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Ethnomedicine of the Gadabas, a primitive tribe of Visakhapatnam district, Andhra Pradesh

J. Koteswara Rao*, J. Suneetha, T.V.V. Seetharami Reddi and O. Aniel Kumar

Department of Botany, Andhra University 530 003, India

Abstract: Though there are a good number of publications on ethnobotany publications on a particular tribe are not many necessitating the present study. The paper enumerates 62 medicinal plant species belonging to 61 genera and 43 families used for ethnomedicinal purposes by the Gadaba primitive tribe of Visakhapatnam district, Andhra Pradesh. Visakhapatnam district with an area of 11, 161 Km² (4.1% of the area of the state) is one of the north eastern coastal districts of Andhra Pradesh. The study area lies between 17°-34' 11" and 18°-32' 57" northern latitude and 18°-51' 49" and 83°-16' 9" in eastern longitude. The entire agency track covers 6, 298 Km² i. e., 56.4% of the total geographical area of the district.

Keywords: Ethnomedicine, Gadaba, Primitive Tribe, Visakhapatnam disrtict

INTRODUCTION

Though there are a good number of publications on ethnobotany publications on a particular tribe are not many [1-19] necessitating the present study. The paper enumerates 62 medicinal plant species belonging to 61 genera and 43 families used for ethnomedicinal purposes by the Gadaba primitive tribe of Visakhapatnam district, Andhra Pradesh.

ETHNOLOGY

The Gadaba call themselves 'Mogililu' or 'Modililu' in their own dialect. They owe their name to the fact that its ancestors emigrated from the bank of the Gadabari (Godavari) river. As per 2001 census, the total population of the Gadaba was 36, 078 of which 17, 836 were men and 18,242 women. The low literacy level (36.63%) indicates educational backwardness among the community. They celebrate *Itukala Panduga* during summer and children enjoy cradle riding (Fig. 4). They also have their traditional folk-songs, folk-tales and folk-dances and perform the *dimsa* (Fig. 3) and *koppu* dances. They are fond of eating *boddingulu* (larvae of arthropods) (Fig. 6) available underneath the root system of *Phoenix loureirii* during the month of February.

Most of the Gadaba families are nuclear. Extended families are also found. Interpersonal relations in a Gadaba nuclear family reveal that the husband is the head of the family. He engaged in cultivation. His wife looks after the children, completes the house-hold chores (Fig. 2) and also

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*Corresponding Author, Tel: +91-9490209107 Email: koteswararaojarra@yahoo.com

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works in agricultural operations and cattle rearing. They use dokis (Fig. 5) made from the dried fruits of Lagenaria siceraria as substitutes for the spoons in cooking. Grown-up children assist their father. The brothers in an extended family work together under the leadership of their father. When the father dies, the eldest son becomes the head of the family. Conflicts and confrontations may arise during division of property. The eldest son gets a larger share than the other brothers. Succession to the village headmanship is based on one's capability. A Gadaba woman has no right of inheritance to her parents property. In addition to her household work, she also attends to agricultural work on their own lands. She participates in rituals and religious activities. She also contributes to the family income. Still, she occupies only a secondary position. They are fond of reverse smoking.

METHODOLOGY

An attempt has been made to report the medicinal plants used by the Gadaba primitive group. The information has been gathered from the local medicinemen, village elders, etc. during field trips (2008-11) to different areas of the 11 mandals of Visakhapatnam district. The medicinal plant species were identified and deposited in the herbarium of the Department of Botany, Andhra University, Visakhapatnam.

RESULTS AND DISCUSSION

In the enumeration all the plant species are arranged with their family, local name, parts used and various uses for the treatment of illness and diseases (Table 1). A total of 62 plant species belonging to 61 genera and 43 families were reported for different therapeutic uses. Ethnomedicinal uses have been reported and this is the first hand exclusive investigation on the medicinal plants among the Gadaba tribe of the district. Most of the plants used in the treatment are herbs (24 species), trees (17 species), and climbers (14) and rarely shrubs (7 species). Fabaceae is the dominant family with 6 species followed by Zingiberaceae (4), Rubiaceae (3) and Acanthaceae, Anacardiaceae, Apocynaceae, Convolculaceae, Flacourtiaceae, Meliaceae, Asteraceae, Orchidaceae, Lythraceae each with two species and others with one species each.

Table1 Ethnomedicinal plants

Name of the plant	Family	Table1 Ethnomedicinal pl Vernacular name	Part used	Use
Achyranthes aspera L.	Amaranthaceae	Kukkurudhanthi	Root	Giddiness, Indigestion, Piles
Adiantum philippense L.	Adiantaceae	Challi	Root	Allergy, Cough, Piles
Anodendron paniculatum (Roxb.) A. DC	Apocynaceae	Chedukura	Leaves, Tubers	Fits, Leprosy, Paralysis
Argemone mexicana L	Papaveraceae	Yerri kusuma	Root, Latex	Dysentery,Liquid film in the eye
Argyreia nervosa (Burm.f.) Boj.	Convolvulaceae	Gummada mada	Root, Leaves	Hydrocele,Piles,Post-partum problem
Atylosia scarabaeoides (L.) Benth.	Fabaceae	Adavi ulava	Root	Contraceptive, Dysentery
Begonia picta Sm.	Begoniaceae	Notipullu mandu	Root	Sores in mouth
Bidens pilosa L.	Asteraceae	Aggichettu	Root	Oedema, Snakebite, Subjugation
Casearia elliptica Willd.	Flacourtiaceae	Girugudu	Root,Stembark	Aphrodisiac, Muscular pain
Celastrus paniculatus Willd.	Celastraceae	Palleru thivva	Stem bark	Burning sensation
Cipadessa baccifera (Roth.) Miq.	Meliaceae	Paradonda	Stem bark, Tender braches	Allegry, Aphrodisiac, Fever
Clerodendrum serratum (L.) Moon.	Verbenaceae	Barangi	Root	Fever, Piles
Commelina erecta L.	Commelinaceae	Mandumokka	Leaf paste	Sciatica
Cryptolepis buchananii Roem. & Schult.	Periplocaceae	Palathiga	Root,Stem paste	Cough, Leucoderma, Teeth troubles
Curculigo orchioides Gaertn.	Hypoxidaceae	Nela tadi	Rhizome	Jaundice, Migrain, Rib muscle pain, Scabies
Curcuma aromatica Sal.	Zingiberaceae	Kasturidumpa	Tubers	Dysentery, Fever
Cyclea peltata (Lam.) Hook.f. & Thoms.	Menispermaceae	Chantimal	Tuber paste, Root	Gastric ulcers, Jaundice, Sciatica
Dalbergia volubilis Roxb. (Fig. 7)	Fabaceae	Maredutivva	Stem bark, Root, Leaves	Heart pain, Menorrhagia, Post-partum problem
Dillenia indica L.	Dilleniaceae	Revadachettu	Stem bark	Piles
Drosera burmanni Vahl (Fig. 8)	Droseraceae	Beda sudhari	Stem bark	Subjugation
Drynaria quercifolia (L.) J. Smith	Polypodiaceae	Rachilaka mandhu	Root	Fits, Post- partum problems
Equisetum debile Roxb.	Equisetaceae	Bedda Kandhiri	Root	Dysentery
Eupatorium adenophorum Spreng.	Asteraceae	Panti mandu	Leaf, Root	Tooth decay, Foetus movement
Ficus religiosa L.	Moraceae	Ravi chettu	Stem bark	Leucorrhoea
Garuga pinnata Roxb. (Fig. 9)	Burseraceae	Girugudu	Galls on the leaf	Goiter
Globba racemosa Smith (Fig. 10)	Zingiberaceae	Gundenoppimandu	Fruit	Heart pain, Stomach pain
Glycosmis pentaphylla (Retz.) DC	Rutaceae	Konda giluguru	Stem bark	Leucorrhoea, Piles
Habenaria roxburghii (Pers.) R.Br.	Orchidaceae	Osso	Tuber paste	Breast cancer
Hynea trijuga Roxb. (Fig. 11)	Meliaceae	Yelakathoka karra	Tender branches	Aphrodisiac
Homalium nepalense (Wall.) Benth.	Flacourtiaceae	Cheduchettu	Stem bark	Puerperal fever
Hoya pendula R.Br.(Fig. 12)	Asclepiadaceae	Thigapappu	Leaf, Root	Eye infection, Prolapse of uterus, Heart pain
Ichnocarpus frutescens (L.) R. Br.	Apocynaceae	Palativva	Root	Galactagogue
Ipomoea hederifolia L.(Fig. 13)	Convolvulaceae	Kasiratnam pulu	Root	Cataract
Lannea coromandelica (Houtt.) Merr.	Anacardiaceae	Gumpena	Stem bark	Bone fracture
Leea indica (Burm.f.)Merr. (Fig. 14)	Leaceae	Chinnamokudu dumpa	Tuber	Liver enlargement
Litsea deccanensis Gamble	Lauraceae	Naramamidi	Stem bark	Body pains, Scabies, Sciatica
Mucuna pruriens (L.) DC	Fabaceae	Dulagondi	Root, Seed	Allergy, Helminthiasis
Musa ornata Roxb.	Musaceae	Adavi arati	Root	Ear ache
Oroxylum indicum (L.) Vent.	Bignoniaceae	Bapana	RootFlower Stem bark	Fits, Leucorrhoea, Menorrhagia, Tuberculosis
Parmelia perlata (Huds.) Ach.	Parmeliaceae	Rathipuvvu	Thallus	Anti-emetics
Peperomia tetraphylla (Forst. f.) Hook. &	Piperaceae	Pansa pappu	Whole plant	Sores on the scalp
Arn.	•		•	•
Pseudathria viscida (L.) Wt. & Arn.	Fabaceae	Batanku aku	Root	Prolapse of uterus
Pterocarpus marsupium Roxb.	Fabaceae	Yegisa	Stem bark	Jaundice, Menorrhagia
Pueraria tuberosa (Roxb. ex. Willd.) DC. (Fig. 15)	Fabaceae	Darigummadi	Leaf, Tuber	Head ache, Heart pain
Randia spinosa (Retz.) Poir	Rubiaceae	Manga chettu	Stem bark	Abortion
Rhaphidophora decursiva (Raoxb.) Scott.	Araceae	Athukuchettu	Leaf	Bone fracture
(Fig. 16)				
Rhinacanthus communis Nees (Fig. 17)	Acanthaceae	Todajada Daggumandu	Flower	Eye disease
Rotala rotundifolia (Buch-Ham. ex Rox.)	Lythraceae	Daggumandu	Whole plant	Cough
Koehne (Fig. 18) Rubia cordifolia L.	Rubiaceae	Mangala katti	Root	Leucorrhoea
*	Rubiaceae	Mangala katti Gedarabba chettu	Root	
Rubus ellipticus Smith (Fig. 19) Schefflera stellata (Gaertn.) Harms	Araliaceae		Tender branches	Fits, Leucorrhoea, Menorrhagia
Semicarpus anacardium L.f. (Fig. 20)	Aranaceae Anacardiaceae	Purugodi Nall geedi	Seeds	Stomach pain Cough
Stemona tuberosa Lour. (Fig. 21)	Stemonaceae	Banda beesa osso	Root, Tuber	Dysentery, Fever
Stemona androsa Dour. (11g. 21)	Stemonacede	Danda ocesa osso	1000, 10001	2,001101,,10101

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Sterculia urens Roxb.	Sterculiaceae	Kovelachettu	Gum	Amoebic dysentery, Heel cracks
Thalictrum foliolosum DC.	Ranunculaceae	Piyaranga	Tuber	Hydrocele, Jaundice
Thunbergia alata Boj. ex Sims (Fig. 22)	Acanthaceae	Thalagudda teega	Root	Menorrhagia,
				Irregular menstruation
Thysanolaena maxima (Roxb.) Kuntze	Poaceae	Konda chipuru	Root	Piles
Vanda testacea (Lindl.) Reichb.f. (Fig. 23)	Orchidaceae	Mollandana	Whole plant	Bone fracture
Vitis heyneana Roem. & Schultes	Vitaceae	Mediki dumpa	Tuber	Fever, Sciatica
Woodfordia fruticosa (L.) Kurz	Lythraceae	Arepuvvu	Leaf, Flower, Stem bark	Cuts and wounds, Dysentery
				Jaundice
Zingiber roseum (Roxb.) Rosc. (Fig. 24)	Zingiberaceae	Adavi allamu	Rhizome	Fever, Heart pain,
				Ulcers in stomach
Zingiber zerumbet (L.) Smith	Zingiberaceae	Samida dumpa	Rhizome	Fever



Fig. 1-12. 1. Study area; 2. Gadaba women with water; 3.Dimsa dance; 4. Children enjoying cradle; 5. Dokis; 6. Boddingulu (Larvae); 7. Dalbergia volubilis; 8. Drosera burmanii; 9. Garuga pinnata; 10. Globba racemosa 11. Heynea trijuga; 12. Hoya pendula



Fig. 13-24. 13. Ipomoea hederifolia; 14. Leea indica; 15. Pueraria tuberosa; 16. Raphidophora decursiva; 17. Rhinacanthus communis; 18. Rotala rotundifolia; 19. Rubus elliptica; 20. Semecarpus anacardium; 21. Stemona tuberosa; 22. Thunbergia alata; 23. Vanda testacea; 24. Zingiber roseum.

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