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Role of medicinal plant species in immunity booster against covid-19 Pandemic

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Abstract

The investigation was carried out the medicinal plant of Hathras district of Uttar-Pradesh (India) over all 10 plants species studied and belong to 10 Families have medicinal properties for immunity booster against corona virus. These plant species used in different types of pharmaceutical companies preparation of medicine and Kada kit against covid-19 pandemic viz. *Azadirachta indica*, *Convolvulus pluricaulis*, *Adhatoda vasica*, *Withania somnifera*, *Centella asiatica*, *Ocimum tenuiflorum*, *Tinospora cordifolia*, *Terminalia arjuna*, *Boerhaavia diffusa*, *Asparagus racemosus* etc.

Keywords: Medicinal plant, immunity booster, covid-19 etc.

Introduction

Hathras district is located in the Western part of Uttar-Pradesh India. It is bounded in the East by Etah district, in west by Mathura district in North by Aligarh district and south by agra district. The Hathras district lies between 20.4°- 29° North Latitude and 76°-77° East Longitude, covering an geographical area of about 175.6 sq. Km and surrounding area about 76.5 sq. Km about 398-hectare area covered by forest. Hathras district is divided into 4 Tehsil: - Sikandra Rao, Hathras, Sadabad, Sasni and 7 blocks Hasayan, Sikandra Rao, Mursan, Sahpau, Sadabad and sasni. The Hathras district is under humid and sub-tropical climate 10 medicinal plant have been playing an important role in immunity booster against corona virus in population of Hathras district of Uttar Pradesh 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 corona virus, 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 is only an attempt to document the tradicinal knowledge of medicinal plants used as a immunity booster during covid-19 virus pendemic by the population of Hathras district of Uttar Pradesh (India).

Material and Method

The field investigation were undertaken covering all season for gathering information on medicinal plants among the population by conducting survey in different villages of Hathras district of Uttar-Pradesh (India) during 2020-2021 Methodologies as suggested by Siddiqui *et al.* 1995^[6], Kirtikar *et al.* 1918^[5] Singh *et al.* 2003^[7] Jain 1989^[3], Singh & Subramanyam 2008^[8], Singh 2017^[9], Singh 2021^[10] were followed during collection, preservation and maintenance of the specimans. A large number of flora were consulted especially of Flora of British India, vol,1- 7 Hooker, 1872-1897, Forest flora Dehradun Kanjilal *et al.*, 1969, Glossary of medicinal plants Chopra *et al.*, 1956^[1], for proper identification of collection specimans.

Result and Discussion

Present investigation reported 10 medicinal plant species belonging to 10 families from the Hathras district of Uttar-Pradesh (India) for each medicinal plant species, the following information was provided botanical name, local name, plant family, plant parts used in immunity booster root leaves, stem, flower & fruits powder mixed with honey once daily one week to improve the immunity of human body.

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The all 10 medicinal plant is immunity booster against corona virus given below.

1. *Azadirachta indica* Linn

Local Name: Neem

Family: Meliaceae

Medicinal use

The *Azadirachta indica* leaves are used for leprosy, eye disorders, bloody nose, Intestinal worms, Stomach upset, skin ulcers, disease of the heart and blood vessels, fever, diabetes and liver problems. The leaf is also used for birth control and to cause abortion, Neem Bark is used for against coronavirus specially reported by local vaidhyas.



Fig 1: *Azadirachta indica* Linn

2. *Convolvulus pluricaulis* choisy

Local name: Shankpushpi

Family: Convolvulaceae



Fig 2: *Convolvulus pluricaulis* choisy

Medicinal use

Shankpushpi is a perennial herb. The whole plant used in manage of digestion and constipation due to its mild manage of digestion and constipation due to its mild laxative

properly. It improves mental health and might help in managing depression. The Shankpushpi powder along with milk and water is help in boost memory and concentration and all part used in Brain tonic.

3. *Adhatoda vasica*

Local Name: Vasaka/Aroosa

Family: Acanthaceae



Fig 3: *Adhatoda vasica*

Medicinal Use

It has been used for the treatment of various disease and disorders, particularly for the respiratory tract and leaf powder used in Anti-ulcer. It is reported by Dai and Validays.

4. *Withania somnifera* (L) Dunal

Local Name: Ashwaganda

Family: Solanaceae



Fig 4: *Withania somnifera* (L) Dunal

Medicinal Use

Withania somnifera commonly called Ashwaganda is a winter cherry. It is used in treatment of illness including

Asthma, Diabetes, Hypertension, Stress, Arthritic and cancer diseases. The whole plant part used in Ayurvedic medicines. It is reported by Ayurvedic Practitioners.

5. *Centella asiatica* Urb**Local Name:** Brahmi**Family:** Apiaceae (Umbelliferae)**Fig 5:** *Centella asiatica* Urb**Medicinal Use**

The whole plant of *Centella asiatica* is the wound healing herb recommended for the treatment of various skin conditions such as Leprosy, Ulcers, Eczema, Psoriasis,

diarrhoea, Fever diseases of the Female genitourinary tract and also for relieving anxiety and improving cognition. It is reported by villagers.

6. *Ocimum tenuiflorum* Linn.**Local Name:** Tulsi**Family:** Lamiaceae (Labiatae)**Fig 6:** *Ocimum tenuiflorum* Linn

Medicinal Use

Traditional system of medicine use of *Ocimum tenuiflorum* different parts leaves, stem, flower, root, seeds and whole plant used in treatment of bronchitis, bronchial asthma, malaria, diarrhoea, dysentery, skin diseases. Tulsi helps

reduces the uric Acid levels in Blood. It help in cleanse the Kidneys, the presence of acetic Acid and other components in its essential oil help in breaking down kidney stones. It is reported by Brahmin community.

7. *Tinospora cordifolia* Willd

Local Name: Giloy

Family: Menispermaceae



Fig 7: *Tinospora cordifolia* Willd

Medicinal use

Tinospora cordifolia (Giloy) removes toxins from the body and Blood purifier and fights Bacteria. It is especially beneficial for peoples with liver disease. Giloy is used for

diabetes, high cholesterol and immunity booster of human beings against covid 19 virus. It is reported by tribal community.

8. *Terminalia arjuna* wt & Arn

Local name- Arjun Family- Combretaceae



Fig 8: *Terminalia arjuna* wt and Arn

Medicinal uses

Terminalia arjuna (Arjun) has various medicinal properties like antioxidant, anti-inflammatory and antimicrobial. Arjun help reduce the risk of Heart diseases. It strengthens and tones the heart muscles and help in proper functioning of the heart. Arjuna tree bark help in reduce high blood pressure. Its bark decoction is being used in the Indian subcontinent for anginal pain, hypertension, congestive heart failure etc. It is reported by Tribal community.

9. *Boerhaavia diffusa* Linn

Local Name: Punarnava

Family: Nyctaginaceae



Fig 9: *Boerhaavia diffusa* Linn

Medicinal uses

Punarnava help to correct digestive fire and reduce Ama to its Deepan (appetizer) and pachan (digestive) properties. It also has vata balancing and Mutral (Diuretic) properties which gives relief from the symptoms of Rheumatoid arthritis like pain and swelling in the joints. Punarnava is an Ayurvedic liquid dosage from containing self-generated alcohol is commonly used to treatment of inflammatory condition and edema. It is used in various disease viz. Liver, Kidney, Diabetes, Eye, Stomach disorder, Anemia, Bronchial asthma etc. It is reported by local Baidhyas and Ayurvedic practitioners.

10. *Asparagus racemosus* willd

Local name: Satawar

Family: Liliaceae



Fig 10: *Asparagus racemosus* willd

Medicinal use

Mainly use of its root (4-5gm) are ground given once early morning with milk for 30-40 days control for menstruation disorders. Such statement has been made by persons suffering from genetal disorder. Asparagus racemosus used for upset stomach, constipation, and stomach ulcers. It is also used for fluid retention, pain, anxiety, cancer, diarrhea, bronchitis, tuberculosis etc. It is useful of increase sexual desire. It is reported by Ghosi community.

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