

Broad Spectrum Anti-Viral Treatment for curing COVID19 using Silver Nanoparticles, Oral Rehydration Salts and Macrolactin A

Observing the devastating impact of COVID19 pandemic in the entire world, I went through many research papers and newspaper articles (the most relevant ones are attached with this report) and would like to suggest a broad spectrum approach to cure COVID19 which includes the following medical treatments which should be provided simultaneously to the patient :

1. Silver Nanoparticles –

Silver nanoparticles are toxic to microorganisms as they get attached to the cell walls of wide range of microorganisms including viruses. However, the exact mechanism is not known but most of the researchers have established the conclusion that *Reactive Oxygen Species (ROS) – mediated cell membrane destruction* is one of the major process responsible for anti-viral action. (Reference 1)

Therefore, the Silver nanoparticles can be administered orally in the form of *Rajat Bhasma*. (Reference 2)

2. Oral Rehydration Salts (ORS) –

Researchers have established the fact that the virus can be killed by increasing salt concentration of the environment in which the virus is present. Increasing the salt concentration squeezes out water from inside the cell membrane of virus by the virtue of *Osmosis* ultimately resulting in killing of a virus. Thus, *Oral Rehydration Salt solution* is excellent for this purpose. (Reference 3)

3. Macrolactin A –

Macrolactin A is a broad spectrum novel antiviral compound which would be a good choice in case of rapidly mutating *COVID19* as it has also expressed its activity against *the Human Immunosuppressive Virus (HIV)* which is also a highly mutating virus like *COVID19*. (Reference 4)

Also, Apart from the medical treatment, it is equally important to focus on some scientific techniques for preventing this pandemic to effect us as *prevention is better than cure !!!*

No matter what kind of a virus attacks us but the mechanism of attacking of all the virus is same !!

At the first step of a viral attack, the viruses attach themselves with the cells of our own body due to which it is important for any virus to attach to our own cells in order to spread. They do so with the help of the receptors present on their surface which majorly consist of proteins. Since, It is a scientifically proven fact that the proteins get broken down in presence of aqueous acidic medium by the virtue of *acid hydrolysis of proteins*. Therefore, breaking down of these viral proteins by creating an aqueous acidic medium inside the body would help in inhibiting the spread of the virus. Hence, it is advisable to consume a plenty of lemon-water or lemonade or citrus fruit juices to maintain the aqueous acidic environment inside the body.

References

1. [Antimicrobial nanomaterials for water disinfection](#)
2. [The ayurvedic **bhasma**: the ancient science of nanomedicine](#)
3. <https://economictimes.indiatimes.com/news/science/salt-can-make-surgical-masks-into-a-virus-killer/articleshow/56402336.cms?from=mdr>
4. [The macrolactins, a novel class of antiviral and cytotoxic macrolides from a deep-sea marine bacterium.](#)