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RESEARCH ARTICLE

ETHNOBOTANICAL SURVEY ON HARICHANDRAPURAM AND HANUMANTHAPURAM VILLAGE, NEEDAMANGALAM TALUK, THIRUVARUR DISTRICT

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ABSTRACT

Varicose vein is quite common disease seen in 10% of general population. It presents as dilated, tortuous veins or telangiectasias with reticular varicosities. Various risk factors in development of varicose veins include female sex, obesity, inactivity and family history. Our study was conducted on 30 patients with below knee varicose veins satisfying the inclusion and exclusion criteria, chosen from the in-patients of Surgery Department, J.S.S. Hospital, Mysore. Foam sclerotherapy was performed in below knee GSV with 3% polidocanol using TESSARI method. Patients were scored pre and post operatively with CEAP and duplex scan. Data was compared for CEAP grading, complications, pain scaling, cosmetic improvement, pre-operative and post operative duplex scan. Patients showed good cosmetic results with foam sclerotherapy as a significantly effective method for treatment of varicose veins. Side effects like haematoma, DVT and wound infection were not seen in our study.

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INTRODUCTION

Ethnobotany word is made from two words ethno and botany and the term was coined by John William Harshberger in the 1890. Ethnobotany is the study of people and study of plants; this is represented good relationship between wild plants (Herbs, Shrubs and Trees) and tribal's. Ethnobotany is the branch of Ethnobiology and complete information about plants and their medicinal uses is given by ethnobotanical studies (Rahul Jitin, 2013). Plants represent an enormous pool of natural resources that can produce various products and chemicals for the advantages of all other life forms and ethnobotany reveals historical and present plant use to fulfill a wide variety of human needs, so the documentation of ethnobotanical knowledge is important for species conservation and sustainable use of resources. Furthermore, such studies are often significant in revealing locally important plant species, sometimes leading to the discovery of crude drugs (Uprety Yadav *et al.*, 2010; Bharat Bhushan and Mukesh Kumar, 2013).

The collected plant species were identified taxonomically using the Karnatic flora (Panghal *et al.*, 2010) and the flora of Tamil Nadu Carnatic (Ahmad, 1999), Indian medicinal plants and dictionary of medicinal plants. The identified plants species were then confirmed to the Herbaria of Rapinet, St. Joseph's College, Tiruchirappalli. The plants are arranged alphabetically by botanical names, family, local name, useful part and ethnobotanical uses for different diseases.

MATERIALS AND METHODS

Study area: Needamangalam formerly Yamunambalpuram, is a municipality town in Thiruvavur district in the Cauvery Delta of Indian state of Tamil Nadu. Needamangalam was originally part of composite Tanjore District (Madras Presidency) during British Raj until 1997 AD. In the 18th and 19th century, it was also called Yamunambapuram (see section on Santhana Ramaswamy Temple below). Needamangalam is the headquarters of the Needamangalam Taluk. The town is located 20 km east of Thanjavur, 80 km east of Tiruchirappalli and 318 km south of Chennai. Latitude: 10° 46' 25.61" N Longitude: 79° 25' 7.50" E (Figure: 1). The town is surrounded by three rivers and town limit could not extend any more within those boundaries. Hence it is also named as *needatha mangalam* means "limited area". Needamangalam Taluk is crossed by the Vennar River in the north and the Koraiyar River in the south. Near the Bay of Bengal, the Vennar River branches into three major distributaries, the northern branch retains its original name, Vennar. Other two branches are the Paminiyaar and the Koraiyar. They flow down to Muthupet Lagoon and from there join the sea.

METHODOLOGY

Most of the information was gathered from the elderly people, who have a very long acquaintance with the usage of plants. Many people also feel that we must maintain biodiversity because our role as the dominant species on earth confers upon as the responsibility for the wide and careful stewardship of life. The survey of period of the plants were from January to

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May (2014). In addition to the local name, useful parts and medicinal uses was also recorded. Methods of Jain and Rao were followed for the collection of data and voucher specimen during the field study (Jain and Rao, 1977). Specimens of all species were collected, photographed and identified with the help of available floras (Duthie, 1903 – 1922; Maheshwari, 1963; Kumar, 2001; Anonymous, 1922). The medicinal uses of plant species were cross checked from the available literature. Voucher specimens were prepared in the form of herbarium and deposited in the Botany Department, A.V.V.M Sri Pushpam College (Autonomous), Poondi, Thanjavur (Dt).



Figure 1 Map showing location of the study area

Diseases Cured by Medicinal Plants

The villagers used various medicinal plants to remediate a variety of diseases and ailments like diarrhoea, diabetes, asthma, fever, jaundice, rheumatism, wounds, cuts, stomach pain, cough, cold, poisonous bites, body heat, body pain, bowl complaint, bronchitis, dysentery, ear- ache, eczema, eye troubles, hair growth, intestinal worms, jaundice, leprosy, menstrual trouble, piles, pimples, ulcer, tooth-ache, urinary troubles, vomit, etc., the villagers used these medicinal plants in the form of juice, paste, powder, extract, decoction, cooked or raw forms.

Parts of Medicinal Plants Used

The villagers used diverse parts of the medicinal plants based on their ability to cure disease such parts includes leaf, roots, bark, seed, fruit, flower, stem, etc.

RESULT AND DISCUSSION

The medicinal plants survey revealed that 110 species were being and used as medicine (Table – 1). These species belong to 100 genera and 49 families (Figure -2). Habit wise grouping shows herbs 38% were more frequently used for traditional medicine preparations as compared to Trees 31%, Shrubs 27%, Climbers 8%, Twining shrub 1%, Woody climber 1%, Aquatic herb 1% and climbing herb 1% (figure – 3). The family Euphorbiaceae was represented by recorded (7 species) followed by Acanthaceae, Malvaceae, Solanaceae, Verbenaceae (6 species each), Caesalpiniaceae, Fabaceae (5 species each), Anacardiaceae, Apocynaceae, Asclepiadaceae (4 species each), Amaranthaceae, Cucurbitaceae, Lamiaceae, Mimosaceae, Poaceae and Rutaceae (3 species each), 6

families were represented by 2 species each and 27 families were represented by single species (Table – 1)

Table 1 Family wise number of genera and species present in the study area

S.No	Family	No. of genera	No. of species
1.	Acanthaceae	6	6
2.	Aizoaceae	2	2
3.	Amaranthaceae	3	3
4.	Anacardiaceae	4	4
5.	Annonaceae	2	2
6.	Apiaceae	1	1
7.	Apocynaceae	4	4
8.	Arecaceae	1	1
9.	Aristolochiaceae	1	1
10.	Asclepiadaceae	4	4
11.	Asteraceae	2	2
12.	Basellaceae	1	1
13.	Boraginaceae	1	1
14.	Cactaceae	1	1
15.	Caesalpiniaceae	3	5
16.	Capparidaceae	1	1
17.	Caricaceae	1	1
18.	Cucurbitaceae	3	3
19.	Euphorbiaceae	5	7
20.	Fabaceae	5	5
21.	Lamiaceae	3	3
22.	Liliaceae	1	1
23.	Lythraceae	1	1
24.	Malvaceae	5	6
25.	Meliaceae	1	1
26.	Menispermaceae	1	1
27.	Mimosaceae	3	3
28.	Moraceae	1	2
29.	Moringaceae	1	1
30.	Myrtaceae	2	2
31.	Nyctaginaceae	1	1
32.	Nymphaeaceae	1	1
33.	Oleaceae	1	1
34.	Papaveraceae	1	1
35.	Passifloraceae	1	1
36.	Pedaliaceae	2	2
37.	Plumbaginaceae	1	1
38.	Poaceae	3	3
39.	Punicaceae	1	1
40.	Rhamnaceae	1	1
41.	Rutaceae	3	3
42.	Salvadoraceae	1	1
43.	Sapindaceae	1	1
44.	Sapotaceae	1	1
45.	Solanaceae	3	6
46.	Verbenaceae	6	6
47.	Violaceae	1	1
48.	Vitaceae	1	1
49.	Zygophyllaceae	1	1

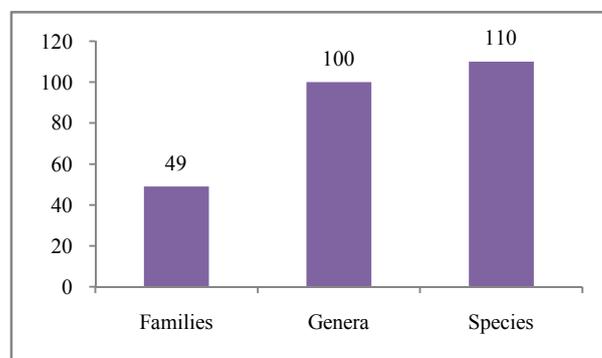


Figure 2 Proportion of Families, Genera and Species of important plants

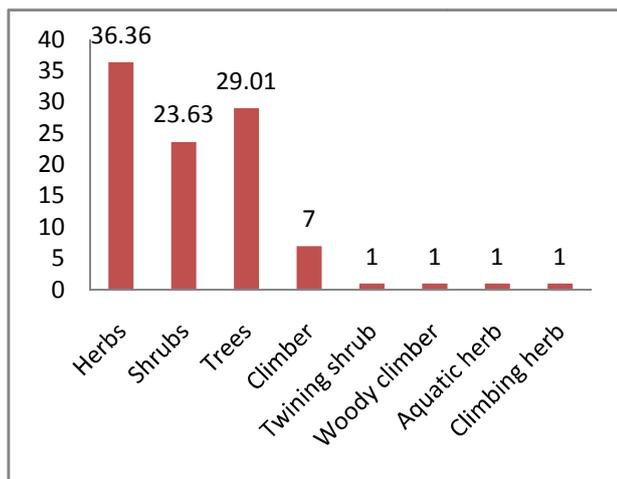


Figure 3 Showing proportion of percentage of herbs, shrubs, trees, climbers, twining shrub, woody climber, aquatic herb and climbing herb

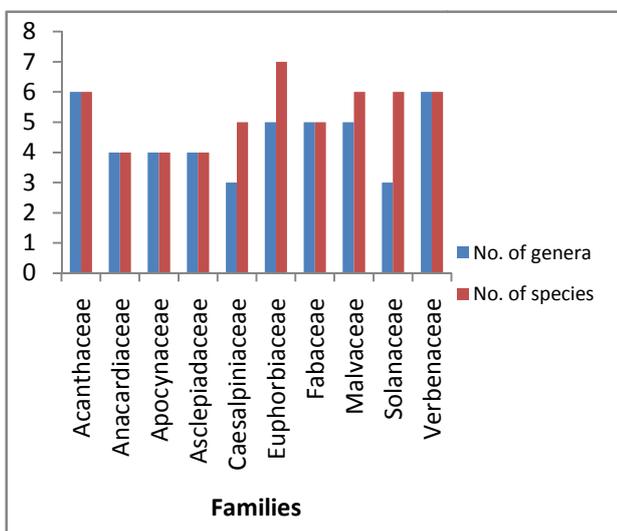


Figure 4 - Number of Genera and Species in leading families of collected plants

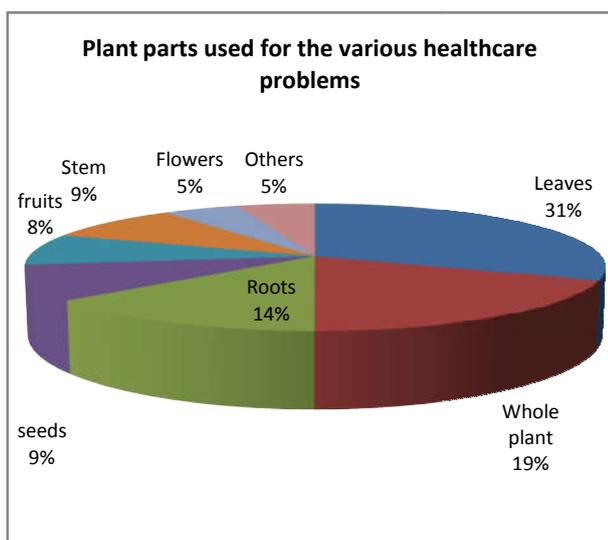
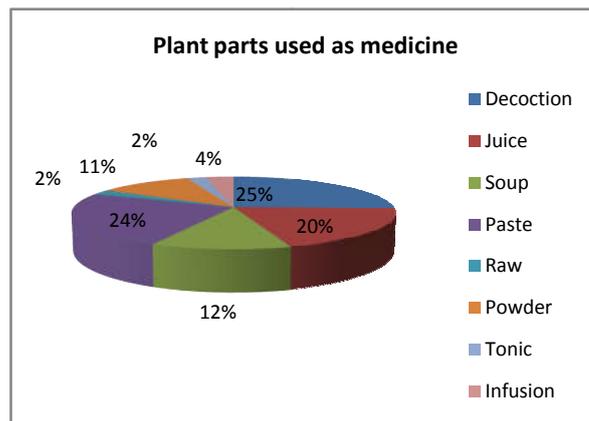


Figure - 5 Percentage of different plant parts used in traditional medicine



Figures: 6 Processing of medicinal plant / parts for crude drug preparation in this study area

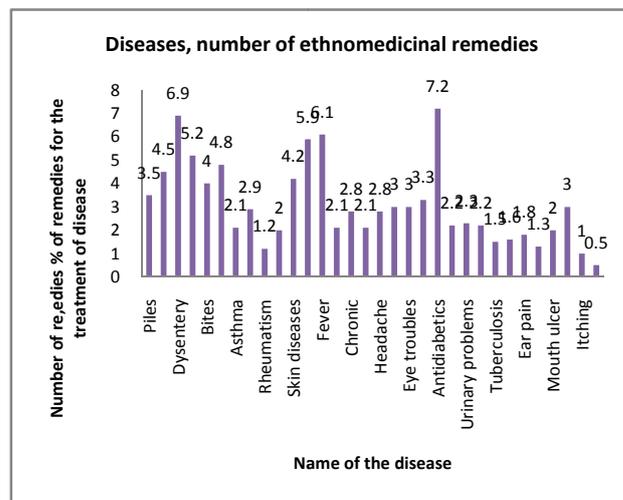


Figure 7 Distribution chart of the medicinal plants used in the treatment of ailments

(Figure - 4). Most widely used medicinal parts are the leaves, accounting 30.12% of the reported medicinal plant uses, followed by whole plant (18.41%), root (13.56%), seeds (8.6%), and fruits (7.73%), stem (8.75%) and flower (4.85%). Some other plant parts such as tuber, rhizome, bud, latex, bark, fibre, oil, resin, milky latex and unripe fruits are also used. Occasionally which account for only (5%) of the total uses of the plant parts (Figure - 5). as far as mode of use and administrations are concerned majority of the plants are used in form of decoction followed by paste (Figure - 6). Diseases, number of ethnomedicinal remedies (Figure - 7) with the help of these plants a wide range common ailments like diarrhoea, dysentery, headache, asthma, ulcer, rheumatism, indigestion, toothache, diuretic, diabetes, gonorrhoea, skin disease, kidney stone, hypertension, piles, cancer etc., are treated. Greater part of the preparations in the form of juice, decoction, paste and powder extracted from the freshly collected plant parts are taken orally. In the following account these species have been listed with botanical name, family, local name, habit, parts used, ailments, preparations, tamil terms and status (Table - 2) (Figure - 7).

Table 2 List of plants in Harichandrapuram and Hanumanthapuram Village

S.No	Scientific Name	Family Name	Local Name	Habit	Parts used	Ailments	Preparation	Tamil terms	Status
1.	<i>Abutilon indicum</i> (L.) Sweet	Malvaceae	Thutti	Shrub	Leaf, fruit	Piles, dental problems	Juice	Moolam, parkal sambanthama noikal	C
2.	<i>Acacia nilotica</i> Linn	Mimosaceae	Karuvelam	Tree	Stem, bark, leaves	Foul odor, teeth strength, dysentery, cough	Raw, juice, decoction	Vai thurnatram, pal valimai, seethabaethi, irumal	C
3.	<i>Acalypha indica</i> Linn	Euphorbiaceae	Kuppaimeni	Herb	Leaves	Fungal infection, itching	Paste	Poochikkadi, arippu	C
4.	<i>Achyranthes aspera</i> Linn	Amaranthaceae	Nayuruvi	Herb	Leaves, seed, root, whole plant	Scorpion bites, cuts, wounds, body strength, dogs bites, kidney stone	Paste, Decoction	Thaelkadi, veetukkayam, kaayam, Udal valimai, naaikadi, seeruneerkal	C
5.	<i>Adathoda vasica</i> Nees	Acanthaceae	Adathoda	Shrub	Leaves, Root	Asthma, cough, bronchitis, ear ache, intestinal worms	Paste, juice, decoction	Moochuthinaral, Irumal, chali and irumal, kaadhu vali, kudar pulu	OC
6.	<i>Aegle marmelos</i> Linn	Rutaceae	Vilvam	Tree	Leaves, fruit	Blood purifier, swellings, heal wounds	Juice, paste	Rattha sutthigarippu, veekam, ulkaayam	C
7.	<i>Albizia lebeck</i> (L.) Benth	Mimosaceae	Vagai	Tree	Leaves, root	Asthma, cough, bronchitis, skin diseases, wheezing, rheumatism	Paste, juice	Moochuthinaral, irumal, thol noigal, mootu vali	OC
8.	<i>Aloe vera</i> Linn	Liliaceae	Katralai	Herbs	Leaves	Body cooling, pimples, burns, rheumatism, cancer	Paste, raw	Udal kulircchi, mugapparu, theekayam, mootuvali, kattigal	C
9.	<i>Alstonia scholaris</i> (L.) R.Br.	Apocynaceae	Aelilaiपाल	Tree	Bark, leaves, root	Cholera, asthma, epilepsy, ulcer, tooth ache, dysentery, diarrhoea, snake bites, skin diseases	Decoction, juice, tonic	Irumal, kudaripoon, pal vali, vaitrupokku, pampukadi, thol noigal	TH
10.	<i>Alternanthera sessilis</i> Linn	Amaranthaceae	Ponnankani	Herb	Leaves, flower	Piles, increasing energy, eye problems, diuretic	Soup	Moolam, sakthi velipaduthal, kan sambathaman prichanaigal, seruneerperukkiveekam	C
11.	<i>Anacardium occidentale</i> Linn	Anacardiaceae	Munthiri	Tree	Fruit, seed	Asthma, headache, burns, male fertility	Raw, paste, endosperm	Moochu thinaral, thalai vali, theekayam, aanmai sakth perukkuthal	C
12.	<i>Andrographis paniculata</i> Burm.f.	Acanthaceae	Nilavembu	Herb	Leaves	Scorpion bite, snake bite, diabetes, antipyretic	Paste, powder	Thaelkadi, pambukkadi, sarkkarai noi, kaichal neeguthal, udar puthunarchi	C
13.	<i>Anisomeles malabarica</i> Burm.f.	Acanthaceae	Peimiratti, Narimiratti	Shrub	Leaves	Fever, swelling, rheumatism	Decoction	Kaichal, veekam, vaatha nooi	C
14.	<i>Annona squamosa</i> Linn	Annonaceae	Setha pazham	Tree	Whole plant, fruit	Body refreshment, hair growth, dysentery	Raw	Udal puthunarchi, Mudi valardhal, vaitru pokku	C
15.	<i>Arbus precatorius</i> Linn	Fabaceae	Kundumani	Climber	Root	Scorpion sting, snake bite	Powder	Thaelkadi, Pambukkadi	C
16.	<i>Argemone maxicana</i> L.	Papaveraceae	Kudiyotti	Herb	Seed	Digestive disorder,	Powder	serimana thontharavu	C
17.	<i>Aristolochia indica</i> L.	Aristolochiaceae	Isvaramuli	Twining shrub	Root	Bowel troubles, skin infections, snake bites, blood pressure, asthma, indigestion, fever, diarrhoea, itching	Juice, powder, tonic	Malachikkal, Tholthotrugal, pambukadi, rathaalutham, moochuthinaral, serimanaminmai, kaichal, vaitrupokku, arippu	LC
18.	<i>Azadirachta indica</i> A.Juss	Meliaceae	Vembu	Tree	Stem flower, leaves	Insect bite, stomach ache, ulcer, disease resist, scabies, chicken pox, inflammations	Infusion, decoction, paste	Poochi kadi, vaitru vali, kudar poon, vayitruvali, noi ethirppu sakthi, ammai veeguthal, vekkangal	C
19.	<i>Azima tetracantha</i> Lam	Salvadoraceae	Sangilai	Shrub	Leaves, root	Diuretic, dropsy, chronic, pregnancy womens used	Boils, juice	Siruthoondi veekam, seruneer perukki, veekam, needitha noi, karpinigal upayogapaduthual	C
20.	<i>Bambusa arundinacea</i> (Retz)	Poaceae	Moongil	Shrub	Seed	Rheumatism, cough, cold, asthma, stomach disorders	Paste, tonic	Mootu Noi, irumal, kaichal, eelai noi, vaitru kolaru	C
21.	<i>Basella rubra</i> L.	Basellaceae	Kodipasalai	Herb	Root, leaves	Cold, cough, diarrhoea, dysentery, swelling, diuretic, tooth ache	Juice	Kaichal, irumal, paethi, vaitru kaduppu, veekam, seruneer peruki, pal vali	C
22.	<i>Bauhinia tomentosa</i> L.	Caesalpinaceae	Eruvachi	Tree	Flower, root, bark	Dysentery, diarrhoea, stomach ache, snake bite	Juice, paste	Vaitru kadupu, paethi, vaitru vali, pambu kadi	C
23.	<i>Boerhavia diffusa</i> Linn	Nyctaginaceae	Mookarattai	Shrub	Root, leaves	Scabies, blood purifier, heart disease, asthma, anaemia	Paste	Sirangu, rattha sutthigarippu, idhaya nooi, eelai noi, ratha sogai	C

24.	<i>Bombax ceiba</i> L.	Malvaceae	Mullilavu, Ilavupangumaram	Tree	Root	Cold and cough	Paste	Kaaichal, irumal	C
25.	<i>Cajanus cajan</i> (L.) Huth	Fabaceae	Thuvarai	Shrub	Leaves	Cholera, stomatitis	Juice	Vanthi paethi, vaai poon	OC
26.	<i>Calotropis gigantea</i> L.Br. ex Ait	Asclepiadaceae	Erukku	Shrub	Latex, root	Skin irritations, fever, labor pain, rheumatism, indigestion, cough, cold, diarrhea	Decoction	Thol erichal, kaaichal, eenal vali, moottu noi, serimanaminmai, irunal, Sali paethi	C
27.	<i>Cardiospermum halicacabum</i> Linn	Sapindaceae	Mudakkathan	Climber	leaves	Delivery pain, body pain, body refreshment, asthma, chest cold, darkening the hair	Decoction, juice	Pirasava vali, udal vali, udal puthunarchi, eelai noi, nengu vali, mudi niramuthudal	V
28.	<i>Carica papaya</i> Linn	Caricaceae	Pappali	Tree	Latex, leaves, fruit	Easy delivery, viral fever, eye cooling, skin diseases, ring worm, cuts, wounds, jaundice	Raw, juice	Sulabamana pirasavam, virus kaaichal, kan kulircchi, thol noi, urundai pulukkal, vettukayam, manjal kamalai	C
29.	<i>Cassia alata</i> Linn	Caesalpiniaceae	Seemai agathi	Shrub	Flower, leaves, roots	Abortion, ring worm, asthma, skin diseases, sexual weakness	Decoction	Karu kalaippu, urundai pulukkal, eelai noi, thol noi	C
30.	<i>Cassia auriculata</i> Linn	Caesalpiniaceae	Avaram poo	Shrub	Fruit	Dandruff, stomach ache, skin irritation, itching	Paste, juice	Podugu, vaitruvali, thol alargey, arippu	LC
31.	<i>Cassia tora</i> L.	Caesalpiniaceae	Sirukkondrai	Shrub	Leaves	Cold, cough, ringworm, itching,	Decoction	Jalathosam, irumal, padai, arippu	C
32.	<i>Catharanthus roseus</i> G.Don	Apocynaceae	Nityakalyani	Shrub	Whole plant	Diabetics	Paste	Sarkkarai noi	C
33.	<i>Centella asiatica</i> L. (Urb).	Apiaceae	Vallarai	Shrub	leaves	Memory power, headache, stomach ache, indigestion	Paste or juice	Gnabaga sakthi, thalai vali, vaitru vali, serimanam, serimanaminmai	C
34.	<i>Cissampelos pareira</i> L.	Menispermaceae	Thaalikodi	Climber	Leaves, roots,	Body ache, stomach ache, cough, cold, breathing troubles, snake bite	Infusion, paste	Udal vali, vaitru vali, jalathosam, mooththinaral, paambu kadi	C
35.	<i>Cissus quadrangularis</i> Linn	Vitaceae	Pirandai	Shrub	Stem, leaves	Bone breakage, stomach ache	Paste, juice	Elumpu murivu, vaitru vali	C
36.	<i>Citrus aurantifolia</i> (Christm and Swingle)	Rutaceae	Elumitchai	Tree	leaves	Fever, headache, cold	Juice, paste, boiled	Kaicchal, thalaivali, Sali	C
37.	<i>Clerodendrum inerme</i> Linn	Verbenaceae	Pieinarisangu	Herb	Leaves, roots	Fever, rheumatism, itches, fever, cough, urinary disorders, dysentery, asthma	Juice	Kaicchal, mottuvali, arippu, kaaichal, irumal, seruneerpai sambathama noi, vatirupokku, mooththinaral	C
38.	<i>Cleome viscosa</i> Linn	Capparidaceae	naaikadugu	Herb	leaves	Wound, ear ache. diaphoretic, rubefacient, jaundice, head ache, skin diseases,	Paste	Kaayam, kaduvali, viyarvaiundakki, tholsivappathal, manjalkamalai, thali vali, thol noi	C
39.	<i>Coccinia indica</i> Linn	Cucurbitaceae	Kovai	Climber	Leaves, fruit	Diabetic, jaundice, skin disease	Juice, paste	Sarkkarai noi, manjal kaamalai, saruma noi	C
40.	<i>Cocos nucifera</i> L.	Arecaceae	Thennai maram	Tree	Fibre, oil	Chest pain, hair growth	Oil	Nenju vali, mudi valarthal	C
41.	<i>Coleus aromaticus</i> Benth	Lamiaceae	Karupura valli	Herb	Tuber	Heavy cold, cough, asthma	Juice	Jalathosam, irumal, eelai noi	C
42.	<i>Commelina benghalensis</i> Linn	Commelinaceae	Thenga chedi	Herb	Stem	Wounds, mouth thrush, skin diseases, tooth ache, snake bites, swelling, scabies	Paste, decoction	Kaayam, vaaipoon, thol noi, palvali, pambukadi, veekam, sori sirangu	C
43.	<i>Cucumis sativus</i> L.	Cucurbitaceae	Vellarikkay	Climber	Leaves	Fever, dysentery, throat infection, cooling, diuretic	Juice	Kaicchal, vaitrupokku, thondai poon, udal kulirchi, seruneerperukkiveekam	OC
44.	<i>Cynodon dactylon</i> Linn	Poaceae	Arugampul	Herb	Whole plant	Gastric problems, blood purifier, Body ache	Juice, Decoction	Vayvu kolaru, rattha sutthigarippu, Udal vali	C
45.	<i>Datura metel</i> Linn	Solanaceae	Oomathai	Herb	Leaves	Ear ache, dog bite, skin disorders, wounds, fever, asthma	Juice, paste	Kaadhu vali, Naaikadi, thol noi, kaayam, kaaichal, mooththinaral	C
46.	<i>Delonix elata</i> Linn	Caesalpiniaceae	Vadhanarayana	Tree	Leaves	Piles, rheumatism, cough	Paste	Moolam, mottu noi, irumal	C
47.	<i>Eclipta prostrata</i> Linn	Asteraceae	Karsialankanni	Herb	Root , leaves	Reduce body heat, head ache, hair growth, eye troubles, fever	Paste	Udal soodu thanithal, Thalai vali, mudi valardhal, kan kolaru, kaaichal	C
48.	<i>Chloris barbata</i> Sw.	Poaceae	Kodai pllu, kotaippul	Herb	Leaves	Skin diseases, fever, diarrhoea, diabetes	Paste	Thool nooi, kaaichal, paethi, sarkkarai noi	C

49.	<i>Euphorbia hirta</i> Linn	Euphorbiaceae	Amman pacharisi	Herb	Leaves, latex	Asthma, cough, snake bites, lip cracks	Paste, infusion	Moocchu thinaral, pambukkadi, uthadu vedipu	OC
50.	<i>Euphorbia tirucalli</i> L.	Euphorbiaceae	Kalli	Herb	Root, stem, latex	Rheumatism, tooth ache, ear ache, asthma, cough, purgative, wound healing, snake bite, stomach ache, cancer	Juice	Mootu noi, pal vali, kaathu vali, moochu thinaral, irumal, paethi marunthu, kaayam, pambukadi, vaitruvali,	LC
51.	<i>Ficus benghalensis</i> Linn	Moraceae	Alamaram	Tree	Latex, fruit, root, young bark	Heel cracks, sperm production, teeth strength, wound healing	Paste, powder, raw	Patha vedipu, Uyiranu urpathi, pal valimai, poon aatruthal	C
52.	<i>Ficus racemosa</i> Linn	Moraceae	Athimaram	Tree	Stem, latex	Heal cracks, sperm production, dysentery, diabetics	Paste, juice	Patha vedipu, Uyiranu urpathi, paethi, sarkarai noi	C
53.	<i>Glinus oppositifolius</i> (L.) A.DC	Aizoaceae	Perunthiray	Herb	Leaves, root	Skin diseases, Stomach pains, aperients, antiseptic, earache, liver diseases, jaundice, wound healing, inflammation, fever, diarrhoea	Juice	Thol nooi, vaitru vali, mamilakum marunthu, kirumi naasini, kathu vali, kalieral noi, manjal kamalai, kayam, veekam, kaaichal, vaitrupokku	C
54.	<i>Glycyrrhiza glabra</i> R.Br.	Fabaceae	Athimadhuram	Herb	Root, leaves	Body pain, cooling agent, cough	Decoction, juice	Udali vali, kulirchi nivarani, Irumal, putrunoi	C
55.	<i>Gomphrena globosa</i> L.	Amaranthaceae	Vaada malli	Herb	Flower head	Hypertension, cough, diabetes, oliguria, asthma, chronic, bronchitis, headache, dysentery, diabetes, whooping cough,	Decoction	Uyarratha alutham, Irumal, neeralivu, seruneeruripathi kuraithal, moochuthinaral, needitha irumal, moochu kulai alarchi, thalai vali, vaitrukadupu, neeralivu, kakkuvan irumal	C
56.	<i>Gymnema sylvestre</i> R.Br.	Asclepiadaceae	Sakkaraikolli	Woody climber	leaves	Diabetes, cough, snake bite, diuretic	Paste	Sarkarai noi, irumal, pambu kadi, seruneerpirippu	C
57.	<i>Heliotropium indicum</i> Linn	Boraginaceae	Thelkodukku	Herb	Whole plant	Wound, skin disease	Paste	Kaayam, saruma noi	C
58.	<i>Hemidesmus indicus</i> R.Br.	Asclepiadaceae	Nannari	Shrub	Root, whole plant	Jaundice, cooling agent, body pain, diuretic, blood purifier	Juice, paste, decoction	Manjal kamalai, kulirchi nivarani, udali vali, ratha suthikarippu	EN
59.	<i>Hibiscus rosa-sinensis</i> Linn	Malvaceae	Chembaruthi	Herb	Leaves	Hair growth, dandruff	Paste	Mudi valardhal, podugu	C
60.	<i>Hybanthus enneaspermus</i> F.Muell	Violaceae	Orithal thamarai	Shrub	Whole plant	Cough, diuretic	Paste, tonic	Irumal, seruneerperukki	C
61.	<i>Hydrophilla auriculata</i> Heine	Acanthaceae	Neermulli chedi	Shrub	Root, leaves, stem	Scorpion bite, indigestion, heart strength	Paste, juice	Thaelkadi, serimaanam, idhaya valimai	C
62.	<i>Indoneesiella echioides</i> L.	Acanthaceae	Gopuramtangi	Herb	Leaves	Gastric ulcers, fever, itches	Juice, paste	Vatiru poon, Kaaichal, arippu	C
63.	<i>Lantana camera</i> Linn	Verbenaceae	Unni chedi	Shrub	Leaves	Head ache, swellings, rheumatism, cancer, urinary disorders	Paste	Thalai vali, veekam, mootu vali, kattigal	C
64.	<i>Lawsonia inermis</i> Linn	Lythraceae	Maruthondri	Shrub	Leaves	Wounds, hair growth	Paste	Kaayam, mudi valarthal	OC
65.	<i>Leucas aspera</i> Spreng	Lamiaceae	Thumbai	Herb	Leaves, flowers	Chronic, psoriasis, throat infection, cough, cold, sinus, jaundice, head ache	Paste	Needitha irumal, thol alarchi, thondai poon, irumal, kaaichal, mookadaippu, Thalai vali, manjal kamalai,	C
66.	<i>Lippia nodiflora</i> Mich	Verbenaceae	Poduthalai	Shrub	Leaves	Wounds, swellings, internal piles	Paste	Kaayam, veekam, rathamoolam	C
67.	<i>Mangifera indica</i> Linn	Anacardiaceae	Maamaram	Tree	Young leaves	Antidiabetics, cough, gastrointestinal, disorders	Juice	Sarkarai noi, irumal, iraipai sambanthamana noigal	C
68.	<i>Manihot esculenta</i> Crantz	Euphorbiaceae	Maravalli kizhangu	Shrub	Rhizome,	Body strength, head ache, hypertension	Raw	Udal valimai	C
69.	<i>Mimosa pudica</i> Linn	Mimosaceae	Thottalsuringi	Herb	Leaves, roots	Cuts, wounds	Paste	Veetukkayam, kaayam	C
70.	<i>Mimops elengi</i> Linn	Sapotaceae	Magizham maram	Tree	Bark, flower, fruit, seed, unripe fruit	Body cooling, dental ailments, uterine bleeding, piles heart diseases, fever, headache diarrhoea, dysentery, blood pressure,	Tonic, dental ailments	Udal kulirchi, parchottai, uthirapokku, idhayanooi, kaaichal, thalaivali, vaitrupokku, rathakothippu	C

71.	<i>Moringa oleifera</i> Lampk	Moringaceae	Murungai	Tree	Leaves, bark, seed flower	Eye cooling, cold, cough, uterine disorder, female contraception, cancer, cooling agent, sperm production	Decoction, juice, raw	Kan kulircchi, jalathosham, irumal, karupai pirchanai, karuthadai, kaatigal, kulirchi nivarani, uyiranu urpathi	C
72.	<i>Mukia maderaspatana</i> Linn	Cucurbitaceae	Musu-musukkai	Climber	leaves	Cold, cough, hair growth	Paste	Jalathosam, irumal, mudi valarthal	C
73.	<i>Murraya koenigii</i> (L.) Spreng	Rutaceae	Karuvaepillai	Tree	Leaves	Hair growth, eye disorders	Paste, juice	Mudi valarthal, kan nooigal	C
74.	<i>Nelumbo nucifera</i> Linn	Nymphaeaceae	Thamarai	Aquatic herb	Rhizome	Stomach ache, diarrhoea	Paste	Vaitru vali, seethabaethi	C
75.	<i>Nerium oleander</i> Sol.	Apocynaceae	Arali	Shrub	Stem, bark	Ear ache, asthma, epilepsy, cancer, painful menstrual periods, leprosy, skin problems	Paste	Kathu vali, moochuthinara, kalkaivalippu, putrunoi, mathavidai prichanai, tholunoi, tholnoi	C
76.	<i>Nyctanthes arbor tristis</i> Linn	Oleaceae	Pavala malli	Tree	Leaves	Joint pain, fever, rheumatism, allergy, asthma	Decoction	Mottu vali, kaaichal, mootu vali, Oovamai, moochuthinara	C
77.	<i>Ocimum tenuiflorum</i> Linn	Lamiaceae	Thulasi	Herb	Leaves	Cough, cold, head ache, stomach disorders, heart diseases	Paste	Irumal, jalathosam, thalai vali	OC
78.	<i>Odina wodier</i> Roxb.	Anacardiaceae	Oothiyam	Tree	Leaves	mouth ache, tooth ache, asthma	Juice	Vaivali, palvali, moochuthinara	C
79.	<i>Opuntia dillenii</i> Linn	Cactaceae	Sappathi kalli	Herb	Stem, leaves, unripe fruits	Burns, diabetes, gonorrhoea, stomach ache, piles, anaemia, ulcers, bronchitis, asthma	Paste, decoction, juice	Theekayam, sarakarai noi, megavetainoi, vaitruvali, moolam, ratha sogai, Vatiru poon chali and irumal, moochuthinara	C
80.	<i>Passiflora foetida</i> Linn	Passifloraceae	Mupparisavalli	Climbing herb	Whole plant	Head ache, sleeping problems, skin diseases, nervous disorders	Paste	Thalai vali, thoorkaminmai, tholnoi, narambu sambanthamana	C
81.	<i>Pedaliium murex</i> Linn	Pedaliaceae	Yanainerinchil	Herb	Whole plant	In continuous of urine, spermatorrhoea, kidney stone, fever	Decoction	Serattrra siruneerpokku, Meganooi, seeruneerkal, kaaichal	C
82.	<i>Pergularia daemia</i> (Forsk.) Chiov	Asclepiadaceae	Uttamani	Climber	Seed	Asthma, jaundice, snakebite,	Juice, decoction	Moochuthinara, manjal kaamalai, pambukadi	C
83.	<i>Phyla nodiflora</i> (L.) Greene	Verbenaceae	Poduthalai	Herb	Leaves, flowers	Cough, cold, diarrhoea, skin disorder	Paste, decoction	Irumal, kaaichal, vaitrupokku, thol noi	OC
84.	<i>Phyllanthus amarus</i> Schum and Thnn	Euphorbiaceae	Keelanelli	Herb	Leaves fruit	Jaundice, eye cooling, anemic disease	Juice, powder, decoction	Manjali kaamalai, kan kulirchii, ratha sogai	C
85.	<i>Phyllanthus emblica</i> Linn	Euphorbiaceae	Perianelli	Tree	Fruit	Cold, cough, hair growth, diabetes	Powder, juice	Jalathosam, irumal, mudi valarthal	C
86.	<i>Physalis minima</i> L.	Solanaceae	Sodukuthakkali	Herb	Whole plant	Urinary problems, diuretic, headache, itching, earache, fever, hypertension, diabetes	Tonic	Seeruneer pirachanai, seruneerperukkiveekam, thalaivali, arippu, kathuvali, kaaichal, Uyarratha alutham, sarkkarai noi	C
87.	<i>Plumbago zeylanica</i> L.	Plumbaginaceae	Venkodiveli (Chitramoolam)	Herb	Root	Diarrhoea, tuberculosis, rheumatic pain, wound, skin diseases, stop bleeding	decoction	Vaitrupokku, kasanooi, mottu vali, kayam, thol noi, rathapokai kattupadutha	C
88.	<i>Polyalthia longifolia</i> (Sonn)	Annonaceae	Netilingamaram	Tree	Stem, bark, flower	Indigestion, dysentery, ulcers,	Juice	Serimana kolaru, vaitru pookku, Vatiru poon	C
89.	<i>Pongamia glabra</i> Vent.	Fabaceae	Pungamaram	Tree	Bark, seed	Skin disease, ring worm infection, whooping cough, piles, liver pain, chronic fever, ulcers, leprosy, diarrhoea, coughs, rheumatism, itches	Paste	Saruma noi, padai, kakkuvanirumal, moolanoi, kaleral, kaaichal, vaitru poon, tholunoi, vaitrupokku, irumal, vathanoi santha, arippu	C
90.	<i>Psidium gujava</i> Linn	Myrtaceae	Koyya	Tree	Leaves	Worms in gums and teeth, diarrhoea, chest ailments, cough, throat, ulcers	Decoction, paste, ailments	Pal sotthai, vaitrupokku, marpaga noi, irumal, thondaipoon, vaitrupoon	C
91.	<i>Punica granatum</i> Linn	Punicaceae	Maadhulai	Tree	Root	Intestinal worms, diabetics, cuts, sore throats, dysentery	Infusion	Kudar pulu, neeralivunoi, veetukkayam, thondai vali, vaitrupokku,	C

92.	<i>Rauvolfia tetraphylla</i> L.	Apocynaceae	Pampukalanchedi	Shrub	Leaves, roots	Reduce blood pressure, hypnotics, diarrhoea, dysentery, cholera, fever	Tonic	Rathaaluthakuraippu, thookamarunthu, vaitrupokku, vaitrukaduppu, vanthipaethi, kaaichal	EN
93.	<i>Ricinus communis</i> Linn	Euphorbiaceae	Amanakku	Shrub	Leaves, seed	Stomach ache, increase breast milk	Paste	Vaitru vali, athiga paal surathal	C
94.	<i>Ruellia tuberosa</i> L.	Acanthaceae		Herb	Leaves, root	Scorpion bite, stones, bronchitis, cancer, syphilis, gonorrhoea, colds, hypertension, whooping cough, stomach problems, joint pains	Juice	Thelkadi, kal, kasanoi, putrunoi, meganoi, megavetainoi, kaaichal, uyarrathaalutham, kaakuvaan, vaitrusambanthamana noi, mottu vali	C
95.	<i>Seasmum indicum</i> Linn	Pedaliaceae	Ellu	Herb	Seed	Cooling agent, stomach ache	Oil	Kulirchi nivarani, vaitru vali	OC
96.	<i>Sesbania grandiflora</i> Pers	Fabaceae	Agathi	Tree	Bark, leaves, flower, stem	Small pox, sore throat, dysentery, mouth ulcer, blood pressure	Decoction, juice, soup	Seethabaethi, thondaivali, vaitrukaduppu, vaaipon, rathaalutham	C
97.	<i>Sida acuta</i> Burn.	Malvaceae	Arivalmanaipoondu	Shrub	leaves	Head ache, cuts, wound, tooth ache, ulcers, rheumatism, cough	Paste	Thalai vali, vettukkayam, kaayam, palvali, vathanoi sarntha, vaitrupoon, irumal	C
98.	<i>Sida cordifolia</i> (Burm.f.) Bross	Malvaceae	Kurunthotti	Shrub	Roots	Asthma, tuberculosis, flu, headaches, cough, wheezing, urinary infections, sore mouth, heart disease, swelling, chronic, rheumatism, weight loss	Decoction	Moochuthinaral, kasanooi, kaaichal, thalaivali, irumal, moochu iluppu, seruneerthottru, vaipoon, idhayanoi, veekam, needitha noi, vathanoi sartha, edaikuraivu	C
99.	<i>Solanum nigrum</i> L.	Solanaceae	Manathakkali	Herb	Fruit	liver tonic, aphrodisiac, cardiovascular disease, urogenital disorders, leucorrhoea, mouth ulcer, cough, stomach complaints, piles	Juice, boils	Irumal, palunarvuthoondi, idhayanoi, seruneer noi, elumpurikii, vaaipoon, irumal, vaitrusambanthamana, moolam	OC
100.	<i>Solanum surattense</i> Burm.f	Solanaceae	Kandakathiri	Herb	Whole plant	Stomach ache, asthma, throat pain, fever, body pains	Paste, decoction	Vaitru vali, moochu thinaral, thonadai vali, kaichal, udal vali	C
101.	<i>Solanum torvum</i> SW.	Solanaceae	Sundaikaai	Shrub	Leaves, unripe fruit	Body cooling, cold, cough, pimples, skin diseases, hyperactivity	Juice	Udal kulirrechi, irumal, kaichal, parukkal, thol noi, eyarkai meeria susurppu	C
102.	<i>Solanum trilobatum</i> Linn	Solanaceae	Thoothuvalai	Climber	leaves	Asthma, throat pain, skin diseases, blood disorders, constipation	Paste	Moochu thinaral, thondai vali	OC
103.	<i>Syzygium cumini</i> Walp.	Myrtaceae	Naavalmaram	Tree	Fruit, bark	Diabetes, body cooling, swelling	Raw, paste	Sarkkarai noi, udal kulirrechi, veekam	C
104.	<i>Tectona grandis</i> Linn	Verbenaceae	Thekkumaram	Tree	Seed	Dandruff, head ache, urinary system	Powder	Podugu, thalaivali, seruneer noi	C
105.	<i>Thespesia populanea</i> Cav.	Malvaceae	Poovarasam	Tree	Leaves, flower, fruit, bark, oil	Skin diseases, liver diseases, dysentery, cholera, jaundice, ulcer, wounds, scabies, urinary tract infections, cough, diarrhoea	Powder, paste	Tholnoi, kaliral noi, vaitrupokku, vanthi paethi, manjalkamalai, vaitrupon, kayam, sori sirangu, seruneer noi, irumal, vaitrupokku	C
106.	<i>Trianthema portulacastrum</i> Linn	Aizoaceae	Saaranaikeerai	Herb	Root	Constipation, asthma	Decoction, Juice	Moochu tinaral	C
107.	<i>Tribulus terrestris</i> Linn	Zygophyllaceae	Nerinchil	Herb	Whole plant	Body cooling, heart strength, stone formation, urinary trouble, liver disease	Soup, powder, Juice	Udal kulirrechi, idhaya valimai, kal adappu, serener sambathama pirachanai, kaleeral noi	C
108.	<i>Tridax procumbens</i> Linn	Asteraceae	Vettukaayapoondu	Herb	Whole plant	Wounds, hair tonic, stop bleeding	Paste	Kaayam, mudi valarthal, uthirapokai kuraitthal	C
109.	<i>Vitex negundo</i> Linn	Verbenaceae	Notchi	Tree	Leaves, root	Head ache, cold, cough, fever, snake bite, skin disease, asthma, nervous disorders, insect bite	Juice, paste	Thalai vali, jalathosam, irumal, kaicchal, pambukkadi, thol noi, mochuthiranaral, narambu sambanthamana, poochikadi	C
110.	<i>Zizyphus jujupa</i> Linn	Rhamnaceae	Elanthai	Tree	Leaf, bark	Body pain, wounds, asthma, ulcer, liver disorders, eye diseases, inflammation	Decoction, powder	Udal vali, kaayam, moochuthinaral, vaitrupoon, eral nooi, kannooi, veekam	C

CONCLUSION

The present study indicated that, the study area has plenty of medicinal plants to treat simple and complicated human ailments. This area is rich in plant diversity and hundred and ten species were documented. Most of these medicines are prepared from herbs (36.36%) and use of the whole plant leaves is most common for preparing medicine. The information gathered from the rural people is useful for further researchers in the field of ethnobotany, taxonomy and pharmacology. Thus this study reveals the documentation of plant species, their utilization and conservation of these medicinal plants must be emphasized.

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