REGULAR ARTICLE

UNIQUE ETHNOMEDICINAL USES OF SOME PLANT SPECIES OF ANDHRA PRADESH, INDIA

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SUMMARY

Mankind has blessed with variety of natural products which help us in day to day life. These extraordinary substances help us to treat different ailments of human beings and other pet animals. In the recent years ethnopharmaocology played a vital role in the undeveloped and developing countries of the Globe. Mono and multi ingredient herbal and non-herbal remedies as smoke practiced in different geographical regions of our globe. Present paper deals with some medicinal plants of Andhra Pradesh to treat different diseased with help of smoke therapy. Total 48 plant species of mono ingredient remedies, 16 plant species of multi ingredient remedies and 4 Non medicinal smokes with health benefits belonging to 30 families from Andhra Pradesh. Medicinal indications for smoke are respiratory tract, gynecological, narcotic, toothache, cough relief, chicken pox, skin diseases and neurological. The methods for administrating smoke are inhalation, smoke directed at a specific part of the body. The benefit of the smoke therapy is quick absorption and rapid relief.

Key words: Unique ethnomedicinal plants, smoke, applications, Andhra Pradesh

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1. Introduction

From ancient times, plants have been used for curing several ailments of mankind and pet animals. Even today advancement of allopathic medicine, still tribal people and rural population are dependent on the herbs and plants of medicinal interest. Reports of Akerele,(1), Anonymous,(2), revealed that more than 80% of the world population rely on herbal and traditional medicine. It was estimated that plant species of 2, 500 have been utilized for medicinal purposes and more than 6000 plants are widely used in folk and herbal Huxley(3). medicine, Ethno expeditions are necessary for the progress of the tribal welfare. Traditional knowledge forms the basis for innovations of novel drugs for the benefit of the humanity. In the present study information was gathered from the tribal pockets of Andhra Pradesh regarding the applications of smoke from various plant species as medicinal remedy.

2. Material and Methods

Ethno botanical survey was conducted in selected tribal pockets of Andhra Pradesh, 180 06' 822''- 820 49' Uppa Rajavommangi 170 93' 483" - 820 13' 502", 170 26′ 714′′- 810 13′ 624′′, Ramavaram Sapparla 17⁰ 55′ 085′′- 82⁰ 10′ Boddaveru 170 57′ 261′′ - 820 43′ 612′′, Komarada 180 57′ 771′′- 830 29′ Rampachodavaram 170 41′ 464′′ - 810 34′ 761′′ G.K Veedi 17⁰ 45′ 717′′- 81⁰ 59′ Palakonda 170 47 410′′-810 32′ 325" Kappakonda 170 19' 572'' - 820 29' 294", Thimmapuram 17° 31′ 563″- 82° 39′ 245″, Lankapalli 17 °17′ 610′′- 81° 11′ 350′′, Siragada valasa 18º 28' 532"- 83º 13' 048", Madugula 170 55' 280"- 810 15' 420", kinchumanda 180 14' 563"- 820 47' 881", Kangaputte 180 10' 988" - 82º 51' 478", Chittapuram 18º 52' 638" -78° 39′ 966″, Sulanagar 17° 33′ 804″- 80° 31′ 540", Moraigudem 17º 47' 182" - 81º 01' 371". The first field trip of the study area was devoted to acquaintance with the local chiefs, priests, vaidyas, herbal doctors, headman's, elderly people and educated students. In the subsequent field trips, collected the information on ethno botanical practices by the aboriginal and other. Six types of informants were chosen by random sampling methods those are

- 1. The Vaidhyas and other medicine men.
- 2. Village headman, priest and other prominent persons, their wives and other women.
- 3. The interpreters.
- 4. Men and women working in the field, preferably of fifty or more years of age.
- 5. Men and women in weekly shandies and other common places with fifty or more years.
- 6. Tribals, those who are cutting roots, tubers, herbs, etc. in the forest.

Each medicinal practice was cross cheeked with at least 3 to 4 informants. Discussions were made at the times of interaction with local chiefs, priests and herbal doctors for gathering information and confirming the uses of same plant recorded from different informants at different places. Ethnomedicinal data and the vernacular names have been collected records. Ethnobotanical for enumeration of the study regions was followed by the works of Jain-(4-5) Martin, (6) and Cotton (7). Each plant was critically studied and identified with the help of Gamble's "Flora of the Presidency of Madras" Gamble,(8) using the field observations. The identifications were later confirmed with the help of Flora of Andhra Pradesh (Pullaiah and Chennaiah, (9), Pullaiah and Ali Moulali, (10-11).

3. Results and Discussion

In the present study data collected from different tribal pockets of Andhra Pradesh on inhalation of smoke, direct application of smoke on the specific organ and ambient smoke was discussed. Table I to III are self explanatory of the present investigation. Table I reveals the data about mono ingradient herbal remedies used as medicinal smoke, total 48 plant species belongs to 43 genera and 30 families used as mono ingradient herbal remedies. Different parts of the plants such as root, stem, leaf, bulb, tubers, fruit, seed, wood and whole plant were used as smoke remedy. Table -I shows the application of plants species and remedy for various ailments of the human beings.Table-II shows multi ingradient remedies used as smoke form for treating various chronic and acute diseases. Data gathered on 20 plant species which are belongs to 15 genera and 13 species. These genera grouped into 4 categories for treating the chronic diseases. Table-III showed the uses of different plant species on non medicinal smokes with other benefits.

There are different types of application of medicinal smoke as remedy for treating diseases. The major three methods recorded from this investigation were namely, smoke inhalation, smoke directed at a specific part of the body and ambient smoke.

1. Smoke inhalation:

Today most of the tribal people and people in the remote rural population smoke cigars prepared from the leaves of *Datura stramonium* for treating the asthma and other respiratory tract problems. The major categories of conditions or uses for this method are pulmonary, neurological, tooth ache and gastrointestinal.

2. Smoke directed at a specific part of the body:

In this method, for producing smoke, natural materials are put on a hot plate, spread over embers or placed directly in to the fire. The resulting smoke is directed at the largest organ.

3. Ambient smoke:

Passive smoking refers to filling ambient air with smoke by generating it within confirmed spaces so as to purify the air and to make the environment cleans.

Table 1. Mono ingredient herbal remedies used as medicinal smoke.

S. No	Scientific Name	Family	Common Name	Part	Prepa-	Medicinal uses
1	Barleria prionites	Acanthaceae	Mullagorinta	used A	ration SI	Chicken pox remedy
2	Acorus calamus L.	Araceae	Vasa	R	SI	Relief cold, analgesic,
_	Ticorus cumius E.	Tiraceae	v asa	IX .	51	toothache remedy
3	Adiantum	Adiantaceae		W	SI	Febrifuge
4	Allium cepa L.	Liliaceae	Neerulli	В	SD	Respiratory tract
						diseases
5	Allium sativum L.	Liliaceae	Vellulli	В	SD	Analgesic, respiratory tract diseases
6	Amaranthus spinosus L.	Amaranthaceae	Mullathota kura	W	SI	Mood disorders
7	Mangifera indica L.	Anacardiaceae	Mamidi	L	SD	General skin diseases
8	Semecarpus anacardium L.	Anacardiaceae	Jeedimamidi	Fr	SD	Haemorrhoids
9	Annona squamosa L.	Annonaceae	Seethaphalam	Fr	SI	Anticonvulsive
10	Carum capticum L.	Apiaceae	Vamu	Fr	SD,SI	General gynecological disorders
11	Coriandrum sativum L	Apiaceae	Daniyalu	Fr	SI	Toothache remedy
12	Ferula asafoetida	Apiaceae	Inguva	W	SI	Expectorant
13	Cocos nucifera L	Arecaceae	Kobbari	Fr	SD	Abortifacient
14	Phoenix dactylifera L	Arecaceae	Kharjuram	Fr	SD	General skin disease
15	Aristolochia indica L	Aristolochiaceae	Eswari	St	SI	Relief cough, respiratory tract disease
16	Calotropis procera (Ait) Ait.f.	Asclepiadaceae	Jilledu	L	SI	Respiratory tract disease
17	Bidens pilosa L	Asteraceae	Roddamokka	L, Fl, R	SI	General gynecological disorders
18	Tagetes erecta L	Asteraceae	Banthi	L	SI	Snakebite remedy
19	Cannabis sativa L	Cannabaceae	Ganjay	L, Fl	SI	Narcotic, analgesic, mood disorder
20	Carica papaya L	Capparaceae	Boppay	L	SI	Respiratory tract diseases
21	Cuscuta reflexa Roxb	Convolvulaceae	Bangaruteega	W	SI	Febrifuge
22	Evolvulus alsinoides L	Convolvulaceae	Vishnukranthi	L	SI	Respiratory tract diseases
23	Cyperus rotundus L	Cyperaceae	Tunga	Т	SD	Analgesic
24	Euphorbia hirta L	Euphorbiaceae	Reddivarinanub ralu	L	SI	Respiratory tract diseases
25	Ricinus communis L.	Euphorbiaceae	Amudamu	Fr	SI	Toothache remedy
26	Dichrostachys cinerea (L.) Wight& Arn.	Caesalpiniaceae	Veluthuru- chettu	R,L	SI	Relief cough, respiratory tract disease
27	Entada pursaetha L	Mimosaceae	Gillakaya	Fr, Sd	SI	Analgesic
28	Mimosa pudica L.	Mimosaceae	Athipatti	L	SI	Toothache remedy
29	Mucuna pruriens Bak	Fabaceae	Pedda- duradagandi	Fr	SI	Relief cough
30	Ocimum americanum L	Lamiaceae	Kukka tulasi	L	SI	Nose medicine
31	Bauhinia purpurea L	Fabaceae	Devakan- chanamu	L	SI	Respiratory tract diseases
32	Pavonia zeylanica L	Malvaceae		W	SD	Dressing wounds
33	Eucalyptus globulus Labill.	Myrtaceae	Neelagiri	L	SI	Expectorant, relief cold
34	Triticum aestivum L	Poaceae	Goduma	Fr	SD	Analgesic
35	Zea mays L.	Poaceae	Mokkajonna	Styl-	SI	Throat aid

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36	Ziziphus mauritiana Lam	Rhamnaceae	Regu	Wo	SD	Treating the scalp
37	Santalum album L.	Santalaceae	Chandanam	Wo	AS	Air purifier
38	Scoparia dulcis	Scrophulariaceae		L	SI	Respiratory tract diseases
39	Datura metal L.	Solanaceae	Ummetta	Fr, L	SI	Respiratory tract diseases, toothache remedy
40	Datura stramonium L	Solanaceae	Nalla ummetta	L	SI	Respiratory tract diseases, toothache remedy, analgesic, narcotic.
41	Hyoscyamus niger L.	Solanaceae	Kurasani	Fr, L	SI	Respiratory tract diseases, toothache remedy.
42	Nicotiana tabacum L.	Solanaceae	Pogaku	L	SD, SI	General gynecological disorders
43	Solanum incanum L	Solanaceae	Mulla vanga	F, Fr	SD	Treatment of the eye
44	Solanum melangena L	Solanaceae	Vankaya	Fr	SD	Haemorrhoids remedy
45	Solanum nigrum L	Solanaceae	Kamanchi	W	SI	Toochache remedy
46	Solanum surattense Burm.	Solanaceae	Mulla vangakaya	Fr	SI	Toothache remedy, general skin diseases.
47	Vitex nigundo L.	Verbenaceae	Vavila	St	SI	Relief cold, analgesic.
48	Cissus quadrangularis L.	Vitaceae	Nalleru	W	SI	General gastro- intestinal disorders

A= Ariel part, B= Bulb, Fl= Flower, Fr= Fruit, L =Leaves, R= Root, T= tuber, Sd= Seed, St= Stem, W= Whole, Wo= Wood. AS=Ambient smoke, SI= Smoke inhalation, SD= Smoke directed a specific organ or body part.

Table 2. Multi ingredients herbal remedies used as the smoke form.

S.	Scientific Name	Family	Common Name	Medicinal uses
No				
1	Alpinia galangal (L.) Willd.	Zingiberaceae	Dumparastram	
	Azadirachta indica A.Juss	Miliaceae	Vepa	
	Citrulus colicynthis (L.) Schrad	Cucurbitaceae	Pucha	
	Cocos nucifera L.	Araceae	Kobbari	Tuberculosis, smallpox,
	Ficus religiosa L.	Moraceae	Ravichettu	measles, skin disease,
	Hordeum vulgare L.	Poaceae	Jonna	rheumatism, cardiac
	Oryza sativa L	Poaceae	Vari	ailments and antifungal.
	Santalum album L	Santalaceae	Chandanam	
	Sesamum indicum L.	Pedaliaceae	Nuvvulu	
	Withania somnifera (L) Dunal.	Solanaceae	Aswagandha	
2	Cannabis sativa L.	Cannabaceae	Ganjayi	
	Datura stramonium L.	Solanaceae	Ummetha	Abortion
	Withania somnifera (L.) Dunal	Solanaceae	Aswagandha	
3	Allium cepa L	Liliaceae	Neerulli	Skin diseases
	Allium sativum L.	Liliaceae	Vellulli	
	Sesamum indicum L.	Pedaliaceae	Nuvvulu	
4	Allium sativum L	Liliaceae	Vellull	
	Cajanus scarabaeoides (L.) du-Petit-		Kondakandi	Piles
	Thours	Fabaceae		
	Catunaregam spinosas	Rubiaceae		
	(Thunb.)Tirveng			

Table 3. Non medicinal smokes with other benefits.

S.No	Scientific Name	Family	Common Name	Part	Medicinal uses
				used	
1	Aerva lanata (L) Schult.	Amaranthaceae	Pindikura	W	Smoke in social settings
2	Leonotis nepatifolia (L.)	Lamiaceae	Ranaberi	L	Smoke in social settings
	Ait.f.				_
3	Eucalyptus glabulus Labill	Myrtaceae	Neelagiri chettu	L	Repellent
4	Dodonae viscosa (L.) Jaq.	Sapindaceae		R	Smoke in social settings

L= Leaves, R=Root, W= Whole.

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