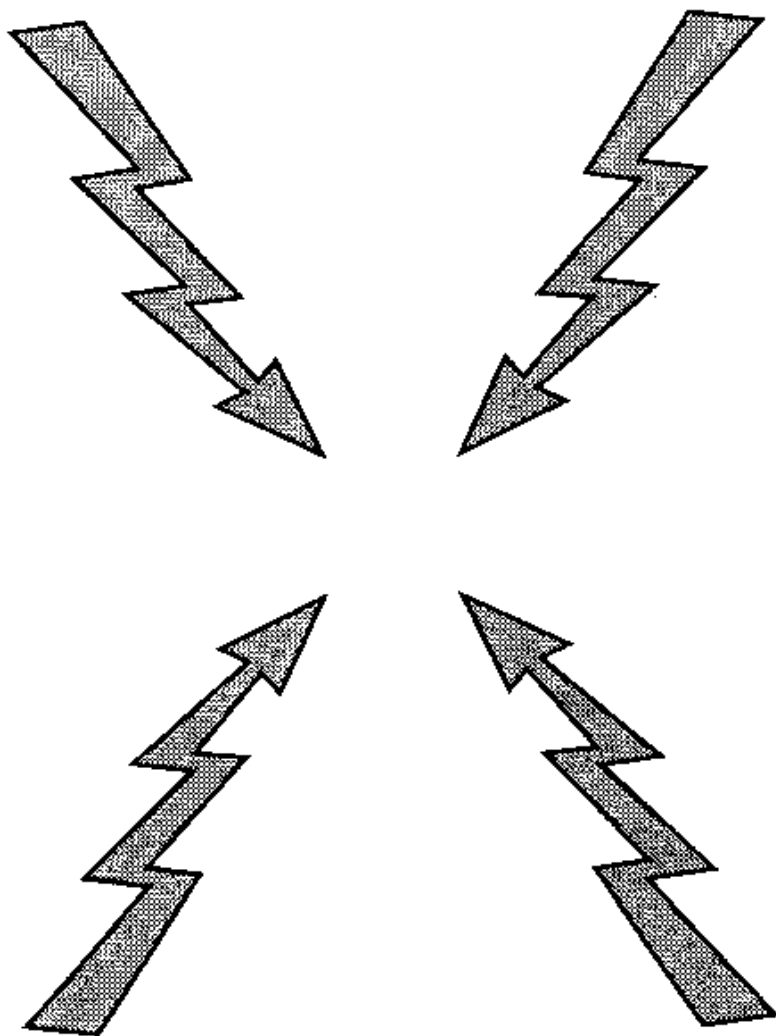


The Colloidal Silver Handbook



Contents

Chapter

1.	History of Colloidal Silver	3
2.	Colloidal Silver An Exceptional Antibiotic	7
3.	Colloidal Silver as a Preventative	12
4.	Other Established Uses of Colloidal Silver	13
5.	Veterinary Uses of Colloidal Silver	17
6.	Understanding the Colloidal State	18
7.	Care and Storage of Colloidal Silver	20
8.	Medical Studies and Other Testing	21
9.	Glossary	23
10.	Making Colloidal Silver	24
11.	Diagram	27

This information is brought to you courtesy of the Silver Education Coalition, Salt Lake City, Utah, USA. None of the data or information mentioned or contained in this book is intended to be used or construed as a substitute for professional medical care and advice by your health practitioner. The author assumes no responsibility for readers' use of the material and opinions expressed.

HISTORY OF COLLOIDAL SILVER

Silver is a powerful, natural antibiotic that has been used for thousands of years, with no harmful side effects ever having been observed.

Great Grandma put a silver dollar in the milk to keep it from spoiling as it sat on the back porch in summertime. Also, it is well-known that the ancient Greeks knew the medical value of silver. It was observed that those ancient families who ate from silver utensils rarely were sick and few infections. This knowledge passed onto kings, emperors, sultans and their families, and members of their royal courts. They ate from silver plates, drank from silver cups, used silver utensils and stored their food in silver containers. As a result of this use, silver was ever so slightly rubbed off and mixed in their foods. And after a generation or two, they received the full benefit from the silver particles, which found their way into the bodies of these people, hence they had little chance of getting any infectious illness.

These royals were called “Blue Bloods” because their skin had a blue tint, due to the accumulation of minute traces of pure metallic silver. The common red-blooded folk, however, ate from earthenware dishes with iron utensils and frequently were sick, whilst the royals enjoyed the freedom from infectious disease as early as from birth.

There are many historical references on Colloidal Silver. One of the most complete is published in “The Lancet” dated Dec. 12, 1914.

COMMON IN AMERICA PRIOR TO 1938

Colloidal Silver was in common use in America from the late 1800s until 1938. It was prescribed for a great variety of diseases and infections. There were none of today’s antibiotics available, and Colloidal Silver was used for just about everything. But Colloidal Silver was relatively expensive back then, just as today’s man-made antibiotics are expensive.

SAVINGS IN COST TODAY

Due to a recent breakthrough in the modernisation of an original, pre-1983 method of production, a more concentrated product is available at a tremendous savings in cost. Not only is Colloidal Silver much cheaper than it used to be, it is also much cheaper than today’s antibiotics. Furthermore, it is available without a prescription.

CURRENT MEDICAL INTEREST

Today, Colloidal Silver is rapidly gaining favour in the medical community, reflecting a kind of revival in the public health sector. Dr. Richard L. Davies, executive director of the Utah Silver Institute, which monitors silver technology in 37 countries, reported in 1978 "In four years, we have described 87 important new medical uses for silver. We're just beginning to see to what extent silver can relieve suffering and save lives."

Some contemporary references from which this information is drawn include Dr. Harry Margraf of the St. Louis University, Dr. Charles Fox of the Columbia University, Dr. Carl Moyer, Dept. of Surgery at the Washington University and the literature of Dr. Carl Becker – "The Body Electric" and "Crosscurrents". Other sources are listed in the references chapter of this booklet.

BLUE BLOODS TODAY

There are true Blue Bloods yet today. All those through the centuries who had the knowledge and resources to use medicinal silver are still Blue Bloods. (Why give up something that works, is simple, cheap and so good to important health?)

Many of the world's leaders, presidents, prime ministers, their families, their advisors and their families use daily Colloidal Silver. They know that they are exposed to extremely contagious disease on an almost daily basis because they are in the business of travelling and meeting many people. By taking Colloidal Silver daily, they can prevent the otherwise certain eventuality of contracting infectious disease.

There is another group of people who are also Blue Bloods. These are people who may not have their pictures in newspapers for making global decisions, but they have learned that sufficient daily Colloidal Silver will make anyone a true Blue Blood in about a week, preventing infection thereafter and vastly increasing the chance of surviving a severe burn injury or an outbreak of biotoxins and also enjoying an increased rate of healing and better digestion. They can find no other way so simple, so quick, certain or so cheap.

NO SILVER SPOONS TODAY

A thorough search reveals that today there are no silver spoons to be found on the market. If one wanted to purchase real silverware having pure silver on the business, or ladle end, it would be discovered that it is not available. There are some brands having silver inlaid in the ladles, but no silver on the end where it might wear off ever so slightly to the benefit of the user.

RECOMMENDED DAILY AMOUNTS

Individual response may vary from the average amount of Colloidal Silver needed for optimum benefit for most people. About 17 per cent, or one-sixth of the population will find maximum benefit from a less than recommended daily amount. And about another sixth will find they need to take more.

TITRATION

Determining the mount needed.

Begin with the recommended amount of one teaspoon a day, Use half the recommended amount for young children and one-fourth for babies.

After taking one teaspoon of Colloidal Silver daily for four days, adults may cut back to one half teaspoon daily (and proportionally, by body weight, for children).

The accepted method is for an adult to consume a 125 ml to 200 ml bottle of Colloidal Silver monthly, in any convenient increment any time during the month. 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 (one teaspoon three times a day) for three days, then follow the above regime.

Some people will feel achy and sluggish on the third or fourth day after beginning the Colloidal Silver daily. This is called a “healing crisis”. When the body sloughs off 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. This 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 even quadruple the RDD. There should be no danger of overdosing; however, very few people ever need four times the RDD.

Since prevention is the idea here, one may err on the side of safety by taking slightly more than a “perfect minimum” because one never knows when there may be a sudden major outbreak of some germ in such numbers so as to overwhelm the combined defences of an immune system fortified with only a minimum level of Colloidal Silver. If an attack of germs happens to be stronger than the immediate combined defence level of the body’s natural immune system plus a particular level of Colloidal Silver, one may feel some illness, or worse.

APPLIED KINESIOLOGY

Applied kinesiology is one other means of determining one's own individual need for Colloidal Silver, especially if the individual does not have a cold or other infection to begin with. Recheck from time to time, but always err on the side of excess. Kinesiology can be the most effective way to determine the optimum amount for infants, and very young children also.

BODY BUILD-UP AND ELIMINATION

Five to seven days is the average for the initial benefit of Colloidal Silver to begin. 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 risks of illness from major exposure to a disease outbreak or major burn injury. One to three weeks after secession (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.

COLLOIDAL SILVER

AN EXCEPTIONAL ANTIBIOTIC

Colloidal Silver is the only antibiotic known reportedly to kill all types of viruses, fungi and bacteria. Colloidal Silver is also the only antibiotic known to be perfectly harmless to all parts of the body. Whilst the liver and kidneys can be harmed by other antibiotics, Colloidal Silver promotes healing.

COMPARE WITH OTHER ANTIBIOTICS

Colloidal Silver is non-toxic to mammals, reptiles, plants and all living things that are not of a one-celled structure.

One-celled life uses a different method of oxygen metabolism. Herein lies its weakness. Since Colloidal Silver acts only as a catalyst, meaning it influences a change in the rate, or occurrence of a reaction of one-celled organisms, but does not enter into any chemical reaction with the body tissues. The mere presence of Colloidal Silver near any virus, fungus or bacterium (one-celled, disease-causing pathogens) will immediately cripple their oxygen-metabolising enzyme, or chemical lung, which suffocates and dies usually within six minutes. The dead organism is subsequently cleared out of the body by the immune and lymphatic systems.

Each of the other man-made antibiotics will only kill five or six types of germs. These bacteria are commonly referred to as Super Bugs, however, they are unable to form a resistance to Colloidal Silver, which will not kill only the bacteria, but also all forms of viruses, a feat no man-made antibiotic has managed to date! A further drawback of all other antibiotics is that they will destroy a variety of the body's essential enzymes, but Colloidal Silver doesn't disable or harm in any way the many different human body enzymes, as these enzymes are particularly different to the enzymes of single-celled life. Colloidal Silver actually promotes healing with less resulting scar tissue. No other antibiotic will do that.

NO DRUG INTERACTION WITH ANY OTHER MEDICINES OR HERBS

There has never known to have been a silver/drug interaction of any kind. The allopathic prescription pharmaceuticals of today are no more likely to react with silver in the body than did the surprisingly powerful herbs from which they were developed and used for thousands of years, right along with the silver. The chemical nature of silver is such that inside the body it behaves as to form no compounds that are toxic, and when already in the colloidal and stabilised state, is even further removed from any possibility of the tiniest problems. Colloidal Silver simply does not react with anything in the body except a germ's oxygen metabolising enzyme.

KILLS RESISTANT PATHOGENIC STRAINS

Disease organisms can become resistant to regular antibiotics, triggering dangerous super-infections. Conventional antibiotics are industrially developed from toxins manufactured by other bacteria for their own defences – penicillin being a prime example. Disease organisms in the body respond to this cultivated toxin of the conventional antibiotic at about the same rate as they do to the original organism. This is a long enough time that a mutation can, and often does occur, which will make the organism immune to the particular antibiotic. Colloidal Silver is claimed to work relatively fast – mostly with six minutes or less, upon contact within the body – that these disease causing pathogens have no time to mutate into a resistant strain as such a mutation requires a mutation far longer than the time silver needs to kill the pathogen. In fact, to date no pathogen or strain thereof, has ever been known to mutate and develop resistance to silver in several thousand years of the use of this remarkable substance. To sum up, no one-celled organism or plant will ever be able to develop immunity to silver.

HOW DOES COLLOIDAL SILVER WORK

Body tissues have 5 parts per million (5 ppm) of Colloidal Silver will be free of virus, fungus and bacterium. Silver particles are long lived in the body because they do not enter into a reaction, but act catalytically. A catalyst is best described as a substance that brings about, or causes a reaction or occurrence without itself participating or being consumed. The Colloidal Silver acts as a catalyst in dis-

abling a particular enzyme, best described as a “chemical lung”, as it transfers oxygen and nutrients through the cell walls of the disease-causing organism. The organism suffocates! The mere proximity of silver will cripple the activity of the particular enzyme common to all viruses, fungi and bacteria – whilst not affecting the enzymes of tissue type cells.

WHY IS COLLOIDAL SILVER NON-ALLERGENIC

There have been no allergenic reactions to silver reported in the recorded history of medicinal use of Colloidal Silver, because Colloidal Silver only affects the rate and occurrence of a pathogen’s oxygen – metabolism activity as described in the foregoing section. However, Colloidal Silver does not react chemically within the body. Overuse of Colloidal Silver has only one effect, that is so-called Argyria, which is the development of a blue-grey tinge of the fingernails and the skin. What happens here is simply that the body starts to store the excess silver in the tissue and collagen, which make up the major part of the fingernails. This condition, however, has no known detrimental effect and will disappear once the Colloidal Silver intake is reduced or discontinued for a while.

HOW HEALING IS ACCELERATED

Mitosis – the usual cell division in body tissue - is when two new, identical cells are formed. The dedifferentiated cell is like a baby cell that can change into any type of cell in the body. It will naturally migrate to a part of the body where there is tissue damage, where the cell changes to a local tissue type cell, adding to the normal cell repair in the injured area and greatly lessening scar tissue formation.

This accelerated healing benefit of Colloidal Silver was discovered by Robert O. Becker, MD and was reported in his book, “The Body Electric”.

He and his research colleagues observed “a variety of cells which are primitive in appearance, looking just like the active cells in bone marrow of children.” These cells grew fast, reproducing a diverse and surprising primitive cell forms including fully dedifferentiated cells and rounded fibroblasts.

“Positive Silver”, Becker states, “produces large numbers of dedifferentiated cells, overcoming the main problem of mammalian regeneration. Positive Silver accelerates the healing process by over 50 per cent. It is obvious that in the

aggregate they profoundly stimulate soft tissue healing in a way unlike any known natural process.” He further stated in his book, “Positive Silver kills all types of bacteria existing because no other single antibiotic worked uniformly against **all** types of bacteria. Positive Silver, he says: “offers several advantages over previous antibiotic substances. There are no ions beside silver to burden the tissues. It works against all types of bacteria simultaneously and even kills antibiotic resistant strains and fungus infections.”

HOW SILVER WORKS AGAINST FUNGI

A fungus is a series of single cells having tiny tubes of material on the cell wall stretched between the cells. Whether more linear in its spread and expand mode or alternatively more like a fabric in its reproductive mode, a fungus will still exhibit that same characteristic of a one-celled bacterium, namely that particular type of chemical lung, which is immediately, completely and permanently disabled by the presence of Colloidal Silver.

Any fungus is killed within six minutes of contact with silver in the body. The Colloidal Silver simply suffocates it!

HOW SILVER WORKS AGAINST VIRUSES

A single virus will invade a living cell of body tissue, then this insidious pathogen will take over the nucleus of the cell and alter its reproduction mechanism to replicate the virus, instead of the enzyme, hormone or other chemical the cell would normally have produced for the body within that cell. Later, the newly produced virus will be released from that cell into the bloodstream. However, another interesting process happens. As the virus affects the cell for its own purpose, part of the response of that living cell is that it reverts to a more primitive cell structure and chemistry. The oxygen metabolising enzyme in the cell reverts to a more primitive form also. This more primitive form of enzyme is vulnerable to the effect of Colloidal Silver. The catalytic effect of the Colloidal Silver simply by being near the enzyme of this cell results in that enzyme becoming permanently disabled. It cannot function to bring oxygen into the cell and that virus “host” cell now dies. This process will take no more than six minutes and the body will dispose of it as it would any other of the millions of cells that end their usefulness each day.

DOES SILVER WORK AGAINST AIDS

AIDS is caused by a particular type of virus attacking and destroying the body's immune system. Once that virus invaded a cell in the body, the cell will react in exactly the same way as described before, reverting to the primitive type structure and enzyme responsible to act as its chemical lung, which is promptly crippled by the mere presence of Colloidal Silver as stated before, the cell "suffocates" and dies thus denying the virus to replicate. The Colloidal Silver kills the mutated cell, virus and all! Colloidal Silver not only kills present types of viruses, but future forms of any viruses as well. YES, Future! Because no matter how the virus mutates, it cannot influence and change the way living body cells will respond to its invasion.

Colloidal Silver kills all viruses, precluding future mutations as it also kills the virus-invaded cell within six minutes, and because of its catalytic nature, Colloidal Silver is not affected in the reaction, continuing to kill other singled celled pathogens nearby.

DOES SILVER WORK AGAINST CANCER

The mutation of healthy cells into cancer cells occurs continuously, even in healthy bodies, but such cancer cells are destroyed by the body's natural immune system at a rate about the same as they occur, and when the body condition is stable, there is nothing manifest that a healthy person would experience as cancer.

Some types of cancer are reported to be caused by a virus. Like with any virus, upon invading a body tissue cell, it will take over the cell's reproductive chemical "factory" thereby forcing the cell to replicate the virus instead, the cell will revert to the "primitive" state thus enabling the Colloidal Silver to be effective and kill the cancerous cell.

A higher concentration of Colloidal Silver means more immediate contact with any virus or other pathogen.

COLLOIDAL SILVER AS A PREVENTATIVE

Colloidal Silver, as a preventative is unsurpassed. Sufficient Colloidal Silver taken daily precludes infection, disease, contagion and serious burn toxicity.

IT SERVES AS A SECOND IMMUNE SYSTEM

Taking Colloidal Silver daily is like having a second immune system. It lessens the load on the body's natural immune system and effectively kills the many bugs present throughout the body. In addition, it lessens the toxicity due to the average amount of germ, virus and fungus activity that occurs naturally in the body. However, tests prove that, due to the high absorption of silver in the small intestine, the friendly bacteria in the large intestine are not affected.

The second immune system acts parallel to, and independent of the body's own first in line defence – a major advantage in warding off outbreaks of influenza or any germ plague or pestilence.

IT HELPS IN SEVERE BURN CASES

To take sufficient daily Colloidal Silver is to have protection already in place in advance of serious burn toxicity. Really severe burn cases, such as from a house fire or car wreck, are more survivable if one has taken sufficient daily Colloidal Silver in advance of a possible catastrophe.

Often people, who first survive such injuries, later die of the complications occurring about a week after the injury when several body systems become overloaded. Colloidal Silver very definitely helps in these cases.

With reference to the healing powers of Colloidal Silver, the American surgeon, Dr. William Steward Halsted wrote in 1913, after referring to the centuries old practice of placing silver wire in wounds: "I know of nothing which could quite take its place, nor, have I known anyone to abandon it who had thoroughly familiarised himself with the technique of its application. We may only have scratched the surface of silver's medical brilliance! Already it is an amazing tool! It stimulates bone-forming cells, cures the most stubborn infections of all kinds... and stimulates healing in skin and other soft tissues.

PREVENTION! PREVENTION! PREVENTION!

As a preventative, Colloidal Silver is a most effective disease fighter! Taken in truly sufficient amounts, it precludes infection. A blue tinge to the capillary blood (some people even go so far as to have a trace of grey or blue tinge in their skin) renders one invulnerable to infection. Admittedly, to achieve this, quite a

a bit of Colloidal Silver has to be taken, but the effects are quite long lasting. Besides, what is true immunity to infection really worth?

WHAT IS THE OPTIMUM LEVEL OF SILVER IN THE BODY?

Sufficient daily Colloidal Silver is to have greater than 5 parts per million. Recommended is a higher dose titration, as determined by kinesiology, to an indication towards protection from all infection. To change tissues with large amounts of Colloidal Silver is to be ready for any attack of germ and the inevitable biotoxins resulting from severe burn injury.

When obtaining Colloidal Silver preparation, the strength of the product must be taken into consideration. Tests have shown that preparations containing less than 30 parts per million of silver are not effective, as the amount of Colloidal Silver needed to bring the body's silver to an effective level would be (with some 5 ppm Ag products) require the consumption of two litres of undiluted product a day. Fortunately, advances in the manufacturing technology of Colloidal Silver allow the manufacture of Colloidal Silver with 30 and 50+ mg of silver per litre.

OTHER ESTABLISHED USES OF COLLOIDAL SILVER

An amazing, yet still only partial list of more than 650 diseases that Colloidal Silver has been used against include (in alphabetical order):

Acne, AIDS, allergies, appendicitis, arthritis, athlete's foot, bladder infection, blood parasites, blood poisoning, boils, bubonic plagues, burns, cancer, candida, canine parvovirus, chilblains, cholera, colitis, conjunctivitis, cystitis, dandruff, dermatitis, diabetes, dysentery, eczema, encephalitis, fibrositis, gastritis, gonorrhoea, hay fever, herpes, impetigo, indigestion, keratitis, leprosy, leukemia, lupus, lymphangitis, Lyme disease, malaria and meningitis.

Also neurasthenia, parasitic infection, pleurisy, pneumonia, prostate infection, pruritus ani, psoriasis, purulent ophthalmia, rheumatism, rhinitis, ringworm, scarlet fever, septic conditions (eyes, ears, mouth and throat), seborrhea, septicemia, shingles, staph and strep infections, stomach flu, syphilis, thrush, tuberculosis, ulcerated stomach, virus (all forms), warts, whooping cough and yeast infections (females).

RECOMMENDATIONS FOR SKIN PROBLEMS

While Colloidal Silver is used as a preventative against viruses, bacteria and fungi through daily oral use; Colloidal Silver has also been applied directly to open wounds and sores to eliminate surface infections. Apart from its beneficial effect, Colloidal Silver does not sting or burn.

Other antiseptics sting when applied to a wound because they are killing the surrounding tissue cells as well as killing the germs, but whilst the Colloidal Silver kills the topical germs within six minutes, it does not harm any surrounding tissues.

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; and after each rinsing, use a small amount of Colloidal Silver and massage it onto the problem areas two to three times with a finger or tiny piece of cotton or tissue. This wash-rinse-massage may be continued throughout an acne breakout, or better, 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 50 ml or 200 ml bottle of Colloidal Silver with them for availability throughout the day.

Cuts and abrasions: Apply Colloidal Silver directly to the open wound and onto any dressing used. Colloidal Silver may be used as the only medication on the dressing, or it may be used with another medication.

Eczema and skin rash: Dab Colloidal Silver directly onto affected area, rubbing slightly. Repeat often to keep the area moist. Bandage lightly, if desired, keeping the bandage moist with Colloidal Silver. Change bandage daily.

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.

RECOMMENDATIONS FOR INTESTINAL PROBLEMS

Optimum 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 it more useable. Also, there will be no flatulence.

Parasitic infections: Take an amount of Colloidal Silver, again 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-metabolising 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.

Diarrhoea 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 diarrhoea 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 50 mg Colloidal Silver preparation is 15 ml per 200 ml 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.

Healing crisis: This is a condition wherein the Colloidal Silver is killing the pathogens very rapidly. The body's five eliminatory systems, the kidneys, 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 four litres of water a day, take five or six grams of Vitamin C and a high enema.

Repeat for two or three days.

Please note if the healing crisis persists, see your local practitioner for additional advice.

RECOMMENDATIONS FOR PURIFYING FOOD AND WATER

Water purification: Colloidal Silver is an excellent water purifier. Water stored with one or two tablespoons of Colloidal Silver per 5 litres will be safe and sweet tasting for a very long time. Water containing germ contaminants (not toxic chemicals) can be made drinkable by adding two to three tablespoons of Colloidal Silver per every 5 litres of water. The Colloidal Silver whilst purifying the water is also beneficial to the body, unlike the commercial tablets containing toxic chlorine bleach!

To guard against water-borne diseases such as dysentery, the following airlines now use either silver water filters or a well-known hydrogen peroxide/Colloidal Silver combination. British Airways, Swiss Air, Scandinavian Airlines, Lufthansa, Air France, Canadian Pacific Airlines, Alitalia, KLM, Japan Airlines and Pan Am. The Swiss and Australian Governments have approved either or both the silver water filters or the hydrogen peroxide/Colloidal Silver preparation, which are now used in homes, offices and town water supplies. After testing 23 methods of purifying water, NASA selected a silver system for its space shuttle.

Home-canned foods: One half teaspoon of Colloidal Silver per 1 litre of home canned foods precludes the growth of all bacteria, viruses and fungi. 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 rancification of fats in the digestive tract. Neither will there be a formation of gas in the bowel, nor food decay from toxins to diminish the sense of wellbeing.

Most commercial food processing operations to date have elected to use preservatives, which unlike Colloidal Silver, are toxic and poisonous to people. Were these commercial food processors to use Colloidal Silver instead, it would yield triple the benefit mentioned above.

Questionable refrigeration: In addition to keeping prepared foods cool and well sealed, add about one tablespoon of Colloidal Silver per 1 litre (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 one quarter tablespoon of Colloidal silver into each container of mustard, ketchup or pickle relish. Mix one-half teaspoon into items that spoil more easily, i.e. mayonnaise, milk etc. They will store longer, remain fresher and benefit digestion.

VETERINARY USES OF COLLOIDAL SILVER

The following conditions in animals, birds and fish have been successfully treated with Colloidal Silver:

- * Bacteria and parasites
- * Parvovirus in dogs
- * Revival of belly-up goldfish
- * Scours and undulant fever in cattle

JAPANESE FIRMS FIGHT AIR POLLUTION

Silver can fight deadly poisons also. Japanese firms have announced the following startling technologies that use silver to purify air:

One company converts 50 parts per million of carbon monoxide into harmless (?) carbon dioxide by passing the gas through a stack of screens coated with silver compounds. Another uses silver compounds to remove vinyl cyanide, methyl cyanide and hydrocyanic acid from its discharges. Finally, a gas chemical company removes all the 200 parts per million of nitric oxide by passing the gas through its silver compounds.

UNDERSTANDING THE COLLOIDAL STATE

Most chemistry textbooks have a chapter on the colloidal state, as if it were a special case. Actually, the colloidal state is the only state for all living things.

Within fluid water, the chemical elements of life occur in a flux of halves, or opposite electrical pairs, always in motion and swapping these molecular halves in complex chemical reactions that are the process of growth and repair. In this flux of the body's fluids are the germ pathogens also, whose own molecular pairs interact with those of the body as they strive to survive. They are all parasites that attack and eat the body cells of the host person, dumping their waste into the surrounding tissues and the bloodstream. When this fluid flux contains an electrically charged ion or micro particle of Colloidal Silver, it selects from among the tissue cells of the body only those disease-causing pathogens and suffocates them catalytically, simply by being there, then, affected, drift on, to repeat the process again and again.

The crystalline state is the condition of dry, dead matter. Most medications are in the crystallised state. The body must first convert them to the colloidal state before they can be used. There is some expense to the body in time, energy and effectiveness. During this process, some molecular pieces are left over, which burden the body with their need to be eliminated. In the case of Colloidal Silver, nothing is left!

CHARACTERISTICS OF COLLOIDAL SILVER

Colloidal Silver will react chemically with many of the 92 natural elements and compounds. While many of these compounds are toxic, pure silver is non-toxic. It acts only catalytically with the enzyme, or chemical lung of single-celled organisms.

Pure silver won't dissolve in water, however, if pure silver is by some process divided into single atoms or micro clusters of fewer than 15 atoms each, given a positive electrical charge and attached to a molecule of simple protein, it will float in and throughout the pure water indefinitely, creating a so-called strong "colloidal

Suspension.” The force of electrical charge is stronger than the force of gravity, thus the particle remains suspended. Much has been written and claimed by people displaying a fair amount of ignorance of the workings of a colloidal substance mainly with regard to the colour of colloidal silver. True colloidal silver is a colourless liquid because the micro clusters of the silver are simply too small for light to reflect back to the human eye (the particular wavelength of the reflected light determines the colour we perceive). Many manufacturers not being able to make a true colloidal silver preparation resort to using food or other colouring agents to give the liquid a yellow appearance because they somewhere have read that colloidal silver should have a colour to its liquid. Colour will be noticed if one of the following conditions is present:

- * The silver used is of a silver sulphide type and not very healthy (yellow, mainly used in the ceramic industry)
- * The silver used is silver oxide (brownish, black in colour)
- * The particles are too big in size)
- * Food or other colouring dyes are used
- * If the silver loses its colloidal state and precipitates out of solution (mainly black) in this case, the product will have lost its efficacy and should be dispensed of as contrary to some advice, to shake the bottle will not revert the silver particles to a colloidal state.

People are best advised to stay clear of these products as they are in many cases of dubious quality and most certainly have little or no beneficial effect. If you have any doubt regarding the actual colloidal silver content, ask the vendor for a Batch Sample Silver Analysis. Reputable manufacturers will have Health Department approval for their manufacturing facilities and have their Colloidal Silver batches analysed and the result of same available for their customers.

CARE AND STORAGE OF COLLOIDAL SILVER

Keep Colloidal Silver in the food storage area; store it in glass containers only and away from electrical appliances. Although glass breaks easier, glass is the only material that will keep Colloidal Silver for any length of time. DO NOT accept Colloidal Silver packaged in plastic as its shelf life is minimal and the silver particles mostly likely will plate out on the surface, and hence are no longer in suspension. There is an inherent electrical charge in the hydrocarbon molecule that will draw the charged silver particle out of solution, bonding it to the wall of the plastic container! You may not see it, but it's there all right. The preparation is then unusable.

Do not store Colloidal Silver in a refrigerator or freezer, as the long-term electrical charge of the appliance can have the same effect on colloidal silver as does storing in a plastic container.

WHEN IT MAY BE THE ONLY THING AVAILABLE

Some people there may be a time in the foreseeable future when food storage may be the only means of antibiotic/disinfectant for any of us. Life would be very different then, with many items unavailable, and a storage of Colloidal Silver could be life saving.

A very different condition in the future could be rampant diseases, plagues from contamination of the water and air through man-made biotoxins of germ warfare (as seen in "The Strecker Memorandum" video). Whatever the source, either invasion or local error any military activity can result in a major outbreak of anthrax or lesser causes resulting in salmonella poisoning. Another extreme threat for our immediate future is the emergence of the so-called super bugs. Because of the current overuse of pharmaceutical antibiotics today, many viral and bacterial organisms will be immune to the conventional medicines!

Colloidal Silver is not only a way of prevention now, but may be our best choice to store for the future.

MEDICAL STUDIES AND OTHER TESTING

Colloidal Silver and illness: The author of "body Electric", Dr. R. Becker, noted in his studies a correlation between low silver levels and sickness more often with colds, flu, fever and other illnesses. He said he believes a silver deficiency is the reason for the improper functioning of the immune system and that silver is critical for the destruction of bacteria and viruses. Becker's experiments conclude that silver works on a wide range of bacteria without any side effects and without any damage to the cells of the body.

Colloidal Silver and healing: Becker also states that the silver ion was doing something more than killing disease causing organisms. It was, he observed, facilitating major growth stimulation of injured tissues. When human fibroblast cells, which are common throughout the body, were exposed to silver, they differentiated. That is, they changed into an embryonic general cell, able to multiply at a great rate and then change into the specialised cells of the organ tissue that had been injured. Even in patients over the age of 50 years, tissues healed as easily as a child's tissues.

Colloidal State and cancer: Again Becker concluded that in the presence of silver ion, cancer cells change back to normal cells, regardless of their location in the body. He concluded that the presence of silver ion regenerates tissues and eliminates cancerous cells as well as eliminating other abnormal cells.

Dr. Bjorn Nordstrom of Sweden's Karolinska Institute has used silver in his cancer cure methods for many years. He records that he has successfully cured patients who had been diagnosed by other doctors as terminally ill.

Swimming pool water purification: Silver is widely used to purify swimming pool water, and it does not sting, as does chlorine. A dramatic demonstration in Nebraska recently placed 250 litres of raw sewerage into a pool containing no disinfectant. A standard measure of fecal contamination is the count of Escheri coli (E. coli), an organism found in the human intestinal tract. The count soared to 7,000 colony-forming E. coli cells per millilitre of water. Subsequently, the water was flushed through a silver electrode array, which eliminated the E. coli within three hours. Follow-up tests also showed the water to be completely free of other one-celled organisms.

Hydroponics testing: Tests in a hydroponics greenhouse showed that Colloidal Silver is absorbed and used by the living plant, as are many other minerals.

Hydroponics is an ideal gardening method having only one problem: viruses, fungi and bacteria tend to thrive in the plant nutrient fluid. Colloidal Silver is proven to kill every one of the pathogens, and without any consequence to the nutrient medium or to the delicate plants. In addition, the plants ingested the silver through their roots, thus becoming a source of the silver minerals for human consumption.

Overdose testing: In laboratory tests since 1985, researchers knew that overdose testing needed to be performed. One lab technician involved in the project from the beginning, volunteered himself as a guinea pig for the first project. He consumed 1 litre of water dosed with a high concentration of Colloidal Silver for a period of several weeks. The chemistry of his body's fluids was monitored, as was his general wellbeing (colds, flu, headaches etc.). He was especially observed for any change in skin colour to see if the technician's skin would develop a grey pallor or argyria. He had no change of colour in his skin, felt more vigorous and alert, and experienced no aches, colds etc. Others in the laboratory repeated the tests themselves finding the same results.

UCLA study: It is claimed that some years ago, an independent research laboratory sent to the University of California in Los Angeles a sample of Colloidal Silver to be tested against AIDS and anthrax. UCLA undertook the tests and proved conclusively that Colloidal Silver was highly effective in remedial applications against both disease pathogens. The independent researcher has obtained the same results in his own laboratory, and sought confirmation from UCLA. When the UCLA laboratory director called to confirm those findings, the director of the independent laboratory asked to have the test results on a letter bearing the UCLA letterhead. However, he was advised that a payment of \$US10,000 was required for this letter.

The UCLA lab report confirming the effectiveness remains unofficial.

FDA Statement about Colloidal Silver: Written advice dated Sept. 19, 1991, by the FDA consumers safety officer, Harol Davis, states that Colloidal Silver, considered a pre-1938 drug, may continue to be marketed without submitted evidence of safety and effectiveness (required of all prescription drugs after 1938) as long as they are advertised and labelled for the use as in or before 1938.

Glossary

Argyria or Argryrosis: a condition of skin having a grey blue pallor caused by excess silver being stored in the skin.

Bacteria: Morphologically simplest group of organisms of various species concerned in fermentation, putrefaction and the production of disease.

Collagen: the protein contained in connective tissue, bones and fingernails.

Colloidal state: a system of particles in a dispersion medium in which the particle diameters are between 10^{-7} and 10^{-9} m, i.e. between true molecular solution and a coarse suspension.

Enzyme: a protein capable of catalysing a necessary chemical reaction of the cell.

Fibroblast: the nucleus cell responsible for manufacturing the cells and enzymes of the body's immune system.

Lymphatic system: vessels within our body conveying the so-called lymph, a clear to yellow, slightly alkaline fluid derived from the tissue of the body (primary part of the body's sanitation system.)

Silver: (Ag) precious metal, one of the earliest known metals contained in Earth's crust at a concentration of 0.1 ppm, and in sea water at 0.01 ppm.

Titration: to ascertain the required quantity of a substance by volume or weight, which exactly fulfils certain given requirements.

Virus: infective disease agent, smaller than a micro-organism and requiring living cells for multiplication.

COLLOIDAL SILVER WATER: is made using a simple device consisting of one 9-volt radio battery (you can exchange and use your old smoke detector battery, ensuring that a fresh one is always in place.)

- two 1 mm long sticks of approximately 100 mm diameter pure silver,
- one 9 volt radio battery clip,
- 250 to 500 ml of mountain, tank, spring, distilled or demineralised water.

Pure silver can be bought from jewellery stores for about \$18 for two (in 2008)

NOTE: distilled and demineralised water is more suitable as it makes a stronger solution – especially for external use.

Tap water – is not suitable – as it often contains fluoride and chlorine, except when no other water is available.

1. Connect one rod of silver to each lead of the battery clip, either by twisting the bare wire around the silver, or by soldering them on. To make sure the two rods do not touch each other when the battery is connected, you can push the silver sticks through a plastic bottle cap, if holes are made with a skewer first. This will enable you to screw the cap onto a glass bottle, and make a large amount. (It is best to make up only the amount you will use in the next two days, if you are using tank or spring water, Silver water made with distilled or demineralised water lasts longer.)

2. Into a 250 ml glass of suitable water, place the rods with battery attached for 3 minutes (if using tank or spring water) in a glass – not plastic container. Check the volume on the label as to how much extra time is required. (A 500 ml bottle = 6 minutes etc.)

NOTE: With 250 ml of distilled water, insert rods for 1 hour.

3. A smoky-like mist should start to stream off one rod after approximately 1 minute in tank water, while bubbles should be forming on the other rod, with tank and spring water.

NOTE: Distilled silver water is clearer, but becomes slightly golden in colour if left for a while. (Distilled or demineralised water should not be used a regular drinking water, only as the medicinal silver water.) The containers should state – NOT TO BE TAKEN.

Drink 125 to 250 ml of tank silver water daily, or 1 to 2 tablespoons (20 ml) of distilled silver water and 5 to 6 more glasses of ordinary water throughout the day, for 1 week.

Tap water is suitable for these extra glasses of water to be drunk.

If storing silver water for later use, keep away from electrical appliances. Keep it in a cool, dark place, or wrap aluminium foil around it.

Apply to burns, rashes, sties, ear infections, conjunctivitis etc. Gargling for a few minutes has relieved ulcers and sore throats for some people. If you have a cold, use a glass eye dropper and take a deep breath while tipping your head back.

Drop some down your nostrils, also tilting your head from side to side. This should clear it up. (You should get fewer colds if you drink silver water daily.) Rubbing a silver ring on a developing cold sore for 60 seconds should stop it from continuing after about 15 minutes.

Carefully read and understand the written material available. Take care with the 9-volt battery so that its terminals do not touch keys or coins in your handbag or pocket, as it may get very hot and flatten – or burn you. You can put masking or insulation tape over the terminals when not using.

(27 volts – or 3 x 9 volt batteries connected in series, is considered a better voltage to use by <http://www.silversolutions.com> on the Internet.)

If you accidentally leave the silver rods in the water for too long, don't throw it out. Either dilute it, put it in your clothes wash, or pour on your edible garden, as you will get it back through eating the vegetables and fruit.

After 4 to 6 months, you may wish to change the battery terminals around in order to make the silver rods last longer, as the silver only drops off one rod.

October, 2002

COLLOIDAL SILVER WATER – Made with:

DISTILLED / DEMINERALISED WATER – or – **TANK / RIVER WATER**

250 ml – 60 minutes

250 ml – 6 minutes

Appearance is clear to golden

Appearance is white / cloudy

Drink 40 ml a day and use
Externally for skin cancer

Drink 150 to 250 ml a day
(especially for stomach problems)

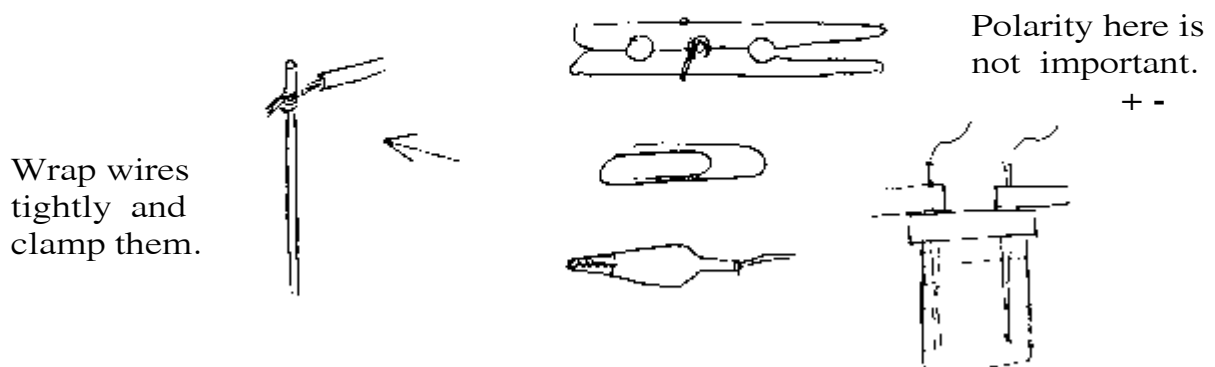
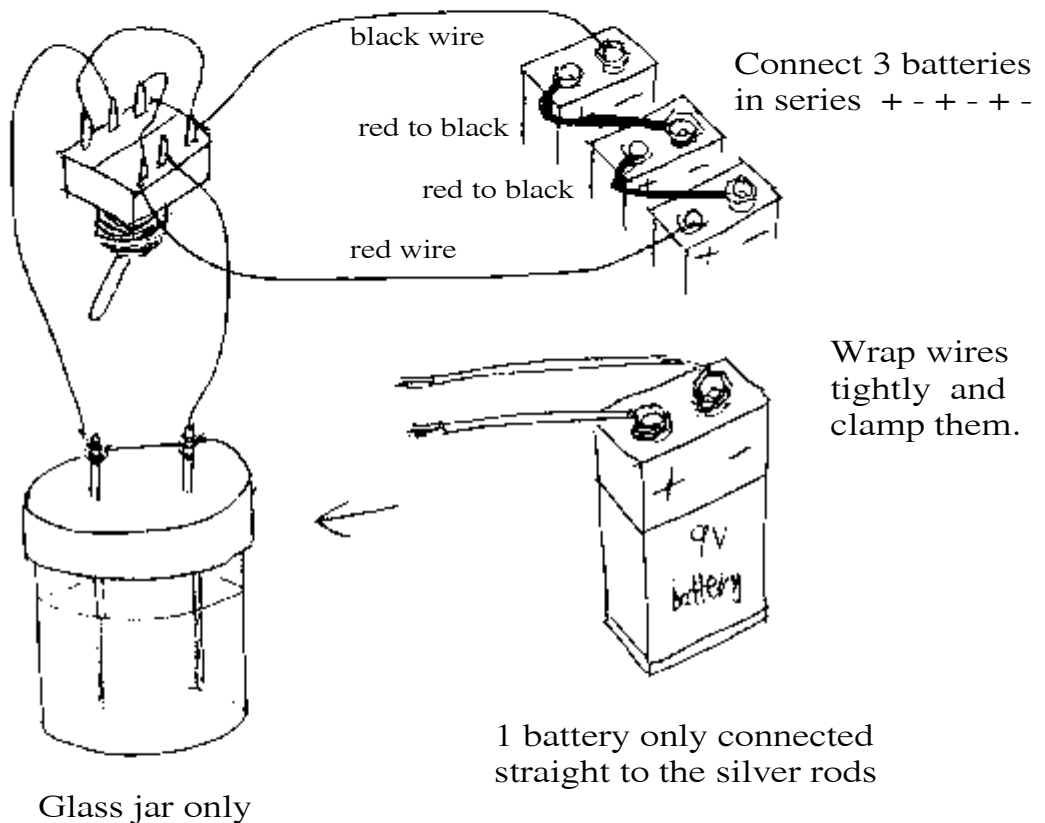
Taste water to check if it is okay, and 9-volt battery is OK, but never test battery on tongue. Store in a cool, dark place, or wrap in aluminium foil.

ONLY USE GLASS CONTAINERS TO MAKE UP AND STORE WATER IN.

Making Colloidal Silver –

Add a reverse switch, if you like, to break down both of the silver rods evenly. Use a double-pole, double-throw, centre off switch, and switch it to the opposite polarity every new time (day, week or month) that Colloidal Silver is to be produced.

Solder wires onto terminals. Battery clips from electronic stores can be used. Connect the red lead of one clip to the black lead of the next for correct polarity of the two (18 volts) or three (27 volts) clips.



Wrap the wires around the terminals and silver rods, then clamp with a clothes pegs, paper clips or alligator clips etc. Make sure the copper wires are always perfectly free of oxidation.

Sit clamps on top of lid,
making silver rods stable