Literature survey of black nightshade (Solanum Nigrum Linn)

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ABSTRACT
Night blackshade (Solanum Nigrum) is an important Medicinal plant widely used in the unani system of Medicine. (Family – Solanaceae). The plants are cultivated throughout the country in dry part. Common in cultivated lands, road sides and garden. The plants are prescribed in various ailment like – Ascites, Piles, Chronic Cirrhosis of the liver, Gonorrhoea,Gouty joints and various skin disorders. Through this paper, effort has been to collect the information on Medicinal properties of Mako (Solanum Nigrum) plant species.

Keywords: solanum nigrum linn, manathakkali, black nightshade, makho.

1. INTRODUCTION
Solanum Nigrum (L.) is commonly known as night black shade or Makho is belonging to the Solanaceae family. Its two varieties are found, one is bearing black fruit and other one has reddish brown colour fruit. In both varieties species. Black colour fruits are toxic. The whole plants, leaves and roots are used to health point of view. All the parts of the plants are used in the therapeutic effects from ancient periods. These plants are one of the largest and most variable species in the genus. Various components are identified which are responsible for the diverse activities. Makho is widely used in many traditional system of medicine but are not able to attention for their modern therapeutic use.

2. BINOMIAL CLASSIFICATION
Kingdom : plants
Subkingdom : vascular plants
Super division : seed plants
Division : flowering plants
Class : dicotyledons
Subclass : solanales
Genus : nightshade
Species : black nightshade

3. FAMILY
Solanaceae

4. VERNACULAR NAME:
Tamil : Manathallaki, Milagathakkali, Manatakali
Telugu : Kasaka
Urdu : Makoya
English : Black night shade
Hindi : Makoi
Malyalam : Milagu Thakkali
Assamese : Kochi, Los Kochi.

5. LOCAL NAME:
Argentina : Yerba Mora, Taiwan : Lung – kwel, USA : Black night shade, Pakistan : Kanper makoo, Denmark – Sort natskgge , India : Makhoi, nunununia, Australia : Black berry night shade.

6. BOTONICAL DESCRIPTION
Black nightshade is a common herb (or) short lived perennial sherb. They are found in many wooded area and disturbed habitats. It reached the height is 30 to 120cm (12 to 47 inches), leaves 4.0 to 7.5cm (1.6 to 3.0 inches) long and 2 to 5 cm(1 to 2 inches ) wide. They are ovate to heart shaped. The wavy (or) large – toothed edges. Both surface are hairy (or) hairless. The petiole 1 to 3 cm (0.5 to 1 inches) Long with a winged upper portion. The flowers have petals and they are greenish to white recurved when aged. Then they surround prominent bright yellow anthers. The berries are mostly 6 to 8mm (0.24 to 0.31 inches) in diameter, dull black or purple-black. In India, the another strains berries are found with the berries that are turned red when ripe.

7. DISCRIPTION OF SOLANUM NIGRUM:
Solanum nigrum is a widely used drug in the form of different systems of medicine. They are prescribed in the various disease to cure. The general description of drug given below:
• Temperant: cold 2º- dry 2º, seeds are germinate the alternative temperature like (20 to 30ºC)
• Taste: pungent and bitter, Root (powder)- tasteless
• Colour: fruits-green colour, dry-red colour; leaf-green colour; root-creamish in white colour; seed-white, yellow, brown.
• Odour: characteristic odour and pleasant.

8. PARTS USED
Leaves, fruits, berries, stem, root.
9. RECORDED USE
Australia: the vegetables are used in old cultures in NW. The chads are eaten by birds.
Ethiopia: the fruits and leaves are edible. When the edible fruits are black (or) violet.
Nigeria: the leaves are used as a spinach.
Tanzania: leaves are boiled and vegetables are eaten. Green fruits are edible, roots are eat raw for the stomach ache.

10 DOSE
7 to 10 grams

11. ACTION
✓ Anti-inflammatory
✓ Antiemetic
✓ Antidiarrheal
✓ Antidysenteric
✓ Pain killer for headache
✓ Carminative
✓ Demulcent

12. USE
✓ Gastritis
✓ Hepatitis
✓ Arthritis
✓ Ophthalmia
✓ Skin disease

13. CHEMICAL CONSTITUENTS
The chemical constituents are found in
✓ Glycol alkaloids
✓ Sola margine
✓ Solasonine
✓ Solanine
✓ Alpha and beta solamargine
✓ Solasodinsolanidine (0.09 to 0.65)

14. PHARMACOLOGICAL ACTIVITIES:
Antimicrobial activity:
Khizar Abbas et al., study was investigated the antimicrobial activity of pet ether, acetone, chloroform, dichloromethane and water extraction of two solanaceous plants. On the basis of results are obtained, it include the methanolic extracts of plant species against all the micro organism. The current study are the possible of antimicrobial as well as antifungal activity of fruits extracts of the plants.

Antibacterial activity:
Kavishankar et al., (2011) studied on the antibacterial activity of the methanol and water extracts of solanum species. They are all against with microorganisms are E.Coli, staphylococcus aureus, entero bakteriogenes. On the results are obtained the methanolic extracts of SO leaves the best result for antibacterial activity.

Antifungal study:

15. CONCLUSION
The revealed that paper the therapeutic importance of solanum nigrum as evident and they recent research are performed on it. The plant of makho are the most important are indicated in liver, kidney, stomach and the joint diseases etc. the recent research scholars are validated the plants are used in hepatitis, arthritis, anti inflammatory, liver tonic, various skin disease are include. Many phytochemical and pharmacological studies are performed on the drug for its present time.

16. REFERENCES
