

# Information on Chelation Therapy

## What is Chelation?

Chelation is a series of intravenous (IV) treatments using an infusion of calcium ethylene diamine tetra-acetic acid, or calcium EDTA. Chelation therapy has been in use for over 30 years with well-documented benefits for the heart and vascular system.

Chelation therapy restores blood flow through blood vessels which have become compromised due to atherosclerosis.

## Calcium EDTA chelation

- is vein-friendly with little or no discomfort
- requires a 15-20 minute short IV push
- removes toxic heavy metals, including mercury, one of the most dangerous neurotoxins
- reduces oxygen free radicals
- improves calcium and cholesterol metabolism
- allows the body to restore healthy blood vessel walls and cell membranes

## Why Use Chelation Therapy?

Chelation therapy

- helps to reverse symptoms of hardening of the arteries
- prevents plaque build-up in arteries. (Plaque is a combination of fibrous tissue, cholesterol and calcium.)
- improves blood flow
- reduces the risk of high blood pressure, heart attack, and stroke
- is a non-surgical intervention to reduce risk factors of compromised blood flow

## What Happens When Blood Flow Becomes Restricted?

Reduced or restricted blood flow means that

- inadequate amounts of oxygen and other nutrients move through the body
- cell walls in arteries become leaky, allowing excessive calcium, sodium and other elements into the cells
- calcium metabolism becomes abnormal
- more plaque deposits build up within arteries
- plaque-hardened arteries can spasm leading to heart attacks or strokes

## How Can Chelation Improve Health?

Chelation

- removes damaging free radicals and heavy metals that irritate blood vessel walls and cell membranes
- corrects underlying cause of arterial blood flow restriction
- allows leaky and damaged cell walls to heal
- softens arterial walls and makes them more pliable and open
- increases blood flow throughout the body and to the heart
- includes replacement of vital minerals, vitamins and trace elements

## **How Does Chelation Interact with Drugs?**

Ca-EDTA chelation is compatible with

- blood thinners
- blood vessel dilators
- blood pressure medication
- heart arrhythmia medication
- calcium blockers
- beta blockers

Usually, during the course of chelation therapy, the need for prescribed medications can be reduced or eliminated.

## **A Short Course in the Endothelium**

The lining of the blood vessel is called the endothelium. Every inch of every blood vessel is lined with endothelium. Some doctors think of the endothelium as an organ in its own right because of its many functions.

When the endothelium is loaded with toxic heavy metals, it cannot function properly. A toxic endothelium cannot produce substances vital to healthy vascular function. Some of those vital substances include

- Nitric oxide – which causes blood vessels to relax and expand, allowing unrestricted blood flow
- Prostacyclin – which slows platelet clumping
- Heparin – which is the body's natural anti-coagulant

When the endothelium works properly, all these substances are produced when and where they are needed and in the right amounts. When the endothelium is burdened with toxic metals, it cannot work properly and vascular problems develop.

Endothelial dysfunction can contribute to

- High blood pressure
- High cholesterol
- Atherosclerosis (hardening of the arteries)
- Diabetes
- Blood clots