

SILVER—All-around Immune Support This Cold & Flu Season

With swine flu continuing to spread throughout the world, it is critical that we take practical steps to protect ourselves. Could silver be one of the most promising avenues of self protection during the upcoming cold and flu season? Could spraying your hands and frequently touched surfaces with silver actually prevent transmission? In fact, as we learn more about the amazing antimicrobial properties of silver, it becomes clear that silver belongs in your home medicine cabinet, if not your pocket or car's glove compartment.

Our understanding of the ability of silver to interfere with viral replication is suggested by studies that show us silver effectively kills many different types.

RECENT EVIDENCE SHOWS SILVER KILLS VIRUSES

Notably, we reviewed a recent study from the Department of Medicine at the University of Hong Kong, published in 2008 in *Antiviral Therapy* (13;2:253-62). The authors noted, "Silver nanoparticles inhibit hepatitis B virus replication."

The researchers note that the effects of these nanoparticles towards other kinds of viruses remain largely unexplored. "The aim of the present study was to investigate the effects of silver nanoparticles on hepatitis B virus (HBV)."

They concluded that silver nanoparticles "inhibit the *in vitro* production of HBV RNA and extracellular virions. We hypothesize that the direct interaction between these nanoparticles and HBV double-stranded DNA or viral particles is responsible for their antiviral mechanism."

Silver was proven effective against herpes simplex virus, as shown in the July 1976 issue of *Antimicrobial Agents and Chemotherapy* (10;1:57-63). As noted, "The infectivities of herpes simplex virus types 1 and 2 were inactivated by silver nitrate at concentrations of 30 μ m or less...."

In the June 29, 2005, issue of the *Journal of Nanobiotechnology*, researchers from the Department of Chemical Engineering, University of Texas, Austin, reported that the interaction of nanoparticles with biomolecules and microorganisms is an expanding field of research. Within this field, an area that has been largely unexplored is the interaction of metal nanoparticles with viruses. "In this work, we demonstrate that silver nanoparticles undergo a size-dependent interaction with HIV-1, with nanoparticles exclusively in the range of 1-10 nm attached to the virus. The regular spatial arrangement of the attached nanoparticles, the center-to-center distance between nanoparticles, and the fact that the exposed sulfur-bearing residues of the glycoprotein knobs would be attractive sites for nanoparticle interaction suggest that silver nanoparticles interact with the HIV-1 virus via preferential binding to the gp120 glycoprotein knobs. Due to this interaction, silver nanoparticles inhibit the virus from binding to host cells, as demonstrated *in vitro*."

"Our article opens an important avenue for research," said study coauthor Miguel José Yacamán from the Department of Engineering.

Scientists are also studying other uses for silver nanoparticles. Says Yacamán, "We're testing against other viruses and the 'super bug' (methi-



cillin-resistant *Staphylococcus aureus* or MRSA). Our preliminary results indicate that silver nanoparticles can effectively attack other microorganisms."

We also know that in preliminary studies, silver was effective at inhibiting novel forms of the emerging avian flu.

PROTECT YOUR HEALTH WITH SOVEREIGN SILVER

In many ways silver may be one of the most important methods of self protection this cold and flu season. Silver should be taken as a supplement, used for personal hygiene and perhaps sprayed around the home and workplace.

We recommend using Sovereign Silver® since their silver is actively charged and measured in pico- and nano-particles, meaning it has the best dispersal and smallest size, making it more active and able to directly interact with viruses (direct interaction is preferable when using silver). This should not be construed as saying silver is a drug that will cure or prevent disease. Although some silver products such as silver sulfadiazine are classified as drugs and others yet have been identified as very effective killers of bacteria and other organisms, we are speaking of silver that you purchase at health food stores and pharmacies, and which should be used to support immune health. But it will help to support your body's normal defenses and help to maintain a safer home and work environment.

The Sovereign Silver Homeopathic First Aid Gel is excellent for hand cleansing. The problem with washing your hands with normal hand cleaners to kill the swine flu virus is that they frequently contain harsh chemicals, notes an expert and silver advocate. Your hands may be clean immediately after washing, but the harsh chemicals make your skin vulnerable to infections minutes afterward. Silver ions are used in hospitals and medical equipment to kill germs and viruses noninvasively and they are completely safe for children and older people, note silver experts. ■

Resources Sovereign Silver Homeopathic Gel and nanoparticle silver fine mist spray for throat and respiratory health are manufactured and distributed in the U.S. exclusively by Natural-Immunogenics. The company manufactures and distributes products not only to health food stores and natural product supermarkets but to doctors, pharmacies, hospitals, extended-care facilities, surgery centers, homecare dealers, agencies and other health care providers.

Visit www.sovereignsilver.com or call 888-328-8840.

- Use silver on surfaces such as tabletops and door knobs. For this use the Sovereign Silver spray bottle.
- When traveling or in crowds, spritz your respiratory passages a few times to help kill viruses on contact. Use one teaspoon sublingually before, during and after airplane or train trips.
- Spray your hands with this preparation as well (or use Sovereign Silver Homeopathic Silver First Aid Gel).
- Build your immune system by taking three teaspoons daily, spread out throughout the day.
- If you feel that your immune system may be compromised suddenly, take one teaspoon hourly for six hours.



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