

Formulation of Herbal Medicine on COVID-19 from *Azadirachta indica*, *Ocimum sanctum* and *Citrus limon*

Shrikrushna Rajendra Jagadale *

*pratibhatai pawar collage of pharmacy

University: dbatu lonere Raigad, Maharashtra, India

Abstract:- Covid-19 is the respiratory disease caused by novel corona virus. Antibiotic does not works on it. Since there is no any vaccine developed further, so some antiviral drugs are used i.e Hydroxychloroquine sulphate. Which is chemical based and having lot of side-effects like nausea, vomiting, stomach pain, hair loss etc.

To overcome these problems the use of herbal medicine is better way. Herbal medicines are effective, safe, eco-friendly and cheaper as compare to chemical based.

Keywords:- Herbal, Safe, Antiviral, Cost effective, Covid-19 repellent.

I. INTRODUCTION

Covid-19 is the major problem in all the world. It causes by corona virus. This disease have high risk of infection in low immune power persons . Hence to increase the immunity this product is helpful.

This product have antiviral property as well as have tenancy to increase immunity. So it is very effective in the treatment of Covid-19. This product is 100% herbal based so have no any risk of side-effects, it is always good for body. It is effective on diabetes, cancer and other stomach problems like diarrhoea, hence it increases immunity.

This product contains,

- A. *Azadirachta indica*
- B. *Ocimum sanctum*
- C. *Citrus limon*

A. *Azadirachta indica* :

- Common name : Neem
- Scientific name : *Azadirachta indica*
- Kingdom : Plantae
- Division : Magnoliophyta
- Class : Magnoliopsida
- Order : Sapindales
- Genus : *Azadirachta*
- Species : *A. indica*
- Family : Meliaceae



Fig 1

Neem trees are fast growing, medium-sized trees having height 50 to 65 feet. Its trunk is strong and straight. The pinnate leaves are purple red when young, and green when mature. It has many medicinal properties, some of them are as follows:

- Antiviral
- Anti-inflammatory
- Antioxidant
- Increases immunity
- Antibacterial

B. *Ocimum sanctum* :

- Common name : Tulsi
- Scientific name : *Ocimum sanctum*
- Kingdom : plantae
- Division : Magnoliophyta
- Class : Magnoliopsida
- Order : Lamiales
- Genus : *Ocimum*
- Species : *O. Tenuiflorum*
- Family : Lamiaceae

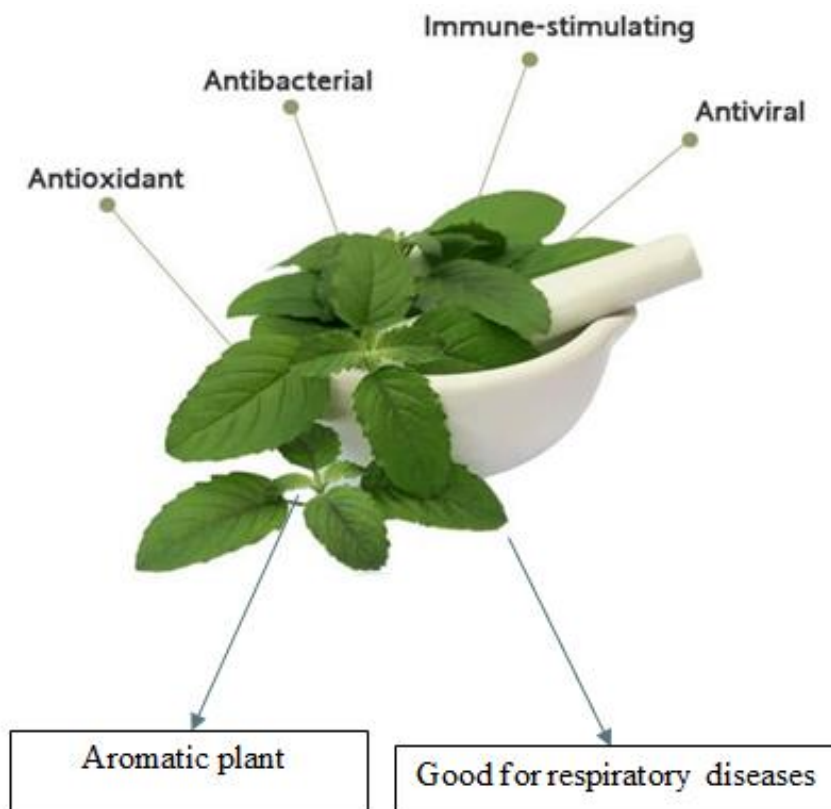


Fig 2

C. *Citrus limon* :

- Common name : Lemon
- Scientific name : *Citrus limon*
- Kingdom : Plantae
- Division : Magnoliophyta
- Class : Magnoliopsida
- Order : poales
- Genus : *Citrus*
- Species : *C. Limon*
- Family : Rutaceae



Fig 3

The lemon is a small tree having 12 to 20 feet height. It comes from Asia having oval shaped yellow fruit, which have nutritious value.

It has following properties:

- Anti diarrhoeal
- Vitamin c
- Citric acid
- For relaxation
- Flavouring agent
- Increase immunity

II. MATERIAL USED

- Azadirachta indica leaves
- Ocimum sanctum leaves
- Citrus limon fruit (lemon)
- Distilled water
- Round bottom flask (RBF)
- Weighing balance
- Measuring cylinder
- Filter paper
- Beaker
- Water bath

III. EXPERIMENTAL METHODOLOGY

- Take clean and dry round bottom flask (RBF) .
- Weigh 5 gm of neem leaves and add it to RBF.
- Take 50 ml distilled water into the RBF having neem leaves.
- Now take another RBF and add 6 gm of tulsi leaves.
- Add 50 ml distilled water to the RBF having tulsi leaves.
- Place both the RBF in water bath to boil for 30 min.
- Allow to cool after 30 min boiling

- Mix properly both the products and filter it with filter paper.
- Now add lemon juice as a flavouring agent to make product slightly acidic.
- Maintain the volume up to 100 ml with distilled water.
- Fill the product in tightly packed container and label it.

IV. DISCUSSION

Covid-19 is the respiratory disease and hence the medicine should be administered by nebulizer for better results.

V. CONCLUSION

This medicine have antiviral property and hence stop or inhibit the viral growth having ability to cure Covid-19. More effective when administered by nebulizer.

REFERENCES

- [1]. <http://www.jiva.com/ayurveda/about-ayurveda/367.html>
- [2]. https://commons.wikimedia.org/wiki/Citrus_%C3%97_limon
- [3]. http://www.infinityfoundation.com/mandala/t_es/t_es_agraw_neem.htm
- [4]. *Encarta World English Dictionary (1999)* , *Neem* page 1210, st. Martin's press, New York.
- [5]. <http://www.theplantlist.org/tp11.1/record/kew-137105>