References


Three Steps to Restoring Optimal Immunity

The Problem: Defiant Immune Challenges
Physicians are being confounded by emerging trends that defy nearly all immune protocols. Even in vitro proofs and protocols with present success, sooner or later the success proves illusory. The Institute of Medicine, under the National Academy of Sciences, estimates that the annual cost associated with these difficult situations may be as high as $30 billion. In 1994, the Centers for Disease Control viewed this emerging trend as America’s number one health issue. Annually, over 2 million Americans may present these highest risk immune challenges to their physicians. Simply stated, this trend is unacceptable. Perhaps rethinking this problem necessitates a fresh, out-of-the-box approach. Perhaps it is time for arming your practice with an immune offensive protocol starting with Argentyn 23<sup>TM</sup>.

The Solution: Multi-Functional Immune Modulation

1. Oligodynamic Ag<sup>+</sup>

Argentyn 23<sup>TM</sup>’s Oligodynamic Ag<sup>+</sup> enzymatically cleaves crucial biochemical pathways associated with the hallmark metabolic dysfunction (i.e., cytokine release). This leads to the immediate shift back to Th-1 dominance. Such a condition is majorly enhanced by the fact that these tactical benefits are attributable to the oxidation potential of the ion. Targets may be enzymes, proteins within membranes or nucleic acids. Berger, et al., found oligodynamic Ag<sup>+</sup> to be either beneficial, harmless or of negligible toxicity to mammalian tissues. Hence, silver nitrate, silver sulfadiazine, or silver nitrite (Ag<sup>+</sup>) are used in America. The result was an enormous alleviation of certain immune challenges.

2. Silver

Copper, cysteine and vitamins C & K; essential for promotion of superoxide release, supporting the respiratory burst. Colloidal fluids enable optimal electron “poising” and transfer (redox), plus optimal stress-chemical molecular alignments, interfaces and re-arrangements. The “suspension milieu” of the colloidal state greatly lessens the constraints that time and space ordinarily exert upon essential biochemical pathways. For example, at normal body temperatures, vital biochemical reactions will occur up to a full seven times slower in the absence of functional enzymes.

3. Colloidal Minerals

Colloidal minerals, such as silver, copper and gold, have several critical roles to play applicable to the genesis and function of the colloidal state. Of particular note, colloidal metals initiate the transformation of bodily liquids from simple solvents into highly structured, ordered and energy rich gel. Therefore, the surface area of the molecule becomes many, many times larger in the absence of functional enzymes. As lower life forms surmised as early as 1989 Thurman and Gerba et al., stated that the transition metals (i.e., Cu, Au, and Ag) are essential for promotion of superoxide radical activity. The resulting redox reactions are site-specific to their targets. Colloidal minerals are also generated within the same vicinity of targets and react as well without being lost to diffusion. Recycling these redox reactions causes multiple-modulations at the same target, an “immune offensive” for oligodynamic Ag<sup>+</sup> of great import.

FACTS

> Argentyn 23<sup>TM</sup> may promote WBC surveillance<sup>1</sup>
> Helps modulate the superoxide-mediated immune response<sup>1</sup>

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Life is a Function of the Colloidal State

All reactional chemistry of all living processes occurs in the colloidal state through molecules that are “suspended” as opposed to being “dissolved” in bodily fluids. Colloidal fluids enable optimal electron “poising” and transfer (redox), plus optimal stress-chemical molecular alignments, interfaces and re-arrangements. The “suspension milieu” of the colloidal state greatly lessens the constraints that time and space ordinarily exert upon essential biochemical pathways. For example, at normal body temperatures, vital biochemical reactions will occur up to a full seven times slower in the absence of functional enzymes.

To illustrate the near quantum speeds of the living suspension milieu, consider the following: DNA assays suggest that a healthy twenty-five year-old, well-nourished human will suffer 100,000 genetic mutations daily to each of his or her 75 trillion human cells. That translates into approximately 7,500,000,000,000,000 (7.5 quintillion) genetic injuries daily! Yet within these same 24 hours, near perfect levels of repair are completed! This occurs in the colloidal state: DNA repair is completed in the same 24 hours, near perfect levels of repair are completed! This is why our cells can maintain homeostasis.

Oligodynamic Ag<sup>+</sup> clearly has a significant role to play within the normal diet. By virtue of its content in Argentyn 23<sup>TM</sup>, health care providers now have an excellent opportunity for a variety of effective and highly strategic immune enhancing protocols.<sup>2</sup>

Conclusions
Oligodynamic silver (Ag<sup>+</sup>) clearly has a significant role to play within the normal diet. By virtue of its content in Argentyn 23<sup>TM</sup>, health care providers now have an excellent opportunity for a variety of effective and highly strategic immune enhancing protocols.<sup>2</sup> Argentyn 23<sup>TM</sup>’s Oligodynamic Ag<sup>+</sup> Content May Promote Strategic Immune Enhancements


Stimulating Effects of Mercury- and Silver Ions on the Superoxide Anion Production in Human Polymorphonuclear Leukocytes

Janssens, G, Harms-Ringdahl, M

Silver Enhancing WBC Re-Engagement

White Blood Cell

XO- + NO TFN-α + Peroxynitrite Deregulation (Optimal Immunity) through GSH-Px activity.

H<sub>2</sub>O<sub>2</sub> + O<sub>2</sub> −→ O<sub>2</sub>-. + H<sub>2</sub>O

Three steps to returning optimal immunity from a “dysregulated” state:

1. Supply the pre-requirements of healthy H<sub>2</sub>O<sub>2</sub> production via the Fenton Reaction by administering Vitamin B-1 & B-3, Copper, Iron and cysteine.<sup>2</sup>
2. Supply the pre-requirements to healthy production of key beneficial upstream reactive oxygen intermediates (ROI) such as H<sub>2</sub>O<sub>2</sub> and OH- by administering pipecolic acid, Silver, picosilver, cysteine, L-arginine and vitamin C (OH-O2H).<sup>2</sup>
3. Supply the pre-requirements for the containment and elimination of key harmful downstream radicals such as NO, TFN-α and peroxynitrite by administering Licorice/Green Tea and Vitamin B-5 plus NAC and selenium to induce GSH-Px production.<sup>2</sup>
Comparing Other Formulations

The laboratory at Natural-Immunogenics, where Argentyn 23™ is made, has evaluated over one hundred brands of ‘colloidal silver’ to date. Its library of analyses is undoubtedly the largest such collection ever assembled. The electron microscope that was used to capture the specimens shown on this page is capable of resolution to 3 Ångstroms (atomic level) at 400,000 magnification. The micrographs below were all taken at 100,000x.

Argentyn 23™ 23 ppm - 24 ppm
The result of a unique proprietary process, this new perfect dispersion of the tinest particles (average 0.8 nm) ever seen clearly demonstrates the considerable energy imparted to them.

Herbal Healer Academy — 500 ppm
The particle characteristics of this formula have no energy at all and tend to agglomerate within the organic matrix that holds them in suspension. They range from 8 nm to 12 nm, with a mean of approximately 8 nm.

Amino Acid & Botanical Supply — 500 ppm
The particles that would characterize this product as a colloid are actually quite distinct for a protein formulation. The variable size particles, from 2 nm to 8 nm, do not have much energy and tend to flocculate.

ASAP Health Max — 30 ppm
This "colloid" contains molecular chains and neutral deposits, particles ranging from 2 nm to 8 nm. Additionally, one sees solute residue that could be (or could not be) organic.

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In 1996 the Environmental Protection Agency (EPA) published and established a daily Oral Reference Dose (RfD) based on a mathematical equation (5 mcg/kg/day). The Oral RfD applies to a continuous daily ingestion that is considered highly unlikely to cause any risk or harm during the entire course of a lifetime.

Scope of Acceptable Dosage Ranges: In 1996 the Environmental Protection Agency (EPA) published and established a daily Oral Reference Dose (RfD) based on a mathematical equation (5 mcg/kg/day). The Oral RfD applies to a continuous daily ingestion that is considered highly unlikely to cause any risk or harm during the entire course of a lifetime.

FACTS

- Argentyn 23™️ content of oligodynamic Ag⁺, modulates a series of immunological events
- May enhance detoxication of immune intoxicants associated with exogenous factors

These proactive measures include:
- Drinking 1/3 to 1 ounce of purified water for each pound of body weight.
- Use of hepatic detoxifying pharmaceutical supports 1 to 3 times daily.
- Dietary measures that include low fat, low sugar and low meat diets, plus strict avoidance of all junk foods, fast foods, and fried foods.
- Recommendations for high fiber diets while on the program ensuring a minimum of one well-formed B.M. daily.
- Referral if necessary for a short set of colonic irrigations.

Jarish-Herxheimer Effects

Jarish-Herxheimer Effects Associated with Immune Detoxication Overload: Jarish-Herxheimer Effects typically have predictable distributions and patterns of occurrence within test subject populations. In the case of Argentyn 23™️, a portion of patient populations receiving the product may experience the associated immune detoxication events listed below. In order of known frequency, these may include:

1. Simple malaise, erythemia, skeletal pain, itching, rigors or chills, diarrhea typically of short duration, vomiting of short duration, fever.
2. Classically, such associated immune detoxication events suggest that the targeted immune burdens are resolving rapidly. Therefore, carefully continue a reduced dosage schedule for 5 – 7 days.
3. These proactive measures include:
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   - Use of hepatic detoxifying pharmaceutical supports 1 to 3 times daily.
   - Dietary measures that include low fat, low sugar and low meat diets, plus strict avoidance of all junk foods, fast foods, and fried foods.
   - Recommendations for high fiber diets while on the program ensuring a minimum of one well-formed B.M. daily.
   - Referral if necessary for a short set of colonic irrigations.
   - One or more organic coffee (or organic green tea) enemas as needed, which typically offer immediate results;
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