



SILVER NANO

PARTICLES- *Antimicrobial/Antiviral Kit*

@NANOLIFE

-For

Coronavirus

Ref No.: DNA/RD-001

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Why SILVER NANOPARTICLES(SNP) will be effective against CORONAVIRUS?



- SNP - antiviral activity proven*
- SNP acts against many viruses like HIV, Respiratory syncytial viruses etc*.
- Hence it is proposed that SNP will be effective against CORONA VIRUS

* <https://www.mdpi.com/1420-3049/16/10/8894/pdf>



Coronavirus & HIV -both are from the RNA virus family.

As per a report in THE LANCET,

- Anti-HIV drug Lopinavir & Ritonavir is used to treat 2019-nCoV infected patients⁺
- SNP exerts anti HIV activity^{*}

SNP may be used as PROPHYLACTIC & TREATMENT for 2019-nCoV(coronavirus)

[*https://jnanobiotechnology.biomedcentral.com/articles/10.1186/1477-3155-8-1](https://jnanobiotechnology.biomedcentral.com/articles/10.1186/1477-3155-8-1)

[*https://www.eurekalert.org/pub_releases/2020-01/tl-pss_1012920.php](https://www.eurekalert.org/pub_releases/2020-01/tl-pss_1012920.php)

SNP Proven Antiviral against several types of viruses *

- Human immunodeficiency virus
- Hepatitis B virus
- Herpes simplex virus
- Respiratory syncytial virus
- Monkey pox virus.

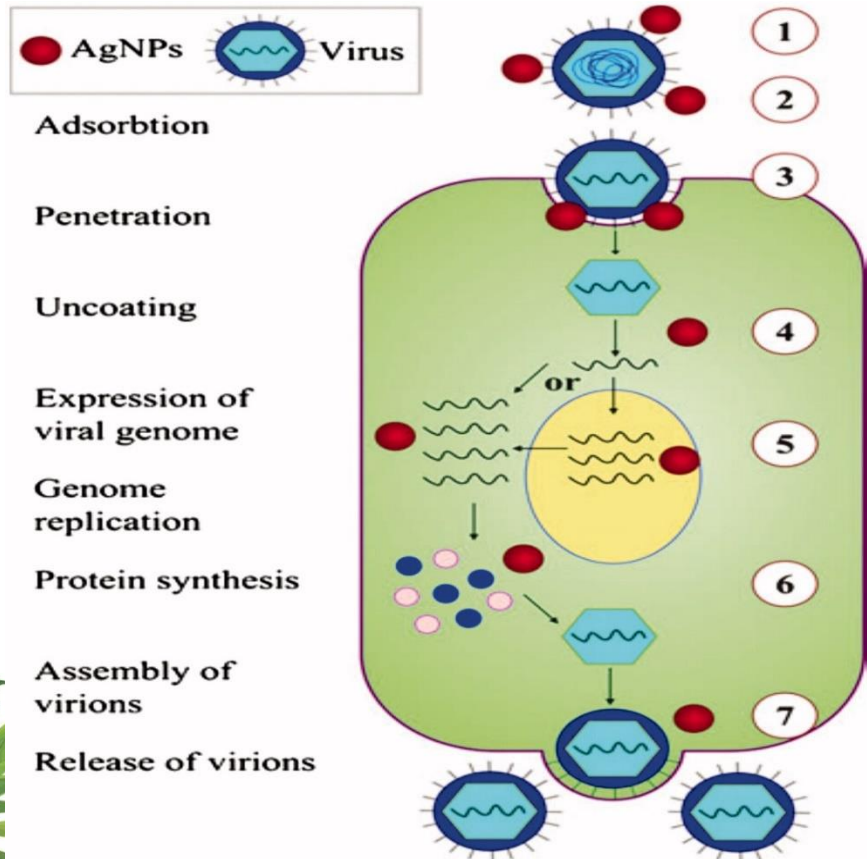
* <https://www.mdpi.com/1420-3049/16/10/8894/pdf>

Will CORONAVIRUS be susceptible to silver nanoparticles?

- SILVER NANOPARTICLES has following activities
 - Antibacterial
 - Antifungal
 - Antiviral
- # Till date no resistance from organism
- # SAFE FOR HUMAN USE- both external and internal use.
- DNA'S VISHARI (containing Silver nanoparticles) is recommended for preventing and helps in treating Coronavirus.
- Treatment Dose :
 - Recommended 15 ml twice a day till the symptom persist.
 - Preventive dose:
 - Recommended 5 ml twice a day

Antiviral activity

Mechanism of antiviral effect of Silver Nanoparticles(Ag-NP) on different stages of virus replication*:



1. Interaction with viral surface,
2. Interference with viral attachment,
3. Inhibition of virus penetration into the cell,
4. Interaction with viral genome,
5. Inhibition of genome replication,
6. Inhibition of protein synthesis, and
7. Inhibition of assembly and release of virions.

*<https://www.tandfonline.com/doi/full/10.1080/21691401.2>

[017.1307208](https://doi.org/10.1080/21691401.2)

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WHO recommendation for prevention of coronavirus

- Avoiding close contact with people suffering from acute respiratory infections.
- **Frequent hand-washing**, especially after direct contact with ill people or their environment.
- People with symptoms of acute respiratory infection should practice cough etiquette (maintain distance, cover coughs and sneezes with disposable tissues or clothing, and **wash hands**).
- Within healthcare facilities, **enhance standard infection prevention and control practices** in hospitals

https://www.who.int/docs/default-source/coronaviruse/situation-reports/20200202-sitrep-13-ncov-v3.pdf?sfvrsn=195f4010_6

Protect yourself and others from getting sick

Wash your hands



- after coughing or sneezing
- when caring for the sick
- before, during and after you prepare food
- before eating
- after toilet use
- when hands are visibly dirty
- after handling animals or animal waste



Wash your hands

Wash your hands with soap and running water when hands are visibly dirty



If your hands are not visibly dirty, frequently clean them by using alcohol-based hand rub or soap and water



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Silver in Ayurveda

- Silver is used for its medical benefits since thousands of years
- Rajata Bhasma (Silver) is a Rasayana which can help in treatment of conditions like Fever, Cough, Diabetes and infectious diseases like TB.
- Rajata Bhasma is Nourishing in nature and Vata pitta hara.



Infection Prevention

Hygiene - Prevention of Direct & Droplet spread of infections

Preventive Medicines -To Improve Immunity and fight infections

Key to good Health: Clean Hands

- According to the Center for Disease Control (CDC) -
- 22 million school days are lost each year due to the common cold.
- Washing hands / using hand sanitizer can prevent Direct spread of infections



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Oral Hygiene

- Droplet infection
- Common infections can spread by droplet transmission like: Common cold strep throat, pneumonia
- Most of the Mouthwashes contain alcohol and harmful chemicals
- Nanolife mouthwash is 100% Alcohol free



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Ayurvedic view about Epidemics

- Epidemics are called as Janapadodhwamsa. These Janapadodhwamsa can be caused due to vitiation in Air, water, land or seasons.
- The general line of treatment and prevention of Janapadodhwamsa is Rasayana Chikitsa and Panchakarma

Corona Virus in Ayurvedic Terms

- MERS CoV shows symptoms like jwara ,kasa, shwasa and pinasa, which are all pranavaha srotas related .

The Involved dosha & dhatu are as follows

- 1. Kapha with vata (avalambaka kapha and prana vata)
- 2. Rasa dhatu

As rasa dhatu is vitiated it causes jwara.

RASAYANA CHIKITSA IN EPIDEMICS

- Rasayana is one of the eight clinical specialities of Ayurveda
- Various types of Rasyanas - Kuti praveshika etc
- For the Prevention & treatment of epidemics Ayurveda recommends Rasayana Chikitsa
- Rasa Aushadi or Bhasma can also be used as Rasayana



Ayurvedic Prevention & Treatment of Coronavirus

- Treatment should be aimed at treating Jwara, Dhatu Kshaya, and Pitta Pradhana kasa.
- Hence Rajayakshama line of treatment or pranavaha srotas chikitsa is to be considered.



Rajata Bhasma as Rasayana

- Rajata Bhasma is once such Rasayana which can treat all the above symptoms as it the choice of Rasayana used in the treatment of Rajayakshma.
- Rajata Bhasma is Nourishing in nature and Vata pitta hara.
- It can be used at Dose 125 mg a day.
- It has been observed that Rajata Bhasma has anti-microbial and Anti-viral action.

RAJATA BHASMA & NANOPARTICLES

- Bhasma is an herbo-metallic Ayurvedic Medicine
- Green synthesis for nanoparticles is considered parallel of ancient *Bhasma* preparation and is considered far superior to contemporary bhasma.
- Green synthesis of nanoparticles involves use of natural polymers mainly of plant origin, which are used to make the nanoparticles more biocompatible.

PROPHYLACTIC MEDICINE : VISHARI



Available in 100 ml and 300 ml

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