provided by Update Publishing (E-Journals

Journal of Phytology 2011, 3(9): 10-19 ISSN: 2075-6240 www.scholarjournals.org



www.journal-phytology.com

The Use of Traditional Plant Remedies in Hoshiarpur District of Punjab, India

M.C. Sidhu*, Kuljinder Kaur and A. S. Ahluwalia

Department of Botany, Panjab University, Chandigarh-160014, India

Article Info

Article History

 Received
 :
 19-05-2011

 Revisea
 :
 03-08-2011

 Accepted
 :
 07-08-2011

*Corresponding Author

Tel : 91-172-2534012 Fax : 91-172-2779510

Email:

mcsidhu@hotmail.com

©ScholarJournals, SSR

Summary

The present investigation was carried out in Hoshiarpur district of Punjab to understand the use of medicinal plant species for various curative purposes. The study was undertaken through semi structured questionnaire. About 110 plant species belonging to 97 genera and 51 families were documented. Altogether 40 types of ailments have been taken care of by using these plant species. Leaves were the most useful part as compared to other plant parts for the treatment of various ailments. This is followed by fruits and seeds. Most of the remedies were prepared as mixtures of plants/plant parts to cure diseases like diarrhoea, cough & cold, vomiting etc. Informants were randomly selected irrespective of their sex between the ages of 30-95years. During investigation, it has been observed that the trend of traditional plant remedies is declining gradually.

Key Words: Ailments, Hoshiarpur, Medicinal plants, Punjab, Traditional remedies

Introduction

Plants have played a great role in the growth and development of human race. First and the most important necessity for human life is the oxygen which is provided by the plants. Besides this, for day to day life, plants have offered food, fodder, fuel wood, timber, dyes, latex, gums, fibres, shelter, fruits etc. Additionally there are many plant species which have continuously been used by the natives for traditional medicines. In spite of ease of the modern medical facilities, people in the developing countries still prefer to use these remedial measures at first. The information gathered from the users is of upmost importance and can be utilised for the development of new drugs. This database will also provide opportunities for further scientific studies [2]. Traditional medicines are the basic and alternative remedies to treat various human as well as animal ailments. The knowledge about the medicinal significance of plant species have passed from one generation to the next through oral communication [8]. These were chiefly used by the old people. These medicines are popular because people think that these are easily available, cheaper and have no side effects [7].

Recently, a decline in the use of traditional plant remedies has been observed. The availability of medical facilities at the door step and upcoming of multispeciality hospitals in every part are the main cause for this decline. Moreover, people don't have much time to collect these species from the fields and then prepare the medicines. The number of plant species in their natural habitat is also decreasing. With technological advancement, new generations have little interest in these practices. Hence it appears that this knowledge is under severe threat and will vanish completely if not conserved [10]. The survey of traditional herbal medicines of the coastal diversity in Tuticorin district, Tamil Nadu, India suggested 41

plant species of medicinal interest. They were of the opinion that loss of coastal vegetation directly influenced (reduced) the indigenous knowledge [6]. So there is an urgent need to protect the coastal vegetation and to restore the indigenous knowledge. The medicinally important plants from the landslide prone areas of East Sikkim, India have been documented. The landslide eruptions are said to be the major cause for the vulnerability of medicinal plants [5]. About 48 species of ethno medicinal importance have been recorded from Buldhana District of Maharashtra (India). This indigenous knowledge will be helpful in the designing of new drugs for the welfare of human being. Detailed investigations are required to check the effectiveness and toxicity of these medicines [1]. Correct identification of the species is very important and challenging. Utilisation of wrongly identified plant species may cause harm. Now a days there are only few takers of these traditional medicines, thereby number of traditional healers has reduced to minimum. Keeping this in view, the present study was carried out to document the traditional medicinal plant knowledge from the area under investigation.

Materials and Methods

District Hoshiarpur is sub-mountainous. The surrounding districts are Jalandhar, Kapurthala, Gurdaspur in Punjab and Kangra and Una of Himachal Pradesh. The district is spread in an area of 3,365 km² with a population of 14, 78, 045 persons as per 2001 census. Around 80% of the population lives in the rural areas of the district. Ten villages were selected randomly for documentation of the traditional medicinal plants. Ten people were selected from each village irrespective of their age and sex. In this way, total of 100 persons were contacted for present study. The information was collected using a semi-

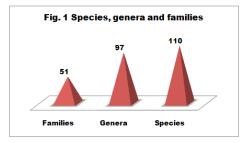
structured questionnaire. Data was collected for the name of plant species used for treatment, parts used, disease cured, local name, mode of preparation of particular medicines, mode of administration, plant habit etc. The interviews were preferably conducted in local language for the convenience of the respondents. Field visits were conducted along with the local residents to document the availability of the plant species in that area. The plants were photographed in their natural habitat. Enlisted plant species were then categorized into their respective genera and families to understand the diversity of flora. The data was analyzed for number of species that can be used for the treatment of a particular disease and to check the number of diseases that can be cured by using a single species.

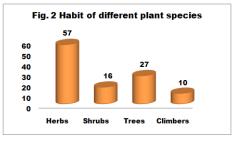
Results and Discussion

During present investigation, a survey was conducted in the district Hoshiarpur to study the use of traditional plant remedies by the natives. Information was collected from 100 respondents comprising 48 men and 52 women. Forty nine informants were under 50 years of age, 47 were 51-75 years old and only 4 persons were above 75 years (Table 1). They all were having different qualifications and some of them were uneducated. Profession wise they were farmers, employed, retiree, etc. It has been observed that traditional knowledge is related to the age and sex of an individual. Generally old age people have much in their mind for traditional medicinal plants which may be due to their personal experience and interaction with the plants but male members above 50 year of age know more about the traditional plant medicines than other age groups and sex. This may be because of their active involvement in trade related activities especially agriculture. A survey conducted in Tamil Nadu suggested that old age people have more traditional knowledge about medicinal plants as compared to young people [4]. This corroborated our results. However, a study conducted in Nuoru, Italy shows that women prove to be the main upholder of traditional knowledge [10]. This is not corresponding to our findings and may be due to cultural variations of the two places.

The present investigation resulted in the documentation of 110 medicinal plant species belonging to 97 genera & 51 families (Fig.1). Majority of the species are herbs 57 followed by trees 27, shrubs 16 and climbers 10 (Fig.2). Members of the family Fabaceae (9 sp.) are dominating as traditional remedies followed by Solanaceae (6 sp.), Apiaceae, Euphorbiaceae, Poaceae and Rutaceae (5 species each, Table 2). These species are being used in the treatment of about 40 ailments. Maximum numbers of species (30) are being used for the treatment of gastrointestinal disorders such as indigestion,

diarrhea, constipation etc. This is followed by skin problems for which 22 species are available. Eighteen (18) plant species can be used as anti-diabetic. At least 15 plant species are there to cure cough and cold (Table-3). Each plant or its individual parts have their own significance in traditional remedies. The most commonly used plant part is leaf, 42 species followed by fruits 27 species, seeds 25 species etc. (Fig.3). Similar study was conducted in Kapurthala District of Punjab in which 60 plant species were reported to cure 30 ailments [9]. It shows that the natives of the present study areas are using more plant species. The availability of plant species may be one of the reasons for this difference in use of traditional plant remedies. Recently a similar survey was conducted in South Western Himachal Pradesh, India and a total of 98 plant species were recorded to be of multiple use. Around 70% of these species were listed to be of medicinal importance [3].





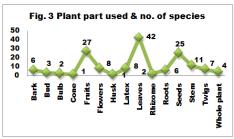


Table 1. Demographic data of the interviewed persons

AGE		
<50yrs	49	
51-75	47	
>75	04	
SEX		
Men	48	
Women	52	
EDUCATION		
Above matriculation	14	
Matriculation	23	

Under matriculation	37	
Uneducated	26	
OCCUPATION		
Employed	09	
Farmers	27	
Housewives	45	
Retiree	07	
Others	12	

Table 2. Family wise distribution of plant species

Sr. No.	Family	No. of Species	Sr. No.	Family	No. of Species
1	Acanthaceae	1	27	Malvaceae	3
2	Amaranthaceae	2	28	Meliaceae	2
3	Anacardiaceae	1	29	Menispermaceae	2
4	Apiaceae	5	30	Moraceae	2
5	Apocynaceae	1	31	Moringaceae	1
6	Asclepidaceae	1	32	Musaceae	1
7	Asteraceae	1	33	Myrtaceae	4
8	Boraginaceae	2	34	Nyctaginaceae	1
9	Brassicaceae	4	35	Oxalidaceae	1
10	Cactaceae	1	36	Papaveraceae	3
11	Caesalpiniaceae	1	37	Pinaceae	1
12	Cannabinaceae	1	38	Piperaceae	1
13	Capparidaceae	1	39	Plantaginaceae	1
14	Caricaceae	1	40	Poaceae	5
15	Chenopodiaceae	2	41	Punicaceae	1
16	Combretaceae	3	42	Rhamnaceae	1
17	Convolvulaceae	2	43	Rosaceae	2
18	Crassulaceae	1	44	Rutaceae	5
19	Cucurbitaceae	4	45	Sapindaceae	1
20	Euphorbiaceae	5	46	Solanaceae	6
21	Fabaceae	9	47	Theaceae	1
22	Lamiaceae	3	48	Verbenaceae	1
23	Lauraceae	1	49	Violaceae	1
24	Liliaceae	4	50	Zingiberaceae	3
25	Linaceae	1	51	Zygophylaceae	1
26	Lythraceae	1			

Table 3. Number of species used against a prticular disease.

Sr. No.	Disease(s)	No. of	Sr. No.	Disease(s)	No. of
		Species			Species
1	Allergies	10	21	Fever	11
2	Anaemia	5	22	Gastric problems	15
3	Anthelmintic	3	23	Gynaecological problems	6
4	Asthma	4	24	Hair problems	6
5	Back ache	7	25	Headache	5
6	Body ache	6	26	Heart problems	5
7	Burn	5	27	Internal injury	3
8	Chicken pox	2	28	Jaundice	11
9	Cholera	1	29	Joint pain	13
10	Constipation	9	30	Kidney stone	5
11	Cough/Cold	15	31	Malaria	1
12	Dental problems	11	32	Mouth ulcer	4
13	Diabetes	18	33	Piles	9
14	Diarrhoea	12	34	Polio	1
15	Dog bite	2	35	Skin problems	16
16	Dysentery	3	36	Snake/ Scorpion bite	6
17	Ear problems	6	37	Stomach ulcer	1
18	Epilepsy	1	38	Tuberculosis	1
19	Eye problems	9	39	Typhoid	7
20	Feet swelling	4	40	Urinary problems	1

Table 4. Plants species used in traditional medicines.

Abelmoschus esculentus L Family: Malvaceae Local name: Bhindi Part used: Fruits & seeds.

Habit: Herb

Uses: Body-ache, dental problems, joint pain

Acacia catechu Willd. Family: Fabaceae Local name: Katha

Part used: Bark, leaves & twigs.

Habit: Tree

Uses: Bone fracture, diabetes, skin problems

Acacia nilotica L. Family: Fabaceae Local name: Kikar

Part used: Bark, pod & twigs.

Habit: Tree

Uses: Dental problems & diabetes

Achyranthes aspera L. Family: Amaranthaceae Local name: Puth kanda

Part used: Leaves, roots, seeds & stem.

Habit: Herb

Uses: Animal indigestion, cough, backache, gynaecological problems, jaundice & piles.

Adathoda vesica Nees. Family: Acanthaceae Local name: Kali basuti

Part used: Flowers, leaves & whole plant.

Habit: Shrub

Uses: Cold, cough, fever & wound.

Aegle marmelos Correa Family: Rutaceae Local name: Bel

Part used: Fruits & leaves.

Habit: Tree

Uses: Coolant, diarrhoea, dysentery & indigestion.

Arachis hypogaea L. Family: Fabaceae Local name: Mungfali Part used: Seeds Habit: Herb

Uses: Diabetes.

Arnebia nobilis Reichb.f. Family: Boraginaceae Local name: Ratanjot Part used: Roots Habit: Herb

Uses: Burn & ear problems. Argemone mexicana L. Family: Papaveraceae Local name: Satvanashi

Asphodelus tenuifolius Cav.

Part used: Flower Habit: Herb

Uses: Cattle fever.

Family: Liliaceae Local name: Piazzi Part used: Leaves

Albizia lebbeck Benth. Family: Fabaceae Local name: Sirin Part used: Bark & leaves.

Habit: Tree

Uses: Diabetes & foot rotting in cattle's.

Allium cepa L. Family: Liliaceae Local name: Pyaz Part used: Bulb Habit: Herb

Uses: Carminative, cholera, diarrhoea, snake bite,

stomach-ache & wasp cut.

Allium sativum L. Family: Liliaceae Local name: Lahsun Part used: Bulb Habit: Herb

Uses: Backache, diabetes, ear problems, heart

problems, joint pain, skin problems.

Aloe vera Mill. Family: Liliaceae Local name: Kuwar Part used: Latex & leaves.

Habit: Herb

Uses: Backache, blood purifier, hair problems,

jaundice, joint pain & skin problems.

Amaranthus viridis L. Family: Amaranthaceae Local name: Chulai Part used: Leaves & Stem.

Habit: Herb Uses: Cold & cough.

Anethum graveolens L. Family: Apiaceae Local name: Sowa Part used: Seeds Habit: Herb

Uses: Animal indigestion

Brassica rapa L. Family: Brassicaceae Local name: Shalgam/Gonglu Part used: Roots

Habit: Herb

Uses: Blood pressure & feet swelling.

Bryophyllum pinnatum Kuntz. Family: Crassulaceae Local name: Pathar chatt Part used: Leaves Habit: Herb

Uses: Blisters & wounds.

Butea monosperma Lam. Family: Fabaceae Local name: Plaash Part used: Flowers Habit: Tree

Uses: Backache & urinary tract problems.

Calotropis gigantea L. Family: Asclepiadaceae Local name: Akk

Part used: Buds, flowers, fruits, latex & leaves.

Habit: Herb

Uses: Skin problems.

Habit: Shrub

Uses: Blood infections in cattle's, dental problem,

jaundice & skin problems.

Cannabis sativa L.

Capsicum annum L. Family: Solanaceae

Local name: Lalmirch

Part used: Fruit Habit: Herb

Azadirachta indica A. Juss. Family: Meliaceae Local name: Neem Part used: Leaves, Twigs

Habit: Tree

Uses: Dental problems, diabetes & skin problems.

Family: Cannabinaceae Local name: Bhaang Part used: Buds & leaves.

Habit: Herb

Uses: Diarrhoea in cattle's, skin problem & wasp sting.

Bambusa arundinacea Willd.

Family: Poaceae Local name: Baans Part used: Leaves Habit: Herb

Uses: Animal cough.

Brassica campestris L. Family: Brassicaceae Local name: Sarson Part used: Seeds Habit: Herb

Uses: Allergy, burn, ear ache, fracture & sprain.

Carica papaya L. Family: Caricaceae Local name: Papeeta Part used: Fruits

Uses: Anti-anaemic, diabetes, heart problems &

iaundice.

Habit: Shrub

Cassia fistula L. Family: Caesalpiniaceae Local name: Amaltas Part used: Leaves & twigs

Habit: Tree

Uses: Constipation in cattle. Chenopodium album L.

Family: Chenopodiaceae Local name: Bathu Part used: Leaves & stem.

Habit: Herb

Uses: Cold, general weakness & purgative.

Cicer arietinum L. Family: Fabaceae Local name: Chanaa Part used: Seeds Habit: Herb

Uses: Jaundice & skin diseases.

Cinnamomum camphora L. Family: Lauraceae Local name: Kapur Part used: Bark Habit: Tree

Uses: Disinfectant in domestic animals, hair problem, skin

diseases & wounds.

Citrus aurautifolia Christm.

Family: Rutaceae Local name: Nimbu Part used: Fruits

Habit: Shrub

Uses: Hair problems, skin diseases & vomiting.

Habit: Herb

Crateva religiosa Hook. f & Thoms.

Citrus reticulata Blanco. Family: Rutaceae Local name: Santara Part used: Fruits Habit: Shrub

Uses: Carminative, coolant & Jaundice.

Family: Capparidaceae Local name: Barna Part used: Bark

Habit: Tree

Uses: Kidney stone.

Citrus sinensis L. Family: Rutaceae Local name: Mausami

Uses: Dog bites & ear problems.

Part used: Fruits Habit: Shrub

Uses: Coolant & jaundice.

Coccinea grandis Cogn. Family: Cucurbitaceae Local name: Kanduri Part used: Fruits Habit: Climber Uses: Diabetes.

Cocculus hirsutus L. Family: Menispermaceae Local name: Katori Part used: Leaves Habit: Climber Uses: Diabetes

Cordia myxa Roxb. Family: Boraginaceae Local name: Lasura Part used: Latex Habit: Tree Uses: Skin diseases.

Coriandrum sativum L. Family: Apiaceae Local name: Dhania Part used: Leaves & seeds

Uses: Coolant, indigestion & piles.

Croton oblongifolius Roxb. Family: Euphorbiaceae Local name: Jamalghota Part used: Latex

Habit: Herb Uses: Leucoderma & pimples.

Cucumis sativus L. Family: Cucurbitaceae Local name: Kheera Part used: Fruits Habit: Climber

Uses: Coolant, diabetes, eye problems, piles & skin

problems.

Cucurbita pepo L. Family: Cucurbitaceae Local name: Loki Part used: Fruits Habit: Climber

Uses: Blood pressure, constipation, coolant, diabetes,

jaundice & reduces weight.

Curcuma longa L. Family: Zingiberaceae Local name: Haldi Part used: Rhizomes Habit: Herb

Uses: Blood purifier, body-ache, internal injury & skin

problems.

Cuscuta reflexa Roxb. Family: Convolvulaceae Local name: Amarbel Part used: Whole plant

Habit: Parasitic climber

Uses: Internal injury, joint pain, polio, swellings & typhoid.

Cynodon dactylon (L.) Pers.

Family: Poaceae Local name: Khabal ghaas Part used: Leaves & stem. Habit: Creeper

Uses: Diarrhoea, heart problems.

Eucalyptus globulus Labill. Family: Myrtaceae Local name: Safeda Part used: Leaves Habit: Tree Uses: Cold & Cough.

Euginia caryophyllata Wight. Family: Myrtaceae Local name: Long Part used: Bud Habit: Tree

Uses: Cold, cough, dental problem, oil used for body

massage & stomach-ache.

Euphorbia hirta L. Family: Euphorbiaceae Local name: Dudhkhar Part used: Latex & whole plant.

Habit: Herb

Uses: Piles & skin diseases.

Dalbergia sissoo Roxb.

Family: Fabaceae Local name: Tahli

Part used: Leaves, pod & twigs.

Habit: Tree

Uses: Dental problem, ear-ache, leucorrhoea &

swellings.

Datura stramonium L. Family: Solanaceae Local name: Dhatura Part used: Leaves & seeds

Habit: Shrub

Uses: Asthma, cough, flatulence in cattle & wound.

Daucas carota L. Family: Apiaceae Local name: Gajar Part used: Roots & seeds

Habit: Herb

Uses: Anti-anaemic, eye tonic, heart problems, indigestion & menstruation problems.

Eclipta alba Hassk. Family: Asteraceae Local name: Bring raj Part used: Whole plant

Habit: Herb

Uses: Remove hair dandruff & lice.

Elettaria cardamomum (L.) Maton

Family: Zingiberaceae Local name: Elaichi Part used: Fruits Habit: Herb

Uses: Cold, cough, diarrhoea, fever, headache &

stomach-ache.

Emblica officinalis Gaertn. Family: Euphorbiaceae Local name: Amla Part used: Fruits Habit: Tree

Uses: Cough, hair tonic, indigestion, typhoid.

Foeniculum vulgare Mill. Family: Apiaceae Local name: Saunf Part used: Seeds Habit: Herb

Uses: Carminative, cold, constipation, cough, diarrhoea, fever, indigestion & vomiting.

Fumaria indica (Hausskn.) Pugsley

Family: Papaveraceae Local name: Pitpapra Part used: Whole plant

Habit: Herb

Uses: Allergy & itching.

Glycyrrhiza glabra L. Family: Fabaceae Local name: Mulathi Part used: Roots Habit: Tree

Uses: Cough & throat pain.

Euphorbia royleana Boiss. Family: Euphorbiaceae Local name: Thor Part used: Latex & stem. Habit: Herb

Uses: Asthma.

Ficus bengalensis L.
Family: Moraceae
Local name: Bohar
Part used: Latex
Habit: Tree

Uses: Stomach ulcers & wounds.

Ficus religiosa L. Family: Moraceae Local name: Peepal

Part used: Fruits, latex, leaves, roots & twigs.

Habit: Tree

Uses: Asthma, heart problems, menstruation irregularities,

tuberculosis, typhoid.

Lawsonia inermis L.
Family: Lythraceae
Local name: Mehendi
Part used: Leaves
Habit: Shrub
Uses: Burns & coolant.

Lepidium sativum L.
Family: Brassicaceae
Local name: Holon
Part used: Leaves & stems.

Habit: Herb

Uses: Backache controls uric acid, diabetes & joint pain.

Linum usitatissimum L. Family: Linaceae Local name: Alsi Part used: Seeds Habit: Herb

Uses: Bone fracture, diabetes, general tonic & joint pain.

Lycopersicon esculentum Mill.

Family: Solanaceae Local name: Tamatar Part used: Fruits Habit: Herb

Uses: Anthelmintic & for glowing skin.

Malachra capitata L. Family: Malvaceae Local name: Vilayati bhindi Part used: Fruits & seeds

Habit: Herb

Uses: Blood infection in cattle's, dental problem, joint pain

& wounds.

Mangifera indica L.
Family: Anacardiaceae
Local name: Aamb
Part used: Fruit & seeds

Habit: Tree

Uses: Blood purifier, diarrhoea & indigestion.

Gossypium arboreum L. Family: Malvaceae Local name: Kappas

Part used: Fruit & seeds Habit: Shrub

Uses: Dressings & Seed cake enhance lactation in

animals.

Hordeum vulgare L. Family: Poaceae Local name: Jon Part used: Seeds Habit: Herb

Uses: Coolant & cosmetic purposes.

Ipomea carnea Jacq.
Family: Convolvulaceae
Local name: Wilayati ak

Part used: Buds, Flower & leaves.

Habit: Shrub

Uses: Blisters, Blood infection in cattle's,

snake/scorpion bite & wounds.

Melia Azadirachta L. Family: Meliaceae Local name: Dhrek/Bakain Part used: Leaves & twigs.

Habit: Tree

Uses: Dental problems & skin problems.

Mentha arvensis L. Family: Lamiaceae Local name: Pudina Part used: Leaves Habit: Herb

Uses: Carminative, coolant, diarrhoea, dysentery, indigestion, jaundice, stomach-ache & vomiting.

Mirabilis jalapa L.
Family: Nyctaginaceae
Local name: Gulabash
Part used: Flowers & roots.

Habit: Herb Uses: Joint pain.

Momordica charantia L. Family: Brassicaceae

Local name: Karela Part used: Fruit & seeds Habit: Climber

Uses: Blood purifier & Diabetes.

Moringa oleifera Lamk.
Family: Moringaceae
Local name: Soanjna
Part used: Flowers & pods

Habit: Tree

Uses: Body pain, diabetes, indigestion & joint pain.

Murraya koenigii Spreng. Family: Rutaceae Local name: Karhi patta Part used: Leaves Habit: Shrub

Uses: Blood purifier, glowing skin, stomach-ache &

swelling.

Musa paradisiaca L.
Family: Musaceae
Local name: Kela
Part used: Fruits
Habit: Herb

Uses: Indigestion & jaundice.

Ocimum basalicum L. Family: Lamiaceae Local name: Niazbo Part used: Leaves Habit: Herb Uses: Cough & fever.

Ocimum sanctum L.
Family: Lamiaceae
Local name: Tulsi

Part used: Leaves Habit: Herb

Uses: Cough expectorant, fever & indigestion.

Opuntia dillenii Haw. Family: Cactaceae Local name: Chhittar thor Part used: Fruits Habit: Herb Uses: Antianaemic.

Oxalis corniculata L. Family: Oxalidaceae Local name: Khatti buti Part used: Leaves Habit: Herb

Uses: Eye problems.

Papaver somniferum L. Family: Papaveraceae Local name: Khas khas Part used: Seeds Habit: Herb Uses: Chickenpox.

Raphanus sativus L. Family: Brassicaceae Local name: Muli Part used: Roots Habit: Herb

Uses: Carminative, coolant, diabetes, Indigestion &

jaundice.

Ricinus communis L. Family: Euphorbiaceae Local name: Rind Part used: Leaves Habit: Shrub

Uses: Blisters, joint pain, swelling & wounds.

Rosa alba L.
Family: Rosaceae
Local name: Gulab
Part used: Flowers
Habit: Shrub

Uses: Constipation, cosmetic purpose & remove dark

circle around eyes.

Piper nigrum L.
Family: Piperaceae
Local name: Kaali mirch
Part used: Seeds

Habit: Herb

Uses: Allergy, blood infection in cattle's, carminative,

dental problem & indigestion.

Pinus roxburghii Sarg. Family: Pinaceae Local name: Chile Part used: Cones Habit: Tree Uses: Wounds.

Plantago ovata Forsk.
Family: Plantaginaceae
Local name: Isabgol
Part used: Husk
Habit: Herb

Uses: Constipation, coolant, diarrhoea & headache.

Prunus persica (L.) Batsch. Family: Rosaceae Local name: Adoo Part used: Fruit & leaves Habit: Shrub

Psidium guajava Linn.
Family: Myrtaceae
Local name: Amrood
Part used: Fruits & leaves

Uses: Anthelmintic.

Habit: Tree

Uses: Anthelmintic, constipation, cough, diabetes &

diarrhoea.

Punica granatum L.
Family: Punicaceae
Local name: Anaar
Part used: Fruit & seeds
Habit: Shrub

Uses: Antianaemic.

Solanum tuberosum L.

Family: Solanaceae
Local name: Alu
Part used: Stem
Habit: Herb

Uses: Burns & eye problems.

Spinacia oleracea L. Family: Chenopodiaceae Local name: Palak Part used: Leaves Habit: Herb

Uses: Antianaemic, constipation, diabetes, purgative,

to check calcium & iron deficiency.

Syzygium cumini L. Family: Myrtaceae Local name: Jamun Part used: Fruits & seeds

Habit: Tree

Uses: Diabetes & purgative.

Saccharum officinarum L.

Family: Poaceae Local name: Ganna Part used: Stem

Habit: Herb

Uses: Indigestion, jaundice & kidney stone.

Sapindus mukorossi Gaertn.

Family: Sapindaceae Local name: Reetha Part used: Fruits Habit: Tree Uses: Hair tonic.

Solanum nigrum L. Family: Solanaceae Local name: Bhambola Part used: Unripe fruits & leaves

Habit: Herb

Uses: Antianaemic, controls uric acid, heart problem,

protect from cold & swelling.

Solanum xanthocarpum Schrad. & Wendl.

Family: Solanaceae Local name: Kandyali Part used: Fruits Habit: Herb

Uses: Internal injury, wounds.

Thea sinensis L.
Family: Theaceae
Local name: Cha
Part used: Leaves
Habit: Shrub

Uses: Analgesic, cold, cough, Headache & piles.

Tinospora cordifola (Willd.) Miers ex Hook. F. &

Thoms.]

Family: Menispermaceae Local name: Giloe Part used: Leaves & stem.

Habit: Climber

Uses: Backache, diarrhoea, malaria, swelling & typhoid.

Trachyspermum ammi (L.) Spraque ex Turrill

Family: Apiaceae Local name: Ajwain Part used: Seeds Habit: Herb

Uses: Carminative, cold, cough, diarrhoea, indigestion,

Stomach-ache & vomiting.

Tribulus terrestis L.
Family: Zygophyllaceae
Local name: Bhakhra
Part used: Fruit & seeds

Habit: Herb

Uses: Arthritis, Backache, Protect from cold & rheumatism.

USES: AITHIRIS, DACKACHE, PTOTECT ITOTH COID & THEUIHAUSH

Trigonella foenum graecum L.

Family: Fabaceae Local name: Methi Part used: Seeds Habit: Herb

Uses: Carminative, diabetes & joint pain.

Terminalia arjuna (Roxb.) W. & A.

Family: Combretaceae Local name: Arjun Part used: Bark & leaves Habit: Tree

Uses: Asthma & diabetes.

Terminalia cattapa L.
Family: Combretaceae
Local name: Badaam
Part used: Seeds
Habit: Tree
Uses: Brain tonic.

Terminalia chebula Retz. Family: Combretaceae Local name: Harar Part used: Fruits

Habit: Tree Uses: Constipation controls uric acid, diarrhoea, eye &

hair problem & fever.

Vinca rosea L.
Family: Apocynaceae
Local name: Sadabahar
Part used: Flowers & leaves.

Habit: Herb

Uses: Indigestion of cattle & Wounds.

Viola pilosa Blume.
Family: Violaceae
Local name: Banaksha
Part used: Flowers & Leaves.

Habit: Herb

Uses: Chest pain, cold, cough, fever & Cough & cold,

chest pain, fever, stomachache.

Vitex negundo L.
Family: Verbenaceae
Local name: Banna
Part used: Leaves & twigs

Habit: Tree

Uses: Allergy, antibiotic, indigestion, stomach-ache &

wounds.

Zea mays L.
Family: Poaceae
Local name: Makai
Part used: Seeds
Habit: Herb
Uses: Jaundice.

Zingiber officinalis Rosc.
Family: Zingiberaceae
Local name: Adhrak
Part used: Rhizomes

Habit: Herb

Uses: Analgesic, body ache, carminative, chest pain, constipation, controls cholesterol, cough, headache &

joint pain.

Zizyphus jujuba Lamk. Family: Rhamnaceae Local name: Beri Part used: Bark & leaves

Habit: Tree

Uses: Blood purifier, hair problem, foot rotting in

cattle's & swelling.

People responded well to our queries and even they helped lot in the identification of species. Some of the respondents possess much knowledge about the plant species of medicinal importance. Twenty two plant species have not been much exploited as traditional medicines. Some others have been over-exploited. This shows that how invariably this precious knowledge is distributed amongst the natives. Data has also been collected for some of the serious diseases like cancer, AIDS and diabetes. Regarding cancer and AIDS, some people were of the opinion that these are incurable but most of them have misconception about the curability of diabetes. Some of the most commonly used anti-diabetic medicinal plant species include Momordica charantia, Syzygium cumini, Azadirachta indica and Aloe vera. Medicinal significance of each and every species has been discussed in detail (Table 4). Despite their high medicinal importance, the use of traditional medicinal plants is declining day by day which may be because of the availability of the fast relieving medicines in the market. There are many plant species which were used by the natives in earlier times but are not in use today. This may be due to lack of knowledge of their utility as traditional medicinal plants.

Conclusion

The present investigation reveals that the practice of traditional plant medicines is still alive in the area under investigation. However, this indigenous knowledge is vanishing rapidly. Our young generations are not much in favour of these practices because of non-availability of some important medicinal plants, unspecified doses and unknown side effects. Therefore, it is the need of the hour to conserve this indigenous and precious knowledge about the uses of medicinal plant remedies and also to pass on this to our present and future generations effectively.

Acknowledgement

We would like to thank all the informants who responded to our queries. The authors are also grateful to University Grant Commission (UGC) for providing financial assistance to carry out this investigation.

References

- [1] Dushing, Y. A. and D. A. Patil. 2010. Studies on Ethnomedicine in Buldhana District of Maharashtra (India). Journal of Phytology 2(12): 35-41.
- [2] Farnsworth, N.R. 1966. Biological and Phytochemical Screening of Plants. J Pharm. Sci. 55: 225-276.
- [3] Gautam, A. K., M. K. Bhatia and R. Bhadauria. 2011. Diversity and Usage Custom of Plants of South Western Himachal Pradesh, India - Part I. Journal of Phytology 3(2): 24-36.
- [4] Kamalakannan, K. and V. Balakrishnan. 2009. Ethnobotanical Studies on Achyranthes aspera Linn. Among the Folk People of Tamilnadu, South India. Journal of Phytology 1(2): 108-111.
- [5] Lepcha, L., S. G. Roy., A. Sarkar., B. C. Basistha and M. L. Arrawatia. 2011. Documentation of Medicinally Important Plants from the Landslide Prone Areas of East Sikkim, India: A Survey Report. Journal of Phytology 3(7): 01-07.
- [6] Muthukumar, K. and A. S. Samuel. 2010. Traditional Herbal Medicines of the Coastal Diversity in Tuticorin District, Tamil Nadu, India. Journal of Phytology 2(8): 38– 46.
- [7] Pala, N. A., A. K. Negi and N. P. Todaria. 2010. Traditional uses of medicinal plants of Pauri Garhwal, Uttrakhand. New York Science Journal 3(6): 61-65.
- [8] Sidhu, K. and R. Kaur. 2007. Maternal Health Care through Medicinal Plants. Ethno-Med. 1(2): 157-160.
- [9] Sidhu, M. C., S. Singh and A.S. Ahluwalia. 2010. Assessment of Medicinal Plants among Inhabitants of Kapurthala District, Punjab (India). Vegetos 23 (2):167-176.
- [10] Signorini, M.A., M. Piredda and P. Bruschi. 2009. Plants and Traditional Knowledge an Ethnobotanical investigation on Monte Ortobene (Nuoro, Sardinia). Journal of Ethnobiology and Ethnomedicine, 5: 6.