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A review on medicinal plant Neem (Azardirachta indica):

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ABSTRACT

Neem, the tree has been largely used in Naturopathy, Unani and Homoeopathic medicine and has become a lodestar of current medicine. It is consists of dried steam bark, roots bark, leaves and fruits of Azardirachta indica or Melia Azardirachta. All parts of the neem tree viz., leaves, flowers, seeds, fruits, roots and bark have been used traditionally for the treatment of inflammation infections, fever, skindiseases indicates and the second second

Neem family are Meliaceae. Mostly it is found in pakistan, Sri Lanka, Indonesia, tropical regions of Africa and Australia.

Keywords:Neem compounds , collection, cultivation,, medicinal uses

Introduction-

Neem is found in in india uttar pradesh, maharashtra, Tamil Nadu, Madhya Pradesh, Rajasthan. In Sanskrit a "good health" condition is expressed as "Nimba" (Sitasiwi et al., 2018), which on due time derived in to "Neem", further the tree is considered as "Sarvaroga nivarini" means cure all ailments. In Ayurveda neem is known as "Arishtha" meaning 'reliever of sicknesses. The tree is still regarded as "village pharmacy" or "Divine tree" due to presence of medicinal properties in India.

Neem compound-

1. Bark- The neem bark contains chemical constituents are nimbin, stearic acid, small amount of lauric acid, oleic acid nimbinin, nimbidin,

2. Flowers- Neem flowers contain flavonoid. Nimbicetinis identical to kaempferol.

3. <u>Neem oil</u> –Neem oil contains Sulphur ; a very bitter yellowish substance obtained from the alcoholic extract of the oil, which is supposed to be an alkaloid; resins; glucosides and fatty acids.

4.)Neem seeds- Meliacins found in the seeds include gedunin,7-desacetylgedunin, desace-tylnimbin and azedarachtin. The seed oil mainly chemical constitents mainly contains nimbidin, nimbin and nimbinin.

Collection and Cultivation of Neem-

Neem trees are typically cultivated from seeds or seedlings, and collection involves harvesting ripe fruits, extracting seeds, and preparing them for planting. Cultivation requires suitable climate, soil preparation, planting methods, and ongoing care like weeding, irrigation, and fertilization.

Cultivation: Fruits are harvested when they are fully ripe, and the pulp is removed from the seeds, which are then air-dried for storage. Seeds can be sown directly in the field or seedlings can be transplanted. Pruning is also beneficial for controlling shape and size.

Collection:

Harvesting of fruit: Neem fruits are typically harvested by shaking them off the tree or collecting them directly from the branches.

Seed Extraction: The seeds are extracted from the ripe fruits by removing the pulpy flesh, often done by rubbing the fruit against a coarse surface and then washing the seeds.

Drying - Using sunlight dry the seed of neem and others methods can follow.

Seed Storage: Dried seeds can be stored for planting, although seed viability may decline over time.

Medicinal uses of Neem

1) Strengthen gums and fights bacteria: Neem's antibacterial properties help combat harmful bacteria that cause plaque, cavities, and gum infections.

2) Antiviral: Neem leaves have been used to treat smallpox , chicken pox and wart.

3) Fresh breath: Chewing neem twigs can freshen breath and help remove bad odor.

4) Anti-inflamatory: Neems anti-inflammatory properties can help relieve pain and inflammation, including those associated with arthritis.

5) Teeth whitening: Neem may help remove yellowish discoloration and make teeth appear whiter.

6) Treats skin conditions: Neem is used for various skin conditions like acne, eczema, impetigo, and psoriasis.

7) Antiseptic- It is effective for treating the skin conditions like heat, boils, ulcers and eczema and treating the infection .

8) Wound healing: Its antiseptic properties help heal minor cuts, burns, and abrasions, preventing infection.

Conclusion-

In conclusion, A class of medicine those are capable of inhibiting the growth, development or death of microorganisms in the environment surrounding the patient or on surface of the body. Neem she generally antiseptic and disinfectant properties, when applied antiseptic in to the body, while disinfectant are applied are to the non living surfaces. This is class of the drug used to treat the wounds and other the urinary tract, gastrointestinal tract. Considering the immense importance of this "Kalpavriksha" it can be explored for economic and therapeutic utilization for a sustainable development.

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