



MEDICINAL USES OF COMMON ORNAMENTAL PLANTS IN KARALI DISTRICT

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ABSTRACT

The present study is based on medicinal uses of ornamental plants in Karauli district. Ornamental plants are decorative and have showy flowers. On occasions all festival we are closely associated with colourful, beautiful and fragrant flowers of ornamental plants. Normally cultivate the various species of ornamental plant, in house, park and gardens. All ornamental plants are producing us fresh and healthy air. They are known as soul of garden and parks. The ornamental plants are also having many medicinal properties which are useful for good health. Everyone can be easily gain safe and cheap treatment if they are grown the ornamental plants at their homes. A survey was carried out of the families of study area to know the status about medicinal properties of these ornamental plants and try to suggest use of these easily available plants for better treatment.

KEYWORDS: Ornamental plants, Medicinal properties, Herbal drugs, Chemical composition.

INTRODUCTION

Ornamental plants are growing in houses, gardens and parks for their beauty of flowering and medicinal properties. These are providing us a large range of benefits which are given a healthy and wealthy life. These plants are also providing a fresh and clean air. After civilization the effort for better health has been a regularly human endeavor all over the world. Human has been used the plants from ancient times as a good source of medicine. Some ornamental plants are being grown in gardens and farmer fields' particular purpose like as lavender (*Lavendula* spp.). Importance's of herbal medicines are described in Vedas for healthy life. Indoor air quality is maintained by ornamental plants. These plants are also useful for us as requirement of raw material in a constructed house building. Many ornamental plants can easily remove pollutants from air and helping in provide a clean and fresh air such as *Dracaena*, *Chrysanthemum*, *Aglonema* etc. These ornamental plant are provide pollution free environment by absorb the harmful pollutants such as formaldehyde, carbon monoxide, benzene etc. Various diseases such as dysentery, fever, cough, malaria, rheumatism and skin diseases are easily treated by ornamental plants. These plants are actually providing us energy to removing headache and other problem of mind. Our physical and mental health is do maintain by working in parks and gardens. People who are undergo emotional depression cured by fragrant oil of these plants. The demand on plant based therapeutics has increased in many field in all over world due to having many good properties like

as easily available, having no side effects, non-narcotic etc. Participations in healthy environment are directed to releasing endorphin Harmon which has enough power to removing physically and mentally pain. According to Padma (2005) the demand of herbal medicines in overall world are increasing regularly for medicinal and biological activities as primary health care.

AIM OF THE STUDY

This study was aimed to recognize the medicinal properties of ornamental plants which are growing in karauli district and know about the importance of these plants for better human health.

MATERIAL AND METHODS

Study Area: To know about growing position of ornamental plants we have selected many gardens, parks and houses in different cities (Hindaun, Karauli, Suroth, Sapotra, Mandrail, Masalpur, keladevi) of karauli district. In Rajasthan state Karauli district is situated in north-east position. Karauli district is comes in Bharatpur division which is situated north side from karauli. During the survey of study a total of thirteen gardens, twelve parks and thirty two houses were notified.

Survey: According to advance planning and preparation many visit were carried out. During field visit the important information were collected by men and women of different age. We have selected all hot spot parks and gardens throughout karauli district. On the basis of 20 questionnaires detailed data information were prepared

during field visit. All information about the medicinal properties of ornamental plants was carried out by different field visit, survey and observation. All information was collected by interview pattern.

RESULT AND DISCUSSION

Many ornamental plants which have more medicinal properties are being distinct due to over exploitation. To save these plants and their medicinal properties we should grow the ornamental plants in parks and gardens. According to Mishra and Kotwal (2010) the collected raw material of ornamental plants such as leaves, fruits and roots should not keep in sunlight as well as low category godowns which are having fungus, termites and dust. Because all these factors are having adversely impact on the quality and medicinal properties. So we should grow medicinal ornamental plants in our houses, parks and gardens. Many wild plants are grow as ornamental plants in houses, gardens and parks such as Aloe, Asparagus, Mimosa, Crinum etc. These plants have been

used last hundreds years as source of medicine. Awareness about medicinal properties of ornamental plant have discussed with local people and motivated them to use the plant extract and product. Adverse effects of allopathic drugs have also discussed with the local people.

I have discussed with local people by more than 30 points and I have found that 97 percent people answered that plants are improve healthy life. 94 percent people select a choice to live nearby gardens and parks and they also like to grow the ornamental plants in their own homes. I have find by survey that 28 percent people prefer herbal medicine use as externally while only 6 percent people like allopathic medicines and 66 percent people use both herbal and allopathic medicines. According to survey it is noticed that 22 percent peoples used herbal medicines as externally treatment while 70 percent people like to take orally these medicines and 8 percent people avoided herbal treatment.

Table 1: Common ornamental plants which are used as medicinal treatment in Karauli district.

S. N.	Botanical name of ornamental plants	Common name	Family name	Used plant parts	Used in Particular diseases
1.	<i>Abrus precatorius</i>	Chirmi	Fabaceae	Extract of root bark	Used to cure of Leukoderma disease
2.	<i>Abutilon indicum</i>	Kanghi	Malvaceae	Leaves extract	Used in Toothache, Lumbago and Piles
3.	<i>Acacia nilotica</i>	Babul	Fabaceae	Extract of stem bark	Used in Diarrhea and Leprosy
4.	<i>Aloe vera</i>	Gwarpatha	Liliaceae	Extract of Leaves	Used in Rheumatism and back bone pain
5.	<i>Alstonia scholaris</i>	Saptarni	Apocynaceae	Bark of roots	Used as power tonic for pregnant women
6.	<i>Anacyclus pyrethrum</i>	Akarkara	Asteraceae	Extract of leaves	Used in dental problem
7.	<i>Asparagus racemosus</i>	Satavari	Liliaceae	Extract of Root	Used to cure of Leucorrhoea
8.	<i>Azadirachta indica</i>	Neem	Meliaceae	Extract of leaves	Used in Blood & Skin disease
9.	<i>Barleria cristata</i>	Vajra danti	Acanthaceae	Extract of leaves	Used in Fever and Bronchitis
10.	<i>Basella alba</i>	Poi	Basellaceae	Extract of leaves	Used in Thyroid and Constipation
11.	<i>Bauhinia purpurea</i>	Kopnar	Caesalpinioideae	Extract of root and stem bark	Used to cure of tumors
12.	<i>Bauhinia variegata</i>	Kachnar	Caesalpinioideae	Extract of Stem bark	Used as blood purifier
13.	<i>Boerhavia diffusa</i>	Punarnava	Nyctaginaceae	Extract of leaves	Used in asthma and heart problem
14.	<i>Brassica Oleracea var. acephala.</i>	Ornamental cabbage	Brassicaceae	Whole leaves	Used as supplement of Vitamins
15.	<i>Brayophyllum pinnatum</i>	Patharchatta	Crassulaceae	Whole leaves	Used to dissolve stones in kidney
16.	<i>Cassia fistula</i>	Amaltas	Caesalpinioideae	Powder of fruits	Used to cure of constipation
17.	<i>Catharanthus roseus</i>	Sadabahar	Apocynaceae	Whole	Used for diabetes and

				flower	obesity
18.	<i>Centella asiatica</i>	Barhmi	Apiaceae	Extract of leaves	Used for improve the memory
19.	<i>Chenopodium album</i>	Bathua	Amaranthaceae	Whole leaves	Used as anthelmintic and diuretic
20.	<i>Cissusquadrangularis</i>	Hadjod	Vitaceae	Extract of stem	Used in bone fracture
21.	<i>Coleus amboinicus</i>	Azwainpatta	Lamiaceae	Extract of leaves	Used to cure the cough and cold
22.	<i>Crinum asiaticum</i>	Sudarshan	Amaryllidaceae	Extract of leaves	Used to cure of earache
23.	<i>Dalbergia sisso</i>	Sisam	Fabaceae	Extract of leaves	Used to cure of mouth ulcer and nose bleeding
24.	<i>Euphorbia tithymaloides</i>	Nagdaun	Euphorbiaceae	Whole leaves	Used to cure of tumor and warts
25.	<i>Ficus benghalensis</i>	Bargad	Moraceae	Extract of stem bark	Used in vomit problem
26.	<i>Hibiscus rosasinensis</i>	Gurhal	Malvaceae	Extract of flower	Used as hair colour and conditioner
27.	<i>Jasminum arborescence</i>	Chameli	Oleaceae	Powder of leaf	Used to cure of mouth ulcer
28.	<i>Jasminum sambac</i>	Mogra	Oleaceae	Extract of leaf and Flower	Used to cure of cancer
29.	<i>Lagerstroemia speciosa</i>	Jarul	Lythraceae	Whole fruit	Used to cure of mental disorder
30.	<i>Lawsoniainermis</i>	Menhadi	Lythraceae	Powder of leaves	Used to gray hair and healing the wound
31.	<i>Murraya koenigii</i>	Meethaneem	Rutaceae	Whole leaves	Used to cure of diabetes and indigestion
32.	<i>Nyctanthus arbortristis</i>	Ratrani	Solanaceae	Powder of leaves	Used to cure of constipation and joint pain
33.	<i>Ocimum basilicum</i>	Marwa	Lamiaceae	Powder of seeds	Used to cure of mouth ulcer
34.	<i>Ocimum sanctum</i>	Tulsi	Lamiaceae	Whole leaves	Used to cure of cough, cold and throat pain
35.	<i>Ocimum canum</i>	Bantulsi	Lamiaceae	Extract of leaves	Used to cure of cough
36.	<i>Polyalthea longifolia</i>	Ashok	Anonaceae	Extract of stem bark	Used to control blood pressure
37.	<i>Plumbago zeylanica</i>	Chitrak	Plumbaginaceae	Extract of twig	Used to cure of appetizer
38.	<i>Punica granatum</i>	Anar	Lythraceae	Extract of fruit	Used to cure of indigestion
39.	<i>Rosa indica</i>	Gulab	Rosaceae	Extract of flower	Used to cure of mouth ulcer and care of skin and eyes
40.	<i>Tagetus erecta</i>	Genda	Asteraceae	Extract of leaves and flower	Used to cure of cough, cold, warts and nose bleeding
41.	<i>Thevatia peruwiana</i>	Pilikaner	Apocynaceae	Extract of fruits	Used to cure of tumour
42.	<i>Tinospora cordifolia</i>	Giloy	Menispermaceae	Powder of twig and leaves	Used in viral fever

Mentioned above enlisted ornamental plants are used as medicinal purpose by local peoples which are living in Karauli district. Although these plant are used in many ways in different part of our country. Due to lack of awareness for harmful effect of allopathic medicines a few persons are prefer modern medicine. Many people are well known about properties of herbal plants and they like to use them. In the comparisons of allopathic medicines the products of herbal plants cause less harmful effect. Approximately 40 percent persons are purchase the herbal products from market but above than 50 percent are collect them from parks and gardens. If the plants have infected and suffer from any diseases, we should not collect them. Because these cause very harmful effect due to disease and any insects. We should carefully choose medicinal plants because some poisonous plants are look similar to them. We should carefully notify that only choose dried parts of plant if we collect them from park and gardens.

Normally local persons are consulting the method of use the particular plant products by books, television, or newspapers or each other. Thus all local persons know the using method of herbal plant products. According to survey only 12 percent persons are consulting with medical practitioner about using methods of herbal plants. More than 25 percent persons are interesting in growing these plants. All these persons are known about the growing method and take care of these medicinal plants. So the ornamental plants are not only growing as decorative purpose but also they provide us important medicinal products which are good for our health.

We should give a motivational encouragement for use herbal products of medicinal ornamental plant to the persons. If we are easily identify the medicinal plants and known about their medicinal properties, we easily adapt their herbal products for our healthy life.

Mostly medicinal plants are doing not have any harmful effect but some persons have allergic problem so it is necessary that before the use of these products take a proper advice. Some persons are use the products of ornamental plants for the preparation of skin tonic and hair conditioner.

According to Edward and Gilman (1999) some medicinal plants have adverse effect on human life. These adverse effects are show in the form of allergic reactions. Normally these allergic reactions are produce by using of pesticide and herbicide. So these herbicides and pesticides are directly responsible for allergic problems. Allergic problem of herbal products have also reported by workers which are used as skin tonic.

According to survey it was noticed that more than 40 plant species are growing as ornamental plants in karauli district. The products of these ornamental plants are used as health tonic. Various ailments of these medicinal plants are used in seasonal diseases such as rheumatism,

indigestion, skin diseases, cold and cough. The uses of these herbal products of ornamental plants are given a chance for new research.

Aloe vera, *Ocimum Sanctum* and *Catharanthus rosius* plants are grow as ornamental plant by mostly persons in their homes. The products of these medicinal plants are uses in many problems such as obesity, rheumatism, skin disease and stomach problems.

So we should aware and motivate those persons which are doing not have believe in uses of these plants. It is our moral duty that we should grow all these ornamental plants in their own houses, nearby garden and parks. We should give a proper time to take care them. Beside their medicinal products these plants give us healthy and fresh environment.

The soil, environment and climate conditions are strongly affect the properties of ornamental medicinal plants. The molecular compounds are having different properties which are collected from different places. It was observed that there were significant differences between in the molecular compounds in the plants taken from different places. According to Rai and singh (2012) those plants which are consider in same spices but have different properties due to grow in different conditions are called involuntary adulteration. The demand of the product of ornamental plants as commercial purpose for preparation of herbal drugs is increasing regularly. To control on plant diseases the use of herbal pesticide is safe.

Some plants are commonly found as wild species but having medicinal properties. We can grow these wild plants as ornamental plant in our houses, gardens and parks. Better caring like as regularly watering and supply proper fertilizers can make these wild plants attractive and beautiful. All native plants which are having healthy herbal products can be growing as ornamental plants. Some plant like as lawsonia is replaced as wild plant but it is having many useful herbal compounds so we should grow it as ornamental plant.

According to Wolverton and Wolverton (1993) some plants like as *Chlorophytum comosum* and *Raphis excelsa* help in cleaning in air so we should grow these plants in our houses, gardens, offices and park as ornamental plant to change the cleanness of air quality.

For the using of herbal medicines we should consult an ayurvedic medical practitioner due to their side effects. Some times in the lack of knowledge we take overdose of these medicines which is cause adverse health effect on our body so proper advise of ayurvedic medical practitioner is compulsory for our better health. By the consultation of ayurvedic medical practitioner we should know about the quantity of dose and timing for treatment. The effect duration of herbal medicines is found different so we should gain proper knowledge

about these plants. The dose of some medicinal plants are given result very fast while other medicinal plants are take a long time so those plants which give fast result we should take for very short time and those plants which give result in a long time we should take for a long time.

Many important medicinal plants are reducing due to rapid deforestation and urbanization. So it is our moral duty and great responsibility to conserve the significant medicinal plants. Many ornamental plants are having religious attachment with local persons like as medicinal plant *Calatropis gigantea*. Some local persons are believed that this is god blessed plant. Some persons said that this plant is nice to keep in houses. So we trying to save these plants with religious minded because every plant have more medicinal properties and we can save endangered plants in this way.

CONCLUSION

According to preset study it is confirmed that the local persons of karauli district use the ornamental plants not only showing purpose in their homes but also they are apply these in making of different drugs.

It is find out by the survey of karauli district that mostly persons are knowledgeable on uses of ornamental plants in different medicinal field. Due to medicinal importance of plants mostly persons are started grow many wild plants in their houses as an ornamental with regular care.

The base of present study is aimed on at most persons are gain the value of ornamental plants and they grow them in large quantities. So these plants are helpful for healthy environment with purpose of medicinal value.

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