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# Less Known Ethnomedicinal Plants Used by *Kurichar* Tribe of Wayanad District, Southern Western Ghats Kerala, India

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**Abstract:** The present study provides an over view of 44 medicinal plants belonging to 30 families have been used for indigenous medication by the tribe *Kuricha*r of Wayanad district of Kerala. Among them Asclepiadaceae, Fabaceae, Acanthaceae, Rutaceae, Apocynaceae, Marantaceae, Rubiaceae and Solanaceae are the most common plant families, respectively. The different parts of plants of these famililies are used to cure various ailments like stomach problems, urinary complaints, rheumatism, leprosy, eye diseases, bronchitis, malaria, diabetes, chicken pox, cough and cold, head ache, hair tonic, cuts and wounds, skin problems *etc*. The botanical, vernacular and family names along with mode of preparation and uses have been provided for further pharmacological and clinical evaluations.

Key words: Ethnomedicinal plants • Kurichar tribe • Wayanad • Western Ghats • Kerala

## INTRODUCTION

The primitive peoples are well acquainted with the properties and uses of plants of their surroundings. They inherit rich traditional knowledge of surrounding plants used as food, fodder, fibre, wood, fuel and medicines [1]. The knowledge acquired by the tribal community through experience of ages is passed on by verbal sayings from generation to generation as part of their cultural heritage [2]. Many tribal groups have been using several plant or animals products for medicinal preparations and these medicines are known as ethno-medicine [3].

Man is dependent on plants from time immemorial. The human life and culture has directly or indirectly been influenced by their surrounding environment [4, 5]. Medicinal plants have attracted considerable global interests in recent years. Due to various human activities such as deforestation, rapid industrialisation, urbanisation and other developmental activities, both natural vegetation as well as traditional culture in India is fast declining [6, 7].

## MATERIALS AND METHODS

Wayanad district (11°27"-15°58" N and 75°47"-70°27" E) is situated in the Western Ghats region of Kerala with

an altitude varying from 700 to 2100 m from sea level. Nilgiri and Mysore districts of Tamil Nadu and Karnataka, respectively bound it on east, Coorg district of Karnataka on north, Malappuram district of Kerala on the south and Kozhikode and Cannore districts of Kerala on the west.

Kurichar is the dominant scheduled tribal community in Wayanad district. The principal occupation of the kurichar is wood cutting and collection of minor forest products [8]. Several field visits were conducted to the Kurichar tribes of Wayanad district during May-September 2009. The collection of data was an interview with tribals, observations and one to one discussions with men and women informers separately. The collected specimens were identified with the help of floras, manuals and revisions. The table in the appendix gives an overview of the ethnomedicines used by Kurichar tribe of the Wayanad district (Table 1).

## RESULTS AND DISCUSSION

The traditional knowledge of *Kurichar* communities of Wayanad has high ethnobotanical importance. They utilize numerous plants and their different parts *viz.*, roots, leaves, stem and rhizome for various ethnomedicinal practices. During the study a total of 44 species belonging to 30 families have been collected

 $Table \ 1: Documented \ traditional \ less \ known \ medicinal \ plants \ from \ \textit{Kurichar} \ tribe \ of \ Wayanad \ district, \ Kerala, \ India$ 

the affected portion of inflammation.  The used in all cases of skin diseases.  The cut in are taken internally for a specific in a specific i
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ed on the affected portion in the
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d with rhizome juice of
is used for blood clotting.
te from the flowering twigs is effective in
thma and bronchitis
ed on fore head in the treatment
ed on fore nead in the treatment
mixed with milk and sugar for cough.
ed with egg white is applied on the
the treatment of fractures.
nixed with water for rheumatism bath.
m rhizome used for tooth ache.
in mizome used for toom tene.
leaves used for toothache.
Tourist appear for coolination.
ed for the treatment of dandruff.
alt is applied both inner side and
aroat in the treatment of tonsillitis.
used for malaria.
ong with neem leaves are applied
reatment of chicken pox.
or diabetes.
ed on bitten spot in the treatment of
taken internally for the treatment of
abetes.
ed on wounds.
recommended for body strength.
seeds mixed with leaf juice of
ed externally for scabies and leprosy.
paste is applied for inflammation
internally for treatment of anaemia and
taken internally for urinary infection.
d with coconut flower juice is dropped
reatment of nasal bleeding.
Pective medicine for the treatment of
ective medicine for the treatment of lera.
era.
lera. externally in the treatment of leprosy.

Table 1: Continued

33.	Pandanus odorattissimus L.f.	Pandanaceae	Kaitha	Leaves	Oil prepared from younger leaves is smeared in the
					burned portion in the case of burns.
34.	Physalis angulata L.	Solanaceae	Nhottanodiayan	Leaves	Leaf paste is applied at the inflated portion in case
					of Inflammation.
35.	Pterospermum canescens Roxb.	Sterculiaceae	Idinjil	Leaves	Leaf paste is applied on the affected portion for the
					treatment of fracture.
36.	Rhychostylis retusa (L.) Blume.	Orchidaceae	Marathali	Leaves	Leaves are slowly heated and juice is dropped in to ears to
					cure ear pain.
37.	Rubia cordifolia L.	Rubiaceae	Manchatti	Roots	Root paste mixed with rhizome paste of turmeric is
					applied on the affected portion in the treatment of
					skin disaeases.
38.	Ruta chalepensis L.	Rutaceae	Arutha	Leaves	Leaf juice is used for small pox and worm infection.
39.	Schumannianthus virgatus	Marantaceae	Kattukoova	Rhizome	Rhizome paste is applied for skin diseases.
	(Roxb.) Rolte				
40.	Scoparia dulcis L.	Scrophulariaceae Whole plant		Plant extract is taken internally in the treatment of urinary diseases.	
		Kallurukki			
41.	Solanum violaceum Ortega	Solanaceae	Putherichunda	Roots	Root paste is applied for poison.
42.	Tabernaemontana divaricata	Apocynaceae	Nathyarvattam	Flowers	Flower juice along with breast milk is used as eye drop in
	(L.) R.Br.				case of eye diseases.
43.	Vernonia anthelmintica (L.)	Asteraceae	Kattu jeerakam	Seeds	Seed paste mixed with salt and hot water is taken
	Willd.				internally in the case of stomachache.
44.	Wattakaka volubilis (L.)	Asclepiadaceae	Kaimavolli	Bark	Bark paste is mixed with hot milk is used internally for
	f. Stapl.				treating urinary troubles.

and identified. Among the documented medicinal plants, the family Asteraceae is frequently represented with a total of 4 species followed by Asclepiadaceae with 3 species, the families like Fabaceae, Acanthaceae Rutaceae, Apocynaceae, Marantaceae, Rubiaceae and Solanaceae with 2 species each and others with one species each.

The present study reveals that the local health care practices of *Kurichar* tribe in Wayanad district is very important. It was also observed that local people used the identified medicinal plants mostly for curing several ailments like stomach problems, urinary complaints, rheumatism, leprosy, eye diseases, bronchitis, malaria, diabetes, chicken pox, cough and cold, head ache, hair tonic, cuts and wounds, skin problems *etc.* Leaves were found to use heavily for medicinal preparation as compared with other parts. Another interesting to note that the extracts of more than one plant were used for treating single ailments.

The ethnomedicinal practices of *Kurichar* tribe of Wayanad district possessing good knowledge of herbal drugs. Such studies may provide some information to phytochemist and pharmacologist to develop new drugs for various human ailments. The present generation takes no interest for preserving the traditional resources. In this situation highlights the need for

complete record of their knowledge for future generations. These type of studies may stimulate researches to take up similar investigations in other tribal areas of Kerala.

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