Ethno Botany in Relation to Traditional Herbal Home Remedies for Diabetes in Tribals of Bastar Chhattisgarh

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Abstract

Traditional home remedies and herbal medicine constitute prominent dimensions of local health tradition and unique heritage of district Bastar, Chhattisgarh. In Chhattisgarh, traditional home remedies and herbal medicines are administered both in remote rural areas as well as in urban areas where allopathic medicine is easily available. The health of the people of the state is determined by medical pluralism. Chhattisgarh, the premier herbal state of India upholds unique local health tradition interlinked with a large number of sacred grooves and rich traditional knowledge base of thousands of folk healers, Baidyas, Guniyas and local knowledgeable person in tribal area of Bastar. The Traditional Folk Healers of Bastar, Chhattisgarh have sustained a wide range of folk healing practices since generations together. In recent years, there has been renewed interest in the treatment of different diseases using herbal medicine. Present study is carried out in various localities in district Bastar of Chhattisgarh State. Fifteen antidiabetic plants and plant formulations were documented in this field survey during the year 2006 to 2008. Most of formulation found as Decoction Paste and Juice extract.

Keywords: Diabetes, Traditional herbal remedies, Tribals, Bastar.

Introduction

The traditional and primitive folk healing practices among tribals of Bastar normally involve medicine derived from plants and animals available within local agro climatic zones. Different studies have been conducted by scientists on folk healing practices in different districts of Chhattisgarh. It is evident that folklogic including cultural, biological, historical, religious, and environmental factors that significantly influence the folk therapy. The concepts of illness and healing are not universal. They vary from culture to culture. One third population of Chhattisgarh is tribal. They have their own value system and cultural interpretation of disease and treatment. They have a very different understanding of why people get sick, and how they can be treated. The traditional healers of Bastar have been treating and rendering miraculous cure to thousands of patients annually.

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Ethno Botany in Organization (WHO) has recommended it Botany in An Organization (WHO) has recommended the effectiveness of World Health Organization where we lack safe modern drugs. Due to the modern drugs of the Dependent Diel World Health World where we lack safe modern drugs. Due to the modernization on condition where we lack safe modern drugs. Due to the modernization plants in condition Dependent Diabetes is becoming a major health plants by countries. A number of plants by plants in condition which Dependent Diabetes is becoming a major health problem of life-style, Non-Insulin Dependent Diabetes is becoming a major health problem of life-style, and antihyperglycemic activity. plants tyle, Non-mount Diabetes is becoming a major health problem of life-style, countries. A number of plants have shown varying degree of developing and antihyperglycemic activity. Medicinal plants used in aglycemic and hyperglycemic conditions. of life loping countries. In plants have shown varying degree of developing and antihyperglycemic activity. Medicinal plants used to treat hypoglycemic or hyperglycemic conditions are of considerable interest (hypoglycemic or hyperglycemic conditions are of considerable interest for ethno-hypoglycemic community as they are recognized to contain valuable hypoglycemic of the plant of the plant derivatives with Learned to deal hypoglycemic of the plant. Plant derivatives with Learned to deal to the plant derivatives with Learned to the plant derivative with the plant derivative with Learned to the plant derivative with the hyr rical contains parts of the plant. Plant derivatives with hypoglycemic properties have been used in folk medicine and traditional hards properties have been used in folk medicine and traditional healing systems properties have world from very ancient time. Despite the introduction of properties have world from very ancient time. Despite the introduction of hypoglycaemic around from natural and synthetic sources, diabetes and interest in the synthetic sources. around the work and synthetic sources, diabetes and its secondary agents from natural to be a major medical problem to possible to secondary agents from continue to be a major medical problem to people.

Materials and Methods The present research work entitled Ethno Botany in Relation to Traditional Herbal Home Remedies for Diabetes in Tribals of Bastar, Chhattisgarh has been Herbai I and tribal dominated villages of district Bastar, Chattisgarh. In this conduction of the study in which questionnaire was filled by study involves various steps like field study in which questionnaire was filled by the tribals and personal interview was organized, collection of plant specimen, preparation of herbarium and identification of plants with the help of flora. The study was conducted in the year 2006-2008. The methodology of the present work was adopted from some of the earlier workers like Jain (1987, 1988), Masih (1990) and Jain & Singh (1997). The methods of Ethnobiological studies have been summarized by Roy (1989), was also consulted in the present study. The Ethnobiological information was obtained from Baidyas, Sirhas, Gunias, knowledgeable person, experienced people, medicine men, and heads and local inhabitants of the village, who have knowledge of plants for health and livelihood security.

The extensive field survey has been observed that Bastar district has very Result and Discussion rich flora about the medicinal plants. Details of antidiabetic plants in alphabetical order as per scientific name, followed by family, common name, vernacular name, part used, mode of administration and recommended dosage is listed in Table. During this study, 15 antidiabetic plant species were documented, belonging to 13 families. The drug preparation methods were very old and traditional. Most of the drugs were found to be prepared either by making fine powder in pastel and mortal or paste or decoction or extract from plants were noted to be used directly. Most of the formulations were either decoctions, pastes or extracted juices from crushed or macerated whole plant or plant part(s), depending on the extent administered. The bitter constituents of Andrographis paniculata decreases the blood glucose level due to its antioxidant properties and also increases glucose metabolism (Kavishankar et al., 2011).

Table: List of the Plants Documented for Diabetes during the Study

		Diabete	Diabetes during the Study	study	
S.N.	Botanical Name	Vernacular Name	Family Name	Plant Part Used	Mode of Drug Preparation and Administration
1	Aeglemarmelos(L.) Corre.	Bel	Rutaceae	Unripe fruit	The unripe fruit pulp of the fruit is eaten with one glass of water
2	Anogeissuss latifolia, Wall.	Dhawra	Combre- taceae	Bark	The pest of bark boiled with the water filter it take two spoon in empty stomach
6	Azadirachta indica A. Juss.	Leem	Meliaceae	Fruit	Leaves are boiled with two glasses of water. Oneglass of decoction is taken in the morning on empty stomach
4	Andrographi spaniculata (Burm.f.) Wall.	Bhuileem	Acantha- ceae	Wholeplant	The entire plant is boiled in water. The decoction prepared and one glass is taken on an empty stomach in the morning
5	Annona squamosal (L)	Chhita	Annona- ceae	Leaf	Leaf powder is taken with water daily in empty stomach
9	Cassia tora (L)	Charota	Fabaceae	Root & leaf	Root and leaf boiled with the water half cup taken in morning
^	Costus speciosus, Retz.	Keo-kanda	Costaceae	Herb	Boil the Rhizomes eat directly for diabetes
8	Emblica officinalis Gaertn	Amla	Euphorbia- ceae	Fruit	The powder of the fruit taken with water twice in day
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Ethno Botto	Dried powder of leaves and bark taken with water. Fruits are eaten directly for diabetes	The dried powder or wildle plain taken with one cup of cow milk twice in a day	Cooked seeds are used as rice. It the best food for diabetic patients	Dried powder of equal quantity leaf and bark deep in one glass of water over night early morning filter it and take in empty stomach for one week	The peel of the fruit is removed and dried under the sun. The dry peel is powdered and preserved in a clean glass container. One tea spoon powder is mixed with a glass full of warm water and taken on empty stomach in the morning.
Selle 3 P	Fruit, Leaves, Bark	Whole plant	Seeds	Leaf & Bark	Fruit
lain, is Distric Kurricha d Litt	i Moraceae	Asclepia- daceae	Poaceae	Fabaceae	Punicaceae
Kniveteko Local Braces Masila, S Per Lo	Dumarchhali	Gudmar	Kodochaur	Beeja	Darmi Anar
Aby C.	Ficusglomerata, Linn.	Gymnema sylvestre (Retz).	Paspalam scrobiculatum L.	Pterocarpus marsupium, Roxb.	Punica granatum L.
	Fig	101	11	17	113

[125]

			Marthaga	Sped	1. Chiraijam seeds are dried in
14	14 Syzygiu mcuminii, Linn.	Chiraijaam	ואואוומרכמכ	Bark Fruit	the sun and then crushed and
					made into fine powder.
					1-2 tea spoon of this powder is
	The second state of the contract contract contract to the contract of the cont		A STATE OF THE STATE OF		added to one glass of water.
					2. 4-5 pieces of dried bark is
					boiled in 2 glasses of water and
					reduced to half. One glass
					of decoction is taken daily in
	The state of the s		and the second s	where the party of	empty stomach in the morning.
				:	The state of family directly taken
11	15 Tominglia chohula Retz	Harra	Combre-	Fruit	The powder of it all allectuy tancar
CI	Tel Illiana Cheoraa rece.	The special way (Carrier to the month of the Carrier to the carrie	taceae		with the water for cure of diabetes
				6	

Botany in Relation to Traditional Herbal Home Remedies ... The present research work entitled Ethno Botany in Relation to Traditional The present Remedies for Diabetes in Tribals of Bastar. Change Traditional Conclusion The present resolution of Diabetes in Tribals of Bastar. Chhattisgarh indicates Herbal Home Remedies for Diabetes in Tribals of Bastar. Chhattisgarh indicates Herbal Home Reine deep faith on the traditional home herbal remedies for curing that the tribals have deep faith on the traditional home herbal remedies for curing that the tribais have the plants belongs to 13 family viz., Rutaceae, one plant, the health ailment plants, Meliaceae, one, Acanthaceae, one the health annual plants, Meliaceae, one, Acanthaceae, one, Annonaceae, one, Combretaceae, two, Euphorbiaceae, one, Moraceae, one, Annonaceae, one, Combretaceae, one, Fabaceae, two, Euphorbiaceae, one, Moraceae, one, Annonaceae, one, Combretaceae, one, Fabaceae, two, Euphorbiaceae, one, Moraceae, one, Annonaceae, one, Combretaceae, one, Fabaceae, two, Euphorbiaceae, one, Moraceae, one, Annonaceae, one, Combretaceae, one, Fabaceae, two, Euphorbiaceae, one, Moraceae, one, Annonaceae, one, Combretaceae, one, Fabaceae, two, Euphorbiaceae, one, Moraceae, one, Annonaceae, one, Combretaceae, One, Combr Combretaceae, one, Fabaceae, two, Euphorbiaceae, one, Moraceae, one, Asclepiadaceae, Costaceae, one, Punicaceae, one and Myrtaceae, one plant in the Costaceae, one, Punicaceae, one and Myrtaceae, one plant in the study.

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