ETHNOBOTANICAL PLANTS USED FOR CURING SKIN DISEASES BY TRIBALS OF REWA DISTRICT (MADHYA PRADESH)

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ABSTRACT

Plant species used in the treatment of skin diseases among the indigenous communities of Rewa district of Madhya Pradesh was conducted between 2007-2009. Twenty three plant species belonging to 17 families were found to be used specifically in the treatment of various skin diseases viz,. dandruff, leprosy, aczema, impetigo, rash, scabies, tinea cruris and tinea versicularis. The tribal communities of Rewa district use plant species invariably for the treatment of all kinds of skin diseases, while two species viz., Ageratum conyzoides and Ipomoea eriocarpa used to treat leprosy. Aegle marmelos and Clitoria ternatea becomes vulnerable, since it is frequently used for the treatment of scabies.

KEYWORDS: Ethnomedicine, Ethnobotany, Skin disease, Rewa, Madhya Pradesh

Plants are of immense value to human health and roughly 80% of world's population relies on them for cure of various ailments. (Chauhan, 1999). The world health organization estimates that about 80% of the population of most developing countries relies on herbal medicines for their primary healthcare needs (De Silva, 1997). Indigenous knowledge on natural resources, utilization of medicinal plants not exceeding the resilience of the surrounding environment is regarded as an important measure of sustainable plants biodiversity conservation. (Kala, 2005). Without proper documentation of such knowledge, the cultural heritage is loosing and also the exploitation, by the patent rights, communities and the countries who invented the material and the process have been facing short fall in this regard.

The age-old tribal knowledge of plants is an important aspect of ethnobotanical research. Tribal people are important for their treasured and unique knowledge of plant. Wealth and for continuous research of new source of herbal drugs and other aspects of plants. The tribal tacts are the store house of information and knowledge on the multiple uses of plants. Presently ethnobotany has become increasingly valuable in the development of healthcare and conservation programs in different parts of the world.

The present investigation has been carried out to explore the medicinal plants of tribal areas of Rewa district, Madhya Pradesh. (Dwivedi, 2003), for the treatment of various types of skin diseases. The study based on collections made during 2007-2009. The district Rewa

inhabited by a large number of tribes such as Gond, Kol, Baiga, Panika, Khairwar, Manjhi, Agaria and Mawasi. Among theses, the Baiga tribe is the dominant in the pursuit of therapeutic use of plants. Extensive study in relation to medicinal flora of the area has not been carried out so for and in particular, there is a paucity of information on medicinal plants traditionally used in skin diseases (Anonymous, 1994; Kapur, 1991.;Samwatsar and Diwanji, 1996; Sharma et al., 2003 and Singh and Prakash, 1996). The study was carried out with an aim to document medicinal plants of Rewa district, used for the treatment of various kinds of skin diseases.

MATERIALS AND METHODS

Several ethnobotanical survey were conducted during the period of 2007-2009 in tribal areas of District Rewa, Madhya Pradesh. The study area lies on the Vindhyan plateau in the Rewa district of Madhya Pradesh. An extensive data sheet was prepared regarding the utility of plants in food and medicine, their application, doses and duration. The distribution was obtained by tribal map of Madhya Pradesh, District tribal welfare office and Block development office regarding their population and location.

The ethnobotanical data were obtained from tribal people, Vaidyas, Ojhas, Village Pradhan and many other experienced informants having knowledge of herbal drugs used by different tribal people. The plants were collected with the help of floristic literature (Oomanchanl and Shrivastava 1996), and their herbarium was prepared as per

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Table 1:Enumeration of ethnobotanical plants of tribal areas of District Rewa used in cure of skin diseases

S.	Botanical	Family	Local	Parts	ribal areas of District Rewa used in cure of skin diseases Mode of application
No.	Name	J	Name	used	
1.	Abrus	Fabaceae	Ghumchi	Seed	Seeds paste is used externally in skin diseases.
	precatorius L.				
2.	Acacia catechu	Mimosaceae	Khair	Bark	Bark paste is applied in skin diseases.
	(L.f.) Willd.				
3.	Acacia nilotica	Mimosaceae	Babool	Leaf	Leaves are orally consumed as such and paste is applied locally to cure
	(L.) Willd. Ex				body swelling.
	Delile				out, one many
4.	Acanthospermu	Asteraceae	Starbur	Leaf	Leaf paste is used in skin diseases.
	m hispidum DC.				•
5.	Acorus calamus	Araceae	Bach/Vaj	Rhizome	Pounded rhizomes along with <i>Curcuma aromatica</i> rhizomes and
	Linn.				Azadiracta indica leaves are applied twice a day, after bathing and
					before bed time for one week against aczema.
6.	Aegle marmelos	Rutaceae	Bel	Fruit	Fruit crushed with seeds of Strychnos nuxvomica, Pongamia pinnata
	(Linn.) Corr.				and boiled with coconut oil is applied on the affected parts to cure
	Serr.				scabies and other similar skin diseases twice a day, till cured.
7.	Ageratum	Asteraceae	Neelam,	Leaf &	Formented leaves and stems are used in leprosy.
	conyzoides L.		Khajju	stem	
8.	Andrographis	Acanthaceae	Kalmega,	Leaf	Leaf juice mixed with cow milk is taken orally twice a day for 6-8 days
	paniculata		Kirayat		to cure tinea cruris.
	(Burm. F.) Wall				
	ex Nees.				
9.	Asparagus	Liliaceae	Satawar	Tuber	Tuber along with the leaves of <i>Plumbago indica</i> made into paste is
	racemosus				applied on skin diseases, once a day till cured.
	Willd.				
10.	Azadirachta	Meliaceae	Neem	Flower &	Flowers boiled in gingili, oil (Sesam Oil) (Sesamum indicum
	indica A. Juss.			leaf	applied on head against dandruff, once a day in the morning after
					taking bath till recovery Leaf decoction is used in skin diseases.
11.	Clitoria	Fabaceae	Gokari,	Leaf	Leaf juice is given orally twice a day for six days to cure scabies.
	ternatea Linn.		Aparajita		
12.	Curcuma longa	Zingiberaceae	Haldi	Rhizorne	Rhizomes and Terminalia chebula seeds made into paste, is applied on
	L.				the affected parts twice a day till the recovery to cure impetigo.
13.	Datura metel	Solanaceae	Kala	Leaf	Leaf juice along with Curcuma aromatica rhizomes made into a paste
	Linn.		Dhatura		is applied against swellings for fast relief till the swelling reduces.
14.	Euphorbia hirta	Euphorbiaceae	Lal dudhi	Latex	Latex is applied against skin parasites twice a day till cured.
	Linn.				
15.	Hygrophila	Acanthaceae	Talmakha	Leaf	Dried leaf powder mixed with castor oil is applied twice a day till the
	auriculata		na		recovery on the affected parts to cure skin diseases.
	(Schum.) Heine.				
16.	Іротоеа	Convolvulaceae	Nakhari	Whole	Plants boiled in oil are used in leprosy.
	eriocarpa R. Br.			Plant	
	r 21.		1		

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17.	Lawsonia	Lythraceae	Mehndi	Leaf	Leaf paste is applied twice a day till it is cured on the affected parts of
	inermis Linn.				impetigo.
18.	Madhuca	Sapotaceae	Mahua	Seed	Pouned Seeds mixed with leaf extracts of Ocimum tenuiflorum are
	longifolia				applied on the affected parts to cure skin diseases, twice a day.
	(Koenig.)				
	Macoride				
19.	Mallotus	Euphorbiaceae	Rohini	Fruit	Red powder obtained from fruits mixed with coconut oil is applied
	Philippensis				externally as an antiseptic in skin diseases.
	(Lam.) Muell.				
	Arg.				
20.	Ocimum	Lamiaceae	Tulsi	Leaf	Leaves pounded with Curcuma aromatica rhizomes are applied on the
	tenuiflorum				affected parts once a day in the night before bed time to cure tinea
	Linn.				versicularis.
21.	Phyla nodiflora	Verbenaceae	Gahdi	Leaf	Leaf juice mixed with equal volume of gingili oil and boiled is applied
	(Linn.) Greene				twice a week on head to remove dandruff.
22.	Putranjva roxburghii Wall.	Euphorbiaceae	Patjhi	Fruit	Dried fruit beaded in a garland is put on the neek to cure skin allergy.
23.	Terminalia	Combretaceae	Bahera	Seed	Paste prepared from seeds pounded with the seeds of Terminalia
	bellerica				chebula and Quercus infectoria are mixed with coconut oil is applied
	(Gaertn.) Roxb.				twice a day against rashes.

standard protocol as decribed by Varghese, (1996); Dwivedi and Pandey, (1992).

The collected plants thus pressed, mounted and properly numbered, were identified with the help of local floras and other useful works in Hooker, (1872-1897); Haines, (1921-1924).

RESULTS AND DISCUSSION

In the present investigation, 23 plant species belonging to 17 families are used as herbal medicine for the treatment of skin diseases. Euphorbiaceae with 3 species, was the dominant family followed by Fabaceae, Asteraceae, Acanthaceae, etc. Abrus precatorius, Acacia catechu, Acanthospermum hispidum, Asparagus racemosus, Hygrophila auriculata, Madhuca longifolia and Mallotus philippensis are used to cure various kinds of skin diseases. Aegle marmelos and Clitoria ternatea species are used to cure scabies. Andrographis paniculata are used for the treatment of tinea cruris and Ocimum tenuiflorum for the treatment of tinea versicularis (Tabel,1)

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