

Colloidal Silver User's Manual

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Concentration:

The concentration of Silver in the water is usually measured in parts per million, or PPM.

This can easily be done with a TDS Meter.

While this is the standard convention, PPM is a "ratio", and not an indicator of quantity.

When a laboratory tests colloidal silver for concentration, they report the findings in milligrams per liter (mg/L).

Milligrams per liter is an actual measurement of weight per volume, and therefore is an actual quantity measurement.

Fortunately, for solids dissolved in Water 1 mg/L is the same as 1 PPM, so as long as the dissolved solids are in water, which they are, in the case of Colloidal Silver made in distilled water, we can relate 1 PPM directly to 1mg/Liter of Colloidal Silver in our Solution. This also translates: PPM = mg/Liter = mcg/ml Silver weighs a little more than water, but the equivalence is very close, and the terms are often used interchangeably.

One liter of water weighs 1000 grams.

One ml (milliliter) is 1/1000 of a L (liter), and one milliliter of water weighs 1 gram.

1ml also = 1cc (cubic centimeter).

One mg (milligram) weighs one thousandth (1/1000) of a gram.

One mcg (microgram) weighs one millionth (1/1000000) of a gram.

One PPM = 1mg/L = 1mcg/ml

One teaspoon is 5 milliliters or 1/6 U.S. fl Oz.

One tablespoon is 15 milliliters or 1/2 U.S. fl Oz. or 3 teaspoons

One U.S. fl Oz. = approximately 30 ml (milliliters) or actually 29.5735296875 ml

With this in mind, we can calculate, for example, that one teaspoon of 5 PPM colloidal silver has about 25 mcg (micrograms) of silver in it. Here's how:

5 PPM = 5mcg/ml

1 teaspoon = 5ml so (5mcg/ml) X 5 (the number of ml in a teaspoon) = 25mcg of Silver in a teaspoon of 5PPM Colloidal Silver.

Simply multiply the Colloidal Silver's PPM times the number of ml to get the Colloidal Silver dose in mcg. Simply divide the desired Colloidal Silver mcg dose, by the PPM to get the required ml of Colloidal Silver needed.

Dose Chart - Based on Colloidal Silver PPM

PPM	Dose Size			
	Teaspoon	Tablespoon	1 Oz - Shot Glass	2 Oz - Shot Glass
5	25 mcg	75 mcg	147.885241 mcg	295.770482 mcg
6	30 mcg	90 mcg	177.4622892 mcg	354.9245784 mcg
7	35 mcg	105 mcg	207.0393374 mcg	414.0786748 mcg
8	40 mcg	120 mcg	236.6163856 mcg	473.2327712 mcg
9	45 mcg	135 mcg	266.1934338 mcg	532.3868676 mcg
10	50 mcg	150 mcg	295.770482 mcg	591.540964 mcg
11	55 mcg	165 mcg	322.3475302 mcg	644.6950604 mcg
12	60 mcg	180 mcg	354.9245784 mcg	709.8491568 mcg
13	65 mcg	195 mcg	384.5016266 mcg	769.0032532 mcg
14	70 mcg	210 mcg	414.0786748 mcg	828.1573496 mcg
15	75 mcg	225 mcg	443.655723 mcg	887.311446 mcg
16	80 mcg	240 mcg	473.2327712 mcg	946.4655424 mcg
17	85 mcg	255 mcg	502.8098194 mcg	1005.6196388 mcg
18	90 mcg	270 mcg	532.3864676 mcg	1064.7729352 mcg
19	95 mcg	285 mcg	561.9639158 mcg	1123.9278316 mcg
20	100 mcg	300 mcg	591.540964 mcg	1183.081928 mcg
21	105 mcg	315 mcg	621.1180122 mcg	1242.2360244 mcg
22	110 mcg	330 mcg	650.6950604 mcg	1301.3901208 mcg

One teaspoon is 5 milliliters or 1/6 U.S. fl Oz

One tablespoon is 15 milliliters or 1/2 U.S. fl Oz or 3 teaspoons

1 Oz is 29.5770482 ml or 6 teaspoons or 2 tablespoons

Suggested Daily Amounts:

The World Health Organizations Guidelines for Drinking Water Quality states "It is unnecessary to recommend any health-based guidelines for silver as it is not hazardous to human health."

According to EPA, the daily dose believed to be safe is 350mcg of silver daily, for up to 70 years.

The EPA also estimates that a person could safely take up to 5mcg of silver per kilogram of body weight each day without side effects. 1 kilogram = 2.20462262 pounds. 5mcg / kg = 2.26796mcg / pound.

To Determining the amount needed, begin with the suggested amount of 100mcg per day. Individual response may vary from the average amount of Colloidal Silver needed for optimum benefit, for most people. Some people will require less, and others will find they need to take more. Use half the suggested amount for young children, and one fourth for babies.

After taking 100mcg of Colloidal Silver daily for four days, adults may cut back to 50mcg daily (and proportionally, by body weight, for children)

The average adult will typically consume from 1500mcg to 3000mcg of Colloidal Silver monthly.

In the event a person begins taking Colloidal Silver while having a cold or flu, or for any other virus, bacteria or fungus, the daily amount should begin with triple the dosage.

Once well, revert to the standard dosage.

Other Sources suggest:

Take 75mcg per day as a preventative.

Take double your daily amount, or 150mcg per day during an epidemic, as a preventative.

Take 200mcg to 300mcg per day or $2\frac{2}{3}$ to 4 times your daily amount for treatment of an illness.

These merely provide a guideline, by which to start from.

You will need to determine what is effective for you, which may be more, or less.

These guidelines are independent of the concentration, or quality of the Colloidal Silver being consumed. Concentration, and Quality, will affect the actual quantity required, to produce the specific optimum dose, one wishes to maintain.

The following information may be informative:

In 1940, under normal circumstances, the average daily intake of fruits and vegetables would provide between 50 and 100mcg of silver, as a trace element.

Since that time, commercial farm soils have become extremely deficient in trace minerals.

According to the Earth Summit Report, issued in 1992, the levels of soil based minerals in North America have dropped over 85%, in the last 100 years.

Two teaspoons of high quality 5 PPM colloidal silver provides about 50mcg of silver, and could be considered a "nutritional" amount, if taken on a daily basis.

Any amount above four teaspoons per day, or 100mcg, might be considered a "therapeutic" amount.

Some people will feel achy and sluggish, soon after, to about the third or fourth day after beginning Colloidal Silver daily.

This is called a healing crisis.

This is when the body expels a great many entrenched toxins at once.

The eliminatory organs can become overloaded, in which case it is recommended to drink lots of extra water to help one's body flush out the toxins.

Drinking lots of water will lessen the symptoms rapidly.

If a person, taking the daily amount, finds that he or she will still occasionally have an infection, one may increase, and even quadruple the Suggested Daily Dose.

There should be no danger of overdosing; however, very few people ever need four times the Suggested Daily Dose.

When you are taking the proper Daily Dose, you should be maintaining a level, where you no longer experience Infections, Colds or Flu.

Since prevention is the idea here, one may err on the side of safety, by taking slightly more than a perfect minimum. One never knows when there may be a sudden major outbreak of some pathogen, in

such numbers as to overwhelm the combined defenses of an immune system, fortified with only a minimum level of Colloidal Silver.

If an attack of pathogens happens to be stronger than the immediate combined defense level of the body's natural immune system, plus a particular level of daily Colloidal Silver, one may feel some illness, or worse.

With kids in school, during Cold and Flu season, you will probably want to take more, and maintain a higher level.

Some people experience a depletion of the friendly bacteria in their digestive tract, from time to time, and should supplement by eating Yogurt, Swiss cheese, or other products containing probiotics, such as lactobacillus acidophilus, or lactobacillus bulgaricus, to replace friendly bacteria.

It has been reported that oral administration of colloidal silver is safe and beneficial for pregnant and nursing humans.

Seamless Daily Use:

Add the amount from the chart below based on beverage container size, and the PPM of the Colloidal Silver you are adding to it, to your favorite beverages.

This will provide everyone in the family with a general daily intake comparable to the averages from the 1940's daily dietary intake. This is NOT strong enough to cure an illness. It is only a preventative amount.

Beverage Chart							
PPM	Container Size						
	8 Oz 1 Cup	12 Oz 1 Glass	32 Oz 1 Quart	33.8 Oz 1 Liter	64 Oz ½ Gallon	67.6 Oz 2 Liters	128 Oz 1 Gallon
5	2 tsp	1 tbsp	4 tsp	4 ¼ tsp	8 tsp	8 ½ tsp	16 tsp
10	1 tsp	1 ½ tsp	2 tsp	2 ⅓ tsp	4 tsp	4 ¼ tsp	8 tsp
13	¾ tsp	1 ¼ tsp	1 ⅔ tsp	1 ⅔ tsp	3 ⅓ tsp	3 ⅓ tsp	6 ⅓ tsp
15	⅔ tsp	1 tsp	1 ⅓ tsp	1 ½ tsp	2 ⅔ tsp	1 tbsp	5 ⅓ tsp
18	⅔ tsp	¾ tsp	1 ⅓ tsp	1 ¼ tsp	2 ¼ tsp	2 ½ tsp	4 ½ tsp
20	½ tsp	¾ tsp	1 tsp	1 ¼ tsp	2 tsp	2 ¼ tsp	4 tsp
22	½ tsp	⅔ tsp	1 tsp	1 tsp	2 tsp	2 tsp	3 ⅔ tsp

NOTE: When there is greater exposure to illness in a household, it may be wise to increase this dose to keep everyone else from contracting the illness. This increase may be up to 4 times the amount or more. Increased exposure times include: During the cold and flu season, when children are in school, or when someone at home, school, or work has contracted something, and there is exposure. 8 tsp = 1 ⅓ Oz. Amounts have been rounded up to insure minimum dose of 50 mcg per cup used.

Colloidal Silver Ingestion Process:

Colloidal silver can enter the blood stream directly by at least four different means.

The **first** way is ingestion (swallowing it).

Upon ingestion (swallowing), the ionic silver present in most colloidal silver solutions, some will immediately come into contact with the hydrochloric (HCL) acid that normally exists in the stomach, to digest food. The chloride ion from the hydrochloric acid combines at once with the silver ion, to form silver chloride, an insoluble silver compound. Since hydrochloric acid does not dissolve metallic silver, the silver particles remain unaffected by the stomach acid.

Not all Silver ions are rendered converted to Silver Chloride in your stomach acid.

Digestion begins in the mouth, where most soluble minerals are isolated by your metalloproteins in saliva, for safe transport. Please note that this references ions, not metallic atoms, crystals or salts! While body electrolytes can release a few ions of silver from metallic silver it is far from the benefits of the direct oral intake of trillions of silver ions establishing a therapeutic dose in the blood!

At 5PPM, there are over 100 trillion ions / tablespoon, a number comparable the number of cells in a human body!

Metallic ions, either free or disassociated from dissolved soluble salts are both absorbed sublingually and/or isolated by ligands in the saliva, usually metalloproteins. This is the main reason you should swish the Colloidal Silver around in your mouth before swallowing it. Metallothionein (MT) is a relatively small molecule that binds heavy metals including silver, iron, zinc, cadmium, and copper, and is made by most of the cells in the body.

Your saliva has over 200 different proteins and one third of body proteins are metalloproteins which carry metallic ions. Therefore, unstable, reactive ions (missing one or more electrons) can be transported past the stomach and thru the circulatory system without local reactions. Metal ion substitution permits even a zinc metalloprotein to take up the silver ion and release the zinc ion. The free, ionized zinc, which would be toxic if permitted to accumulate, binds to a metal regulatory element on the promoter region of the metallothionein gene and "turns on" the synthesis of more metallothionein.

Some of the remaining silver particles, due to their nanometer size, will pass easily through the lining of the gastro-intestinal tract, and will be absorbed into the bloodstream where they will be circulated, and come in contact with pathogens, which will be killed on contact.

The silver chloride that precipitates in the stomach consists of large molecules.

Silver chloride that is not absorbed into the bloodstream will be passed out of the body, with solid waste.

Silver chloride that does get absorbed through the lining of the GI tract, into the bloodstream, will aid in the removal of heavy metals such as Lead, or Mercury, before being removed by the kidneys, and passed out of the body, in urine.

The **second** way colloidal silver can pass directly into the blood stream is by sublingual absorption.

The thin membranes under the tongue will pass the small particles and ions directly into the blood stream.

Once in the blood stream, the particles will circulate with the blood, but the ions will immediately combine with the plentiful supply of chloride ions in the serum.

Human blood serum contains a large quantity of sodium, and potassium chloride.

The chloride ions are present in the serum in high concentration, typically 3500 ppm.

The chloride ions immediately combine with the silver ions, to form silver chloride.

The large silver chloride molecules will be removed from the blood stream, by the kidneys and passed out of the body in urine.

The **third** is rectally.

Once in the intestine the Colloidal Silver is absorbed directly into the blood, and is circulated throughout the body.

Once in the blood stream, the particles will circulate with the blood, but the ions will immediately combine with the plentiful supply of chloride ions in the serum.

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The chloride ions are present in the serum in high concentration, typically 3500 ppm.

The chloride ions immediately combine with the silver ions, to form silver chloride.

The large silver chloride molecules will be removed from the blood stream, by the kidneys and passed out of the body in urine.

The **fourth** is through the lungs by using a nebulizer, to convert the colloidal silver into micron size droplets, and then inhaling these droplets.

The small size of the silver particles and silver ions will pass through the lung tissue, directly into the blood stream.

Once in the blood stream, the particles will circulate with the blood, but the ions will immediately combine with the plentiful supply of chloride ions in the serum.

Human blood serum contains a large quantity of sodium, and potassium chloride.

The chloride ions are present in the serum in high concentration, typically 3500 ppm.

The chloride ions immediately combine with the silver ions, to form silver chloride.

The large silver chloride molecules will be removed from the blood stream, by the kidneys and passed out of the body in urine.

Conclusion:

Silver ions cannot exist for long, in the human body, regardless of the entry mechanism.

Silver chloride is 300 times less effective than Silver Particles, but has been used as an antidote for mercury poisoning, assisting in the elimination of mercury.

Because Silver ions are easily converted to less effective Silver Chloride, it should be swished around in the mouth before swallowing it, and an ideal Colloidal Silver for ingestion would maximize the percentage of particles, and minimize the percent of ions.

Since typical colloidal silver products contain a very high percentage of ionic silver, there is a lot of potential for improvement, by reducing the ionic content, while increasing particles.

For other uses, such as external, Silver ions are not be an issue, and may even be desirable.

Colloidal Silver, currently, always contains both particles, and ions, and the percentages of particles to ions vary, based on the processing method used to create the colloid.

When consuming Colloidal Silver, one is in essence, ending up being treated by at least 3 Silver entities, Silver particles, Silver ions, and Silver Chloride.

Many modern vaccines contain mercury, which is bad for you, and is not eliminated from the body, without help. Silver Chloride provides that help.

Other Silver Chloride uses include:

Mercury poisoning, assisting in the elimination of mercury.

Silver chloride is used in bandages, and wound healing products.

Silver chloride is used as an antimicrobial agent, in some personal deodorant products.

Silver chloride is used as an antimicrobial agent, for long-term preservation of drinking water in water tanks.

Body Level Build Up:

Five to seven days is average time for the initial benefit of Colloidal Silver to begin.

Body tissues having 5 parts per million (5 PPM) of Colloidal Silver will be free of virus, fungus, and bacterium.

Colloidal Silver will build up in the tissues, to at least a concentration of five parts per million (5 PPM) at, on the average, by the tenth day.

This is the MINIMUM effective concentration.

Higher concentrations are desirable, due to the risks of illness from major exposure to a disease outbreak, or major burn injury.

Body Level Elimination:

One to three weeks after cessation (again this varies with each individual) the Colloidal Silver effectiveness is finally lost, and is eliminated through the kidneys, the lymphatic system and the bowel.

90-99% of silver is removed by the body in two days, according to animal studies.

The remainder is removed in the following one to four weeks.

Suggested Colloidal Silver Delivery Methods and Equipment
Eye Dropper - Delivery to Eyes, Ears, and Nose
Dropper Bottle - Delivery to Eyes, Ears, and Nose/Sinus - with portable storage - take it with you, and treat conditions throughout the day. Talk to your Pharmacist about selling you bottles.
Spray Bottle - Throat, Topical Applications, Cuts, Bandages and Dressings, Rashes, Psoriasis, Acne, Nail Fungus, Disinfecting/Cleaning
Nasal Spray Bottle - Nose/Sinus. Talk to your Pharmacist about purchasing some of the empty bottles. Buy a cheap over the counter refillable nasal spray, and use it for the bottle.
Nebulizer - Delivery to lungs and respiratory system - Respiratory Infections, Lungs - Also gets a decent amount of Colloidal Silver into the blood. Use Ultrasonic not a pressure delivery system, to get more Colloidal Silver delivered to the lungs, and a COLD mist for greater absorption into the blood, NOT hot.
Rectal Delivery System - When you need to get allot into your blood to fight off an infection (in place of an antibiotic, but also works for Flu/Viruses, and Parasites as well). Syringe recommended over Bulb type delivery system. With the bulb it is possible / likely to cross contaminate the bulb, by accidentally drawing back into the bulb.
Sublingual - Absorbed from under the tongue - Not as effective as Rectal, as you will absorb smaller amounts.
Ingestion – Many people claim results, in spite of others claims that acid neutralizes the Silver Colloid. Proteins in Saliva bind with the Silver to allow it to be absorbed unaffected by the acid.
Ultrasonic Humidifier - Use it like a Nebulizer
Injection - This can and has been done, and is safe and effective - Highly unlikely anyone will - Rectal Delivery will probably be the choice for most, in situations requiring large doses.
Electrode Cleaning - Scotch-Brite
TDS Meter - Measure the PPM (Parts Per Million) of Total Dissolved Solids in your Colloidal Silver Solution - temperature compensated, no calibration solution required

PH Meter - Measure the PH of your Colloidal Silver Solution, for beneficial Alkalinity. Higher PH is beneficial to ones immune system. PH Strips are cheaper.

LASER Pointer - Use to visually verify the Tyndall Effect in your Solution. Must be a visible LASER. LASER's and LED's are a single Color Light Source.

LED Flashlight - Use to visually verify the Tyndall Effect in your Solution, and may be more practical to you than a LASER. A regular flashlight will not work.

Timer - To time the solution heating, and electrode cleaning process.

Multimeter - Used to set the adjustable current setting - Hint: Clip one of the left over 1k resistors in place of the electrodes, and adjust the current set point.

Clip Leads - Used to clip your multimeter in series with one electrode, to monitor the current, or across the output, to monitor the voltage, while one makes their batch.

Magnetic Stirrer with Hot Plate - Heat and stir your batch during the entire process.

Hot Plate - Use to maintain constant heat on the solution during processing - A lower priced heating solution - Smooth top better for stability of small containers

Beakers

Erlenmeyer Flask (With FREE Stoppers)

Container – for your batches - A graduated, polypropylene container / travel cup is available at Walmart, in a variety of colors. It includes a snap shut / spill proof lid. It will have PP (indicating polypropylene) under the recycling symbol, on the bottom of the container.

Suggested Methods of Treatment

NOTE: When treating a problem, Fresh Batches work the BEST!!!

The reason for this is that the particles in the high quality solution have not had a chance to agglomerate, into larger particles, as the fresh Colloid stabilizes.

That means that when the batch is fresh, it has the largest number of the smallest particles it will ever have!

A stabilized batch is very effective, and a fresh batch is the most effective, the batch will ever be.

This effect is illustrated by the drop in PPM, of any fresh batch, over the first few hours, as it stabilizes, coupled with a corresponding increase in the batches Tyndall effect.

There is not less Silver in the Colloid, just less of the smallest sized particles, indicated by a lower PPM. The particles have agglomerated into fewer larger particles, indicated by the stronger Tyndall Effect. This effect is unavoidable, and inherent in all batches of Colloidal Silver, when extremely small particles have been produced.

In batches that already have large particles, one will not observe this effect, and those batches will commonly be yellow to the eye, already indicating large particles.

Dosage for a condition should of course, is SIGNIFICANTLY HIGHER than that intended for daily use. Treating conditions in the body typically requires repeated treatment, over time.

Objective of any successful treatment:

Even with an excellent Colloidal Silver, one cannot successfully treat ANY condition, unless one

can deliver the Colloidal Silver EFFECTIVELY to the infected area.

Remember that statement, because it is literally the key to any effective Colloidal Silver treatment! If it is not working, you are not delivering it effectively!

This is not always as easy as one might think! There are a few tricks, which will GREATLY improve the effectiveness of the treatment, and your chance of success.

Below are some suggestions which will increase the effectiveness of one's Colloidal Silver treatment, for any of a number of common ailments.

Some small details, like in some cases, massaging the Colloidal Silver in, for example, literally make all the difference between success, and failure.

While Colloidal Silver is capable of killing ALL pathogens, delivering it to the pathogen, once the pathogen has entered a human body, can in some cases be extremely difficult, but not impossible! While Colloidal Silver may kill a pathogen on contact, within minutes, outside the body, the limited ability to effectively deliver Colloidal Silver inside the body, to some pathogens, will most likely cause one to require repeated, regular treatments, in the most effective manner possible, over a period of time, in order to fully eliminate the pathogen. This is not unlike taking regular, repeated doses of any medication, over a period of time, in order to eliminate a pathogen.

It has also been suggested that a very small electrical current, combined with Colloidal Silver, increases its effectiveness 300 X (Beck's Protocol).

Substitution for an Eye Dropper - If you do not have an eye dropper, use a clean straw, or tube as a pipette by submerging one end in the Colloidal Silver, and placing your finger over the other end. Lift the liquid out, and position it over the area you wish to deliver the colloidal Silver to, and remove your finger.

This may be done in a controlled manner to regulate the release of liquid.

Sinus Infection, Allergy, Hay fever - Lay on a bed on your back, and tilt your head way back over the edge of the bed, inverting your sinus. With an eye dropper, drop drops into your nose in sufficient quantity to flood into your sinus cavities. Remain in that position for a few minutes, in order to keep the Colloidal Silver where your sinus cavities are, possibly adding more colloidal silver. Move your head around slightly, during those minutes, in order to insure the Colloidal Silver penetrates you sinus cavities well. Gently and slow in and out controlled breathing through the nose may also increase penetration of the Colloidal Silver. Do not breathe so hard as to suck down, or blow out the Colloidal Silver. The idea is to increase contact, and penetration, not eliminate the Colloidal Silver. Repeat frequently throughout the day, until you achieve the desired result. A refillable nasal spray bottle is an excellent delivery method to use as well as the dropper, and will provide penetration the dropper may not. This quickly eliminates sinus trouble. There will be pain associated with inflammation which will decrease as inflammation heals.

Ear Infection - Tilt your head sideways, so that the infected ear is up. Using the Eye Dropper, fill the ear with Colloidal Silver, in sufficient quantities to flood your ear. Keep your head that way, moving it around slightly in order to insure the Colloidal Silver penetrates, as well as possible. Keep your head that way for several minutes, in order to allow the Colloidal Silver time in the ear. Do this once in the morning, and once at night. Increase dosage if necessary. Repeat frequently throughout the day, if possible. Continue treatment until you achieve the desired result. It should take about a week, to 10 days to fully cure.

If the infection is inner ear, it may take 2-3 weeks to fully cure. The Colloidal Silver will immediately relieve any itching, or burning sensations.

Eye Infection (Conjunctivitis) - Tilt your head back, and using the Eye Dropper, drop several drops of Colloidal Silver into your eye.

Repeat frequently throughout the day, until you achieve the desired result.

If infection returns after it is cured, it may indicate that the infection is in the sinus. They are connected. Try attacking it from both ends, the eye, and the sinus.

Sore Throat / Strep Throat - Use a small (2 oz.) spray bottle containing Colloidal Silver, and open your mouth and spray the back of your throat frequently, throughout the day, until you achieve the desired result. Keep it with you and use as often as you like!

Respiratory Tract Infections - Use a nebulizer, loaded with Colloidal Silver, and breathe the Colloidal Silver mist deep into your lungs.

Repeat as needed to clear the infection.

Cuts - Spray Colloidal Silver onto the wound, and dressing to prevent infection, and promote healing. Colloidal Silver Does NOT Sting or burn.

Colloidal Silver may be used as the only medication on the dressing, or it may be used with another medication. Continued use of the Colloidal will minimize scarring.

Burns - Spray Colloidal Silver onto the burn, and bandage. Bandage lightly, keeping the bandage moist with Colloidal Silver. Change the bandage daily.

Eczema and skin rash - Dab Colloidal Silver directly onto affected area, rubbing slightly.

Repeat often to keep the area moist with Colloidal Silver.

Bandage lightly, if desired, keeping the bandage moist with Colloidal Silver. Change the bandage daily. Massaging Colloidal Silver in improves effectiveness.

Warts - Cover the wart with a small adhesive bandage saturated with a few drops of Colloidal Silver. Keep the bandage moist.

The wart should disappear within a few days. Large warts may take a few days longer to disappear.

Acne - In addition to omitting sugars, fats and chocolate from the diet, any person with acne should wash and rinse the face thoroughly four times a day.

After each rinse, take a small amount of Colloidal Silver and massage it onto the problem areas two to three times with a finger, a tiny piece of cotton, or tissue.

This wash-rinse-massage activity may be continued throughout an acne breakout.

It may also be used as a continuous prevention through the teen years. This continuous habit precludes breakouts, leaving the skin continuously clear.

Most people find it helpful to carry a small bottle of Colloidal Silver with them, for availability throughout the day.

Dandruff - Wet the scalp with Colloidal Silver, using the spray bottle, and then briskly massage the Colloidal Silver into the scalp.

Part the hair into small sections, and apply to small areas at a time, massaging it into the skin!

Massage into the skin using fingers, and / or a soft brush.

Once to twice per day (If Possible) until flakes are gone, then you may reduce treatment to twice per week. Repeat frequently, until you achieve the desired result.

Add Colloidal Silver to shampoo. Shampoo can temporarily remove oils from the scalp, which

may be preventing the Colloidal Silver from reaching its target.

Teeth, Inflamed gums, and / or excessive plaque - Brush the teeth once daily with Colloidal Silver. That will eliminate any gum disease, and the bacteria that cause plaque. Use a NEW toothbrush, dip it in, or spray it liberally with Colloidal Silver, and brush. Do not use tap water. Shake brush out when done, and let dry, for next time.

Intestinal Problems / Digestion - Put all, or a fraction of the recommended daily amount of Colloidal Silver, as determined by titration, into the beverage of choice accompanying any meal. As the food is digested, the presence of Colloidal Silver will keep the food from putrefying in the digestive tract, killing any germs ingested with the food, and leaving the food more useable. Also there may be reduced flatulence.

Stomach or Intestinal Virus - Gastroenteritis - Dosage 200 ml or more of Colloidal Silver, followed immediately by a good sized glass of water to push the Colloidal Silver into the intestine, rather than allowing it to be absorbed by the stomach.

Diarrhea and Diarrhea Diseases - A number of diseases such as cholera, canine parvovirus or other diseases, where the pathogen resides mainly in the large intestine, can be fatal. The fatality is mostly due to the dehydration of the body resulting from severe and prolonged diarrhea and vomiting.

The pathogen causing the problem is active in the large intestine, the one place where Colloidal Silver when used correctly will not penetrate.

There are two different methods to overcome this barrier.

The first is to take a 200 ml glass dosed with Colloidal Silver, together with three or four big glasses of water, on an empty stomach.

This way the Colloidal Silver will get into the large intestine, and should within a short time, take care of the problem.

The other method is by way of Colonic Irrigation the dose rate using a 50mg. Colloidal Silver preparation is 15 ml per 200ml. of sterile water.

This method in fact brings the fastest relief from the disease. Medical literature reports that Cholera has been cured with Colloidal Silver.

Parasitic infections - Take an amount of Colloidal Silver, as determined by titration to preclude parasitic diseases caused by tiny, worm like animals that burrow through a particular organ, or in some cases throughout the entire body. In every case, these parasites reproduce by laying eggs and these eggs have the same characteristics of the oxygen-metabolizing enzyme as the single celled bacterium. These eggs cannot hatch when there is sufficient Colloidal Silver in the surrounding body tissue. They are killed within a short time and subsequently eliminated by the immune system.

Cysts - Spray each cyst with Colloidal Silver, it will eventually turn black, burst and look like dried blood.

Cataracts - 1 dropper of Colloidal Silver in each affected eye, twice daily for 2 weeks or longer. The cataract will start to fade in color and treatments can stop once you can no longer see a cataract.

Ears & Hearing Loss - This can occur at any age, for a variety of reasons.

Use 1 dropper of Colloidal Silver in each ear, twice daily. You should notice a hearing improvement BEGIN, after 10 days.

Healing Crisis - This is a condition wherein the Colloidal Silver is killing the pathogens very rapidly. The body's five eliminatory systems, the kidney, liver, skin, bowel and lungs become temporarily overloaded.

This especially is true in the case of overcoming AIDS with Colloidal Silver.

One may feel as though he or she has the flu.

It is recommended to continue the silver regimen, yet DRINK UP TO 4 LITERS OF WATER A DAY, take five or six grams of vitamin C and even possibly a high enema if the condition is really bad. Repeat for two or three days. Please note if the healing crisis persists see your local practitioner for additional advise.

Conditions Colloidal Silver has been known to treat - incomplete list		
There are over 650 known conditions it has successfully treated		
The most important factor to consider in ANY treatment is that effective treatment requires getting the Colloidal Silver to the infection!		
Eliminate infection, and promote healing of both Gram Negative & Gram Positive infections - Broad Spectrum	Most conditions of the gums A powerful deterrent to cavities	Antibiotics Resistant Strains
Cuts	Cuts to prevent, or cure infections and to accelerate healing by stimulating cell growth	Bird Flu
Sinus infection	Blood Poisoning	Avian Flu - H3N2
Sore throat	Lyme Disease	Tuberculosis
Strep throat	Meningitis	Malaria
Eye infections - conjunctivitis	MRSA	Bubonic Plague
Ear infections	Hepatitis	SARS
Septic conditions of the eyes, ears, mouth and throat	Herpes	Anthrax - Bacillus subtilis
Respiratory tract infection	Gonorrhea	H1N1 - Swine Flu
Bronchitis	Boils	H5N1
Rhinitis	Colitis	P. aeruginosa
Pneumonia	Cystitis	S. Aureous
Retro Viral Infections	Diabetes	cholera
Septicemia	Dysentery	S. Choleraesuis
Stomach flu	Encephalitis	Cancer - @ 20PPM or Higher
Strep Infections	Fibrositis	Skin cancer
Tonsillitis	Gastritis	Leukemia
Abscessed teeth, or cavities	Canine Parvovirus	HIV / AIDS
Whooping Cough	Chilblains	Gastroenteritis
Burns - Burn treatment	Food Poisoning	Tooth and Gum Infections
Dandruff	Impetigo	
Dermatitis	Keratitis	
Seborrhea	Leprosy	
Eczema	Lupus	Ingrown Toe Nails
Psoriasis	Lymphangitis	Food Poisoning
Rash	Lalaria	
Scarlet Fever		
Acne		
Nail Fungus		

Athletes Foot Allergies Hay fever Arthritis Gingivitis Halitosis Yeast Infection Vaginosis Urinary Tract Infection Bladder Infection Indigestion Abdominal Pain Diarrhea Appendicitis Ulcerated Stomach Candida Warts Ringworm Eliminate Parasites, Blood parasites, and Parasitic Infection Shingles Pelvic Inflammatory Disease	Neurasthenia Pleurisy Prostate Infection Pruritus Ani - Anusitis Purulent Ophthalmia Salmonella Staph Infections Syphilis Thyroid Toxemia Virus, all forms	
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Other Uses for Colloidal Silver - incomplete list

Disinfectant used for cleaning - Use with a Spray Bottle.

Deodorant - It kills the bacteria responsible for odor. Use the Spray Bottle, and just spray it on.

Best deodorant I have ever tried!!! Will eliminate already existing odor, too!!!

After Shave - Spray on face, or on hands and rub on face. Ladies can use it on their legs, and underarms. It will prevent soreness, and infection, and will not burn like products containing alcohol.

Shoes and Sneakers - Sprayed in the shoe, keeps foot odor away.

Gym Bags - Spray it in to eliminate odor.

Hand Towels - Keeps heavily used hand towels from getting that dank, musty wet rag smell. Just spray it on.

Food Preservative - Keeps your food free from bacteria.

See Section on Using Colloidal Silver as a Preservative.

Use as a preventative measure against Colds, Flu, and Infection. See Suggested Daily Dosage.

Treat Water @ 1PPM or 25 to 75 mcg / L - Also See Section on Using Colloidal Silver as a Preservative.

Here is a list I found of alternative uses:

Personal care:

Spray under arms as a deodorant.

Use for gargling to ease throat.

Use as a Mouth wash.

Clean under nails, in ears and navel with a soaked Q-tip.

Wipe hearing aids and eyeglass frames.

Spray contact lenses.

Eye drops

Sterilize tooth brushes.

Soak dentures.

Add to bath water, douches and colonics.

Add to dental Water-Pik.

Soak/spray combs, brushes and loofas.

Spray bath and shower mats.

Spray on cosmetics.

Kitchen:

Spray on surface of, or add a few drops to leftovers and condiments before storing in refrigerator.

Rinse or spray vegetables, fruits, grains and meats before using or storing.

When canning, add ½ tsp. per quart.

Spray or rinse sprouts.

Spray storage area, interior of refrigerator, lunch kits, and garbage containers.

Spray cutting boards, sponges and dish cloths.

Add to dishwasher.

Household Cleaning:

Add to cleaning solutions.

Wipe telephone mouthpieces and head phones.

Spray furnace and air conditioning filters after cleaning.

Wipe air ducts and vents.

Rinse toilet seats and bowls, sinks, tiling and doorknobs.

Spray carpets, drapes, mattresses, furniture, and window sills.

First-Aid:

Spray on Band-Aids.

Spray on razor cuts.

Spray on pimples.

Spray between toes, in groin or any area that itches.

Use in bath water.

Feed directly by dropper or add to water dish.

Clothes:

Spray in shoes.

Mist clothes before storing.

Spray in gloves.

Spray onto watch bands.

Add to rinse water of laundry-especially for diapers.

Plants:

Water and spray plants.

Other:

Add to picnic foods containing mayonnaise to prevent food poisoning. Keep covered and cool as well!

Add to pools, hot tubs and foot baths.

Add to children's paste and paint pots.

Disinfect Children's toys, as well as items in contact with many people safely, non-toxically, and prevent the spread of colds, and flu. Spray items with a Spray Bottle.

The Herxheimer Reaction:

The Herxheimer Reaction - Feeling worse before feeling better

The Herxheimer Reaction is a short-term (from days to a few weeks) detoxification reaction in the body. As the body detoxifies, it is not uncommon to experience flu-like symptoms including headache, joint and muscle pain, body aches, sore throat, general malaise, sweating, chills, nausea or other symptoms. I personally liken it to a hangover.

This is a normal — and even healthy — reaction that indicates that parasites, fungus, viruses, bacteria or other pathogens are being effectively killed off.

The biggest problem with the Herxheimer reaction is that people stop taking the supplement or medication that is causing the reaction, and thus discontinue the very treatment that is helping to make them better. Although the experience may not make them feel particularly good, the Herxheimer Reaction is actually a sign that healing is taking place. The Herxheimer Reaction is an immune system reaction to the toxins (endotoxins) that are released when large amounts of pathogens are being killed off, and the body does not eliminate the toxins quickly enough.

Simply stated, it is a reaction that occurs when the body is detoxifying and the released toxins either exacerbate the symptoms being treated or create their own symptoms.

The important thing to note is that worsening symptoms do not indicate failure of the treatment in question; in fact, usually just the opposite.

Technically known as the Jarisch-Herxheimer Reaction, this syndrome goes by many names, including JHR, the Herxheimer Effect, the Herxheimer Response, a Herx Reaction, Herx or Herks.

The most common terminology used is the Herxheimer Reaction.

It is also often referred to as a healing crisis, a detox reaction, or die-off syndrome.

Herxheimer reactions in response to Colloidal Silver can occur as the body adjusts to the die-off process and responds to the increased load on the lymphatic system — particularly in cases of systemic and chronic conditions and/or severe infections.

The **most common Herxheimer reactions** for users of Colloidal Silver are:

Headache, and Flu-like symptoms (or hangover symptoms), Itch and rashes, Flushes

Usually, the reaction lasts a few days.

In more severe cases, reactions can last a week or more.

In most cases, the reaction tends to be mild and barely noticeable, but there are exceptions, particularly in cases of severe infection.

Certain conditions, such as Multiple Sclerosis, Lyme disease and other spirochetical illnesses can engender noticeable Herx Reactions as the disease-causing pathogens are killed off.

Users of Colloidal Silver who take the product for Hepatitis may also experience die-off symptoms, such as headache.

Those inhaling silver to treat lung and sinus infection may also feel immediately worse for a few hours or a day before starting to feel relief.

Herx reactions vary widely, depending on many factors, including the general health of the individual, the condition being treated, the degree of toxicity that exists in the body, the frequency and dosage of Colloidal Silver taken, and the support the body is provided in eliminating the toxins as rapidly as possible. Method of use is also factor.

For example, applications that allow concentrated dosages of Colloidal Silver to come in direct contact with the source of infection are more likely to result in a die-off reaction than oral use.

Colloidal Silver does not cause the Herxheimer reaction.

Colloidal Silver is non-toxic, and a healthy individual will notice no reaction at all, to Colloidal Silver.

However, if there is infection in the body, a Herxheimer reaction may result as the infection is killed off.

The severity of the Herx reaction is often an indicator of just how much toxicity there was in the body to begin with, and is an indicator of the effectiveness of the treatment.

It is actually a sign that the body is restoring itself to good health.

There is differing data on the timing of a Herxheimer reaction.

Some data indicates that it usually occurs between four and 24 hours from the onset of treatment.

Others note that between Day 3 and Day 5 of a treatment program is often when the reaction is most noticeable.

What appears to be most accurate is that reaction times, and indeed whether there will be any reaction at all, are strictly dependent on the individual being treated.

Duration of the reaction also varies widely, from an hour, or a few hours, to days, or even a week.

If the reaction is mild enough that it can be borne without grave discomfort, the best approach is to continue treatment and assist the body in eliminating the toxins as quickly and as thoroughly as possible by the methods below.

If the reaction is too severe, cutting back on the dosage or frequency of use can be very helpful in lessening symptoms but allowing the healing process to continue.

Sometimes stopping for a day or so and then beginning again at a lesser dosage can allow for quick relief.

The best assistance for the body is drinking plenty of distilled water (a half gallon a day is recommended).

Other helpful suggestions include:

Getting plenty of sunshine

Minimizing exercise for the detox period

Keeping the organs of elimination (the bowels, lungs, skin, kidneys, lymph) functioning properly.

Keep your diet relatively pure during the detox period, so that the body is not loaded down with additional chemicals and toxins to eliminate. Those systems will already be working hard!

Adding lemon to the water, taking cold press olive oil, first thing in the morning, taking sea salt baths, and / or steam baths, and saunas, plus liver, and elimination system supports can also be helpful, though any herbal supplements should be kept to a minimum and should be very mild and gentle in nature.

The most important advice in relation to Colloidal Silver use and the Herxheimer reaction is to "bear with the process".

The reaction is usually over within a few days, and is well worth the cleansing, and healing results.

Plus, it is a sure sign that the Colloidal Silver is doing its job, and working to help restore your body to natural health!

Any serious symptoms such as cardiac irregularity; breathing difficulties; chest, lung or throat constriction; significant swelling; or other severe symptoms should be given immediate medical attention.

Using Colloidal Silver as a preservative for Food and Water:

Water treatment with Colloidal Silver – making water biologically safe to drink:

Note: This does not remove debris, or harmful chemicals from water; it only neutralizes biological contamination in making the water safe to drink. The recommended amount for high germicidal efficacy is in the range of 25 to 75 micrograms of silver per liter (25 - 75 mcg/Liter). See the “Dose Chart” in the “Concentration” section at the beginning of this manual, to determine how much Colloidal Silver you should add per the volume of water being treated, and based on the PPM of the Colloidal Silver being added. To do this, simply multiply 25 to 75 (mcg) times the number of Liters of water being treated, and then use the Dose Chart at the beginning of this manual to determine the amount of Colloidal Silver to add to the water, based on the PPM of the Colloidal Silver being added. This would also equate to a .025 to .075 PPM increase in the water PPM due to the addition of the Colloidal Silver. 1PPM = 1000mcg/L
NOTE: 25 to 75mcg / Liter is approximately equivalent to 95mcg to 284mcg / Gallon (rounded up).

Using Colloidal Silver as a Preservative for Food and Water

Water purification - Colloidal Silver is an excellent water purifier!

Water stored with 25 to 75mcg of Silver per liter will be safe and sweet tasting, for a very long time.

Water containing biological contaminants (not toxic chemicals) can be made safe, by 25 to 75 micrograms of silver per every liter of water.

The Silver, while purifying the water is also beneficial to the body, unlike the commercial tablets containing toxic chlorine bleach!

After testing 23 methods of purifying water, NASA selected a Silver system for its space shuttle.

Canned Food Preservative – 25 to 75mcg of Silver / 1 liter in home-canned foods precludes the growth of all bacteria, virus and fungus.

As the food is consumed, the presence of silver will aid in the digestion process by not allowing fermentation of starches contained in the food,

and will prevent the putrefaction of protein or rancidification of fats in the digestive tract.

It will also preclude formation of gas in the bowel, as well as food decay.

Questionable Refrigeration - In addition to keeping prepared foods cool and well-sealed, add 25 to 75mcg of Silver per 1 liter (volume) to picnic foods containing mayonnaise, dairy products, or anything that has a potential for Salmonella growth and poisoning. Stir in very well.

Leftovers and Condiments - Mix about 25mcg of Silver / liter into each container of mustard, ketchup or pickle relish.

Mix 75mcg of Silver / liter into items that spoil more easily, such as mayonnaise, or milk etc.

They will store longer, remain fresher and benefit digestion.