

# Health Solutions Technology

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## **Q. What is a colloid?**

A colloid is defined as a particle in a liquid medium suspension. In this case, the silver is understood as the particle and the distilled water is the liquid medium.

## **Q. What is ppm?**

ppm is the acronym for parts per million. The concentration of colloidal silver and many other substances in science can be measured in ppm. This measurement is equivalent to the following: 1 ppm = 1 mg per litre.

## **Q. Is Colloidal Silver safe?**

Yes. High quality, commercially produced ionic Colloidal Silver is very safe!

## **Q. Are there any side effects from taking Colloidal Silver?**

There are no known harmful side-effects. Occasionally, a slight feeling of "unwellness" is encountered when first taken. This symptom is attributed to the extra number of pathogens eliminated from the body.

## **Q. Is medication affected when taking Colloidal Silver?**

Medication does not seem to be affected by Colloidal Silver, which may actually work synergistically with some medicines.

Tests have shown that around 95% or more excess silver is eliminated within 24 hours - unlike antibiotics that "linger" in the body for much longer and can cause damage to the liver and to important enzymes. Also, friendly internal flora (the bacteria that lives in the gut), may get seriously depleted by prolonged antibiotic use, leading to problems caused by the imbalance. Colloidal Silver, however, is absorbed before it reaches the large intestine when a normal maintenance dose is taken.

## **Q. Does Colloidal Silver kill the beneficial bacteria in my body?**

Colloidal silver, in normal amounts, is absorbed well before it reaches the intestines, which is where the good bacteria live (approx. 35% in the small intestine and 65% in the large intestine). This quick absorption is because the silver particles are approximately 1000 times smaller than a human blood cell. Since the particles of silver have an opposite charge than the body, they are naturally attracted to our cells, and are quickly absorbed through tissues into the bloodstream. It is recommended that Colloidal Silver is held under the tongue for a minute before swallowing, so much of the silver is absorbed sublingually. The silver is in a colloidal state, just like our bodies, and is readily absorbed. Pharmaceutical antibiotics are in a crystalline state, and take time to digest. This is why they affect the good bacteria in the intestines and Colloidal Silver does not. However, if large amounts of Colloidal Silver are taken, it is possible that a portion could reach the intestines and kill some of the beneficial bacteria, which could cause mild diarrhea. Taking acidophilus or live culture yogurt will help to restore intestinal flora.

## **Q. Why haven't I heard of Colloidal Silver?**

The main reason you haven't heard of Colloidal Silver is because it has been intentionally suppressed for 65 years. Back in 1938, penicillin was discovered, and that marked the beginning of patentable pharmaceutical antibiotics. Prior to this, silver preparations were used successfully to help many people, however at the time, the silver preparations were very expensive and unstable.

Today, very high quality Colloidal Silver can be produced at affordable prices. Because pharmaceutical companies cannot patent silver, they have a tendency to keep using patented antibiotics that bring higher profits. Unfortunately, the overuse of these antibiotics has created drug resistant strains of bacteria. However, there have been no germs able to build a resistance to the action of silver.

## **Q. What makes Health Solutions Technology Colloidal Silver better than others?**

Health Technology Solutions Colloidal Silver is guaranteed to be the finest quality available. Each batch contains only two ingredients: 99.9% pure silver (100% is unobtainable) and ultra-pure distilled water. Quality control tests are implemented prior, during, and after production. Our Colloidal Silver is made slowly using a state-of-the-art, commercial generator which automatically reduces voltage as water conductivity increases. This keeps the electrical current constant (see diagram below). The result is suspended, uniform particles of silver which are consistently small, as indicated by our clear solution. The generator also employs a circulation

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pump during production to provide an even distribution of particles and prevent agglomeration (smaller particles binding together to form larger ones). There does not exist a better way to produce colloidal silver

## **Q. What is Argyria?**

The only condition attributed to excessive intake of silver is Argyria ("blue-blood"). The greyish skin complexion is caused by ingestion of large silver particles and/or silver compounds - usually from continuous use of silver cutlery and utensils.

Known as the "Nobleman's disease," from which the expression "blue-blooded" was derived, this harmless condition is rarely seen today. There are no known instances of modern, high quality commercially produced electrolytic Colloidal Silver causing Argyria.

Argyria is a condition that is caused by mild silver proteins (MSP) or colloidal silver proteins (CSP). Silver can be combined in industry with proteins to stabilize the silver in liquid suspension. This was more commonly done in silver suspensions used in nasal sprays back in the 40's and 50's. The problem with this procedure is that these particles are large enough to become trapped in body tissues. Once exposed to sunlight, the silver grains are exposed just as a photograph creating a gray hue to the skin tissue. However, when making colloidal silver with a generator, such as the CSG unit, using the electrolytic process, no evidence has been reported leading to this condition.

## **Q. How does Colloidal Silver Compare to Antibiotics?**

Colloidal Silver is known to kill 650 pathogens. Compare this figure to the half-dozen or so that antibiotics manage (antibiotics are ineffective against viruses)!

Another important aspect - Bacteria does not develop "silver resistance" unlike the many antibiotic-resistant bacterial strains seen today. See our "Antibiotics" page for more information on antibiotics and their misuse.

To be fair to antibiotics, countless people have been successfully treated and lives saved. Colloidal Silver is not intended as a direct replacement for antibiotics, although it has been successfully used therapeutically by qualified "Natural Therapists" and as a supplementary and preventative alternative - Often when standard medicine failed!

**IMPORTANT** - Always complete a prescribed course of antibiotics. Consult your Doctor if any side-effects or unusual symptoms occur whilst taking any medication.

## **Q. What are Colloidal Silver's uses?**

Some of the most popular uses are:

**As a Food Supplement** - Intensive farming has greatly depleted the soil's mineral and "trace element" content and is reflected in the nutritional quality of some commercial farm produce. Our bodies contain about 0.001% silver. Dr Robert Becker showed a direct correlation between illness and low silver levels.

**Immune System** - Relieving the constant stress on the immune system can help body's natural germ fighting mechanism. When taking Colloidal Silver, many have reported increased alertness and general "well-being". These benefits are not yet fully explained by science, although the general consensus of opinion is that the lessened load on the immune system is a contributory factor.

**Fighting Infections** - Eye, mouth, throat, sinus, skin and many more common infections respond very well to Colloidal Silver.

**Viral Infections** such as Colds, Flu and "cold sores".

**Fungal Infections:** (Athlete's foot is one of the best known) and yeast infections including Candida have all been treated by Natural Therapists using Colloidal Silver. The lengthy list also includes Internal Parasites - Intestinal Worms that use the human body as a host and prevent the absorption of essential nutrients.

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**Promoting Wound Healing** - In his book "The Body Electric", Dr. Robert O. Becker describes his research on limb regeneration. Silver was the only material successfully used for electrodes. Dr. Becker also found accelerated tissue regeneration he attributed to the ionic silver produced from the very low electrical current used in his experiments.

Silver-based dressings and ointments are now used extensively in Hospital Burns Units because of their anti-microbial and healing properties.

**Antiseptic, Disinfectant** - Cuts, scrapes and abrasions etc.

**Purifying Water** - Adding 30-50ml Colloidal Silver to 5 litres of water has been shown to kill harmful bacteria within a few minutes.

**Common cold.** At the first signs of symptoms from this viral infection - Itchy feeling in the back of the mouth, sneezing, etc., spray the back of the mouth and under the tongue (15 times with applicator provided) every 2 hours if possible. Alternatively, gargle with approximately 5 ml Colloidal Silver 5-6 times a day and swallow. Large amounts of Vitamin C (2-4 grams) are often recommended. Drink plenty of pure water.

**Intestinal problems:** Because Colloidal Silver is quickly absorbed when taken normally as in a maintenance dose, it does not reach the large intestine. A different approach is therefore necessary.

Irritable Bowel, Diverticulitis, Food Poisoning, Flu, conditions leading to diarrhoea where the offending pathogen is in the gut: A single, one-off, 200 ml dose mixed with 500 ml of pure chlorine-free water taken first thing in the morning on an empty stomach and bladder followed by laying down for 20 minutes, should give fast relief from the worst symptoms. Because intestinal flora balance may be affected, it is usually recommended to replenish by taking live culture yoghurt or similar products. Drinking plenty of pure water is important.

**Intestinal Worms** - Internal Parasites: Taking Colloidal Silver regularly can act as a preventative measure. The small parasitic worms lay eggs to reproduce. In this state, they are vulnerable to the effects of Colloidal Silver, essentially preventing the eggs from hatching.

**Bladder infections and Urinary tract:** Many favourable reports and anecdotal evidence suggest Colloidal Silver taken as for "general internal cleansing" to be successful especially for bladder infections cystitis and urinary tract problems. For serious infections, 200ml taken as detailed under "Irritable Bowel" section above, may be used.

## **External applications**

**Cuts, Grazes, Burns, Dandruff, Itchy Scalp, Skin conditions like Psoriasis and Eczema:** benefit from frequent application. Colloidal Silver does not sting and has powerful antiseptic, disinfectant and germicidal properties. It has also been shown to promote wound healing.

**Athlete's Foot fungal infection:** After washing and thoroughly drying the foot:, spray the affected area, leave 5 minutes and dry gently. Repeat the previous step, this time spraying the whole of the foot. Alternatively, a small wad of cotton wool can be soaked in colloidal silver and placed in between the toes for a few minutes if this is the only affected area. A small amount may be sprayed inside the shoes.

**Eye Infections:** Mild eye infections like "Pink Eye" are reputed to respond well to Colloidal Silver. A few drops applied at night and in the morning have been shown to quickly clear up the problem.

**Yeast Infections:** generally respond well to Colloidal Silver. Several different types are known. In the last few years, Candida has received much attention and is thought to sometimes be the precursor to Irritable Bowel Syndrome, M.E., T.A.T. (Tired All the Time Syndrome) and some infections.

**Candidiasis (Candida):** caused by a proliferation of a yeast Candida Albicans, is a serious condition often resulting in many different symptoms and problems. Colloidal Silver has been used successfully as part of the

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strict dietary and herbal regimen used by Natural Therapists. Many impressive websites containing a wealth of information about Candida can be found on the internet.

**Q. Can I drink directly from the bottle?**

No. We recommend not drinking directly from the bottle, and do not put anything such as a straw or cotton swab into the bottle. Do not pour any unused portion of the product back into the bottle

**Q. Is Colloidal Silver safe to take during pregnancy?**

We do not have any scientific studies that can prove that mineral colloids are safe to use during pregnancy. It is believed to be safe and many users have used it during pregnancy. As far as we know no adverse effects have ever been reported. Please rely on your own investigations before undertaking taking any colloidal supplementation during pregnancy.

**Q. Can I take Colloidal Silver with other colloids at the same time?**

Yes. Since Health Technology Solutions colloids are all true colloids, meaning they are not ionic solutions, they can be taken together without any interactions.

**Q. Can Animals and Plants benefit from Colloidal Silver?**

Yes. Colloidal Silver does not harm mammals, reptiles or fish and is often used in veterinarian context.

Plants can be sprayed to kill mould and mildew.

Health Technology Solution's Colloidal Silver can be purchased from our online store at [www.healthsolutionstechnology.com.au](http://www.healthsolutionstechnology.com.au) in 125ml dropper or spray head bottles, and 200ml refill bottles.