Folk Medicinal Value of Some Weeds around Hyderabad

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ABSTRACT
There are many weeds seen which are uprooted to protect the cultivated plants. Some of these plants have good medicinal and economic value. Weeds commonly seen in the cultivated lands in and around Hyderabad were collected and identified using the standard literature. The medicinal values of these plants have been identified by the folk lore claims and the standard literature of the Indian systems of medicine (Ayurveda and Siddha). Most of these weed plants identified are being used in the Indian systems of medicine and public domain since many centuries, which have much clinical importance. Hence the local people and farmers must be educated regarding the medicinal uses of these weed plants for health care and for the generation of revenue through the collection of weeds.

Keywords: Weed plant, Folk lore, Ayurvedic use, Hyderabad.

INTRODUCTION
Plants have been, and still are, a rich source of many natural products in major part of India and other countries, most of which have been extensively used for traditional human health care systems. The vast majority of people in the world takes care of themselves and uses healing plants that have been used for hundreds of generations. India is a country of vast biodiversity and traditional knowledge of using herbal medicines to cure many ailments. It has nearly 20,000 species of plants of medicinal and economic importance. Indian System of Medicine, which includes Ayurveda and Siddha systems of medicine, depends on the medicinal herbs for the treatment of various ailments. Estimate of 250,000 flowering plants in the world, more than 8000 species are weeds. The weeds grow along with the crop plants (agro-ecosystems) and are regarded as nuisance for crops. It involves lot of money and labour to get rid of these unwanted plants by using weedicides and manual eradication. Most of the world is ignorant about the positive side of these weeds and this unseen part is their medicinal value. Some of weeds are the raw materials to the pharmaceutical industries as they yield chemicals used in formulation of various drugs, for preparing herbal formulations and an important source of medicines for indigenous peoples. There are a number of reasons that the rural communities use weeds as medicine found in nearby areas.

The study of medicinally important weeds has not been realized as fully as other traditional communities elsewhere such as wild plants in forest ecosystems which often exclude weed species. In view of the rapid loss of diversity of plants, natural habitats, traditional community life, cultural diversity and knowledge of medicinal plants, documentation of medicinally important weeds is an urgent matter. Secondly, search for new medicines with low cost, more potential and without adverse side effect is needed to solve the major health problems.

Hyderabad, the capital city of central Andhra Pradesh, is located in Deccan Plateau. It extends on both the banks of Musi River up to an area of 250 square km and lies around 500 meters above the sea level and at 17.366° N latitude & 78.476° E longitude. It has a forest area of around 5 % and around 650 varieties of the plants. Rice, Jowar, Bajra, Sesame, Castor, Cotton and other pulses are the important plants of cultivation. These plants have a tough competition with the weeds and get destroyed. Hence these weed plants are removed timely during cultivation. Some of these weed plants also have good economic and medicinal value and are also used in the tribal medicine for the treatment of various ailments. So a folklore survey was taken up to identify the weeds of medicinal importance available around Hyderabad district of Andhra Pradesh, India.

A Field survey was conducted in cultivation lands in and around Hyderabad and discussion with the agriculturists and farmers and information regarding the weeds was recorded. The information procured was validated by comparing the information given by two or three people. The collected weeds were identified by the morphological features using
Weeds compete with the cultivated plants and decrease their productivity hence these plants are removed for the increased productivity of the cultivated plants. Some of these weed plants have good medicinal value. These plants form the major source of medicine for the tribal people of most of the developing countries. So it is important to conserve the medicinally useful weeds. Farmers must be educated regarding the medicinal uses of the plants and trained to preserve the weeds with out affecting the development of the cultivated food plants and to collect and process the medicinally useful parts of the weed plants. This may help to develop additional revenue without disturbing the productivity of the commercial plants.

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### Table 1: LIST OF MEDICINALLY USEFUL WEEDS

<table>
<thead>
<tr>
<th>1.</th>
<th>Abutilon indicum/ Tutiri benda (Malvaceae)</th>
<th>Ayurveda</th>
<th>Folklore uses</th>
<th>Siddha</th>
<th>Useful parts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Demulcent, aphrodisiac, laxative, diuretic, sedative</td>
<td>Demulcent, tonic, laxative, diuretic and sedative</td>
<td>Worm infestation, gingivitis, burns, cough, constipation, skin eruptions, urinary disorders, purgative, emetic</td>
<td>Leaves, bark, root, seeds</td>
<td></td>
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<tr>
<td></td>
<td>Anthelmintic, scabies, arthritis, asthma, bronchitis, headache</td>
<td>Leprosy, eczema, cough, leucorrhoea, dental diseases</td>
<td>Root, leaf, whole plant</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Diuretic, anodyne, hypnotic, laxative, emetic, expectorant, narcotic, sedative</td>
<td>Intermittent fever, worm infestations, skin diseases, eczema, urticaaria, leprosy, gonorrhoea</td>
<td>Root, seed, whole plant, latex</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Purgative, emmenagogue, alternative, antiperiodic and anthelmintic.</td>
<td>Stomachic, laxative, diuretic, expectorant, diaphoretic, emetic, edema, anemia, heart diseases, dyspnea and eye diseases.</td>
<td>Stomachic, tonic, laxative, alterative, demulcent</td>
<td>Whole plant, root</td>
<td></td>
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<tr>
<td></td>
<td>Stomachic, laxative, diuretic, expectorant, diaphoretic, emetic, edema, anemia, heart diseases, dyspnea and eye diseases.</td>
<td>Eye diseases</td>
<td>Skin diseases, eye diseases, constipation, ulcers, retention of urine</td>
<td>Leaf, seeds</td>
<td></td>
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<tr>
<td></td>
<td>Aperient, germicide, anodyne</td>
<td>Purgative, febrifuge, diuretic and antiperiodic</td>
<td>Constipation, rejuvenator.</td>
<td>Root, leaf, flower, seed.</td>
<td></td>
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<tr>
<td></td>
<td>Carminative, anthelmintic, antiseptic, sudorific, rubefacient, skin diseases, polyuria, anemia and gynecological problems.</td>
<td>Aperient, purgative, antiseptic, astringent</td>
<td>Venerable diseases, glandular swellings, fever, skin diseases, urticaria</td>
<td>Root, leaf, seeds</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stomachic, tonic, demulcent, diuretic, anthelmintic, carminative, diarrhoeic, emmenagogue, vermifuge</td>
<td>Alternative, purgative, antiseptic, astringent</td>
<td>Indigestion, ear diseases, nasal disorders, skin eruptions, fever, worm infestations, abdominal disorders, corzya</td>
<td>Root, leaf, seed, whole plant</td>
<td></td>
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<tr>
<td></td>
<td>Fever, thirst, worm infestations, dysentery and distaste</td>
<td>Tubers</td>
<td>Fever, jaundice, anemia, arthritis, leucorrhoea</td>
<td>Whole plant</td>
<td></td>
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<td></td>
<td>Fever, jaundice, anemia, arthritis, leucorrhoea</td>
<td>Root, leaf</td>
<td>Root, leaf, flower, seed.</td>
<td></td>
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<tr>
<td></td>
<td>Fever, jaundice, anemia, arthritis, leucorrhoea</td>
<td>Root, leaf, flower, seed.</td>
<td>Whole plant</td>
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<td></td>
<td>Jaundice, diabetes, eye diseases, urinary disorders, skin diseases, menorrhagia, vomiting</td>
<td>Whole plant</td>
<td></td>
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<td></td>
<td>Diseases of kidney, dysuria, haematuria, gonorrhoea, haematemesis and haemoptysis.</td>
<td>Eye diseases, anemia, headache, constipation</td>
<td>Leaf, seed</td>
<td></td>
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<td></td>
<td>Diuretic, stomachic, febrifuge, anti-septic, reduces jaundice, ophthalmopathy, fever and genitor-urinary disorders</td>
<td>Glandular swellings, skin diseases, skin diseases, leprosy, laxative, carminative, tonic ascites, stomatitis, anemia, cough, tuberculosis</td>
<td>Seeds</td>
<td></td>
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<tr>
<td></td>
<td>Stomachic, stimulant, alternative, demulcent</td>
<td>Whole plant</td>
<td></td>
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<td></td>
<td>Eye diseases, anemia, headache, constipation</td>
<td>Whole plant</td>
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<tr>
<td></td>
<td>Stomachic, laxative, diuretic, sedative, alterative, demulcent</td>
<td>Skins diseases, eye diseases, constipation, ulcers, retention of urine</td>
<td>Whole plant, root</td>
<td></td>
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<td>Carminative, anthelmintic, antiseptic, sudorific, rubefacient, skin diseases, polyuria, anemia and gynecological problems.</td>
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</table>

The medicinal uses of the weeds plants were recorded from the folklore claims and the standard literature of the Indian systems of medicine. The medicinal uses of the weeds plants used in the Indian system of medicine are enumerated as in Table 1. The list of the weeds with Botanical name, family, vernacular name, medicinal uses (Ayurveda and Siddha) and useful parts is mentioned in the alphabetical order of the botanical name of the plants. As per the collected information it was identified that plants belonging to 15 families and 16 genera are identified as weeds. Most of the weeds identified were herbs or shrubs and the medicinally useful part for most of the plants was whole plant, leaves or seeds. Several recent studies have proved the weedy plants contain many medically useful active principles (alkaloids, glycosides, polyphenolics, steroids, tannins, resins, flavonoids, tetraploids and fatty acids) that are able to cure many nutritional disorders and diseases in the human health care system.

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REFERENCES