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# SOME COMMON MEDICINAL PLANTS FOR THE MANAGEMENT OF NON-COMMUNICABLE DISEASES

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#### ABSTRACT

All around the world, billions of people are suffering from non-communicable diseases in different stages of their life. There has been an unparalleled worldwide rise in non-communicable diseases (NCDs), particularly cardiovascular diseases (CVD), respiratory diseases, obesity, diabetes, joint diseases, psychological (= neurological) diseases and cancer. NCDs are the leading cause of death as these are replacing communicable diseases, maternal and child health as well as malnutrition. The modern pharmacotherapy has decreased the mortality to some extent but has failed to stop the rise. The inaccessibility and inadequate response of conventional drugs in the management of NCDs is a big challenge. A large section of the world population cannot afford expensive pharmacotherapy. Therefore, there is an urgent need for inexpensive and preventive measures to control the rise in non-communicable diseases.

A large number of medicinal plants have been used in traditional health care for many years. The plants and plant products in the form of crude drugs as well as in various compound formulations are being used for combating non-communicable diseases. Medicinal plants play a vital role in preventing various diseases and their promotion and use fit into all existing strategies for better health of community. However, more efforts need to be made to properly identify, recognize and position medicinal plants in the design and implementation of these strategies. The present paper describes the use of various medicinal plants in the management of different non-communicable diseases.

Keywords: Non-communicable diseases, medicinal plants.

# 1. INTRODUCTION

Medicinal plants have been used in healthcare since time immemorial. Non communicable diseases (NCDs) are the leading cause of death as these are replacing communicable diseases, maternal and child health as well as malnutrition. The modern pharmacotherapy has decreased the mortality to some extent but has failed to stop the rise. The inaccessibility and inadequate response of conventional drugs in the management of NCDs is a big challenge. A large section of the world population cannot afford expensive pharmacotherapy. Therefore, there is an urgent need for inexpensive and preventive measures to control the rise in non-communicable diseases.

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#### What is a medicinal plant?

According to World Health Organization (WHO), a Traditional Medicine is a sum total of all knowledge and practices, whether applicable or not, used in diagnosis, prevention and elimination of physical, mental, or social imbalance and relying exclusively on practical experience and observation communicated from one generation to next generation, whether verbally or in writing. Over 90% of traditional medicine recipes/remedies contain medicinal plants but this paper will address, specifically, the medicinal plants that have been implicated with preventive measures in disease control strategies.

A medicinal plant is any plant which, in one or more of its organs, contains substances that can be used for therapeutic purposes or which are precursors for the synthesis of useful drugs. The term crude drugs of natural or biological origin is used by pharmacists and pharmacologists to describe whole plants or parts of plants which have medicinal properties. A medicinal plant should include:

- Plants or plant parts used medicinally in galenical preparations (e.g. decoctions, infusions, etc.) e.g. Cascara bark;
- plants used for extraction of pure substances either for direct medicinal use or for the hemi-synthesis of medicinal compounds (e.g. hemisynthesis of sex hormones from diosgenin obtained from *Dioscorea* yams);

- food, spice, and perfumery plants used medicinally, e.g. ginger;
- Microscopic plants, e.g. fungi, actinomycetes, used for isolation of drugs, especially antibiotics. Examples are ergot (*Claviceps purpurea* growing on rye) or *Streptomyces griseus*; and
- Fiber plants, e.g. cotton, flax, jute, used for the preparation of surgical dressings.

## MEDICINAL PLANTS - A BASE OF MANY IMPORTANT DRUGS FOR CONTROLLING NON COMMUNICABLE DISEASES:

Medicinal plants are considered as a rich resources of ingredients which can be used in drug development either pharmacopoeial, non-pharmacopoeial or synthetic drugs. A part from that, these plants play a critical role in the development of human cultures around the whole world. Moreover, some plants are considered as important source of nutrition and as a result of that they are recommended for their therapeutic values. Some of these plants include ginger, green tea, walnuts, aloe, pepper and turmeric etc. Table no.1 presents some plants and their derivatives are considered as important source for active ingredients which are used in the prevention of many non communicable diseases in the society.

#### TABLE 1. SOME COMMON MEDICINAL PLANTS

Sr.		Common		Monocot	T	
No.	Botanical Name	name	Family	/Dicot	Туре	Use
	Acacia					
1	auriculiformis	Auri	Fabaceae	Dicot	Perrennial	treat rheumatism, root treats pain and sore eyes
2	Acacia nilotica	babool	Fabaceae	Dicot	Perrennial	Antioxidant, antimicrobial, Antipyretic and antiinflammatory action
3	Aegle marmelos	bael patra	Rutaceae	Dicot	Perrennial	used in chronic diarrohea, dysentry and peptic ulcer
	Alstonia	Saptaparn,				Treat fever, malaria, troubles in digestion,
4	scholarish	Devils tree	Apocynaceae	Dicot	Perrennial	tumors,ulcers
5	Azadirachta indica	Neem	Meliaceae	Dicot	Perrennial	used as Antimalarial, antibacterial, antiviral, in various skin diseases
5	Azaatrachia inaica	INCOM	Wenaceae	Dicot	renemiai	
	Bauhinia					
6	variegata	kachnar	Fabaceae	Dicot	Perrennial	used as food and medicine
7	Calliandra haematocephala	Calliandra	Fabaceae	Dicot	Perrennial	leaves have antibacterial and insecticidal properties
	Callistemon					Used as water accent, anticough, antibronchitis and
8	lanceolatus	Bottle brush	Myrtaceae	Dicot	Perrennial	insecticide
		Fish tail				Antiinflammatory,antimalarial, analgesic,
9	Caryota urens	palm	Arecaceae	Dicot	Perrennial	antioxidant
10	Cassia fistula	Amaltas	Fabaceae	Dicot	Perrennial	used in ayurvedic medicines
	Cinnamomum					Treat fungal infections, relieves pain and reduce
11	camphora	Kapoor	Lauraceae	Dicot	Perrennial	itching
12	Dalbergia sissoo	Sheesham	Fabaceae	Dicot	Perrennial	timber high quality

16Ficus benghalensisbargadMoraceaeDicotPerrennialthe treatment of Leucorrhoea17Ficus carricaFigMoraceaeDicotPerrennialcures diabetes, high cholestrol, and skin diseases18Ficus racemosagularMoraceaeDicotPerrennialused in diabetes, liver disorders, diarrhea, inflammatory conditions19Ficus religiosaPeepalMoraceaeDicotPerrennialsacred tree, used in asthama, diabetes , epilepsy, inflammatory disorder20Ficus virenspilkhanMoraceaeDicotPerrennialused as food and medicine21Hibiscus rosa sinensisChina roseMalvaceaeDicotPerrennialantiinflammatory properties and used in skin caproducts							
Elaeocarpus ganitrus   Rudraksh   Elaeocarpaceae   Dicot   Perrennial   Manages high B.P., asthma,mental disorders,diabetes     15   Eucalyptus   safeda   Myrtaceae   Dicot   Perrennial   oil used as insect repellent and antimicrobial activity     16   Ficus benghalensis   bargad   Moraceae   Dicot   Perrennial   Bark is used as tonic,antidiabetic and astringen the treatment of Leucorrhoea     17   Ficus carrica   Fig   Moraceae   Dicot   Perrennial   cures diabetes,high cholestrol,and skin diseases     18   Ficus racemosa   gular   Moraceae   Dicot   Perrennial   used in diabetes,liver disorders,diarrhea, inflammatory conditions     19   Ficus religiosa   Peepal   Moraceae   Dicot   Perrennial   used as food and medicine     20   Ficus virens   pilkhan   Moraceae   Dicot   Perrennial   antiinflammatory properties and used in skin care products     21   sinensis   China rose   Malvaceae   Dicot   Perrennial   bark is used in Rheumatism,treating ringworm, diseaes,leprosy     22   integrifolia   Papdi   Ulmaceae   Dicot   Perrennial   skin care products,making sweet beer<	13	Delonir regia	Gulmohar	Fabacase	Dicot	Perronnial	
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16   Ficus benghalensis   bargad   Moraceae   Dicot   Perrennial   the treatment of Leucorrhoea     17   Ficus carrica   Fig   Moraceae   Dicot   Perrennial   cures diabetes, high cholestrol, and skin diseases     18   Ficus racemosa   gular   Moraceae   Dicot   Perrennial   used in diabetes, liver disorders, diarrhea, inflammatory conditions     19   Ficus religiosa   Peepal   Moraceae   Dicot   Perrennial   sacred tree, used in asthama, diabetes, epilepsy, inflammatory conditions     20   Ficus virens   pilkhan   Moraceae   Dicot   Perrennial   used as food and medicine     21   Hibiscus rosa   china rose   Malvaceae   Dicot   Perrennial   antiinflammatory properties and used in skin carproducts     22   Holoprelia integrifolia   Papdi   Ulmaceae   Dicot   Perrennial   bark is used in Rheumatism,treating ringworm, diseases,leprosy     23   Kigelia africana   balam   Bignoniaceae   Dicot   Perrennial   skin care products,making sweet beer     24   Livistona   Fan Palm   arecaceae   Dicot   Perrennial   anticancer agent, antiproliferative and antiangiogenic	15	Eucarypius	saleua	Myrtaceae	Dicot	Ferfeinnai	
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	25	Mangifera indica	Mango	Anacardiaceae	Dicot	Perrennial	used as food and medicine
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27 <i>Millettia pinnata</i> Karanj Fabaceae Dicot Perrennial Oil used as antiseptic, lubricant, biodisel production of the second sec	27	Millettia pinnata	Karanj	Fabaceae	Dicot	Perrennial	Oil used as antiseptic, lubricant, biodisel production
28   Moringa oleifera   Sahjan   Moringaceae   Dicot   Perrennial   rich source of vitamins, mineral, amino acids, or diabetes, liver, antimicrobial.	28	Moringa oleifera	Sahjan	Moringaceae	Dicot	Perrennial	rich source of vitamins, mineral, amino acids, cures diabetes, liver, antimicrobial.
29 Morus alba Mulberry Moraceae Dicot Perrennial food for silkworm	29	Morus alba	Mulberry	Moraceae	Dicot	Perrennial	food for silkworm
30 <i>Musa</i> banana Musaceae Dicot Perrennial source of vit C, improves digestion	30	Musa	banana	Musaceae	Dicot	Perrennial	source of vit C improves direction
and madeat Diot Ferennial source of vit c, improves ugestion	50	111130	Junana	musuccac	Dicut	renemilar	source of vit c, improves ugestion

32	Plumeria rubra	Champa	Apocynaceae	Dicot	Perrennial	Antitoxic agent, skin diseases, cough and rheumatism
33	Prunus persica	Peach	Rosaceae	Dicot	Perrennial	Fruiting tree
34	Psidium guajava	Guava	Myrtaceae	Dicot	Perrennial	used as cough sedative, antidiarrheic, diabetes melitus, hypertension
35	Saraca indica	Ashoka	Fabaceae	Dicot	Perrennial	used as medicine in menstruation
36	Syzgium cumini	Jamun	Myrtaceae	Dicot	Perrennial	Relives stomach pain ,carminative, diuretic,in diabeties
37	Tecoma stans	Tecoma bells	Bignoniaceae	Dicot	Perrennial	used as tonic,diuretic, antisyphilitic and vermifuge
38	Tectona grandis	Teak	Lamiaceae	Dicot	Perrennial	timber high quality
39	Terminalia arjuna	Arjun	Combretaceae	Dicot	Perrennial	used in heart diseases
40	Terminalia bellerica	Baheda	Combretaceae	Dicot	Perrennial	used in Triphala

Recipes for the treatment of common ailments are given by the traditional medicine practitioners very effectively. Indian sages were also known to have remedies from plants which act against poisons from animals and snake bites.

## 2. CONCLUSION

As our lifestyle is now getting techno-friendly, we are moving away from nature. But, we cannot escape from nature because we are a part of nature. Traditionally there are a lot of medicinal plants used for the ailments related to different seasons. There is a need to promote them to save the human lives.

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