Bulletin of Environment, Pharmacology and Life Sciences

Bull. Env. Pharmacol. Life Sci., Vol 12 [7] June 2024: 58-62 ©2022 Academy for Environment and Life Sciences, India Online ISSN 2277-1808

Journal's URL: http://www.bepls.com

CODEN: BEPLAD

SHORT COMMUNICATION



OPEN ACCESS

Medicinal plants used in treatment of some common disease by local people from DantaTaluka

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ABSTRACT

In ancient time all over the world's herbal medicine were used to cure all the diseases. But due to the globalization, some other medicinal practices emerge out. On the help of quick relief, many more side effects affect the human health. Therefore, the practioner are come back on the herbal medicines. As the relationship explores, Ethanobotany, the term arises that's means relation of medicinal plants and human beings. The present paper focus on surveys of medicinal plants used by some tribe of Danta taluka. The taluka area is fully covered by the deciduous forest. These people used some plants as to cure the common. About more than 56 plants species were observed out of which some important plants documented in this paper.

Keywords: ethnobotany, tribal people, herbal botanical garden, Banaskantha district, Gujarat

Received 22.03.2024 Revised 24.04.2024 Accepted 23.05.2024

INTRODUCTION

Banaskantha is one of the most important districts in Gujarat. The district boundary latitude is 24.3455° N and the longitude is 71.7622° E. The area of the district is 12,703 km². It is connected to the north by Aravali, to the south by Patan District, to the east by Sabarkantha and Mehsana District, and to the west by Kachchh District. Banaskantha district shows a little variation in its climate along the north-south direction. The district is located in the northeast of Gujarat and is presupposingly named after the west Banas River. Banaskatha district mainly features deciduous forests. The summers are hot while the winters are dry and cold; the temperature may drop to 12°C or below 9°C. Herbal Botanical Garden is located near Vashi village in Danta Taluka in the Banaskatha district. In this garden, the natural vegetation of the forest includes a variety of plant species with tremendous medicinal values. The local peoples and some tribes are mostly dependent on these plants. They are plants used as food, as vegetables, and as medicine to cure some common diseases like fever, cold, cough, diarrhea, body pain, etc. Several authors studied the ethnobotany of this district, but this herbal botanical garden and the nearby village area remain untrapped. For this speculated region, we focus on this study area. The study area includes mainly herbal botanical gardens and some nearby villages like Vashi, Divadi, Dhareda etc [1-2]. The current research basically emphasizes the use of different plant parts for wellness over diseases. In the Indian subcontinent, the practices of ethnobotany are common to all the people. So many studies were carried out using the same approach. But, apart from the other studies, the subject work mentions the ethnobotanical procedure and its effectiveness in overcoming human wellness.

MATERIAL AND METHODS

Ethnomedicinal surveys were conducted in 2022–2023 in the winter in the tribal areas of Vashi, Dividi, and Dhareda in the Danta area of district Banskantha. During this survey, we collected all the data about medicinal plants used by the tribal men and villagers [3-5]. These observations are based on the personal interviews of tribal people and villagers, namely

- 1) Dineshbhaipanchal, Garden's supervisor village –Danta
- 2) Nanjibhaithakor, Village-Vashi
- 3) Ramjibhaikhokhariya, Village -Vashi
- 4) BhagabhaiRathod, village- Dhareda.

Also discussed were medicinal value, local names, how to use them, and the locality of plants. Plants were identified using recurrent scientific literature. Herbarium plants were stored in the department of botany at Sheth M.N.Sicence College, Patan.

RESULT AND DISCUSSION

During survey time, plants and plant parts are used as medicine by tribals and villagers from the Danta area. This analyzed data revealed that 56 medicine plants belong to 39 families, like Fabaceae, Mimosoideae, Solanceae, Asclepiadaceae, Papaveraceae, Apocynaceae, Leguminosae, etc. These plant species are used by tribals for curing common diseases such as headache, dysentery, skin disease, malaria, cough and cold, fever, toothache, snake bite, wounds, diabetes, mouth ulcer, leprosy, etc. So, there is a need to explore the area and again investigate phytochemical diseases for further research. Due to that, we carried out a survey in the Danta area and also noted all the uses of medicinal plants.

Table: Medicinal plant and their medical values

No.	Plant scientific name	Local name	Family	Ethno medicinal value:
1	Phyllanthus emblica L.	Amla	Phyllanthaceae	The paste of fruit pulp is applied to the
				skin for a burning sensation. The skin of
				bark chewed alleviates the dental aches.
2	Tecomell aundulata	Ragat Rohida	Bignonoaceae	The powder of the bark of Rohida is given
	(Sm.) Seem.			in a dose of 3 to 4 g to treat indigestion,
				lack of appetite, and intestinal worms.
3	Bauhinia purpurea L.	Kanchanar	Caesalpiniaceae	Decoction of root bark is administered for
				inflammation of the liver. It is also used as
	C / 1 D 1	***	C	a vermifuge.
4	Crateva nurvala Buch. -	Vaivarno	Cappraceae	Leaves are a remedy for foot swelling and
	Ham. var. nurvala			the burning sensation of the soles of feet, and they also help with rheumatism. Leaf
				smoke is inhaled in cases of caries of the
				nose.
5	Oroxylum indicum (L.)	Tetu	Bignonoaceae	Tender fruits are beneficial for
	Vent.	1000	Dignonouccuc	carminative and stomachic health. Seeds
				are purgative. And useful in piles and
				throat diseases.
6	Aegle marmelos	Bili Patra	Rutaceae	The decoction of the root and the stem
	(L.) Corr.			bark is used in the cure of intermittent
				fevers. A decoction of small, unripe fruit
				with fennel seeds and ginger is given for
	m . 1. 1 11	D 1 1	0 1 .	piles.
7	Terminalia bellirica	Behda	Combretaceae	The fruit is used internally, principally in
	(Gaertn.) Roxb.			the treatment of digestive and respiratory problems.
8	Gmelinaarborea Roxb.	Sevan	Verbenaceae	Its leaves are made into paste and applied
0	Gilletillaar bor ea koxb.	Sevali	Verbenaceae	to the forehead to relieve headaches.
				Flowers are useful in digestion, bleeding
				disorders, menstrual bleeding, and
				balancing kapha and pitta.
9	Terminali aarjuna	ArjunSadad	Combretaceae	Arjuna maintains normal urine flow and
	(Roxb.) W. & A.			helps suppress painful maturation. Leaves
				are used to cure ulcers and sores
				externally.
10	Xeromphis spinosa	Mindhal	Rubiaceae	The powder of seeds in a dose of 2-4
	(Thunb.) Keay			grams with water can also be used for
11	Citrus medica var	Diio	Dutosoo	vomiting.
11	limetta	Bijoru	Rutaceae	One tea cup of fruit juice is given to cure kidney stones. Juice is indicated in mostly
	Wt. &Arn.			digestion problems.
12	Citrus limon (L.) Burm.	Limbu	Rutaceae	Fresh Ripen fruit juice, mixed with sugar
	f.	Billiou	Rataccac	and salt, is used to relieve vomiting and
	-			weakness.
13	Dalbergia latifolia	Sisam	Fabaceae	The extract of bark is spasmogenic and
	Roxb.			anthelmintic. The bark is used to treat
				indigestion.
14	Clerodendrum	Arani	Verbenaceae	Decoction of leaves acts as a

	multiflorum (Burm. f.)			bronchodilator and mucolytic in nature,
	O. Ktze.			and it is used to break down phlegm and
				extra mucus and ease it out of the body.
				The root of this herb is used to treat
				jaundice and various disorders associated with the liver.
15	Musa paradisiaca L.	Kela	Musaceae	Banana young leaves are used as dressings
13	Masa paraaisiaca Li	Kela	Musaceae	for skin wounds to treat inflammation.
16	Argyreia nervosa	Samudrashosh	convolvulaceae	Leaves are maturative, absorptive, local
	(Burm. f.) Boj.			stimulant, and rubefacient and are used
				externally as an emollient paste for
17	Mimosa pudica L.	Lajamani	Leguminoseae	wounds and skin diseases. The decoction of the root in a dose of 45–
17	Mimosa paaica L.	Lajaillaili	Leguiiiiioseae	50 ml is taken to get relief from renal
				stones, urinary complaints, and asthma.
18	Rauvolfia serpentina	Serpgandha	Apocynaceae	It is used in various parts of the world for
	(Linn.) Benth. exKurz.			the treatment of snake (cobra), scorpion,
				or reptile bites and stings from any
19	Withania somnifera (L.)	Ashwagandha	Solanaceae	poisonous insects. Regular use of ashwagandha helps to
1,7	Dunal	Asiiwagailulla	Joianaceae	reduce blood sugar and cholesterol levels.
20	Bacopa monnieri (L.)	Bhrami	Scrophulariaece	The leaf juice can also be used for
	Wettst.		-	increasing blood pressure and enhancing
24	mi	***		the nervous system.
21	Thevetia peruviana (Pers.) Merrill	Karen	Apocynaceae	Latex is applied to decayed teeth to relieve toothache. It is used to treat chronic sores
	(Fers.) Merriii			and ulcers, and it is applied to soften corns
				and calluses.
22	Holoptelea integrifolia	Kanaji	Ulmaceae	The tender twigs are used as tooth
	(Roxb.) Planch			brushes and are believed to keep the
23	Alangium salvifolium	Ankol	Alangiagogo	breath and mouth clean and healthy.
23	Alangium salvijoilum (L. f.) Wang.	Alikoi	Alangiaceae	Root bark is used as a purgative and an anthelmintic. Useful in worms, colic,
	(21)) Wangi			inflammations, and poisonous bites.
24	Ocimum sanctum L.	Tulasi	Lamiaceae	Fresh tulsi juice mixed with ginger and
				honey helps reduce coughs and colds.
				Tulsi decoction is very beneficial for fevers like dengue and malaria.
25	Celastrus paniculatus	Malkangani	Celastraceae	The seed oil is a brain tonic. It promotes
23	Willd.	Manangani	delastraceae	intellect, sharpens memory, and helps
				with learning.
26	Butea monosperma	Khakharo	Fabaceae	Flowers boil in water, and it is used as a
27	(Lam.) Taub.	Donalzanaium	A ma a mulli da a a a a	body coolant and for skin diseases.
27	Pancratium triflorum Roxb.	Penckersium	Amaryllidaceae	Rhizome mixed with water is ingested to cure fatigue.
28	Diospyros melanoxylon	Timbera	Fabaceae	The fruits have a cooling and astringent
	Roxb.	_		effect.
29	Anogeissus latifolia	Dhav	Combretaceae	Leaf juice is given in purulent discharges
30	(Roxb.) Wall. exBedd. Cenchrus ciliaris L.	Dhaman	Poaceae	from the ear. The plant is anodyne, diuretic, and
50	Content as citian is Li	Brianan	rouccuc	emollient.
31	Murraya koenigii (L.)	Mitho Limbado	Rutaceae	The green leaves are stated to be eaten
	Spreng.			raw for curing dysentery, and the infusion
32	Azadirachta indica A.	Limbado	Meliaceae	of the washed leaves stops vomiting. The bark used in the powder or fluid
32	Juss.	Lillibado	1-1chaceae	extract is used in cases of intermittent
	,			fevers, general debility, convalescence,
				and loss of appetite. In hot decoction, they
				form a valuable antiseptic and healing
33	Boerhavia diffusa L.	Satodi	Nyctaginaceae	lotion. It is a good expectorant, antispasmodic,
33	Doernavia aijjasa L.	Jawui	ivyctagiliateae	and successful in treating asthma.
34	Calotropis procera	Akado	Asclepiadaceae	Leaves used as used for joints and waist
	(Ait.) R. Br.			pain, malarial fever.

35	Indigofera astragallina DC.	Gali	Fabaceae	Root powder for pain in the chest.
36	Santalum album L.	Chandan	Santalceae	The paste is also used as a remedy for prickly heat and to prevent excessive sweating during adverse environmental conditions.
37	Tinospora cordifolia (Willd.) Miers ex Hook. f. &Thoms.	Galo	Menispermaceae	Juice extracted from the stem is administered orally in the morning on an empty stomach to cure diarrhea.
38	Tribulus terrestris L.	Gokharu	Zygophyllaceae	The leaves of this medicinal plant are considered to possess stomachic properties.
39	Aloe barbadensis Mill.	Kunwarpathu	Lilaceae	Oral intake and tropical dressings of Aloe Vera encourage healing of any kind of wound on the skin, burn, or scald.
40	Adhatoda vasica (L.) Nees	Ardusi	Acanthaceae	Leaves (500g) are decocted in water (5 liters) until a dark brown mass is obtained, and two spoonfuls of honey are taken three times a day for 2-4 days to cure fever.
41	Andrographis echioides (L.) Nees	Kariyatu	Acanthaceae	Plants are useful in general debility and dysentery remedies for the bowel complaints of children.
42	Carissa congesta Wt.	Karamda	Apocynaceae	The unripe fruit is bitter, sour, astringent, thermogenic, constipating, an appetizer, an antipyretic mucolytic, and useful in polydypsia, anorexia, diarrhea, and diseases of the brain, including intermittent fevers.
43	Grewia flavescens A. Juss.	Trobet,Trambat	Tiliaceae	The seeds are ground to powder with turmeric and rubbed all over the mother's body after childbirth to prevent rheumatic pain from exposure to dump winds.
44	Argemone mexicana L.	Darudi	Papaverceae	The yellow juice of the plant is used as medicine for dropsy, jaundice, and cutaneous affections.
45	Syzygium heyneanum Wall. ex W. & A.	JalJamuni	Myrtaceae	A paste of bark is applied topically over the affected part of the skin to cure the wound.
46	Terminalia chebula Retz.	Harade	Combretaceae	It is good to increase appetite, digestive aid, liver stimulant, stomachic, and gastrointestinal prokinetic agent.
47	Tylophora indica (Burm. f.) Merrill	DamniVel	Asclepiadaceae	The leaf and root of this plant are widely used for treating jaundice.
48	Vitex negundo L.	Nagod	Verbenaceae	Leaves are used in aromatic baths and as insectifuges. A vapor bath prepared with the plant is used for the treatment of febrile, catarrhal, and rheumatic affections.
49	Ailanthus excelsa Roxb .	Arduso	Simaroubaceae	It is used as an astringent in diarrhea, dysentery, ear aches, and to cure skin diseases.
50	Asparagus gonoclados Baker	Satavri	Liliaceae	Root is mainly used in diebitis.
51	Agave americana L .	Ketki, Ramban	Agavaceae	Leaf pulp mixed with sugar is a popular remedy for gonorrhea.
52	Cassia auriculata L.	Aval	Caesalpiniaceae	Dried powder of flowers is mixed with goat milk and taken orally to prevent white discharge.
53	Cissusquadrangularis L.	Hadsankal	Vitaceae	The roots and stems are most useful for healing fractures of the bones.
54	Piper longum <u>L.</u>	Lindi pepper	<u>Piperaceae</u>	The unripe fruit is sweetish, cooling, and useful for biliousness.
55	Peper mia pellucida (L.)	Moli pepper	<u>Piperaceae</u>	Pansit-pansitan has been traditionally

		Н. В. & К.			used to treat fever, cough, common cold, headache, and arthritis.
-	56	Bryophyllum pinnatum	Panfuti	Crassulaceae	Leaves are used as an application to
		(Lamk.) Oken			wounds, bruises, boils, and bites from venomous insects and kidney stones.

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CITATION OF THIS ARTICLE

I. R. Parmar and N. K. Patel. Medicinal plants used in treatment of some common disease by local people from DantaTaluka. Bull. Env. Pharmacol. Life Sci., Vol 12 [7] June 2024: 58-62