



An Importance of Herbal Medicines in Treatment of Cancer Disease

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ABSTRACT

During the past few years herbal medicine has gained exponential growth in the field of medicine in all over the world. In comparison to other countries India is the largest producer of herbal medicine. The current review focuses on herbal preparation and plant recently evaluated in the treatment of cancer disease in the world. This paper until focus on different beneficial aspects of herbal medicine as Anti Cancer.

Keywords: Anticancer, herbal plants, Cancer.

INTRODUCTION

Cancer is a general term applied to a series of malignant disease which may affect many different parts of the body. These diseases are characterized by a rapid and controlled formation of abnormal cells which may mass together to form a growth tumor, or proliferate throughout the body, initiating abnormal growth at other sites. If the process is not arrested, it may progress until it causes the death of the organism. Cancer is commonly encountered in all higher animals and plants also develop growths that resemble cancer.

The main forms of treatment for cancer in human are surgery, radiation and drug (cancer chemotherapeutic agents). Cancer chemotherapeutic agents can often provide temporary relief of symptoms, the prolongation of life, and occasionally cures. In recent years, much effort has been applied to the synthesis of potential anticancer drugs¹.

According to WHO, Cancer is a leading cause of death group worldwide & accounted for 7.4 million death (around 13 % of all that) in 2004. The main type of cancer is as follows:

- Lungs (1.3 million death per year)

- Stomach (803,000 Death)
- Colorectal (639000 Death)
- Liver (610,000 Death)
- Breast (519,000 Death)

More than 70% of all cancer death occurred in low and middle income countries that from cancer worldwide are projected to the continue rising with an estimated 11.5 million death in 2030.

Rise Factor for Cancer

- Tobacco use
- Alcohol use
- Dietary factors increasing insufficient fruit and vegetable intake.
- Overweight & obesity physical inactivity chronic infection.
- Environmental & occupational risk including ionizing & Non ionizing Radiation.

Plant materials have been used in the treatment of malignant disease for centuries; a comprehensive survey of the literature describing plant used against Cancer.

Table 1: Herbal Plans Used as Anticancer

S.no	Botanical name	Common name	Family	Part Used
1.	<i>Acalypha Indica</i> ¹¹	Indian Copper leaf	Euphorbiaceae	Leaves
2.	<i>Aerva Lanata</i> ³	Mountain Knot Grass	Amaranthaceae	Flowering aerial parts
3.	<i>Agave Americana</i> ¹⁹	Century Plant	Asparagaceae	Leaves
4.	<i>Albizia Amara</i> ¹⁴	Krishna siris	Mimosaceae	Leaves
5.	<i>Allium Sativum</i> ¹⁷	Garlic	Amaryllidaceae	Bulb
6.	<i>Andrographis Paniculata</i> ¹²	Kalmegh	Acanthaceae	Leaves
7.	<i>Barleria Grandiflora</i> ²⁰	Grand Barleria	Acanthaceae	Leaves
8.	<i>Butea Monosperma</i> ¹⁵	Palas Tree	Fabaceae	Flowers



9.	Bauhinia Tomentosa ¹⁶	Yellow Orchid Tree	Caesalpinaceae	Flowers
10.	Cassia Fistula ⁶	Amaltas	Caesalpinaceae	Flowers
11.	Catharanthus Roseus ²⁴	Roseperi Winkle	Apocynaceae	Leaves
12.	Clerodendron Serratum ⁵	Hill Glory Bower (Bharangi)	Verbenaceae	Leaves
13.	Clitoria Ternatea ⁸	Butterfly Pea	Fabaceae	Seeds
14.	Centellia Asiatica ⁷	Indian Pennywort	Apiaceae	Leaves
15.	Curcuma Zedoaria ⁹	White turmeric	Zingiberaceae	Rhizomes
16.	Datura Stramonium ²¹	Thorn apple	Solanaceae	Flowers
17.	Euphorbia Hirta ¹⁰	Rati Dudheli	Euphorbiaceae	Whole plant
18.	Ficus Religiosa ²²	Peepal	Moraceae	Leaves
19.	Gloriosa Superba ⁹	Glory Lily	Liliaceae	Rhizomes
20.	Hemidesmus Indicus ³⁰	Indian sarsaparilla	Asclepiadaceae	Roots
21.	Ixora Coccinea ²³	Ixora	Rubiaceae	Flowers
22.	Jatropha Curcas ²⁸	Jangli arandi	Euphorbiaceae	Roots
23.	Mela stoma Malabathricum ²	Malabar Melastome	Melastomataceae	Leaves
24.	Moringa Oleifera ¹³	Moringa	Moringaceae	Leaves & Fruits
25.	Ocimum Sanctum ⁴	Holy Tulsi	Lamiaceae	Leaves
26.	Plumbaga Zeylancia ²⁵	Chitrak	Plumbaginaceae	Leaves
27.	Tephrosia Purpurea ²²	Wild Indigo	Fabaceae	Leaves
28.	Terminalia Chebula ²⁹	Black Myrobalan	Combretaceae	Fruits
29.	Trichosanthes Tricuspidata ¹⁸	Indrayan	Cucurbitaceae	Roots
30.	Vitex Trifolia ³¹	Chaste Tree	Asclepiadaceae	Leaves
31.	Withania Somnifera ²⁷	Ashwagandha	Solanaceae	Root, Stem & Leaves
32.	Wrightia Tinctora ²⁶	Sweet Indrajao	Apocynaceae	Bark
33.	Zingiber Officinale ³²	Ginger	Zingiberaceae	Leaves

CONCLUSION

From this study, it is clear that the medicinal plant play a vital role against cancer disease.

Various herbal plant extract have significant anti cancer activity our review result shows that above mentioned medicinal plant can used to be treat cancer disease. A variety of botanical products have been reported to possess that anti-cancer activity.

Hence the review study is concluded that the above mentioned herbal drug possess anti-cancer activity and it has been proved by different animal models which gives many work to develop the future trials.a

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