

## **Silver Hydrosol's Valuable Role in Helping Protect Your Body Against Infection**

Eric Rentz, D.O., in active practice since 1985, is American Osteopathic Association board-certified in two areas—neuromuscular skeletal medicine and osteopathic manipulative medicine. He is one of the world's leading experts in silver preparations, and, in addition to recommending it to his patients, uses silver hydrosol personally to help guard against infections and aid in tissue repair.

Q: What can silver hydrosol offer people who are looking to achieve living longer and healthier?

(Note: Silver is only active as oligodynamic silver. – Ed.)<sup>1, 2, 3</sup>

ER: While (oligodynamic) silver does not directly help a person live longer, one way in which it is very helpful is its ability to aid in tissue repair,<sup>4, 5</sup> which is part of what we use up our resources for. One of the things that happen with aging is that we develop chronic insufficiencies. We may not be so deficient in a vitamin or a set of minerals that we end up with the skin breaking down and organs stopping function, for example...that's over-deficiency. Most chronic diseases are due to chronic insufficiencies of nutrition. It's vital that we address them *before* they develop into a chronic situation.

What (oligodynamic) silver can offer in aiding tissue repair is an acceleration of that process.<sup>6</sup> Also, as an oxygen sponge, silver provides lots of oxygen, which is important in the repair process.

Q: I understand that one of (oligodynamic) silver hydrosol's benefits is the way it acts preventively to help the body fight against infections. How does it do this?

ER: With skin issues, such as a burn, a cut, or a scratch from an animal, spritzing these areas with silver—it doesn't matter what was on the claw, or the foot, or the object—the (oligodynamic) silver is going to kill it, because it's completely antimicrobial against any bacteria or any virus that you're going to come into contact with in nature.<sup>7, 8</sup>

So far, we're talking about all topical things. On an internal level, for example, I could be having some trouble with bleeding gums: After brushing and flossing, I can spray under my tongue and/or use (oligodynamic) silver hydrosol as a mouthwash, holding it there for 30 seconds. That is ample time for it to really penetrate the lymphatics of the whole upper digestive system that the salivary glands are all involved with. Swallow it afterwards, and it will work down the esophagus, and also in the stomach. Any bacteria, any microorganisms that come into contact with the (oligodynamic) silver, they're all done.

Q: Louis Pasteur allegedly said on his deathbed, "Bernard was right, I was wrong. The germ is nothing, the terrain (the body's internal soil also known as the body's colloidal milieu) is everything." This indicates that he believed that if the "soil" in the body (the colloidal milieu) was in great shape, we would be less likely to succumb to infections. Can you elaborate on this theory?

ER: Microorganisms take advantage of changes in ... (the body's colloidal milieu – especially when under stress). That's one of their constants. So if my energy goes low, it is far easier for bacteria to do damage. When cells begin to decay,

bacteria are attracted to them; they see it as a food source. Now, we can use drugs to keep these things suppressed, repressed, oppressed, or pressed some other way, but it still doesn't change the underlying fact that I have things that are decaying, things that are degenerating, things that are fermenting, things that are putrefying. If I really want to make a difference, I have to change the fundamental way in which those cells are functioning. So I have to correct overt deficiencies, I have to correct subtle chronic insufficiencies (i.e., like optimizing the body's internal colloidal milieu).

Q: It has been stated that (oligodynamic) silver hydrosol is the first line of defense. In a world in which we are becoming susceptible to nearly everything, how can (oligodynamic) silver help us to regain or sustain our health?

ER: (Oligodynamic) ... (s)ilver is a great first line of defense because unlike taking a broad-spectrum, organic, chemical-based antibiotic—which is going to destroy everything in the gut, except for certain fungi like yeast—the (oligodynamic) silver's going to work where it's at, so you're not destroying everything; you're working at the site of the issue. The other thing too, of course, is that it's much less expensive than these antibiotics. There are some seven thousand species of microorganisms that are known on land. Not all of them affect humans; some may affect plants, some animals, and some of them affect us. (Oligodynamic) ... (s)ilver works against how many of those seven thousand? Seven thousand.

(Note: Oligodynamic silver improves the body's internal colloidal milieu by facilitating oxidative reactions central to immunity<sup>9, 10, 11</sup> plus the rate and efficiency of tissue repair and vital communications.<sup>12</sup> - Editor)

Q: The avian flu virus is an example of a viral infection that could potentially cause a pandemic. The World Health Organization (WHO) website says, "Most influenza experts...agree that the prompt culling of Hong Kong's entire poultry population in 1997 probably averted a pandemic." In fact, recent news reports state that it has resurfaced in a remote western province of China. Do you think (oligodynamic) silver hydrosol could be of any use in such an extreme circumstance?

ER: Absolutely, if people kept a bottle of (oligodynamic) silver with them, and they sprayed their throat to help protect themselves against it. These viruses need a mucous membrane in order to have an impact on human health; they need to get in your eye, your nose, your mouth. Now, if I can keep my eyes, nose and mouth unfriendly to them, then they're not going to be able to invade. If I spray (oligodynamic) silver under my tongue, or I spray it into my mouth as I inhale in order to coat the back of my throat, and I put a drop or two in my eyes at night and in the morning before I go out into the world, then these organisms will not be able to invade my system.<sup>13, 14</sup>

Q: It has been widely reported that people who floss regularly can increase their life expectancy by up to six years. The reason is that by preventing bacteria that cause periodontal disease from building up, you avoid an immune reactions which increase sickness and death rates.<sup>15, 16</sup> By the same token, can (oligodynamic) silver hydrosol be expected to improve life expectancy due to its bacteria-fighting properties?

ER: Anything you can do to reduce the buildup of bacteria in the human mouth can be expected to promote longevity. The advantage of flossing is that it can remove those thick, sticky, gooey excretions of the bacteria in the tight spaces

between the teeth so that the (oligodynamic) silver hydrosol can get at them. And as we have said before, once (oligodynamic) silver is at the site of the issue, it can do its job.

Q: How would you recommend readers use (oligodynamic) silver hydrosol to promote healthy living?

ER: It should be in every person's medicine cabinet. It should be one of the first things they reach for when they're treating something, whether it's a cut, a scrape, a puncture, a burn, an insect bite, something that they're going to be putting dressings on, a sore throat, eye issues, ear issues, nose issues.<sup>17, 18</sup>

Q: Can (oligodynamic) silver hydrosol be used on a daily basis to help protect against potential invasions from infections?

ER: Sure. Most people can take it every day. For daily use, I would use the spray, and after getting ready to go out in the morning, I would spritz it under my tongue to provide protection against potential infection.

(Editor's note: The March 1978 issue of *Science Digest*, in the article "Our Mightiest Germ Fighter," reported: "Thanks to eye-opening research, silver is emerging as a wonder of modern medicine." The article ended with a quote by Dr. Harry Margraf, a biochemist and pioneering silver researcher who worked with the late Carl Moyer, M.D., chairman of Washington University's Department of Surgery in the 1970s: "Silver is the best all-around germ fighter we have.")<sup>19</sup>

## References:

---

- <sup>1</sup> Thurman RB, Gerba CP. The molecular mechanisms of copper and silver ion disinfection of bacteria and viruses. *CRC Critical Reviews in Environmental Control*, 1989;18(4):302.
- <sup>2</sup> Cliver DO, et al. Biocidal Effects of Silver: Contract NAS 9-9300 Final Technical Report. University of Wisconsin, Accession No. N71-24436, NASA CR-114978, Code G3, Category 04, February 1971; p. 3-1.
- <sup>3</sup> Russell AD, Path FR, Hugo WB. Antimicrobial activity and action of silver. *Prog Med Chem* 1994;31:352.
- <sup>4</sup> Becker, RO, JA Spadaro, "Experience With Low Current Silver Electrode Treatment of Nonunion," *Electrical Properties of Bone and Cartilage*, CT Brighton, J Black, S Pollack, eds. Grune and Stratton, New York, 1979; pp. 631-638.
- <sup>5</sup> Becker, RO, JA Spadaro, "Electrical Stimulation of Partial Limb Regeneration in Mammals," *Bull. NY Acad. Med.*, 1972; 48:627-641.
- <sup>6</sup> Flick, AB, "Clinical Application of Electrical Silver Iontophoresis," First International Conference on Gold and Silver in Medicine, Bethesda, MD, May 13-14, 1987.
- <sup>7</sup> Grier, N, "Silver and Its Compounds," In: *Disinfection, Sterilization and Preservation*, edited by S. Block, Lea & Febiger, Philadelphia, 1983; p. 375.
- <sup>8</sup> Cliver DO, et al. Biocidal Effects of Silver: Contract NAS 9-9300 Final Technical Report. University of Wisconsin, Accession No. N71-24436, NASA CR-114978, Code G3, Category 04, February 1971; p. 3-1.
- <sup>9</sup> Gan X, Liu T, Zhong J, Liu X, Li G. Effect of silver nanoparticles on the electron transfer reactivity and the catalytic activity of myoglobin. *Chembiochem*. 2004 Dec 3;5(12):1686-91.
- <sup>10</sup> Samuni A, et al. On the Cytotoxicity of Vitamin C and metal ions. *Eur J Biochem*. 1983;99:562.
- <sup>11</sup> Jansson, G, Harms-Ringdahl, M, "Stimulating Effects of Mercuris- and Silver Ions on the Superoxide Anion Production in Human Polymorphonuclear Leukocytes," *Free Radic Res commun*, 1993; 18(2):87-98.
- <sup>12</sup> Becker, RO, G Selden, *The Body Electric*, William Morrow, NY, 1985.
- <sup>13</sup> Gordon E, Holtorf K. Promising cure to URTI pandemics including the avian flu (H5N1): Has the final solution to the coming plagues been discovered? Part II. *Townsend Letter*. 2006 April; #273.
- <sup>14</sup> Rentz EJ. Review: Viral pathogens and severe acute respiratory syndrome: Oligodynamic Ag+ for direct immune intervention. *JNEM*, 2003 Jun;13(2):109-18.
- <sup>15</sup> Slots J. Update on general health risk of periodontal disease. *Int Dent J*. 2003;53 Suppl 3:200-7.
- <sup>16</sup> Slots J, Kamma JJ. General health risk of periodontal disease. *Int Dent J*. 2001 Dec;51(6):417-27.
- <sup>17</sup> Wood, HC, et al., *The Dispensatory of The United States of American*, 22<sup>nd</sup> edition, JB Lippincott Co., Philadelphia, 1937; p. 178-80.
- <sup>18</sup> Goodman L, Gilman A. *The Pharmacological Basis of Therapeutics: A Textbook of Pharmacology, Toxicology and Therapeutics for Physicians and Medical Students – Section XIII: Germicides, Fungicides and Parasitides*. The MacMillan Co., NY, 1941;P. 858-9.
- <sup>19</sup> Powell, J, "Our Mightiest Germ Fighter: Silver – New Magic in Medicine," *Science Digest*, March 1978; 83(3):57-60.