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ETHNOMEDICINAL PLANTS USED IN THE HEALTHCARE SYSTEM OF TRIBES OFYAVATMAL DISTRICT (M.S.), INDIA.

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Abstract

The present research paper deals with traditional ethnomedicinal knowledge of tribals located in Yavatmal district. Indigenous knowledge was collected by interviewing people of different age groups between 45-80 years. Ethnobotanical information of 53 plants belonging to 36 families are recorded as being used by local inhabitants for curing various ailments. Brief information aboutplant parts used, botanical & local names, families, the mode of preparation of drugs and method of applications have been given. Such type of ethnomedicinal survey may prove useful in preservation and passing of traditional knowledge from tribals to other ethnic communities and also the next generations.

Key Words– ethnomedicinal, Tribals, Yavatmaldistrict, Traditional

Introduction

Ethnobotany is most important method to study natural resources and their management by indigenous people. Ethnobotanical investigation provides a wealth of information regarding the past and present relationship between plants human.

India has got a centuries old ethno – medico – botanical heritage since long ago. Even today many people in villages, towns & tribal areas practice home remedies &formula⁽⁶⁾. The tribals in Yavatmal district sustain their healthcare on plant based drugs for combating different ailments& disorders. They posses vast store of knowledge about natural resources in vicinity. It is also true that their experience and knowledge were subjected to modifications and refinements by the successive generations which have been also with their traditions.

Yavatmal district is situated in eastern part of Maharashtra between north latitudes 19° 28¹& 20° 48¹& longitudes 77° 19¹& 70° 07¹. It occupies on area of about 13,517 21 59 km. The temp.varies from 9°to 45° c. The rainfall increases from the north west towards the south east on an average there are 53 rainy days, i-e days with rainfall of 2.5 mm.Wardha and Penganga are the main rivers of the district, both of them forming the district boundaries. The soil in the district is slightly alkaline, clayey, loomy and contain calcium carbonate. Limestone is only mineral of economic importance found in district. Agriculture is the main source of livelihood of the people of Yavatmal district.

Material & Methods

An extensive field survey was carried out togather traditional ethnomedicinal information from the tribals & local people. Ethno medicinal information about the plant was collected on the basis of frequent interviews with local physicians practicing indigenous system of medicine. Plant species collected were identified with the help of standard.floras^(1,2,3,4,7,9,10)

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Observation:-

Plant Botanical/ Local Name	Family	Parts used	Medicinal Use(s)	Mode of administrati
				on
AbrusprecatoriusL. (Gunja)	Fabaceae	Root, leaves and seeds	Piles	1) 5 gm of root powder with a cup of milk twice a day for 12-15 months to cure piles. 2) Young leaves consumed 2-3 time daily for mouth ulcer. 3) The seed powder mixed with water is applied locally to reduce swelling.
Acacia chundra Willd. (Khair)	Mimosaceae	Stem, leaves and fruits.	Scabies, Intestinal Worms	1) Ash obtained from stem & leaves mixed with coconut oil, applied on burns & scabies till cure. 2) 2-3 spoonful of leaf juice & fruit pulp 5-7 gm taken orally daily for a week to kill intestinal worms.
Acanthospermum hispidumDC. (Gokhru)	Asteraceae	Roots and leaves	Urination	1) Root & leaves extract (1:1) is taken

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				orally twice a day to regulate urination.
Achyranthes aspera Linn. (Aghada)	Amaranthaceae	Roots	Earache, Piles Snake Bite Asthama	1) 5 gm of root powder with a cup of milk twice a day for 12-15 days t cure piles and 2-3 drops of root juice are recommended on Earache. 2) Paste of leaves in applied on snake bite. 3) Decoction of leaves about 5-10 ml is given 2-3 times daily in asthma.
Adathodavasica Nees.	Acanthaceae	Leave	Cough & Cold	1) 2 tea spoon juice of leaves is given to relieve the symptoms of cough & cold for 3 days.
Aervalanta (Linn.) Juss. (Maduri)	Amaranthaceae	Leave		1) Warmed juice of the leaves is dropped in ear on pus formation in an ear.
Agglemarmelos (Linn.) Carr. (Bel)	Rutaceae	Leave s and fruit.	Asthama, Cough and Diarrhoea.	1) Decoction (10-15 ml) of the leaves is used once a day at night in asthma &

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AilanthusexcelsaRoxb. (Ghod-limb)	Simaroubaceae	Stem, leaf and fruit.	Asthama, Diarrhoea and Diabetes	cough. 2) Fruit juice is administered daily twice for 3-5 days to cure diarrhoea. 1) Decoction of stem bark (10-20 ml) is given twice daily to cure asthama.
				2) 5 ml of leaf juice administered daily twice to cure diarrhoea. 3) About 20 gm of fruit powder taken orally to check diabetes.
Annonasquamosa L. (Sitaphal)	Annonaceae	Leave s	Wounds & ulcers.	1) Paste of fresh leaves applied on wounds and ulcers.
Argemonemexicana L. (Piwala – dhotra)	Papavaraceae	Latex	Eczema	1) Latex is mixed with coconut oil & applied on wounds of eczema till cure.
AzadirachtaindicaAJuss.	Meliaceae	Leave s	Dysentery	1) Extract of leaves (10 ml) given thrice a day for 3-5 days to cure dysentery.
BauhniaracemosaLamk. (Apta)	Caesalpiniacea e		Headache and Malaria	1) Decoction of leaves about (10-20

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Boerhaviadiffusa Linn.	Nyctaginaceae	Whol	Bronchitis	ml) administered in headache & malaria. 1) Whole
(Punarnava)	Nyctagmaceae	e Plant		plant decoction (15-20 ml) is given twice a day in bronchitis & jaundice.
Calotropis procera R. Br. (Rui)	Asclepiadaceae	Leave s and Latex	Dog bite and skin infections.	1) Extract of leaves mix with sugar (3:1), applied over dog bites. 2) Latex is applied over skin infection.
Capparis grandis L. (Pachunda)	Capparidaceae	Leave s and stem bark.	Rheumatis m	1) Decoction of leaves & stem bark applied on joints to cure rheumatism.
Carica papayaL. (Papai)	Caricaceae	Seed and Latex	Menstrual disorders, Eczema and ringworm.	1) Spoonful seed powder along with the leaf of <i>Piper betel</i> L. Consumed to regulate menstruation. 2) Latex is used to treat eczema & ringworm.
Celosia argentaL. (Kukada)	Amaranthaceae	Root	Kidney Stone	1) Root powder mixed in water and taken internally to cure kidney stone.

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Cissampelospareira L.	Menispermace	Roots	Indigestion	1) Root
(Pahadvel)	ae			powder
				mixed with
				honey and
				ginger taken
				orally in
	3.6	_	G 1	indigestion.
Cocculushirsutus L.	Menispermace	Leave	Gonorrhoea	1) Juice of
(Vasanvel)	ae	S		leaves, mixed
				with water
				and warmed,
				taken
				internally for
	C 4	3371 1	XX7 1 0	gonorrhoea.
Cuscuta reflexa Roxb.	Cuscutaceae	Whol	Wounds &	1) The boiled
(Amarvel)		e nlant	sores.	extract of the
		plant.		plant is used
				to wash wounds &
Datura stramoniumL.	Solanaceae	Leave	Asthama	sores. 1) Power of
	Solaliaceae	s and	Asuiailia	dried leaves
(Dhotra)		s and seeds.		& seeds is
		seeus.		mixed with
				water & taken
				twice a day
				for 5-6 days
				to cure
				asthama.
Ficus religiosaL.	Moraceae	Stem	Hepatitis	1) Spoonful
(Pimpal)	Wioraceae	bark.	Hepatitis	of stem bark
(1 mpar)		bark.		powder is
				kept in a cup
				of water for
				10-12 hrs. It
				is taken orally
				hepatitis till
				cure.
Gloriosa superba Linn.	Liliaceae	Tuber	Asthama	1) Decoction
(Kal- lavi)		1 3001	- 1001101110	of tuber is
(administered
				twice a daily
				in asthama.
Helecteresisora L.	Sterculiaceae	Leave	Eczema	1) Paste of
(Muradsheng)		S		leaves &
(green fruits
				applied on
		<u> </u>	<u> </u>	applies on

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				eczema for 8- 10 days.
Hemidesmusindicus (Anantmul)	Asclepiadaceae	Root	Arthritis	5 gm of root powder with honey thrice a day consumed a day to relief arthritis.
Lagenariasiceraria (Malina) Standl (Bhopla)	Cacurbitaceae	Stem	Sunstroke	1) Paste of stem applied on foot to treat sunstroke.
Lepidagathiscuspidata Nees. (Bendyaghas)	Acanthaceae	Leaf	Wounds & scabies.	1) Leaf powder applied on wounds & scabies for 8- 10 days.
Meliaazedarach (Bakneem)	Meliaceae	Leaf	Menstrual disorders.	1) 5ml leaf juice administered daily in menstrual disorders.
Merremiagangetica L. (Undirkani)	Convolvulacea e	Whol e Plant	Memorrheg ia	1) Dried powder of whole plant is used in memorrhegia.
Mimosa hamtaWilld. (Arati)	Mimosaceae	Root	Rheumatis m	1) Decoction of root (10-15 ml) is given at morning & evening to treat rheumatism for 8-10 days.
Mimosa pudicaL. (Lajalu)	Mimosaceae	Root	Urination	1) Decoction of roots, taken orally to regulate urination.
Moringaoleifera Lamk. (Shevaga)	Moringaceae	Stem bark.	Asthama and respiratory	1) Decoction of stem bark (10-12 ml) is

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Ocimumamericanum Linn.	Lamiaceae	Leave	ailments.	given daily to cure asthama & respiratory ailments for 8-10 days. 1) Juice of
(Ran-Tulasi)		S	Breath and rhinitis.	leaves (10-12 ml) with honey is given to cure short breath & rhinitis.
Opuntiaelatior Mill. (Nivdung)	Cactaceae	Fruit	Rheumatis m	1) Fruit powder consumed at morning for 10-15 days to treat rheumatism.
Oxalis corniculata L. (Ambusi)	Oxalidaceae	Whol e Plant	Headache	1) The paste of plant is massaged on forehead to relieve headache.
Pergulariadaemia (Forsk.) Chiov. (Utaran)	Asclepiadaceae	Leaf	Asthama and Jaundice	1) The fresh leaf juice (5-7 ml) is given 2-3 times a day in asthama. 2) Leaf extract, about 10 ml taken orally 8-10 days to check jaundice.
Prosopis cineraria L. (Shami)	Mimosaceae	Leaf	Leucoderm a	1) Paste of leaves used externally on Leucoderma.
PsoraleacorylifoliaL. (Bawchi)		Seed	Leucoderm a	1) Seed oil is used in Leucoderma and other skin diseases.
Semicarpusanacardium L.	Anacardiaceae	Seed	Eczema	1) Seed ash

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(Bibba)				mixed in
				coconut oil
				applied on
				eczema 10-15
				days.
Shorearobusta Gaertn F.	Dipterocarpace	Resin	Diarrhoea	1) The resin
(Salai)	ae		and	powder
			Indigestion.	mixed with
				water
				consumed to
				check
				diarrhoea&
				indigestion.
Sidarhombifolia Linn.	Malvaceae	Root	Respiratory	1) Decoction
(Antibala, Sahadevi)			diseases.	of root (5-7
				ml) is taken 2
				times orally
				in lower
				respiratory
				track
				diseases.
SolanumxanthocarpumSchrad&w	Solanaceae	Fruit	Arthritis	1) Dried
endl.				powder of
(Bhuiringani)				fruit (5g) is
· · · · · · · · · · · · · · · · · · ·				boiled with 5-
				6 black
				peppers
				(Piper
				nigrum) in
				200 ml water,
				decoction is
				taken twice a
				day for 8-10
				days to cure
				Arthritis.
Tephrosiapurpurea (L.) pers.	Fabaceae	Stem	Kidney	1) Powder of
(Unhali)		bark	stone.	stem bark &
` '		and		root (8-10
		root		gm) mixed in
				water & given
				twice a day to
				treat kidney –
				stone, till
				cure.
Terminaliaarjuna (Roxb. Ex. Dc.)	Combretaceae	Stem	Wounds	1) Stem bark
			i	i
Wight &Arn.		bark		powder

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				coconut oil, applied on wounds for 8- 10 days.
Terminaliabellirica (Gaertn.) Roxb. (Behada)	Combretaceae	Fruit and bark.	Whirling	1) Extract made from fruits & bark (1:1) given (10-12 ml) in morning for 8-10 days to cure whirling.
Tinosporacordifolia (Willd.) (Gulvel)	Menispermace ae	Leaf	Jaundice	1) Leaf extract mixed with cow milk (1:1), (10-20 ml) taken orally in the morning to check jaundice, advised 8-10 days.
Tribulusterrestris Linn. (Gokharu)	Zygophyllacea e	Fruit	Respiratory diseases	1) Decoction of fruit about 10 ml is administered daily in respiratory diseases.
Tridaxprocumbens L. (Kambarmodi)	Asteraceae	Root and leaf.	Wounds	1) Paste is prepared from the root powder & leaves are applied on wounds till cure.
VernoniacinereaLess. (Sahadevi)	Asteraceae	Whol e plant.	Asthama	1) The decoction of whole plant is given twice daily in asthama.
Vitexnegundo L. (Nirgudi)	Verbinaceae	Leave s	Rheumatis m	1) Leaves warmed &

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				tied on joints to treat rheumatism, advised till cure.
Withaniasomnifera: Dunal (Ashwagandha)	Solanaceae	Root	Bronchitis	1) Decoction of root (10-12 ml) taken twice daily to cure bronchitis.
Xanthium indicum (L.) Koen. (Shankheswar)	Asteraceae	Leaf	Wounds	1) Leaf paste is applied on the wounds twice a day for 5 days.
ZiziphusmauritianaLamk. (Bor)	Rhamnaceae	Seed	Rheumatis m and muscular pain.	1) Seed oil is used for external application of Rheumatism and muscular pain.

Discussion & Conclusion

In all 53 plant species from 36 families having ethno medicinal significance are reported & found curing certain human ailments. Although root, tuber, bark, stem, leaves, fruit, seed, latex and whole plant is used but leaf is the most common part used in the treatment. Majority of the preparations are used internally in the form of infusion or decoction.

The detailed information regarding the therapeutic application of different parts of plant species are obtained & their role in curing various diseases like asthama, wounds swelling, scabies, earache, urination, diabetes, jaundice, malaria, rheumatism,snake bite,cough and cold,diarrhoea,eczema,dysentery,bronchitis,dogbite,menstrual disorder ,ringworm,kidney stone,hepatitis,gonorrhea,sunstroke etc & mode of administration by tribal healers, priests & villagers were compared with available literature in different regions of India on medicinal plants^(5,8) It was found that many of the uses listed are not recorded earlier. Tribal of Yavatmal district have rich heritage of medicinal knowledge. We should preserve this treasure house of their knowledge &experience for better prosperity at the back drop of obvious forces of acculturation prevailing in the area of study.

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