DOCUMENTATION OF MEDICINAL PLANTS IN SELECTED VILLAGE OF NANJANGUD TALUK, BILIGERE HAMLET, MYSURU, KARNATAKA.

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Abstract: The present study was aimed to survey and document the medicinal plants in the selected village of Nanjangud taluk, Biligere hamlet, Mysuru. Data was collected by localities and plants are identified with the help of flora. Total 42 plants are documented. In this 42 plants *Fabaceae* is dominated which contributed 7 species. The present work is carried out to ensure awareness on traditional medicines which are easily available to cure different human aliments. This documentation may help to draw attention to valuation of the biological diversity of the study area.

Index terms: Medicinal Plants, Therapeutical uses and part used.

Introduction:

The relationship between humans and animals with the plants its starts in the beginning of the earth, humans learn to recognize and categorize the plant material are used to different purpose such as food, shelter, oxygen, medicines etc. Totally plants as magical values we can call it as primary source of life (Mazid et al., 2012). Plants also possess healing beneficial property which effects on the human body they generally called as medicinal plants (Motelab, 2011). Medicinal plants are the primary health care sources during our ancient time (Krupa et al., 2017). India has one of the major biodiversity rich countries and has large number of flora and fauna and wild variety of plants. Ayurveda is the oldest practice in the Indian medicinal system and currently, a lot of importance has been given to it because of its low coast and no side effects. India also has written information about medicinal plants and formulation were scripted within some books such as Ayurveda Materia, Medica and Material Medica (Gowramma et al., 2020). The oldest written evidence of medicinal plants has been found on a Sumerian clay slab from Nagpur, its approximately 5000 years old (Petrovska, 2012). Karnataka one of the Southern states of India has 3.83 Million ha of recorded forest area which is around 20 percent of its geographical area. The state rank 4th among all the state and union territories in respect of area under tree cover (Satish et al., 2013). Mysore district is having a rich flora of medicinal plants, a very limited area has been documented and the smaller number of medicinal plants used by traditional healers. Hence this study is carried out to enlist the medicinal plants which are used by the selected area people (Nagalakshmi et al., 2020).

Material Methodology:

Study area: About 13 to 14 villages of Nanjangud taluk is considered as study area which belongs to Mysuru district, one of the 31 districts of Karnataka state. Nanjangud taluk lies on south-western parts of Mysuru district and forms almost a plain boundary except for a few isolated hillocks to the south and west. These hills rise 600 to 700 feet above the general level of the boundary, which is at an elevation of 2400 feet. The general slope is from south to north and there is a small but gradual and wide depression seen on the northern parts of the taluk following the Kabini river basin and another small and narrow depression is seen on the western parts of the taluk through which Nugu river flows. Total 184 villages falling in Nanjangud taluk, the study area located in Nanjangud to T. Narasipura main road and it is belongs to the Biligere hamlet. The study area covers approximately 3.888.91 hector of land of selected villages (Mahadevaswamy *et al.*, 2010).

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Data collection: Field survey was targeted to document the traditional medicine used in treatment of disease. The survey was conducted in the month of April to June. The data was collected through interviews and discussion with traditional participants in the study area with the local language "Kannada". Identification was done with the help of flora, All the possible information regarding the traditional uses/part used methodology, dosage, prescription, diet restriction and administrations and classification of plants are reported.

RESULTS

The present Documentational study of Medicinal plant in selected village which belongs to Biligere Hamlet, Nanjangud taluk, Mysuru district. Here total 42 medicinal plants are identified for the treatment of human ailments that distributed across 23 families. Among them, the most dominant is Fabaceae family which contributed 7 species, Followed by Moraceae 4 species, Followed by Amaranthaceace and Lamiaceace which is contributed 3 species, followed by Acanthaceae, Malvaceae, Myrtaceae, Phyllanthaceae and Solanaceae its of 2 species and remaining 1 species belongs to the families of Anacardiaceae, Annonaceae, Apiaceae, Asclepiadaceae, Asteraceae, Basellaceae, Combretaceae, Crassulaceae, Cucurbitaceae, Euphorbiaceae, Meliaceae, Menispermaceae, Punicaceae, and Rutaceae. The survey also reveals that, trees are dominated one followed by Herbs, shrubs and climbers. The present work is carried out to ensure awareness on traditional medicines which are easily available to cure different human aliments. As there lack of knowledge and interest among the people, this documentation may help to draw attention to valuation of the biological diversity of the study area.

Table No: 1.1 Plant list with Botanical Name, Common Name, Part used and Treatment

Sl No.	Family	Botanical Name	Common Name	Part Used	<u>Treatment</u>
1	Acanthaceae	Justica adhatoda Vasica	Adulsa	Leaf, flower, stem, bark	Cough, bleeding piles and Diarrhoea
	Acanthaceae	Hygrophila auriculata	Swamp weed	Whole plant	Swelling legs
and the second	×	Achyranthes aspera	Devils horsewhip	Leaf, Stem plant body.	Ear pain, and Snake bite
2	Amaranthaceae	Alternanthera sessilis	Sissoo spinach	Leafe, stem	Jaundice and hair fall
Money.	Amaranunaceae	Celosia argentea	Sliver cock's	Leave, stem.	Constipation
3	Anacardiaceae	Mangifera indica	Mango	Young leaf and fruit peel.	Gingivitis, Menorrhagia and Dysentery
4	Annonaceae	Annona squamosa	Sugar apple	Leave	Bleeding wound
5	Apiaceae	Centella asiatica	Indian pennywort	Leafe and stem	Breast milk increase, Memory enhancement
6	Asclepiadaceae	Calotropis gigantea	Crown flower	Milky latex, root.	Foot corn and fever
7	Asteraceae	Eclipta prostrata	Bhringraj	Whole plant.	Hair fall, Asthma, Constipation
8	Basellaceae	Basella alba	Malabar spinach	Leaf, stem.	Skin complexion, Irregular periods
9	Combretaceae	Terminalia bellirica	Beleric	Bark, fruit	Appendicitis, Intertrigo
10	Crassulaceae	Kalanchoe pinnata	Miracle leaf	Leaf.	Scabies and Leukoderma
11	Cucurbitaceae	Momordica charantia	Bitter melon	Leaf, flower, fruit.	Ear discharge, Diabetes and Scabies
12	Euphorbiaceae	Acalypha indica	Indian Acalypha	Leaf, root.	Cough, Skin irritation and Rat poison

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		G 1 1 1		1	
		Caesalpinia	Peacock	Leaf,	Cholera, Fever,
		pulcherrima	flower	flower,	
				root, bark.	
13	Fabaceae	Clitoria	Pigeon wings	Flower,	Heart disease, Jaundice
		ternatea		root	
		Guilandina	Grey nicker	Root, bark,	Ulcer, Diarrhoea, joint
		banduc		nut, leaf.	swelling.
		Abrus	Rosary pea	Leaf, seed,	Cough, flue, Acne sore,
		precatorius	Rosary pea	root.	Snake bite
			Touch-me-	Leaf, root.	Piles and Fever
		Mimosa pudica		Lea1, 100t.	Files and rever
		D .	not	T C 1	D 11 11 11 11 11 11 11 11 11 11 11 11 11
		Pongamia	Indian beech	Leaf, seed,	Bad breath, pigmentation,
		pinnata		twig.	
	4.5	Tamarindus	Tamarind	Leaf, fruit,	Dustin eye, Sprain, Blood
		indica	શૈજુ જિ		clot
	A 100	Coleus	Indian mint	Leaf.	Fever, Urticaria, Sore
	A Park	amboinicus			throat
14		Ocimum	Sweet basil	Leaf and	Sinusitis, Renal calculi
14		basilicum		seed	-to-to-to-to-to-to-to-to-to-to-to-to-to-
. 1	Lamiaceae	Lecus aspera	Thumbai	Leaf,	Fever, Sore throat, Back
				flower, and	pain
Photo Photo				stem	
6700		Abutilon	Indian	Leave.	Bleeding piles
17	Malvaceae	indicum	Abutilon		
15		Hibiscus	Hibiscus	Flower,	Hair fall, Skin burn
Contract .		rosasenensis		Leaf.	Series.
	3.5.11	Azadirachta	Neem	Leave and	Jaundice, Epistaxis,
16	Meliaceae	indica		twig.	Pimple
250.00	36 .	Tinospora	Heartleaves	Leaf, stem.	Jaundice
17	Menispermaceae	cordifolia	moonseed		1060
Market Tab.		Ficus	Banyan tree	Bark,	Wound swelling, Vaginal
10 min Ca		benghalensis		tender,	infection, Snake bite
September 1		S Total	7570	leaf, latex.	,
B -		Ficus racemosa	Cluster fig	Bark, leaf	Swelling hand and leg,
			Clastel lig		Pimple, Dysentery
18		Moringa oleifer	Drumstick	Leaf,	Asthma, Constipation,
MANAGE	Moracea	morniga oreiger	tree	flower,	Night blindness
457	Wioracca	100	tree	bark.	Tright officies
Contract of the Contract of th	32	Artocarnus	Jackfruit	Bark.	Ringworm
- 60	6/	Artocarpus heterophyllus	Jackiruit	Dark.	Kingworm
	70	Psidium	Gua tree	Leaf, fruit.	Toothache, Diarrhoea
19	Myrtaceae	guajava	Gua tree	Lear, Huit.	1 oomache, Diamioea
19	1v1 y1 taceae	Syzgium cumini	Java plum	Seed, Bark.	Diabetes
	700	Phyllanthus	Gale of the	Whole	Tooth ache
20	76.	niruri	wind		100111 acite
	Phyllanthaceae			plant	Enistoria Microina and
		Phyllanthus	Indian	Fruit, Bark.	Epistaxis, Migraine and
		emblica Dunias	gooseberry	Emile1	premature grey hair
21	Punicaceae	Punica	Pomegranate	Fruit peel,	Diarrhoea, Epistaxis,
		granatum		leaf,	Hiccups
		Limosi -	Wood a1.	flower.	Higgsing
22	Rutaceae	Limonia	Wood apple	Leaf, fruit.	Hiccups
		acidissima	I. I. D. 1	T C C	District D
23	Solanaceae	Aegle marmelos	Indian Beal	Leaf, fruit.	Diabetes, Dysentery,
		G 1	m 1 1	D •	kidney stone
		Solanum	Turkey berry	Fruit.	Toothache
		torvum			

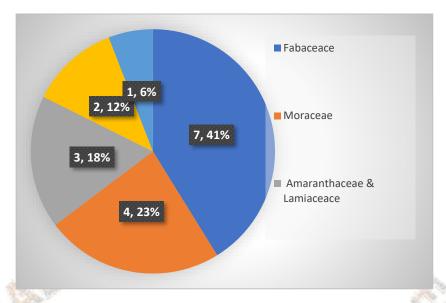


Fig No: 1.1 Families used most.

Summary: The ethnobotanical study resulted in documenting 42 medicinal plant species. Fabaceae is the most dominant family with the highest number of available plant species. Minor to major diseases can be cured using these medicinal plants. Approximately 50 different human ailments can be treated by various drug formulations. Nanjangud taluk have unique diversity which accounts for the availability of raw materials for the preparation of herbal medicines. The main threat to the medicinal plants is forest fire, destroys the available rich diversity of plants. Most of the population around the world rely on the traditional medicine to meet their primary health care needs. Traditional plants are easily affordable than conventional medicine, cost effective. People depend on the available medicinal plants to cure common cold, cough, fever without relying on the conventional medicines. The present work is carried out to ensure awareness on traditional medicines which are easily available to cure different human ailments. As there is lack of knowledge and interest among the people, this documentation may help to draw attention to the valuation of the biological diversity of the study area.

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