



**Depiction of Novel Corona Virus Infectious Disease 2019 (CoVid 19 aka SARS CoV 2)**

**Problem:** CV19 Inhibits Human Body's Immune Regulatory Response/Defense System.

**Where:** Primary Lungs and Secondary other major organs and nervous system.

**When:** 2-14 days after initial infection date.

**Significance :** The human body's immune defense is compromised leading to prolonged illness and high mortality in populations with previous underlying inflammatory, immunosuppressive diseases/conditions: Elderly, Afro/Native Americans ; Obesity, Smokers, Alcoholics, Addicts, HBP, Diabetes, Arthritis, Heart Disease, Arteriosclerosis, Stroke/Ischemia, Blood vessel inflammation, Cycle Cell Anemia, Cancer, Lupus, MS, AIDs, Nephritis, Kawasaki disease, etc.

Zinc is vital to promoting healthy hair, skin, and nails and is required for a proper sense of taste and smell. Zinc plays an integral role in immune function, protein synthesis, wound healing, DNA synthesis and cell division and is involved in over 300 regulatory processes. Zinc is also important for lipid, carbohydrate, and protein metabolism, as well as cell signal transduction, and reductionoxidation (redox) regulation. In males, zinc has been shown to protect the prostate gland from infection and enlargement, which has been linked to being a risk for prostate cancer. In females, zinc can help treat menstrual problems and alleviate associated symptoms. Zinc may also protect from night blindness and prevent the development of cataracts. Children need zinc to grow, maintain a healthy body weight, fight off diseases such as pneumonia, diarrhea and diabetes, as well as shorten the length of the common cold.

**Evidence: shown** Zinc transported across SARS CoV 1 infected cell membranes using non protein, synthetic ionophore , carrier molecules has been to inhibit viral RNA reverse transcriptase (RT) enzyme and prevent virion reproduction in vitro.

**Hypothesis:** CV19 inhibits zinc transport across infected cell membranes leading to Zinc immuno regulatory deficiencies causing initial acute exacerbation of chronic obstructive pulmonary disease and secondary acute exacerbation of heart, kidney, blood vessels, brain, large intestine, skin, joints, and nervous system exemplified by cytokine storm and inflammation.

**Causes:** Low blood serum zinc concentration/availability.

Inhibition of zinc zip protein carrier "ionophores" which transport zinc across cell membranes for human DNA/RNA synthesis, cellular control, and immune response.

**Solutions :** Increase blood serum zinc through proper diet, digestion, and gut flora; avoid phytate rich foods; eat zinc rich foods; supplement zinc.

Supplement/administer "non protein" Zinc ionophore carrier molecules:

A. Synthetic, Big Pharma Drugs like Pyrithione, Hydroxychloriquine, and/or other synthetic zinc ligand-ionophores.

B. Natural fruit and vegetable polyphenol flavenoid ionophores like Quercetin, Reseveratrol, Curcumin, ECGC.

**Effective: Timely Solutions** Implement Zinc plus non protein ionophores to transport zinc across infected cell membranes and inhibit viral RT, prevent virion reproduction, and restore human cell DNA and RNA synthesis, cellular control, and immune regulatory response/defense.