



Gallium and Arthritis

By George Eby
P. O. Box 1142

Dripping Springs, Texas 78620

<http://coldcure.com>

telephone (512) 263-0805

Recently, I filed and had accepted a new research manuscript (currently at <http://coldcure.com/html/arthritis.html>) with *Medical Hypotheses*, an Oxford University theoretical biochemistry/medical journal describing the effects of gallium nitrate in eliminating arthritis for years. It should be published in the Fall of 2005.

Yes, one application seemed to terminate the pain and inflammation of arthritis for YEARS. How did this remarkable finding occur?

The story starts over 9 years ago in 1996 when my horse, Don Dee, developed navicular disease, which is a type of arthrosis of the navicular joint/bone in the foot. He was crippled from it and was very lame and apparently in mind-numbing pain. I did not want to deal with the standard, often ineffective, often expensive, often side-effect ridden means available from veterinary medicine. I certainly did not want to cut the nerves to my horse's foot (so he would not feel the pain), which was the recommended treatment, and the only other alternative treatment was euthanization, since his disease was severe with bone damage. George here is no dummy and those alternatives didn't sound very promising to me.

Separately, I had a written a medical journal article on my discovery of zinc lozenges to cure common colds (see <http://coldcure.com>), which was in a medical textbook called "Handbook of Metal-Ligand Interactions in Biological Fluids", edited by Dr. Guy Berthon of Toulouse, France. I was looking through that textbook for my article when I found two other articles that I somehow figured were related to navicular disease. One showed that aluminum was a joint/bone toxin that caused much pain and bone damage, which sounded a bit like navicular disease. Within minutes, I found an article about gallium's, vital and strong effect in restoring blood calcium back into bone and generally strengthening and rebuilding bone with great improvements in bone density. Hummm. The wheels in my mind were turning, and within a few days I had figured out the dosage and obtained enough gallium nitrate to try the world's first experiment with oral gallium.

I didn't want to try it on Don Dee first because he was my very best friend, so I took the first-ever oral doses. At that time, I had some minor bone-joint pains, so I figured, maybe . . . and upon trying gallium nitrate, those pains went away and never returned; and better yet, the gallium nitrate did not kill me! Cautiously, I started Don Dee on gallium nitrate. I gave him one half liter of a one percent solution of gallium nitrate on his morning feed. Dr. Raymond Warrell of Sloan Kettering Cancer Center in New York had been using intravenous gallium citrated-nitrate for many years to treat osteoporosis, cancer and lymphoma, and he told me that I should not expect results within the first 6 months. So, I had the stable hands give Don Dee his gallium each day and I went on to do other work, like trying to make a living. About ten days later, the stable owner called me and complained that Don Dee was being a nuisance and was fighting and beating up some of the other horses, and worse yet he was carousing around all night and keeping the stable owners awake. This was the first known side effect in horses, gross over exuberance, which we interpreted as resulting from being pain-free. The years went by and Don Dee remained sound on gallium nitrate, even though his X-rays said he should be euthanized.

I told this story on the Internet at <http://coldcure.com/html/nav.html> and over the years many people bought chemical gallium nitrate 14% CONCENTRATE (<http://coldcure.com/html/galliumsales.html>) from me to experimentally treat their own horses. Navicular disease is much like arthritis, both being pains in joints, and there are many different "involvements," such as bone, bursa, infection and tendons, all presenting a difficult-to-diagnose situation that suggests different treatments for each "involvement." Strangely, nearly all of the horses got better, and most of them became sound and resumed their careers. What we could not figure out was why some horses became totally sound within a single 2-week gallium nitrate treatment, while others did not respond for 5 months and then suddenly became sound in the sixth month. Someone suggested that the gallium was going to some other infection, inflammation or cancer, which had a greater demand for gallium than the foot. I don't know, but such sounds plausible.

As time went on, people called me and told me stories that their own arthritis symptoms in their fingers disappeared after getting 14% gallium nitrate on their hands. Several people told me the same story and over the years, their arthritis symptoms did not return. I thought they were joking with me for nearly a year, and then I remembered that I too had benefit from my first oral use of it back in 1996.

I began to pay more attention to these people and tried it with my sister-in-law. Her hands were severely arthritic and painful and she also suffered from a horrible life threatening disease called systemic scleroderma (with nearly lethal pulmonary hypertension). I poured some gallium nitrate 14% concentrate into a soup bowl and as we talked, she wrung her hands in the solution. She did this for about an hour and a half. She noticed some pain relief while doing that, and I figured it was the placebo effect. The next day, she said she had no pain in her hands. That was two years ago, and she still has no pain in her hands from that single treatment!

I saw my high school girl friend for the first time in over 40 years shortly after that, and found that she had been crippled for over 40 years with severe, very painful osteoarthritis in her knee from a car wreck. I told her about my sister-in-law and her experience with gallium nitrate and she was enthused. Instead of topical treatment, she decided to take it orally at the same rate as Don Dee, considering their weight differences. She weighed 165 pounds and took 3 to 5 milliliters of the 14% concentrate mixed into about a half-gallon of water each day. She hated the taste of it because gallium nitrate even in these low dilutions is extremely astringent and drying in the mouth. How the horses don't seem to mind the taste is totally beyond me. She took gallium every other two weeks (two weeks on and two weeks off) and found that her pain was greatly reduced while taking it and that the pain came back somewhat during the off two weeks. She was the first to demonstrate that oral gallium nitrate could significantly increase bone density. Gallium nitrate increased bone density so much that she was able to have successful knee replacement surgery, something that she had wanted and been refused for many years due to bone density issues.

Recently, I was suddenly stricken overnight with "frozen shoulder", a type of arthritis. It really hurt! Turning over in bed felt like my bed was made of broken glass! And now I see why people with arthritis want pain relief! It hurt like crazy. In desperation, I made a 40% gallium nitrate solution which, strangely, was oily on my skin. It did not hurt, although I fully expected it to hurt, although it did exfoliate a thin layer of skin a few days later, just like DMSO. It took about 2 hours for it to soak into my shoulder. I repeated that each day over the following week and the pain went away, and more or less stayed away for over a year, requiring only occasional minor tune-ups. During the last year, I found that the pain relief

Medical data is for informational purposes only. You should always consult your family physician, or one of our referral physicians prior to treatment. from topical 40% gallium nitrate was roughly the equivalent of 20 to 40 mg of prednisone.

That was enough evidence for me to consider writing the article above [for *Medical Hypotheses*]. I did more literature research and found that gallium was not only beneficial for bones and joints, but that it was strongly antibacterial to iron-dependent bacteria and mycobacterium, and that it was patented as a treatment for arthritis. It was patented by Ohio State University in 1992, using a type of bacteria to initiate experimental arthritis in animals. That patent was recently sold to Titan Pharmaceuticals in South San Francisco, CA. Gallium nitrate was also extremely anti-inflammatory and all these properties makes it an ideal treatment for arthritis. I think there are many cases of bacteria-induced arthritis that should be totally curable by topical 14% gallium nitrate with a single 90 minute treatment, like my sister-in-law found. Other types of arthritis can benefit from the other properties of gallium, but less rapidly and they may require continued treatment as is shown in my article.

You wonder if this is a safe treatment? So do I. I have no idea of the long term effects of taking or using gallium, and I certainly have no idea of the "CORRECT" dosage. Oral use, but not topical use, worries me in humans, even though gallium can be marketed as a dietary supplement under the United States Dietary Supplement and Health Education Act of 1994. However, I do not market it as a dietary supplement, because so few people have taken it orally. On the other hand, in horses, we have over 25,000 daily oral doses administered with zero side effects in nine years (except for gross over exuberance on occasion). The several blood tests taken in horses and people have shown no abnormalities from use of gallium nitrate. Gallium is described as being protective of the liver in experimental models, but we have nearly no evidence of either safety or harm. Consequently, I personally do not RECOMMEND taking gallium nitrate orally, but there are so many people out there that are so very desperate for relief that I greatly sympathize with them for wanting to try anything that might relieve their pain. I tried taking a few milliliters of the 14% concentrate orally, and it really hurt my mouth. It was sore for days. Do not do that!

You may wonder what else topical gallium nitrate is good for. Topically applied, the 14% gallium nitrate solutions have reduced grossly swollen legs from traumatic injury in both horses and people in minutes rather than months (90 minute treatment), healed abscesses in horses' feet, cleared up treatment-resistant acne, pimples, boils, carbuncles, folliculitis and skin inflammation generally, and amazingly, even carpal tunnel syndrome with each of these requiring much shorter treatments than 90 minutes. I would like to see if the edema reductions found in treating leg traumas would also occur in treating traumatic brain injury. Efficacy there would be a wonderful miracle!

Every day I look out into my pasture and watch my gorgeous 17-year old thoroughbred horse, Don Dee, frolicking like a young colt. And I think, gallium has got to be good for people too. Maybe the future will bring a more palatable gallium product. However, I have experience with various compounds of zinc to treat colds using throat lozenges (see <http://coldcure.com/html/common-cold.pdf>), and none of the palatable, non-astringent zinc lozenges work. Only astringent zinc acetate lozenges work. Such may be the sad future of gallium nitrate too. Chemists will monkey with a good thing to make it suitable in taste for everyone, and they will certainly destroy the efficacy of the highly astringent gallium ions that are released by gallium nitrate. I say this for both zinc and gallium, if it is not orally astringent, it will not work.

Notes:

[Do not mix it with DMSO. It greatly increases skin exfolia-

tion (you would then have two exfoliating agents instead of one) and does NOT help in absorption. Gallium nitrate absorbs directly into skin and tissue perfectly well diluted in water. The simplest way to observe "absorption" is by topically treating traumatic leg injury where there is gross tissue swelling. Topical application over a 90 minute period eliminates all of the swelling and edema. I am not talking about "minor swelling", I am talking about "gross swelling" where tissues (legs) become twice their normal diameter due to swelling and edema, often within minutes of a trauma: George Eby]

[You can concentrate the 14% to a more concentrated oil at about 40 to 50 percent gallium nitrate by slow and deliberate simmering, not boiling on low heat. A lady tried to concentrate 2 cups of it to 28 to 30 % by putting it in a microwave oven. After 3 minutes at full power it wasn't bubbling, so she added another 3 minutes and then left to attend to something outside. When she got back in about 10 minutes later, all that was left in the 2 cup measure that she had used was a white powder residue which gave off such an evil stench she had to open all the doors and windows, turn on the fans and take the offending material way, way outside. It ate the interior finish off the microwave. If you turn your back on this process, it will eat your lunch! The crystals are extremely evil! Do not do this!!! Worse, the product that she achieved in the chemical reaction with the organic paints inside her microwave were explosive. Highly concentrated gallium nitrate and any organic in a dry combination is nearly always explosive: George Eby]

[While we're not prone to advertise products, trial use of gallium nitrate is an exception. A fourteen percent solution for topical use is available at <http://coldcure.com>. Keep very much in mind that neither we nor George Eby can be responsible for your use of this product! Always use your physician's oversight and approval! Editor]