

## Ethnomedicinal plants used to cure skin diseases among the peoples of rural and tribal of hathras district of Uttar Pradesh (India)

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### Abstract

Hathras is Western district of Uttar Pradesh (India) is inhabited by a large number of rural and tribal peoples. A survey was carried out to study the ethnomedicinal plants used by these peoples of Hathras district of U.P. (India). Through survey a total number of 24 plant species belongs to 20 families were used by the indigenous to treat the skin ailments were enumerated. Plants were listed in tabular form along with families, Hindi name of the plants and made of the application.

**Keywords:** ethnomedicinal plant, cure skin diseases, Hathras, U.P., India

### 1. Introduction

Hathras district is located in the Western part of Uttar Pradesh (India). It is bounded in the East by Etah, in the West by Mathura, in the North by Aligarh and in the South by Agra district. Hathras district is lies between 20.4<sup>0</sup>-29<sup>0</sup> North Latitude and 76<sup>0</sup>-77<sup>0</sup> East Longitude, covering an geographical area of about 175.6 sq. km and surrounding area about 76.5 sq. km. About 398 hectare land area of Hathras district is covered by forest. Hathras district is divided into 4 Tehsils: Sikandra Rao, Hathras, Sadabad, Sasni and 7 Blocks: Hasayan, Sikandra Rao, Hathras, Mursan, Sahpau, Sadabad and Sasni. The Hathras district is under humid and sub-tropical climate.

Medicinal plants have been playing an important role in the survival of rural and tribal communities, who live in the remote villages and forests. The rural and tribal people's races throughout the world have developed their own culture and medicinal knowledge. A large number of wild and cultivated plants are being used by them for the treatment of various ailments, thus a considerable amount of information on medicinal plants is available with these peoples. Although different workers have documented the used of various medicinal plants from different part of Uttar Pradesh. The Present study carried out on the Hathras district of Uttar Pradesh (India) is only an attempt to document the traditional knowledge

of medicinal plants used by rural and tribal peoples.

### 2. Materials and Methods

The field survey were undertaken covering all seasons for gathering information on ethnomedicinal plants among the rural and tribal peoples by conducting survey in different villages of Hathras district of Uttar Pradesh (India) during 2014-2015. Methodologies as suggested by Siddique *et al.* 1995<sup>[6]</sup>; Kirtikar *et al.* 1918<sup>[5]</sup> Singh, *et al.* 2003<sup>[7]</sup>; Jain, 1989<sup>[3]</sup> and Singh & Subramanyam, 2008 were followed during collection, preservation and maintenance of the specimen. A large number of flora were consulted specially of Flora of British India, Vol. 1-7 (Hooker, 1872-1897)<sup>[2]</sup>. Forest Flora of Dehradun (Kanji Lal *et al.*, 1969)<sup>[4]</sup>, Glossary of medicinal plants (Chopra *et al.*, 1956)<sup>[1]</sup> for proper identification of collected specimens.

### 3. Results and Discussion

Present investigation reported 24 plants species belonging to 20 families from the Hathras district of Uttar Pradesh (India). For each medicinal plant species, the following information was provided, botanical name, plant family, local name, plant parts used, method of preparation as shown in Table-1. From this study it was found that the rural and tribal peoples are still used herbal medicine to cure different types of skin diseases.

**Table 1:** Botanical name, local name, family and plant parts used by rural and tribal peoples of Hathras district of Uttar Pradesh, India.

S. No.	Botanical Name	Local Name	Family	Plant Parts Used
1.	<i>Abutilon Indicum</i> Linn.	Kanghi Or Tepari	Malvaceae	Roots Extract Are Used To Cure Skin Diseases And Fever
2.	<i>Achyranthes Aspera</i> Linn.	Lajira	Amaranthaceae	Roots And Whole Plants Are Used In Dropsy, Piles, Boils, Colic, Snake Bite And Skin Eruptions
3.	<i>Adina Cordifolia</i> Roxb.	Haldu Of Kadam	Rubiaceae	Leaves And Bark Juice Is Used To Kill Worms In Sores, Antiseptic And To Cure Skin Disease
4.	<i>Andrographis Paniculata</i> Nees	Kalmegh	Acanthaceae	Paste Formed From Entire Plant Is Applied Externally For Skin Diseases
5.	<i>Aristolochia Bracteata</i> Linn.	Kiramar	Aristolochiaceae	Juice Of Leaves Is Applied To Foul And Ulcers And Juice Mixed With Castor Oil Applied For The Treatment Of Eczema And Skin Diseases

6.	<i>Artocarpus Integrifolia</i> Linn.	Kanthal	Moraceae	Leaves Paste Used In Skin Diseases And Antidote To Snake Bite.
7.	<i>Azadirachta Indica</i> Linn.	Neem	Meliaceae	Leaves Are Boiled With Water Till Dark Green Colour Then Applied To Whole Body For 5 Days To Treat Skin Diseases And Small Pox.
8.	<i>Bauhinia Variegata</i> Linn.	Kachnar	Caesalpiniaceae	Bark Juice Are Used As Tonic In Skin Diseases And In Ulcers
9.	<i>Calotropis Procera</i> Linn.	Madar Or Ak	Asclepiadaceae	Leaves And Flowers Are Used In The Treatment Of Cold, Cough, Asthma And Skin Diseases
10.	<i>Callophyllum Inophyllum</i> Linn.	Sultana Champa	Guttiferae	Seeds Oil Are Sused For The Treatment Of Skin Diseases And For Application In Rheumatism.
11.	<i>Cannabis Satina</i> Linn.	Bhang, Charas, Ganja	Cannabinaceae	Leaves And Flowers Extract Used As Tonic, Intoxicant, Antiseptic, Analgesic, Marcotic, Sedative And Skin Diseases
12.	<i>Cassia Tora</i> Linn.	Chakunda	Caesalpinaceae	Leaves And Seeds Are Used In Skin Diseases And Ringworm Roots Are Used In Snake Bite
13.	<i>Holoptelea Integrifolia</i> Plan.	Papri	Ulmaceae	Juice Of Boiled Bark Is Used For The Treatment Of Rheumatism, Swelling And Skin Diseases
14.	<i>Jatropha Curcas</i> Linn.	Bagbherenda Or Kattamanakka	Euphorbiaceae	Milky Juice Of The Plant Is Useful In Scabies, Eczema, Ringworm, Wound And Skin Diseases
15.	<i>Mimosa Pudica</i> Linn.	Lajwanti	Mimoseae	Whole Plant Boiled With Water Is Used To Cure Skin Diseases.
16.	<i>Nerium Indicum</i> Linn.	Kaner	Apocynaceae	Oils Prepared From Root Bark Is Used In Skin Diseases Of A Scaly Nature And In Leprosy. Leaves Are Used To Reduce Swelling.
17.	<i>Nicotiana Tabacum</i> Linn.	Tambaku	Solanaceae	Leaves Are Used In Rheumatic Swelling, Skin Diseases, For Scorpion Sting And As Fish Poison
18.	<i>Pterocarpus Marsuplum</i> Roxb.	Bijasal	Fabaceae	Crushed Leaves Are Useful Externally Applied To Boils Sores And Skin Diseases.
19.	<i>Pterocarpus Santalinus</i> Linn.	Rakta Chandan	Fabaceae	Wood Paste Is Astrin, Tonic And Used As Cooling Externally For Headache In Biliary Affections And Skin Diseases, In Fever, In Scorpion Sting And Diabetes.
20.	<i>Solanum Nigrum</i> Linn.	Makoi	Solanaceae	Juice Of Plants Are Used For The Treatment Of Liver, Blood Spitting, Piles, Dysentery And Skin Diseases
21.	<i>Tagetes Erecta</i> Linn.	Genda	Compositae	Leaves Paste Are Used For The Treatment Of Boils, Scabies And Skin Diseases
22.	<i>Terminalia Catappa</i> Linn.	Jangli Badam	Combretaceae	Juice Of Young Leaves Are Employed To Prepare An Ointment For Leprosy, Scabies And Other Skin Diseases.
23.	<i>Wedelia Chinensis</i> Merr.	Bhringaraj	Compositae	Leaves Are Useful In Cough Cephalalgia, Alopecia And In Skin Diseases
24.	<i>Withania Somnifera</i> Dunal	Ashwagandha	Solanaceae	Brushed Leaves And Ground Roots Are Used In Painful Swelling Ulcer And Skin Diseases

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