Oral Nutrient Chelates

Nutritional Information On Atherosclerosis

An amazing new heart therapy which uses magnesium orotate and potassium orotate has pro-ven more than 95 percent successful in preventing heart attacks in cardiac patients.

The revolutionary treatment has been hailed as a "breakthrough." And one medical expert says it could save more than 900,000 lives in a year.

It has no side effects and is successful even with patients suffering from severe heart disease or previous heart attacks.

"As soon as you start this treatment your risk of a heart attack will decrease by 95 percent," declared Dr. Hans Nieper of Hanover, West Germany, who pioneered the treatment. "Anybody could use this therapy, even if they have not had a history of heart disease or a heart attack — and get the same 95 percent decrease in heart attacks as my patients."

Atherosclerosis comes from the Greek word "Porridge" and describes the appearance of the fat-containing deposits that thicken the lining of the arteries.

As the deposits thicken and become more widespread throughout the arteries, scar tissue is formed, calcium is deposited, tissue is destroyed and the blood channel narrows. Most damage is done in the presence of excess calcium, when under certain conditions, this calcium binds with cholesterol to form a clay-like plaque, usually because the glands are overactive, assimilating an excess of calcium from the food as well as calcium being drawn from body stores in a defensive measure. This calcium floats along in the blood stream in a state of suspension. As in a turgid river, the suspended matter tends to deposit in places of stagnation or at sites where scarring has taken place. In the human body places of injury cause a reduction in the flow of the blood stream and there, we find calcium deposits. Cholesterol is a semi soft fat at room temperature or above, as in the case of the body temperature of 98.6 and causes little problem until the free calcium binds with it to form this day-like substance. A variety of disorders may result depen-ding upon the location of the deposits. If excess calcium lodges in the arteries we have what is called hardening of the arteries or hardening of the arterial walls of the heart it in the joints, chronic arthritis results (see Research Bulletin No. 115); if in the eye, cataracts are formed; if on the teeth, we have calculus. This Research Bulletin is primarily devoted to the sub-ject of oral chelation and hardening of the arteries, but the interested reader can refer to Reference File No. B709-115-AC, L1010-145-PP, regarding calcium im-balance.

According to Dr. Richard Passwater, PHD, "an equally important consideration is that once cholesterol has been produced within the fibrous pla -que, the cholesterol attracts calcium from the bloodstream. The calcium is held to the plaque by electrical-charge attraction and the addition of the calcium hardens the plaque, much as rivets or nails add rigidity to structures."

Once the plaque adheres to the walls of the artery many severe symptoms can occur. Such complications as angina pectoris, heart infarct, cerebral thrombosis (blockage of a blood vessel to the brain), blockage in a leg, high blood pressure caused by blocking an artery to the kidneys as well as cataract can develop.

According to renowned biochemist Roger J. Wiliams, more than a million people died in this country from circulatory and heart diseases in 1970. Statistics confirm that the leading cause of death in the United States is disease of the arteries of the heart, most cases caused by atherosclerosis.

A combination of nutritional support factors can be of great benefit in providing a stabilization to the calcium and cholesterol relationship. First a method must be implemented to help dissolve the calcium out of the arteries, a method which represents a stripping action. Along with the breakdown of calcium, something must be used to emulsify the fatty deposits In order to clean out the arteries to enable the blood to flow through more freely.

An additional method must be sought that will prevent the red blood cells from clotting or sticking together which then makes them too large to pass through. How does one know if he or she may be a candidate for oral nutrient chelation?

For most it is fairly obvious. Most will experience One or more of the following symptoms: cold hands, cold feet, leg pain or pain where the circulation is poor, loss of memory, forgetfulness, senility, pain or cramps when exercising.

The following formula contains the nutrients found necessary to provide the bio-chemical changes involved in nutritionally supporting those individuals and to clean out some of the lipid and calcium deposits.

A possible formulation of nutrients that could be employed successfully is listed below:

B-Sitosterol (Rye Germ)...450 mg.

Vitamin C ……...….1500 mg.

Magnesium Orotate …...1500 mg.

Magnesium Ascorbate…...300 mg.

Potassium Phosphate ….…30 mg.

Zinc Ascorbate ……..…..45 mg.

Manganese Ascorbate…..…30 mg.

Selenium Ascorbate ……..30 mg.

Potassium Chloride ….…...30 mg.

Niacin ……180 mg.

L-Methionine …..……..195 mg.

Ammonium Chloride …...291 mg.

Calcium Chloride ….……291 mg.

Betaine HCL …….300 mg.

Potassium Aspartate ..... 105 mg.

L-Taurine ……...…300 mg.

Copper…….750 mg

Niacinamide ……..…….450 mg

Vitamin B6 ……...…….150 mg.

Potassium Orotate ….…...150 mg.

Bromelain (1200) ……..…150 mg.

Mucopolysaccharide (Soluble)

……....300 mg.

This formula works as an oral chelator designed toward the removal of abnormal deposits of calcium and lipids from the arteries. When the calcium is dissolved from the plaque, the cementing bond between the calcium and cholesterol no longer has an effect. Calcium returns to a normal function and the re-maining debris, which consists of lipids, mainly cholesterol and triglycerides, are then channeled back through the liver and flushed through the bile system and excreted with the body's own waste.

This formula will have a multiple junction. It helps to restore minerals that may be lost while flushing the system of abnormal plaque. It contains ascorbate minerals to insure maintenance of mineral balance, improves heart action and supports liver and kidney function.

B-Sitosterol is a plant steroid found in many plants and cereal grasses, commonly found in Rye germ oil. It has the ability to emulsify lipids and is found to be 30 times more potent than choline when it comes to the breaking down of fatty deposits.

Vitamin C, according to Richard Passwater, who was the first to coin the word "Oral Chelation", 'the ascorbic (Vitamin C) factor reduces the amount of what is called ionic serum calcium and when used in extremely large amounts therapeutically tends to mobilize calcium deposits. Therefore, the over-calcification in unwanted deposits is reduced."

Magnesium Orotate was first developed by Dr. Hans Nieper. M.D., a West German physician. He first used Magnesium Orotate for the treatment of vascular conditions. It is non-toxic and has a strong influence reducing fatty deposits. It also improves oxygen utilization and dilation of the peripheral vascular system, functions as a blood thinning factor and seems to hold the calcium in solution and can release it from abnormal deposits. According to Dr. Nieper, M.D.. the calcium deposits, calcification of the heart, large blood vessels and coronary vessels, can be successfully dissolved with magnesium orotate.

It should also be mentioned that Dr. Nieper used other nutritional factors along with the Magnesium Orotate such as Potassium orotate and Bromelain. Potassium Orotate is simply potassium in a mineral base that carries it directly to the heart. Dr. Nieper also gives each individual bromelain, an enzyme ex-tracted from pineapple. Bromelain has . anti-inflammatory properties as well as anti-edema activity. Bromelain speeds healing time and has been found quite beneficial for people with phlebitis or inflamed veins. It thins the blood normally and delays red blood cells sticking together — the cause of blood clots. "There's absolutely no question of side effects —there's no toxicity," said Dr. Nieper. The magnesium and potassium work to strengthen the heart, he said and the bromelain acts as a "pipe cleaner" for coronary arteries and vessels, preventing the narrowing of arteries which contributes to heart attacks. "Its protection therapy," Dr. Nieper said, adding that the therapy uses completely natural substances. "They're not drugs. They're a food supplement." Dr. Nieper discovered his therapy was 95 percent successful in preventing new heart attacks.

According to Dr. Schuurmann of Burgsteinfurt. West Germany, who used the same therapy on more than 150 patients in his private practice, "Not a single one of them has had a heart attack since the treatment started. The majority of these patients were on the verge of heart attacks when they started my treatment. They were all suffering from serious heart disorders."

L-Methionine works together with the B-Sitosterol to prevent abnormal or excessive accumulation of fatty deposits, particularly in the liver. Once the fatty deposits have been dissolved in the arteries, the fatty substances are flushed out through the liver, so good liver function is a must. L-Methionine also increases the production of lecithin in the liver. This keeps cholesterol more soluble, also the formation of leci-

thin helps to keep cholesterol from forming dangerous deposits in blood vessels, lessening chances of heart attacks and arteriosclerosis. Also a study conducted with Cebus and Rheses monkeys indicated that L-Methionine is effective even by itself against atherosclerosis.

Ammonium Chloride, Calcium Chloride and Betaine HCL work synergistically to lower the PH just sufficiently enough to improve the body's mechanism in dissolving calcium (Reference File No. B709-115-AC). Calcium functions normally only in an acid medium when the body shifts to too high a PH level, the system becomes chronically over-alkaline, a condition called alkalosis occurs. Biochemically a high PH (high alkalinity) tends to throw calcium out of solution in the body fluids.

The **Betaine** fraction also acts as a fat emulsifier supporting the function of L-Methionine and improves adrenal function.

Natural **Taurine** plays a role as a neurotransmitter in the central nervous system, regulates membrane excitability in the heart and plays a role in preventing congestive heart failure. Natural Taurine is derived from bovine bile by a process that removes the cholic acid from the product.

Niacin normalizes blood clotting and markedly reduces arterial cholesterol levels. It also improves circulation.

B_6 may be the most important of the B vitamins for heart disorders because it is used to make lecithin, the cholesterol solubilizing substance. It has been shown that prolonged deficiency of this vitamin will lead to arterial damage (scarring) and atherosclerotic development.

According to Jonathon Rothchild, "**Mucopolysaccharides** or MPs for short, have therapeutic roles in human nutrition that includes stimulation of growth, wound healing. clearing intra and intercellular deposits of lipids (fats) and prevention of the formation of blood clots "Perhaps the broadest therapeutic application of the MPs lie in the field of cardiovascular research. These substances have been shown to clear hyperlipidemia (abnormally high blood fats) and to retard the arteriosclerotic and aging processes within the arterial walls. Some of the benefits of MPs to the cardiovascular system include reduction in angina pectoris, improvement in exercise tolerance, improvement in blood plasma parametus such as fibrinogen levels, total serum cholesterol levels. serum triglycerides as well as liver function. These MPs are structurally similar to heparin but are not considered as drugs.

As mentioned earlier in the bulletin the Ascorbate minerals have been added to the formula to insure maintenance of mineral balance to avoid mineral loss that would be undesirable in this chelation process and in fact to enhance the chelation process - these added ascorbated minerals insure adequate levels are present. Ascorbated minerals are partially chelated and partially electrostatically associated, therefore they insure very high bio-availability. These minerals include **Magnesium ascorbate, Zinc ascorbate, Manganese ascorbate, Selenium ascorbate**.

Dr. Garry F. Gordon of Sacramento, Ca.- president of the American Academy of Medical Preventics-declared: "Dr. Nieper is widely regarded as a medical genius. He's developed a revolutionary new treatment for heart disease. There's no doubt whatsoever that this therapy offers new hope for millions of Americans who suffer from heart problems.

Dr. Gordon used potassium and magnesium to treat over 700 of his cardiac patients over two years. "and 85 percent of them got dramatic relief of symptoms." he said.

Although one-third of his patients had had previous heart attacks and all were suffering from serious heart disease. Dr. Gordon enthused. "less than 1 percent succumbed later to a new heart attack."

More than one million victims will die from heart disease in 1978, according to the American Heart Assn. "But the Nieper therapy could save more than 900,000 of those lives," said Dr. Gordon.

To further enhance the function of this formula and the results thereof, refer to other specific for-mulas that may act synergistically to Reference File No. 400-375-245. For more nutritional information and research, review Reference File No. C107-125-LT. (improves liver function, lowers cholesterol and triglycerides); Reference File No. HCR-285-119 (sup-ports heart function); and Reference File No. Q166-155-MT (dissolves calcium deposits).

Figure 3.6 (Below) Common Sites of Atherosclerotic Plaques. The plaque (or deposit) that forms in the arteries does not form on the inner surface as is the general belief. but within the intima (or inner layer). In advanced cases of atherosclerosis, the Plaque erupts through the inner surface of the artery and exposes to the bloodstream the cholesterol and collagen produced by the deterioration of the diseased smooth muscle cells of the artery.