatorius L.	Fabaceae	Kuntrymani	Seed	2,3-diphospho-d- glyceric Acid
2 3	Achyranthesaspea Linn.	Amaranthaceae	Chirchitta	whole plant	C-glycosides
3 4	Aconitum heterophyllumL. Adina cordifolia	Fabaceae	Athividayam	whole plant	Heterophylline,Hetisine
	(Roxb.)	Rubiaceae	Kadami	leaf, flower	Rhamnopyranosyl
5	Ageratum conyzoidesL	Asteraceae	Chick weed	whole plant	Leucoanthocyanins
6	Caesalpiniapulcherrima Linn.	Fabaceae	Peacock Flower	Leaf	Terpinene
7	Carica papaya Linn.	Caricaceae	Papaya	fruit, seed	cardiac glycosides
8	Cassia occidentalis(L)	Fabaceae	Ponnavarai	roots, leaves and seeds	Chrysophanol 1

Table 4. List of medicinal plants used by Irula tribal for the treatment of kidney disorders.

S. No	Botanical Name	Family	Common Name	Parts used	Chemical constitution
1	Abutilon indicum Linn.	Malvaceae	Thuthi	Leaf	Ethylacetate, Chloroform, Methanolic, Aphrodisiac,

					Lavativa Marailana
2	Aervalanata L.	Amarandhaceae	Kanpulai	Root, leaf	Laxative, Mucilage β-Sitosterol, α-amyrin,betulin, Hentriacontane, Sitosterylpalmitate, D-glucoside, Glycosides, Rhamnogalactoside
3	Abelmoschu sesculandus L.	Malvaceae	Vendai	Fruit	Saponins, Glycosides, linoleic, linolenic, oleic acid, squalene
4	Amarandhu scaudatus L.	Amarandhaceae	Cirukeerai	Root.	β-carotene.Triterpenoids, Saponins, Glycosides, linoleic,
5	Boerhaavia diffusa L.	Nyctaginaceae	mukkurttaikk oti	Root	linolenic ,oleic acid, squalene phlobaphenes and ursolic acid
6	Bryophyllum pinnatum (Lam.) oken	Crassulaceae	Malaikali	Leaves	β-D-glucopyranoside , nundecanyl, flavanoids ,flavones, falvans, flavanones,
7	Coleus aromaticus Benth.	Lamiaceae	Karpuravalli	Leaves	isoflavonoids, chalcones, Oleanolic acid, 2,3- dihydroxyoleanolic acid, Crategolic acid, Ursolic acid, Pomolic acid, ssEuscaphic acid,
8	Celosia argentia L.	Verbenaceae	Kozhikontai	Seed, root	, 6-methoxygenkwanin,quercetin, Chrysoeriol, Luteolin, Apigenin, Flavanoneeriodyctol, Flavanol
9	Cissampelos pareira L.	Menispermaceae	Ponmusutai.	Leaf,ro ot	7, 12- dimethylbenz(a)anthracene (DMBA),polycyclic aromatic
10	Clerodendrum serratum L.	Lamiaceae	Thalunarai	Leaf	hydrocarbon (PAH), peroxides, calcium, magnesium ,uric acid, carbohydrates
11	Dolichosbiflorus L.	Fabaceae	Kollu	Root	petroleum ether, Alcohol, Calcium chloride dehydrate, Sodium oxalate, Disodium hydrogen phosphate
12	Gompherna serrate L.	Amarandhaceae	Arasan con todo	Whole plant	sulphur, chlorine, potassium, calcium, chromium, manganese, cobalt, Nickel, copper, Zinc
13	Hemidesmus indicus L.	Asclepiadaceae	Nanari	Root	4-hydroxy-3-methoxy-cinnamic acid, 4-hydroxybenzoic acid, p-hydroxycinnamic
14	Lagenaria siceraria (L.)	Cucurbitaceae	Surakkai	Fruit	α- and β-amyrins, calcium albumin and alanin transaminase, β-D-
15	Moringa oleifera L.	Moringaceae	Murungai	Root	glucopyranoside alkaloids, moriginine, bacteriocide, spirochin, vitamins
16 17	Momordica charantiaL. Phyllandhus niruri	Cucurbitaceae	Pakarkai.	Leaves	Alkaloid, glycosides, reducing sugar, saponin Alkaloid, glycosides, reducing
17	(L.)	Phyllandhaceae	Keezhanelli	Root	Alkaloid, glycosides, reducing sugar, saponin phosphatase
18	Scoparia dulcis (L.)	Scrophuraliaceae	Sarkaraivemp u	Root,sh oot	Calcium chloride, sodium oxalate, calcium chloride.
19	Tribulus terrestis L.	Zygophyllaceae	Nerunji	Whole plant	Peroxide,malondialdehyde,ethan alic,protein,carboxinyl,catalase glutathione, dithiobis, nitrobenzoic acid

The most important aspect of the Irula tribal medicine is that fresh plant material is used for the preparation of medicine. Alternatively, if the fresh plant parts are not available, dried plant materials are used. For this reason several plants served as edible food and alternative remedy to cure a more than single diseases. From this study it is clear that Irula tribal possess innate ability to discern the character of plants and exploit the plant resources to meet their health care needs.

4. CONCLUSION

In the present investigation, a total of 85 species of medicinal plants distributed among 80 genera belonging to 48 families were identified at Konbanur village, Anaikatti hills, the Western Ghats, Coimbatore district. In this survey Amarandaceae, Asteraceae and Solanaceae family species served as a food and Asclepiadaceae, Combretaceae, Rhamnaceae and Liliaceae, Euphorbiaceae and etc., families are utilized for various ailments. It is clearly indicates that there is wide usage of local flora by the Irulars community in study area.

This rural area is an important source of traditional medicines. More information may be explored from the peoples residing in the remote villages in this district. The traditional healers are the main source of knowledge on medicinal plants. This knowledge has been transmitted orally from generation to generation; however it seems that it is vanishing from the modern society since younger people are not interested to carry on this tradition. It is also observed that some traditional plants in that area are fast eroding. The conservation efforts are needed by plantation and protection of these plants with maximum participation of local people.

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