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Some Wild Medicinal Plants Grown In Mandalay District, Mandalay Region

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Abstract

Some wild medicinal plants of Mandalay district, Mandalay Region were studied from August, 2016 to August 2017. A total of 20 species belonging to 18 genera of 11 families were collected and identified. It includes 4 trees, 3 shrubs, 9 herbs and 4 climbers. The collected wild medicinal plants were arranged alphabetically along with their scientific names, part used and medicinal uses.

Key word: Medicinal plants, Mandalay District

Introduction

Human beings are indispensably dependent on plants for their survival (Senthil Rumar, 2013). The relationship between plants and human culture is not only to use plant for their basic needs such as food, clothing and shelters but also involves their use for religious ceremonies, beauty and health care. Health is the main important factor for human being. Human searchers plant and their parts that could relieve their illness, and suffering from early history to present time. Plants have been used as medicine and diet for many centuries (Than Than Htay, 2007). In Myanmar, there are hundred of drug yielding plants growing throughout the country. Most of the plants used in Myanmar drugs are obtained from wild plants growing in all parts of Myanmar (Thet Thet May, 2008). Therefore, the present Research work focus on wild medicinal plants found in Mandalay District, Mandalay Region. The objectives of this study were to identify and document information about the medicinal plants used by local people and traditional healers of Mandalay District.

Materials And Method

The present study was carried out at Mandalay district, Mandalay Region. It is situated in the dry zone of central Myanmar. The district has a total geographical area of 353.31 square miles and the study area lies between 21° 46' 13" to 22° 10' 46" N latitude and 95° 59' 20" to 96° 17' 01" E longitude. The elevation of Mandalay district is 76 meter to 300 meter above sea level. The investigation was conducted during August 2016 to August 2017. The plant collected were pressed and mouted for identification and Herbarium specimens. Taxonomic identification of the collected medicinal plants were done with the help of authentic literatures (Hooker, 1875-1897; Backer & Brick 1963-1968; Brandis, 1971; Dassanayake, 1980-2001; Thawatchai & Kailarsen, 2008). Some medicinal information from local people who are practicing folk medicine and some old aged local people having medicinal knowledge were also gathered and listed.

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Result And Discussion

The wild medicinal plants were studied according to the flowering period, taxonomical characters of plants and collected information related to taxa with various indigenous uses especially medicinal plants of Mandalay district. A total of 20 species belonging to 18 genera and 11 families were recorded. Each medicinal plant was presented with its scientific name, followed by family, local name and medicinal uses (Table-1).

Table 1: List of medicinal plants with their medicinal uses

Sr No.	Name of Plant	Local Name	Family	Part Used	Medicinal uses
1.	<i>Acacia leucophloea</i> Willd	Hta naung	Fabaceae	Leaves, Fruit	Renal oedema cardiac, indigestion
2.	<i>Azadirachta indica</i> A. Juss	Tama	Meliaceae	Leaves, Bark flowers	Skin diseases snake bite
3.	<i>Calotropis gigantean</i> (Willd.) Dryard	Mayo gyi	Apocynaceae	Leaves, flowers, root, latex	Cough, chronic asthma, ear pain, skin disease
4.	<i>Clitoria ternatea</i> L.	Aung mae nyo	Fabaceae	Leaves, whole plants	Promotes milk production in lactating mother, urinary disorder
5.	<i>Cryptolepis buchanani</i> Roem. & Schult	Na sha gyi	Apocynaceae	Leaves	Malaria, various fevers, diabetes, urinary diseases
6.	<i>Dregea volubilis</i> Benth	Gway-dauk	Apocynaceae	Whole plant	Indigestion, dyspepsia, dysentery, diarrhea, Insect bite
7.	<i>Euphorbia geniculata</i> Orteg	Se pale	Euphorbiaceae	Leaves	Purgative constipation
8.	<i>Euphorbia hypericifolia</i>	Kywe kyaung min say	Euphorbiaceae	Whole plants	Dysentery, Diabetes, hypertension

Sr No.	Name of Plant	Local Name	Family	Part Used	Medicinal uses
9.	<i>Jatropha gossypifolia</i>	Kyet su	Euphorbiaceae	Leaves, flowers, seed	Regular menstrual cycle, fever, diarrhea
10.	<i>Leucas cephalotes</i> Spreng	Pint ku htaik peik	Laminaceae	Whole plant	Cough, asthma, eye drops
11.	<i>Ocimum americanum</i> L.	Pin sein	Laminaceae	Whole plant	Diuretic, tonic
12.	<i>Phyllanthus emblica</i>	Zi byu	Euphorbiaceae	Fruits	Fever, cough and asthma
13.	<i>Scoparia dulcisl.</i>	Danta thu kha	Scrophulariaceae	Whole plants	Tooth ache, cirrhosis of liver, herpes infection
14.	<i>Solanum americanum</i> Mill.	Baung laung nyo	Solanaceae	Whole plants	Stomach ulcer
15.	<i>Solanum torvum</i> Swartz	Khayan ka zaw	Solanaceae	Fruit	Weakness, leucorrhoea, irregular menstruation
16.	<i>Tinospora cordifolia</i> (Willd.)	Sin ton ma-nwe	Menispermaceae	Roots	debility, fever and urinary disease
17.	<i>Trichodesma indicum</i> (L.) R. Br		Boraginaceae	Leaves and roots	Diuretic and dysentery
18.	<i>Tridax procumbens</i>	Nay Kyar Lay	Asteraceae	Whole plants	Wound healing anti-diabetic activity
19.	<i>Vitex negundo</i> L.	Kyaung pan gyi	Laminaceae	Leaves and roots	Eczema, skin diseases, gout and backache
20.	<i>Urena lobata</i> L.	Kat se ne	Malvaceae	roots	Urinary disorder

Based on life forms, plants are categorised as 9 herbs, 4 climbers, 3 shrubs and 4 trees. Mostly plants are belonging to different families viz-Fabaceae, Meliaceae, Apocynaceae, Euphorbiaceae, Laminaceae, Scrophulariaceae, Solanaceae, Menispermaceae, Boraginaceae,

Asteraceae, and Malvaceae. During the study, Euphorbiaceae was the dominant family with 4 species followed by Apocynaceae 3 species, Lamiaceae 3 species, 2 families represented by Fabaceae and Solanaceae, 6 families represented single species. Among different plant parts used by local people, the leaves are used most frequently to cure wounds and they applied mostly on the external surface of the body. According to the resulting data, it is observed that local people used various plants or plant parts as medicine for the treatment of several diseases such as fever, diarrhea, dysentery, skin diseases, Renal oedema, cough, asthma, diabetes, backache, stomachache, ulcers, cold, toothache, etc. these plants are also used by the local herbal healers as traditional medicines.

In conclusion, the present investigation revealed that will medicinal plants still play a vital role in the primary health care of people.

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