Literature Review of EDTA Chelation

Ana Maria Mihalcea, MD, PhD
Jun 24, 2021

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> EDTA-based chelation therapy reduces combined cardiovascular events in post MI patients treated with optimal medical therapy (5-year NNT = 18).

Hide Courtesy: The Trial to Assess Chelation Therapy (TACT) Initial Results Gervasio A, Lamas MD Chairman of Medicine Mount Sinai Medical Center Miami Beach FL USA; Columbia University Division of Cardiology at Mount Sinai Professor of Medicine Columbia University Medical Center

EDTA Chelation has been around for a over half a century, and has been successfully used in many physical illnesses. Recently, some doctors have been questioning the reports that EDTA Chelation is a beneficial therapeutic for the toxic metal contamination from vaccines and environmental sources - as well as my observed resolution of micro clotting in live blood analysis and clearing of live blood samples of the "Hydrogel Graphene" Ribbon structures seen. Additionally, I have seen significant clinical symptomatic improvements with my combination therapies including EDTA Chelation, anti aging and neurogenesis enhancing peptides like Epithalon, Selank and GHK Copper, Methylene Blue, Pleoticmix (coupon code: Nanoliposomal, nitric oxide supplementation, Humic and Fulric Acid, NAC, Glutathione, Alpha Lipoic Acid, Vitamin C, Cell nutritional supplementation, Hydrowell Colloidal Gold, alkaline diet and more depending on the patients. I have seen remarkable and consistent clearing of the blood and resolution of coalesce and micro clotting in all patients treated within 1-2 infusions administered. Additionally consistent clinical improvements in blood pressure values, improved renal function, improved energy, decreased shortness of breath, improved mental clarity, removal of AHA's anti-nuclear antibody - marker of autoimmune disease and lowering of abnormally elevated D Dimers.

EDTA Chelation therapy has been attacked in the United States for decades by the FDA and the medical establishment. Studies are hard to find but have been present for the last century. I highly recommend "A Textbook on EDTA Chelation Therapy" edited by *Elmer Cranton, MD with a foreword of double Nobel Prize Winner Linus Pauling, PhD. (An additional excellent book is Repairing Repair by Dr. Elmer Cranton, MD.)* I would like to cite a few studies reported in this textbook, and you may find the topics applicable to current CFS due side effects, Long Covid and shedding induced symptoms. Dear colleagues, please take another look at this remarkable treatment. Training courses are available through the American College for the Advancement of Medicine www.acam.org .

Mechanisms of action for EDTA:

1. increased arterial diameter by 10% or more by reduced metallic cross linkages and improved elasticity of arterial tissue
2. preventing pathological peroxidation of lipid cell membranes, improving active cell transport functions and improving cellular ability to maintain normal cross membrane gradients of sodium, potassium, magnesium mendelsohn and bastard factors
3. improving microcirculation by direct action on endothelial basement membranes
4. reducing blood viscosity and increasing erythrocyte flexibility
5. reducing the rate of atherosmatous plaque formation, allowing regression through natural healing
6. reducing platelet aggregation
7. reducing lead and other toxic metals in the body
   Note: An increase of 10% in arterial diameter in plaque filled vessel with turbulent flow is more than enough to double the flow of blood (Poiseuille's law)

It has been proven that EDTA Chelation Therapy is capable of exerting beneficial effects by improving microbiochemical oxidative phosphorylation, enhancing the efficiency of cell respiration, even in the presence of compromised blood flow and diminished oxygen.

Peng CK, Lam JL, Murphy ML, Small KD. Abnormal mitochondrial oxidative phosphorylation of ischemic myocardium reversed by calcium chelating agents. J Mol Cell Cardiol 1977;9:897-908

19 year follow up of 99 patients treated with EDTA Chelation therapy showed a 90% reduction in the incidence of cancer, when compared with 231 control patients. Statistically significant.

Blumer W, Reich T. Leaded gasoline: a cause for cancer. Environmental International. 1982;8:465-71

15 patients with well documented impairment of cerebral blood flow were studied utilizing the isotope technetium 99m. A new technique for the objective measurement of abnormalities and for measuring improvement as a result of intravenous treatment with disodium EDTA chelation therapy is described for the first time. A highly significant improvement (p<0.0005) in cerebral blood flow recovered following approximately 20 intravenous infusions of disodium EDTA. All patients showed improvement in cerebral blood flow, and 13 showed improvement in cerebral blood flow. EDTA chelates and removes aluminum as well as calcium.

R Richard Casdorph, Md, PhD EDTA Chelation Therapy: Efficacy in Brain Disorders pp142 "A Textbook on EDTA Chelation Therapy" edited by Elmer Cranton, MD

38 month retrospective analysis of 2859 patients with documented atherosclerosis and other degenerative age- associated diseases who were treated with intravenous disodium magnesium EDTA chelation therapy. Marked improvement occurred in 87% of patients with peripheral vascular disease and intermittent claudication. In patients with other cerebrovascular and other degenerative cerebral diseases (like dementia), 24% had marked improvement and 38% had good improvement. Of four patients with schizophrenia, 3 had marked improvement and 1 had good improvement. 75% of all patients had marked improvement in symptoms of vascular origin. Independent of psychology, 89% of all treated patients had marked or good improvement.

Efrain Olivarez MD James Carter MD EDTA Chelation Therapy: A Retrospective Study of 2859 Patients J Adv Med 1992;5:197-201

Retrospective study EDTA chelation in 870 patients with peripheral vascular disease. Improvement: 86-91%, 0/870 patients referred for surgical intervention only. 18 required alternate surgery saving an estimated 3 Million Dollars of insurance money. No adverse effects over 4 years.

Hanzlik C, Fiehn E. EDTA Manipulated Vascular Lesions 1992;154:2013-2215

139 private practice patients with chronic fatigue. 3 given EDTA Chelation infusions plus supportive multivitamin/trace mineral supplementation extending a mean of 45.4 days. No exhaustion findings rose by 25%, mean exhaustion score decreased by 1.6 in the most symptomatic fatigue group patients improved: see 39%

The Effects of EDTA Chelation Therapy with Multivitamin/Trace Mineral Supplementation upon Reported Fatigue Edward McDonagh, DO, Charles Rudolph DO, PhD, pp171 "A Textbook on EDTA Chelation Therapy" edited by Elmer Cranton, MD

13 subjects with chronic degenerative renal disease were treated with infusions that included EDTA, vitamins, minerals and oral supplements. Following 20 infusions, creatinine clearance significantly improved (mOs in 10 infusions, additional 8% by 20 infusions)

Keith Sisson, MD et al. The Improvement in Renal Function following EDTA Chelation and Multivitamin/ Trace Mineral Therapy. A Study in Creatinine Clearance. Medical Hypothesis, 14:53, 1984

Effect of disodium EDTA chelation regimen on cardiovascular events in patients with previous myocardial infarction: the TACT randomized trial

Infusion treatments Active infusions: NaEDTA 3 g, ascorbic acid 7 g, B vitamins, others (total 500 mL) vs Placebo infusions (0.9% NaCl) - 4g dextrose (total 500 mL) 75.222 infusions administered

Urine Lead excretion increased by 42%, Urine Cadmium excretion increased by 800%. EDTA based chelation therapy reduces combined cardiovascular events in post MI patients treated with optimal medical therapy (5-year NNT= 18).

Compared with optimal medical therapy + placebo/placebo, optimal medical therapy + active/active demonstrates an enhanced reduction in clinical events (HR .09% CI: 0.74-0.87, 0.95), P = 0.0194 This reduction is of sufficient magnitude to be clinically significant (5-year NNT= 18 EDTA/Vitamin therapy for secondary prevention. 5.1 year NNT was 16 (NNT= number needed to treat for one successful outcome)

Patients with diabetes demonstrate enhanced efficacy with EDTA chelation. Compared with placebo, EDTA-treated patients demonstrated a 41% reduction in Cardiovascular endpoints (p=0.0002, 5-year NNT = 7), and a 43% reduction in total mortality (p=0.011, 5-year NNT =12). CONTEXT: Beaten for secondary prevention in DM a major cornerstone event: 5-year NNT = 15.

EDTA Chelation Therapy for the Treatment of Neurotoxicity

Neurotoxicity can be caused by numerous direct agents, of which toxic metals, organophosphorus pesticides, air pollution, radiation and chemotherapeutic fields, neurotoxins, chemotherapeutic and anesthetic drugs, and pathogens are the most important. Other indirect causes of neurotoxicity are cytokine and/or reactive oxygen species production and adaptive immunotherapy. The development of neurodegenerative diseases has been associated with neurotoxicity. Which ions are useful to prevent or eliminate neurotoxicity? The chelating agent calcium disodium ethylenediaminetetraacetic acid (EDTA)—previously used to treat cardiovascular diseases—is known to be useful for the treatment of neurodegenerative diseases.

Major Mechanisms Underlying the Efficacy of EDTA Chelation Therapy against Neurotoxicity

Chelation of Toxic Metals: EDTA is able to bind toxic metals and to create stable complexes in vivo.

Antioxidant Activity: EDTA is itself an antioxidant agent, provoking ROS reduction and the increase of total antioxidant capacity in the blood samples of Cuffelined treated ND patients. It has already been shown here, after ten sessions of chelation therapy, plasma peroxide levels and DNA damage decrease significantly.

Endothelium Protection: Serum creatinine levels did not increase significantly, nitric oxide (NO) levels and endothelial NO synthase need expression improved, adhesion molecule Mac1 expression decreased, and TNFα-induced vascular leakage was prevented. The in vivo effects of EDTA in modulating human umbilical vein endothelial cell (HUVEC) activation induced by TNFα were also examined. TNFα-generated P-selectin cross-linkers reduced, as highlighted by normal tubule distribution, in keeping with a well spread, quiescent endothelial phenotype. The results obtained regarding the avoidance of EDTA endothelial activation are in agreement with the beneficial effects of EDTA in vivo in patients affected by CVD.

Potential Antimicrobial Agent: Tetrasodium EDTA has been proposed as an antimicrobial and antibiotic agent for use in wound care. Indeed, a low concentration of EDTA (4% solution) was able to kill Staphylococcus aureus, methicillin-resistant Staphylococcus aureus, Staphylococcus epidermidis, Pseudomonas aeruginosa, and Enterococcus faecalis within in vitro biofilms after a 24 h contact time.

Here are some of my reported findings and research:

Dr. Ana's Newsletter

Aluminum: The Brain Toxin Found Everywhere. Ways to Remove – Epoch Times Article that I was interviewed for

Heavy metals (let alone 1% Chelation from a patient in my office. Now extremely high Aluminum level in conjunction with many other metals which are causing havoc in my patient's body. The Epoch Times interviewed me for this article on Aluminum toxicity.

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8 months ago · 119 likes · 58 comments · Ana Maria Mihalcea, MD, PhD

Dr. Ana's Newsletter

EDTA Chelation Dissolves the Artificial Intelligence Magnetic Hydrogel Weapon

I have been advocating for months that EDTA Chelation as a treatment for Covid Vaccine Shedding. I have been observing the dissolution and detoxify the body even from Graphene. As a certified Chelation practitioner, it is evident to me that EDTA is needed for the environmental biointoxicant of this AI probably 5G form, that we are exposed to via CTN...

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Dr. Ana's Newsletter

THERE IS HOPE – EDTA CHELATION WORKS and What Really IS COVID???

100s Ribbon structures and Nucleaus formation everywhere. I had a young unvaccinated patient in his 30's come see me in November. He had just had "Covid" less than three weeks ago and was feeling fatigued, had brain fog, couldn't sleep. He had taken full course of Ivermectin and the usual supplements, Quercetin, Zinc, Vitamin D and C. I looked at his LIVE...

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9 months ago · 150 likes · 183 comments · Ana Maria Mihalcea, MD, PhD

Dr. Ana's Newsletter

Is EDTA Chelation and Intravenous Vitamin C An Additional Hopeful Medical Treatment For CTD Vax Injury? How Can Toxic Metals Found in CTD Shots Synergistically Harm The Body?

There has been much discussion recently regarding the toxic metal self-assembly nanoparticles in the CTD injected vaccines. Recent Raman spectral analysis of the CTD injected. The recent German Vaccine Injury Association report found extensive metallic, Italian researchers found these self-assembly nanoparticles in the Live blood analysis of CTD injected people.

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Elizabeth Farsaros · Mar 20
Dear Ana, this research means so much to me. I'm a 38 year old living in Canada and have had Lyme disease for 10 years. I've been bedridden for the last 3 years and my health has gone from lower to the 99 percentile, had an EMF and was a neurologist. Everything came back negative for both my relief and horror. I don't think there was a day in 2021-2018 that I didn't cry on my way to work, knowing in my heart something was wrong and thinking I may not be around long enough to watch my kids grow up (who are my world). I suffered in silence for a long time. Enter Covid. I was fully vaccinated and my Lyme disease flared up and I was bedridden. I'm now 2 years recovered from that!!! Let my dream job as a health care professional with Band of Omega Canada. They mandated everyone!!! Even the virtual volunteers!!!!!!!! My heart ached for my former team and clients (they were who are and others). Enter the Canadian Active Events Reporting System - began volunteering for them, documenting people's accounts of their adverse reactions to the CTD vax. Unfortunately, I was let go from my dream job. I'm now a volunteer and I'm so grateful for the work that could help me, in addition to your other many beautiful and brilliant ladies about humans as spiritual beings, self healing etc. has jolted me out of a dark, lonely hole. I share your outlook with many people I talk to - I feel like I've learned again. I am joyful and I have hope. Thank you sincerely, God bless, all that you do. ❤️
Like · 1 · 2 · Mar 21 · 2 replies
6 replies by Ana Maria Mihalcea, MD, PhD and others
Joseph Harner · Writer Creative Non Sense Lab · Mar 20
I've had around 80 EDTA chelations over the past 12 years. I swear by this treatment. It revolved a heart issue, and has helped keep me energetic and healthy.
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6 replies by Ana Maria Mihalcea, MD, PhD and others
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Contaminated Food Supply Contributing Cause To Live Blood Analysis Findings in Unvaccinated? Darkfield Blood Analysis On Grocery Must...
A colleague of mine, Dr. David Jernigan treats vaccine-injured patients successfully in Tennessee. He collect the urine* (second the results in of-times)
APR 7 · ANA MARIA MIHALCEA, MD, PHD
THERE IS HOPE – EDTA CHELATION WORKS and What Really IS COVID???
100s Ribbon structures and Nucleaus formation everywhere. I had a young unvaccinated patient in his 30's come see me in November. He had just had
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Alarming New Report from Working Group of Vaccine Analysis in Germany and Other Countries
Welcome back! Be Grounded Grounded Beyond
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Measles, Mumps, Rubella And Varicella Vaccine For Children Shown Nanobot Swarms, Quantum-Dots And Self Assembly Hydrogel
The childhood MMR vaccine is loaded with nanobots. They are so small that on any live blood analysis microscope, they look like bacteria. Dark, they are clearly...
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New Findings in Unvaccinated Live Blood Show Same Self Assembly Hydrogel Spheres As in Embalmed Deceased With Huge Rubbery Clots...
Image: Unvaccinated Blood shows tight spherical Hydrogel spheres and hydrogel filament growing out of it My last interview with Maria Zeee was in my mind...
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Diphtheria, Tetanus, Pertussis, Polio, Hemophilus B and Hepatitis B Vaccine For Small Children: Darkfield Microscopy Shows Self Assembly...
Scientists get repeated hits in the Medical Licensing Board again and join now extra again under investigation. There are people in the world who want to...
AUG 17 · ANA MARIA MIHALCEA, MD, PHD
Hope Wins: Before And After Intravenous EDTA Chelation + Vitamin C - Dark Field Live Blood Analysis – A Case Report
I have been observing live blood of unvaccinated people in dark field and find shedding is rare and that no one under unprecedented assault. I received...
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I AM STARTING A NEW FREEDOM MOVEMENT: Humanity United - For The Preservation Of The Human Species
Image: The Lord of the Rings, Aragorn's battle speech After standing all day at my dinner to make better the lives of others, I now notified last night...
JUN 30 · ANA MARIA MIHALCEA, MD, PHD
Decontaminating The Blood From Synthetic Biology Hydrogel With EDTA Chelation - Live Blood Documentation
Image courtesy: Case 6, 1 week after treatment. I often am heavily criticized for my passion for the truth and my unwillingness to be controllable to clear the...
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Mergellons Like Filament Tumor Found In Nasal Cavity With Insect Features After PCR Test - Live Blood Shows Classical Morgellons/CDB...
Image: nasal Mucosa growing from nasal passage where PCR swab was inserted Health practitioners are waking up all around the world to the reality of...
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