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RESEARCH ARTICLE

DIVERSITY, DISTRIBUTION AND INDIGENOUS KNOWLEDGE OF MEDICINAL PLANTS IN ELAMBALUR VILLAGE OF PERAMBALUR DISTRICT

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ARTICLE INFO	ABSTRACT		
Article History: Received 16 th December, 2015 Received in revised form 20 th January, 2016 Accepted 25 th February, 2016 Published online 16 th March, 2016	Plants are playing an important role in the health of millions of people's life in many villages of India in their day today life by its traditional usage. The village peoples are mostly depends on plants for food, medicine, fodder and shelter and they are highly used to plants for medicinal purpose. Therefore, the present study focused to assess the medicinal plant diversity in Elambalur village of Perambalur district, Tamilnadu. In the present investigation 98 medicinal plant species used in the treatment of different diseases were discussed. The information on correct botanical identities with family, local name and medicinal uses of 98 plant species were recorded in a scientific manner. The		
Key words:	information was collected on the basis of personal interviews with traditional healers and elder people of the village. The documented medicinal plants were used to cure different ailments such as skin		
Medicinal plant, diversity, Indigenous knowledge, Elambalur village and Perambalur.	problems, cold, fever, cough, headache, diarrhea, toothache, stomach ache, wounds, diabetes, asthma, dysentery, etc. This Preliminary investigation will pave the way for the discovery of new medicines.		

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INTRODUCTION

Biodiversity brings enormous benefits to mankind from direct harvesting of plants for food, medicine, fuel construction material, and other uses to aesthetic, cultural, recreational and research values. People have been using medicinal plants from time immemorial for the treatment of various types of disease traditionally. That kind of traditional medicine plays an important role in the health care of India (Sivasankari et al., 2013). India is one of the twelve mega- diversity countries of the world having rich vegetation with a wide variety of Plants having medicinal value. The value of medicinal plants to the mankind is very well proven. It is estimated that 70% to 80% of the people worldwide rely chiefly on traditional health care system and largely on herbal medicines. About 90% of medicinal plants found growing wild in different climatic regions of the country (Sindhu et al., 2012). The plants used in ethno medicine contain a wide range of substances that can be used to teach chronic as well as infectious diseases. They are rich in secondary metabolites and essential oils of therapeutic importance. The important advantages claimed for therapeutic uses of medicinal plants in various ailments are their safely

*Corresponding author: Poorani, N. PG and Research department of Botany and Microbiology, A.V.V.M. Sri Pushpam College- Poondi, India. besides being economical, effective and their easy availability (Ranganathan et al., 2012). Moreover it is an undeniable fact that the knowledge of indigenous people is invaluable in the present day context of biodiversity for its sustainable utilization and novel drug development programs. Medicinal plants are largely used by all divisions of the population either directly as folk medications or indirectly in the preparation of recent pharmaceuticals. Many of these indigenous medicinal plants are used as spices and food plants (Govindaswamy Bosco et al., 2012). The main objective of this study was to assess the diversity, distribution and indigenous knowledge of medicinal plant species used by villagers in Elambalur village of Perambalur district. Therefore, documenting indigenous knowledge through ethnobotanical studies is important for the conservation of biological resources and their sustainable utilization.

MATERIALS AND METHODS

Ethnobotanical survey of the villagers from Elambalur village of Perambalur district was carried out. Species of plants belonging to 37 families used by these people to be different ailments were collected and reported.

Table 1. Medicinal plant used by villagers of Elambalur village of Perambal	ur district, Tamilnadu, India

S.No.	Binomial name	Family	Medicinal uses
1.	Abutilon indicum (Link.) Sweet.	Malvaceae	Piles, ulcer, cough, leprosy and jaundice.
2.	Acalypha indica L.	Euphorbiaceae	Worm infection, burns, piles, cough, skin eruptions and urinary diseases.
3.	Achyranthes aspera L.	Amaranthaceae	Diarrhea, piles, ear diseases and anaemia.
4.	Adathoda vasica (L.) Nees.	Acanthaceae	Cough, fever, tuberculosis, vomiting and leprosy.
5.	Aegle marmelos (L.) Correa	Rutaceae	Venereal, piles, diseases, digestive and abdominal disorders.
6. 7.	<i>Aerva lanata</i> (L.) Juss. & Schult. <i>Allium cepa</i> L.	Amaranthaceae Liliaceae	Wounds, polyuria, piles, dysuria, cardiac diseases and abdominal disorder. Earache, piles, Anorexia, cough, jaundice, cardiac diseases and skin diseases.
7. 8.	Allum Cepa L. Aloe vera (L.) Burm.f.	Liliaceae	Leprosy, piles, stomach, eye and mental disorders,
8. 9.	Alternanthera sessilis (L.) R. Br. ex	Amaranthaceae	Leprosy, night blindness and fever.
).	Dc.	Amarantinaceae	Leprosy, mgit officies and rever.
10.	Andrographis paniculata (Brum.F) wall.ex. Nees.	Acanthaceae	Liver disorder, malaria fever, worm infestation and skin diseases.
	Anisomeles malabarica (L.) Merr.	Lamiaceae	Digestive disorder, diarrhea, eczema, fever and cough.
	Annona squamosa L.	Annonaceae	Diarrhea, dysentery, cardiac diseases and fever.
	Arachis hypogaea L.	Fabaceae	Infantile paralysis.
	Artocarpus heterophyllus Lam.	Moraceae	Liver diseases, indigestion, stomachache and cough.
	Azadirachta indica A.Juss.	Meliaceae	Worm infestation, digestive disorder, fever, pox, skin eruption, vomiting and abdominal disorder.
	Bambusa arundinacea (Retx.) rexb.	Poaceae	Leprosy, wounds, cough, fever, jaundice and anaemia.
	Boerhaavia diffusa L.	Nyctaginaceae	Nasal disorders, jaundice, cardiac diseases and piles.
	Borassus flabellifer L. Calotropis gigantea (L.) W.T. Aiton.	Arecaceae Asclepiadaceae	Bleeding, thirst, burning sensation, fever, general debility and cardiac diseases. Nervous disorders, cough, piles, abdominal disorders, and worm infestation.
	Canthium parviflorum Lam.	Rubiaceae	Disorder of throat.
	Capsicum frutescens L.	Solanaceae	Disorder of throat. Digestive stimulant in jaundice and rheumatism.
	Cardiospermum helicacabum L.	Sapindaceae	Tumors, dermal disorders and piles.
	Carica papaya L.	Caricaceae	Worm infestation, skin diseases, fever and piles.
	Carissa spinarum L.	Apocynaceae	Eye diseases, ear diseases, sweating, throat pain and body pain.
	Cascabela thevetia (L.) Lippold	Apocynaceae	Leprosy, skin diseases, cardiac diseases and asthma.
	Catharathus roseus (L.). G. Don.	Apocynaceae	Cancer, diabetes, dysentery, blood pressure, neurosis and cardiac diseases.
	Celosia aegentea L.	Amaranthaceae	Eczema, glandular swellings, ulcer and dysentery.
	Centella asiatica L.	Apiaceae	Digestive disorder, urinary diseases, cough, fever and mental retardation.
	Cissus quardrangularis L.	Vitaceae	Piles, abdominal disorders, diarrhea and dysentery.
30.	Citrus lemonA.Juss.	Rutaceae	Vomiting, eye diseases, dysentery, cough and worm infection.
31.	Cleome viscosa L.	Cleomaeae	Indigestion, ear diseases, skin eruption, fever and abdominal diseases,
	Clitoria ternatea L.	Fabaceae	Piles, skin diseases, abdominal disorder and fever.
	Cocos nucifera L.	Arecaceae	Urinary disorders, fever, head ache and eye diseases.
	Corchorus capsularis L.	Malvaceae	Wounds, stomach disorders, dysentery and leprosy.
	Coriandrum sativum L.	Apiaceae	Fever with rigor, mental disorders, indigestion, vomiting and head ache.
	Croton bonplandianum Baill.	Euphorbiaceae	Cough, eczema, ringworm, heal cuts and wounds.
	<i>Cynodon dactylon</i> (L.) Pers. <i>Datura metal</i> L.	Poaceae Solanaceae	Thirst, skin diseases, distaste and vomiting. Eye diseases, wounds, ulcer, cough, eczema and diarrhea.
	Delonix elata (L.) Gamble.	Fabaceae	Wounds and glandular swellings.
	Delonix etala (E.) Gamble. Delonix regia (Boj, ex Hook.) Raf.	Fabaceae	Diseases of vatam and inflammation.
	Dodonea angustifolia L.f.	Sapindaceae	Inflammation.
	Eclipta prostrata (L.)	Asteraceae	Hair falling, leprosy, eye diseases, cold, dental diseases and asthma.
	Euphorbia hirta L.	Euphorbiaceae	Urinary disorders, worm infestation, asthma and polyuria.
	Ficus benghalensis L.	Moraceae	Polyuria, diarrhea, uterine disorder and vomiting.
	Ficus religiosa L.	Moraceae	Oedema, uterine disorders, thirst and burning sensation.
	Gomphrena globosa L.	Amaranthaceae	Cough.
	Gossypium hirsutum L.	Malvaceae	Leucorrhoea, ulcer, swellings, fever, piles, dysentery and cut wounds.
	Gymnema sylvestre R.Br.	Asclepiadaceae	Fever, diabetes, cough, snake- bite poisoning and eczema.
	Heliotropium indicum L.	Boranginaceae	Ulcer, eczema, digestive disorder and fever.
	Hemidusmus indicus (L.) R.Br.	Asclepiadaceae	Diabetes, glandular swellings, fever, jaundice, thirst and urinary diseases.
	Hibiscus rosa-sinensis L.	Malvaceae	Cough piles, diarrhea, hair falling and polyuria.
	Indigofera aspalathoides L. Ixora coccinea L.	Fabaceae Rubiaceae	Leprosy, cancer, abscess, oedema and skin diseases. Venereal diseases, fever, thirst, dysentery and ulcer.
	Jatropha curcas L.	Euphorbiaceae	Constipation, wounds, eczema, ulcer, head ache, rat- bite poisoning and abdominal disorder.
55	Justicia tranquebariensis L.f.	Acanthaceae	Cough, nasal disorders and cold.
	Lablab purpureus (L.)	Fabaceae	Chronic dysentery, cholera, ulcer and head ache.
	Lantana camara L.	Verbenaceae	Diarrhea and kapha diseases.
	Lawsonia inermis L.	Lythraceae	Diarrhea, leprosy, fever, headache, cardiac diseases and blood disorders.
59.	Leucas aspera (Willd.) Link.	Lamiaceae	Fever, eye disease, thirst, snake-bite poisoning, nasal disorders, cough and venereal diseases.
60.	Manifera indica L.	Anacardiaceae	Urinary disorders, leucorrhoea, thirst, diarrhea, ulcer and intermittent fever.
61.	Millettia pinnata (L.) Panigrahi.	Fabaceae	Piles, ear diseases, cough, skin diseases, abdominal disorders, wounds and snake- bite poisoning.
62.	Mimosa pudica L.	Mimosaceae	Diabetes, sinus wound, eye diseases and leprosy.
	Mirabilis jalaba L.	Nyctaginaceae	Piles, abscess, boils and ulcer.
64.	Momordica charantia L.	Cucurbitaceae	Leprosy, rheumatism, liver disorder, piles and diabetes.
	Morinda tinctoria Roxb.	Rubiaceae	Eczema, fever, ulcer, digestive disorder and wounds.

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 85. Solanum torvum L. 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 99. Tectona grandis L.f. 90. Tribulus terrestris L. 91. Trichodesma indicum (Linn.) R.Br. Solanaceae Solanaceae Solanaceae Solanaceae Worm infestation and diarrhea. Respiratory disorders. Toothache. Ulcers, anemia and dropsy. Leprosy, polyuria, skin diseases, ulcers and worm infestation. Polyuria, oedema, asthma, piles, urinary disorders and nervous disorders. Dysentery, skin diseases, snake- bite poisoning and fever. 					
68. Murraya koenigii (L.) Sprengel. Rutaceae Dropsy, dysentery and diarrhea. 69. Musa paradisiaca L. Musaceae Diarrhea, eye diseases, polyuria, thirst and burning sensation. 70. Nerium oleander L. Apocynaceae Leprosy, wounds and skin diseases. 71. Ocimum tentiflorum L. Lamiaceae Diuretic, dysentery, earache, stomach disorders, cough and ulcer. 73. Pergularia daemia (Forssk.). Chiov. Asclepiadaceae Eprosy, piles and mental disorders. 74. Phyllanthus amarus Schum. & Thonn. Euphorbiaceae Dysentery, diarrhea, toothache and ulcers. 75. Pithecellobium dulce (Roxb.) Benth. Fabaceae Dysentery, diarrhea, toothache and ulcers. 76. Psidium guajava L. Myrtaceae Vomiting and urinary disorders. 77. Ricinus communis L. Euphorbiaceae Asthma. 79. Sena auriculata (L.) Roxb. Fabaceae Fever, diabetes, urinary disorder, neumatism. 80. Sida acuta Burm.f. Malvaceae Fever, are diseases, diarrhea, skin diseases and worm infection. 81. Solanum melongena L. Solanaceae Cough vatam and fever. 83. Solanum melongena L. Solanaceae Cough v	66.	Moringa oleifera Lam.		Eye diseases, fever and skin diseases.	
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 Rosa indica L. Rosaceae Asthma. Senna auriculata (L.) Roxb. Fabaceae Fever, diabetes, urinary disorder, rheumatism. Sida acuta Burm.f. Malvaceae Fever, ear diseases, diarrhea, skin diseases and worm infection. Solanum hycopersicum L. Solanaceae Solanaceae Cough vatam and fever. Solanum nigrum L. Solanaceae Solanaceae Leprosy, piles, fever, cardiac diseases and vomiting. Solanum nigrum L. Solanaceae Solanaceae Boilanceae Solanaceae Cough vatam and fever. Solanum surattense Burm.f. Solanaceae Solanaceae Worm infection, blood disorders, skin diseases, urinary disorders and dysuri Solanum torvum L. Solanaceae Worm infestation and diarrhea. Solanaceae Respiratory disorders. Tabernaemontana divaricata R.Br. ex Roem. & Schult. Tamarindus indica L. Caesalpinaceae Ulcers, anemia and dropsy. Leprosy, polyuria, skin diseases, ulcers and worm infestation. Polyuria, oedema, asthma, piles, urinary disorders and nervous disorders. Trichodesma indicum (Linn.) R.Br. 	76.	Psidium guajava L.	Myrtaceae	Vomiting and urinary disorders.	
 79. Senna auriculata (L.) Roxb. 80. Sida acuta Burm.f. 81. Solanum lycopersicum L. 82. Solanum melongena L. 83. Solanum nigrum L. 84. Solanum surattense Burm.f. 85. Solanum torvum L. 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 89. Tectona grandis L.f. 80. Caesalpinaceae 90. Tribulus terrestris L. 91. Trichodesma indicum (Linn.) R.Br. 84. Solanut (Linn.) R.Br. 85. Solanum trilobatum (Linn.) R.Br. 86. Solanut trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 89. Tectona grandis L.f. 80. Tribulus terrestris L. 80. Trichodesma indicum (Linn.) R.Br. 80. Terichodesma indicum (Linn.) R.Br. 80. Solanut (Linn.) R.Br. 80. Solanut	77.	Ricinus communis L.	Euphorbiaceae	Abdominal disorders, piles, worm infection, chest pain, cough and fever.	
 80. Sida acuta Burm.f. 81. Solanum lycopersicum L. 82. Solanum nigrum L. 83. Solanum nigrum L. 84. Solanum surattense Burm.f. 85. Solanum torvum L. 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 89. Tectona grandis L.f. 89. Tectona grandis L.f. 80. Tribulus terrestris L. 90. Tribulus terrestris L. 91. Trichodesma indicum (Linn.) R.Br. 80. Sida acuta Burm.f. 81. Solanum torvum L. 82. Solanum torvum L. 83. Solanum torvum L. 84. Solanum torvum L. 85. Solanum trilobatum L. 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 89. Tectona grandis L.f. 80. Tribulus terrestris L. 80. Tribulus terrestris L. 80. Trichodesma indicum (Linn.) R.Br. 80. Boraginaceae 80. Solanum torvum (Linn.) R.Br. 80	78.	Rosa indica L.	Rosaceae	Asthma.	
 81. Solanum lycopersicum L. 82. Solanum melongena L. 83. Solanum nigrum L. 84. Solanum surattense Burm.f. 85. Solanum torvum L. 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 89. Tectona grandis L.f. 89. Tectona grandis L.f. 80. Tribulus terrestris L. 80. Tribulus terrestris L. 80. Trichodesma indicum (Linn.) R.Br. 80. Solanum (Linn.) R.Br. 80. Solanum (Linn.) R.Br. 81. Solanaceae 82. Solanum torvum L. 83. Solanum torvum L. 84. Solanum torvum L. 85. Solanum trilobatum L. 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 89. Tectona grandis L.f. 80. Tribulus terrestris L. 80. Soraginaceae 80. Trichodesma indicum (Linn.) R.Br. 80. Solanum (Linn.) R.Br.<td>79.</td><td>Senna auriculata (L.) Roxb.</td><td>Fabaceae</td><td>Fever, diabetes, urinary disorder, rheumatism.</td><td></td>	79.	Senna auriculata (L.) Roxb.	Fabaceae	Fever, diabetes, urinary disorder, rheumatism.	
 Solanum melongena L. Solanaceae Solanum nigrum L. Solanaceae Solanum surattense Burm.f. Solanaceae Solanaceae Solanum surattense Burm.f. Solanaceae Solanaceae Solanaceae Solanaceae Solanaceae Worm infection, blood disorders, skin diseases, urinary disorders and dysuri Worm infestation and diarrhea. Solanaceae Solanaceae Solanaceae Solanaceae Solanaceae Solanaceae Solanaceae Solanaceae Solanaceae Respiratory disorders. Tabernaemontana divaricata R.Br. ex Roem. & Schult. Tamarindus indica L. Caesalpinaceae Tectona grandis L.f. Lamiaceae Tribulus terrestris L. Zygophyllaceae Trichodesma indicum (Linn.) R.Br. Boraginaceae Cough vatam and fever. Cough vatam and fever. Cough vatam and fever. 	80.	Sida acuta Burm.f.	Malvaceae	Fever, ear diseases, diarrhea, skin diseases and worm infection.	
 Solanum nigrum L. Solanaceae Leprosy, piles, fever, cardiac diseases and vomiting. Solanum surattense Burm.f. Solanaceae Solanum torvum L. Solanaceae Solanaceae Solanaceae Worm infection, blood disorders, skin diseases, urinary disorders and dysuri Worm infestation and diarrhea. Solanaceae Respiratory disorders. Tabernaemontana divaricata R.Br. ex Roem. & Schult. Tamarindus indica L. Caesalpinaceae Tectona grandis L.f. Lamiaceae Tribulus terrestris L. Zygophyllaceae Trichodesma indicum (Linn.) R.Br. Boraginaceae Leprosy, piles, fever, cardiac diseases, and vomiting. Worm infection, blood disorders, skin diseases, urinary disorders and dysuri Worm infestation and diarrhea. Respiratory disorders. Toothache. Toothache. Ulcers, anemia and dropsy. Leprosy, polyuria, skin diseases, ulcers and worm infestation. Polyuria, oedema, asthma, piles, urinary disorders and nervous disorders. Dysentery, skin diseases, snake- bite poisoning and fever. 	81.	Solanum lycopersicum L.	Solanaceae	Cancer, heart attack and urinary disorders.	
 84. Solanum surattense Burm.f. 85. Solanum torvum L. 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 90. Tribulus terrestris L. 91. Trichodesma indicum (Linn.) R.Br. 89. Solance and to provide the poisoning and fever. 80. Solanum trilobatum L. 80. Solanaceae 80. Solanaceae 80. Solanaceae 81. Solanaceae 82. Solanum trilobatum L. 83. Tamarindus indica L. 84. Solanaceae 85. Solanum trilobatum L. 85. Solanaceae 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 89. Tectona grandis L.f. 80. Solanaceae 80. Solanacea	82.	Solanum melongena L.	Solanaceae	Cough vatam and fever.	
 85. Solanum torvum L. 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 99. Tectona grandis L.f. 90. Tribulus terrestris L. 91. Trichodesma indicum (Linn.) R.Br. 85. Solanaceae Solanaceae 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 90. Tribulus terrestris L. 91. Trichodesma indicum (Linn.) R.Br. 80. Solanaceae Solanaceae 87. Tabernaemontana divaricata R.Br. ex Roem. & Solanaceae 88. Tamarindus indica L. 89. Tectona grandis L.f. 80. Solanaceae 80. Tribulus terrestris L. 80. Trichodesma indicum (Linn.) R.Br. 80. Solanaceae 8	83.	Solanum nigrum L.	Solanaceae	Leprosy, piles, fever, cardiac diseases and vomiting.	
 86. Solanum trilobatum L. 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 99. Tectona grandis L.f. 90. Tribulus terrestris L. 91. Trichodesma indicum (Linn.) R.Br. Solanaceae Apocynaceae Lamiaceae 95. Tectona grandis L.f. 96. Tribulus terrestris L. 97. Trichodesma indicum (Linn.) R.Br. 98. Solanaceae Boraginaceae 99. Tectona grandis L.f. 90. Tribulus terrestris L. 90. Trichodesma indicum (Linn.) R.Br. 90. Trichodesma	84.	Solanum surattense Burm.f.	Solanaceae	Worm infection, blood disorders, skin diseases, urinary disorders and dysuria.	
 87. Tabernaemontana divaricata R.Br. ex Roem. & Schult. 88. Tamarindus indica L. 90. Tribulus terrestris L. 91. Trichodesma indicum (Linn.) R.Br. 95. Tectona grandis L.f. 96. Tribulus terrestris L. 97. Trichodesma indicum (Linn.) R.Br. 98. Tabernaemontana divaricata R.Br. ex Apocynaceae Lamiaceae 99. Tectona grandis L.f. 90. Tribulus terrestris L. 91. Trichodesma indicum (Linn.) R.Br. 91. Trichodesma indicum (Linn.) R.Br. 91. Trichodesma indicum (Linn.) R.Br. 92. Tertona grandis L.f. 93. Trichodesma indicum (Linn.) R.Br. 94. Torthache. 95. Torthache. 96. Torthache. 97. Torthache. 98. Torthache. 99. Torthache. 99. Torthache. 90. Tribulus terrestris L. 90. Trichodesma indicum (Linn.) R.Br. 90. Trichodesma indicum (Linn.) R.Br. 90. Torthache. 90. Tribulus terrestris L. 90. Trichodesma indicum (Linn.) R.Br. 90. Trichodesma indicum (Linn.) R.Br. 90. Trichodesma indicum (Linn.) R.Br. 90. Tribulus terrestris L. 90. Trichodesma indicum (Linn.) R.Br. 90. Trichodesma indicum (Linn.) R.Br.<td>85.</td><td>Solanum torvum L.</td><td>Solanaceae</td><td>Worm infestation and diarrhea.</td><td></td>	85.	Solanum torvum L.	Solanaceae	Worm infestation and diarrhea.	
Roem. & Schult.CaesalpinaceaeUlcers, anemia and dropsy.88. Tamarindus indica L.CaesalpinaceaeUlcers, anemia and dropsy.89. Tectona grandis L.f.LamiaceaeLeprosy, polyuria, skin diseases, ulcers and worm infestation.90. Tribulus terrestris L.ZygophyllaceaePolyuria, oedema, asthma, piles, urinary disorders and nervous disorders.91. Trichodesma indicum (Linn.) R.Br.BoraginaceaeDysentery, skin diseases, snake- bite poisoning and fever.	86.	Solanum trilobatum L.	Solanaceae	Respiratory disorders.	
88. Tamarindus indica L.CaesalpinaceaeUlcers, anemia and dropsy.89. Tectona grandis L.f.LamiaceaeLeprosy, polyuria, skin diseases, ulcers and worm infestation.90. Tribulus terrestris L.ZygophyllaceaePolyuria, oedema, asthma, piles, urinary disorders and nervous disorders.91. Trichodesma indicum (Linn.) R.Br.BoraginaceaeDysentery, skin diseases, snake- bite poisoning and fever.	87.	Tabernaemontana divaricata R.Br. ex	Apocynaceae	Toothache.	
89. Tectona grandis L.f.LamiaceaeLeprosy, polyuria, skin diseases, ulcers and worm infestation.90. Tribulus terrestris L.ZygophyllaceaePolyuria, oedema, asthma, piles, urinary disorders and nervous disorders.91. Trichodesma indicum (Linn.) R.Br.BoraginaceaeDysentery, skin diseases, snake- bite poisoning and fever.		Roem. & Schult.			
90. Tribulus terrestris L. Zygophyllaceae Polyuria, oedema, asthma, piles, urinary disorders and nervous disorders. 91. Trichodesma indicum (Linn.) R.Br. Boraginaceae Dysentery, skin diseases, snake- bite poisoning and fever.	88.	Tamarindus indica L.	Caesalpinaceae	Ulcers, anemia and dropsy.	
91. <i>Trichodesma indicum</i> (Linn.) R.Br. Boraginaceae Dysentery, skin diseases, snake- bite poisoning and fever.	89.	Tectona grandis L.f.	Lamiaceae	Leprosy, polyuria, skin diseases, ulcers and worm infestation.	
	90.	Tribulus terrestris L.	Zygophyllaceae	Polyuria, oedema, asthma, piles, urinary disorders and nervous disorders.	
92. Trichosanthes cucumerina L. Cucurbitaceae Cathartic	91.	Trichodesma indicum (Linn.) R.Br.	Boraginaceae	Dysentery, skin diseases, snake- bite poisoning and fever.	
	92.	Trichosanthes cucumerina L.	Cucurbitaceae	Cathartic.	
93. <i>Tridax procumbens</i> L. Asteraceae Dysentery, diarrhea and wounds.	93.	Tridax procumbens L.	Asteraceae	Dysentery, diarrhea and wounds.	
94. Vachellia nilotica (L.) P. J. H Huster Fabaceae Wounds, diarrhea, dysentery, worm infestation and skin diseases.	94.	Vachellia nilotica (L.) P. J. H Huster	Fabaceae	Wounds, diarrhea, dysentery, worm infestation and skin diseases.	
& Mabb.					
95. Vernonia cinerea L. ASteraceae Skin diseases, thirst, vomiting and blood disorders.	95.	Vernonia cinerea L.	ASteraceae		
96. Vigna mungo (L.) Hepper. Fabaceae Rheumatism and nervous disorders.			Fabaceae		
97. <i>Vitex negundo</i> L. Verbenaceae Intermittent fever, worm infestation, ear diseases and cough.		0			
98. Zea mays L. Poaceae Cough, retention of urine and diuretic.	98.	Zea mays L.	Poaceae	Cough, retention of urine and diuretic.	

Elambalur Village

The study area Elambalur village is a nearest village to Perambalur (3.6 km). It is a special village in Perambalur district, Tamil Nadu, India. It is located at 11.26°N 78.88°E, elevation 436 ft. The pachaimalai (green hill) Eastern ghats starts from here. The normal rainfall of the district is 908 mm. Climately, the area is of dry tropical type. The types of soil which is predominantly found here are red loamy and black soil. Loamy soil contain enormous amount of nutrients which is suitable for the growth of large plant vegetation. These plants contain high medicinal value for different ailments. The district has Vellar River in the north and it has well marked natural divisions but Cauvery is the major river flowing in the region. The major crops grown in the district are paddy, groundnut, sugarcane, cotton, banana, coconut, betel and millets. Cashew nut is the major plantation crop.

RESULTS AND DISCUSSION

The Living peoples of Elambalur village of Perambalur district are found to possess a very rich ethnobotanical knowledge. Even to this data, they have been making use of a large number of plants species for various purposes such as medicine, fodder, firewood, timber, food etc. A total of 98 plant species representing 37 families have been reported to be in use among the villager of the study area (Table 1). Among 98 plant species, 86 plants are wild, 8 plants are cultivated and 4 plants are ornamental. Wild plant species have adapted to very large areas. These plants are highly dominant in the study area. They occur in both disturbed and undisturbed areas such as sacred groves, around the well, road site, temple and cultivated areas. *Delonix regia* is an ornamentally cultivated plant species and highly distributed in all areas. In the present study, 8 cultivated plants were recorded. They are *Arachis hypogaea, Solanum lycopersicum, Gossypium hirsutum, Capsicum frutescens, Trichosanthes cucumerina, Vigna mungo, Zea mays and Allium cepa.* These plants possess high medicinal and economical value. In addition to that, ornamental plants are also being noted.



Figure 1. Habitwise distribution of medicinal plants in the study area

They are *Celosia argentea*, *Gomphrena globosa*, *Ixora coccinea* and *Rosa indica*. These plants are grown for decorative purpose in garden and houses. Among these ornamental species, *Rosa indica* and *Ixora coccinea* are

economically valuable plant species. In habit wise distribution, 28 were tree species, 24 shrubs, 43 herbs and 3 climbers (Figure 1). Similar to the present findings, Muthu et al. (2006) reported that herbs were found to be the most used plants followed by trees, shrubs and climbers. In the present study, Family wise distribution of the medicinal plants shows Fabaceae was the most dominant family, followed by Solanaceae, Euphorbiaceae, Malvaceae, Amaranthaceae. Apocynaceae, Lamiaceae, Asclepiadaceae, Rubiaceae, Asteraceae, Moraceae, Rutaceae, Acanthaceae, Poceae. Cucurbitaceae, Boraginaceae, Arecaceae, Verbenaceae, Liliaceae, Nyctaginaceae, Sapindaceae, Apiaceae, Myrtaceae, Caesalpinaceae, Vitaceae, Capparaceae, Meliaceae, Annonaceae, Caricaceae, Lythraceae, Mimosaceae, Moringaceae, Musaceae, Zygophyllaceae, Rosaceae and Anacardiaceae were recorded. Among the different plant parts used for the preparation of medicine, leaves and whole plants were predominantly used, followed by fruits, root, flower, rhizome, stem, bark and latex. Similar to the above findings Mohan et al. (2008) stated that Kanikkars use a wide variety of parts structures in ethnomedicine and the percentage of plant parts used are as follows: leaves 49%, fruits 11%, roots 10%, tubers and aerial parts 8%, stem and flowers 5%. From the present study it was found that the plants are used to treat different types of ailments such as bone fracture, hair fall, diabetes, cold cough, jaundice, wounds, poisonous bites, dental carries, burns, diarrhea, small pox, ulcer, stomach disorders etc. From the discussion with traditional healers of the study area, large number of ailments was found to be treated using plant species. A single plant or groups of plants are used as ingredients to cure a single disease sometimes the healer may use single plant to cure various diseases. For example, Millettia pinnata (L.) Panigrahi. is used to cure piles, ear diseases, cough, skin diseases, abdominal disorders, wounds and snakebite poisoning. The healers use the plants as fresh material or dried material. Likewise, Malayali tribal prepare medicine mostly by using fresh plant material. Alternatively, if the fresh plant parts are not available, dried plant materials are used. For this reason several plants serve as alternative remedy to cure a single disease (Ramya et al., 2008).

Conclusion

The ethnobotanical survey indicated that, the study area has plenty of medicinal plants to treat a wide spectrum of human ailments. Therapeutic importances of these plants are beneficial to human beings but these plants become a red list category due to their overpopulation and exploitation. Therefore, there is urgent need for conservation of plant species of this village for the sustainable utilization and natural resources. Further extensive ethnobotanical and ethnopharmacological study may help for prevention of most of the diseases and contribute to the discovery of new plant medicines in the future.

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