

Fear – When it is Your Friend and When it is Not



Robert Scott Bell, D.A. Hom.



“

*The easiest way to
restrict freedom of
the people is to
restrict the flow of
information.”*

**PROPAGANDA
EXPOSED!**

ROBERT
SCOTT BELL

www.Propaganda-Exposed.com

RT DOCU-SERIES | WATCH FREE | MAY 4-11 | **CLICK LINK BELOW TO WATCH**

31 years married, Nancy and I are blessed to have two healthy,
vaccine-free and antibiotic-free kids:

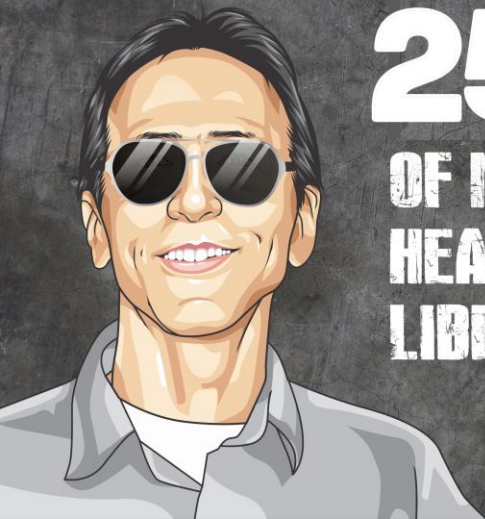



Elijah, 25 and
Ariana, 20.

No vaccines, no
antibiotics, no
Social Security
numbers, no birth
certificates.

ROCKING THE HEALTH WORLD SINCE 1999

THE  BERT SCOTT BELL SHOW



25 PLUS
YEARS
OF NATURAL
HEALING AND
LIBERTY 

Robert Scott Bell, D.A. Hom.

- Overcame 24 years of chronic illness
- Homeopathic practitioner for 30 years
- Co-Author of “Unlock the Power To Heal”
- Keynote Speaker/Presenter/Educator
- Board member of Trinity School of Natural Health
- Board member of United Precious Metals Association
- Board member American Association of Homeopathic Pharmacists
- Host of The Robert Scott Bell Show Sundays 1PM EST, Monday through Friday 3-5PM EST on Rumble, X, Brighteon, Unite.live, iTunes, Stitcher, Tunein, FB LIVE, Soundcloud, UK Health Radio, Twitch, D-Live and more!

For educational purposes. Internal Use Only

Statements in this presentation are for scientific and educational purposes only, have not been evaluated by the FDA, and are not intended to diagnose, treat or cure any disease.

Riding the razor's edge.



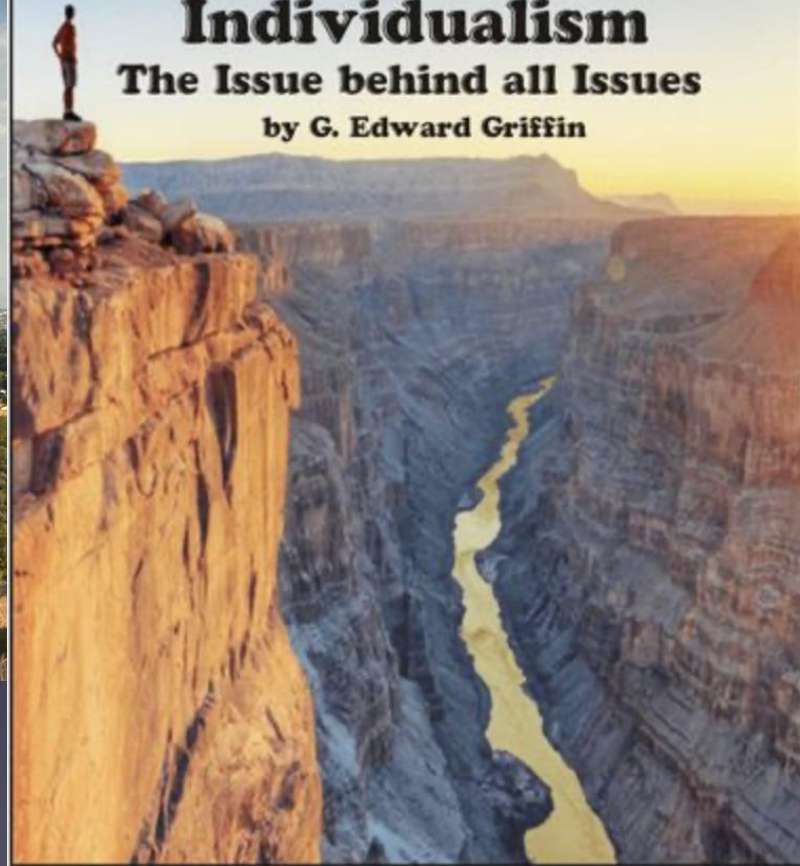
Fear can keep you alive.

The Chasm

Collectivism vs. Individualism

The Issue behind all Issues

by G. Edward Griffin



**No Mask, No Entry.
Social Distance.
Vaccine Passports.
CB Digital Currency.**

FEAR

Or it can imprison you.



W.H.O. Germ Theory Fear Porn

Ebola and Marburg disease

Lassa fever

Crimean-Congo Haemorrhagic Fever

Rift Valley Fever virus

MERS, SARS

Nipah and Hendra virus

Chikungunya and Zika

Disease X

W.H.O. Says You Should Be Afraid

Methicillin-resistant Staphylococcus aureus – MRSA

Plasmodium falciparum and Plasmodium vivax – Malaria

Dengue Fever, West Nile Virus, Viral Encephalitis, and Yellow **FEVER,**

Tuberculosis

Influenza A Virus Strain H1N1 -The Spanish Flu

Yersinia Pestis – The Black Death

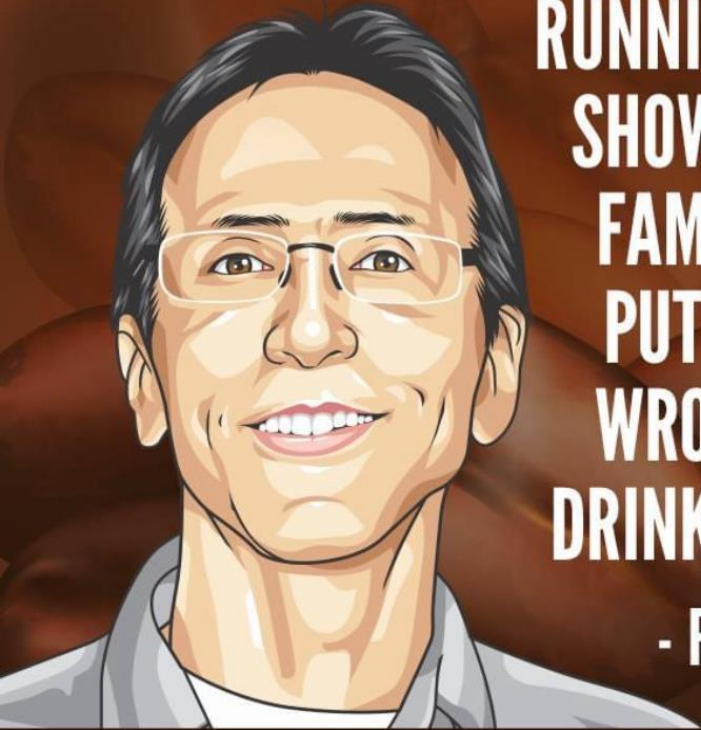
Variola major/Variola minor – Small Pox

Acquired immune deficiency syndrome – HIV/Aids

Typhus/Typhoid, Polio, Measles, Chicken Pox

**"MY HUMBLE AND LOVABLE PRODUCER -
SUPER DON WE CALL HIM - HE LOVES
COFFEE.. HE LOVES COFFEE A LOT. AND THE
RUNNING GAG ON THE
SHOW IF YOU'RE
FAMILIAR IS THAT HE'S
PUTTING IT IN THE
WRONG END.. HE
DRINKS IT."**

- ROBERT SCOTT BELL

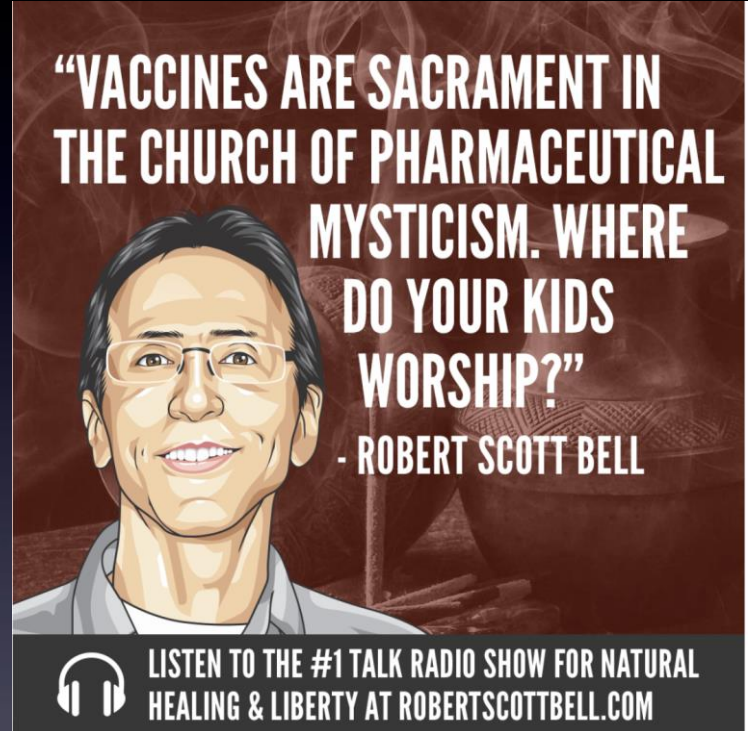


Coffee enemas were included in the Merck Manual of Diagnosis and Therapy until the 12th edition, published in 1972. In subsequent editions, all mention of them was removed.

**Congress shall make no law
respecting an establishment of
religion, or prohibiting the free
exercise thereof.**

**BIG PHARMA owns your
government.**

Does it own you?



**“VACCINES ARE SACRAMENT IN
THE CHURCH OF PHARMACEUTICAL
MYSTICISM. WHERE
DO YOUR KIDS
WORSHIP?”**
- ROBERT SCOTT BELL

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HEALING & LIBERTY AT ROBERTSCOTTBELL.COM**

Doctor Faces 35 Years In Prison For Issuing COVID-19 Cards To No-Vax Patients



BY TYLER DURDEN

MONDAY, JUL 07, 2025 - 05:40 PM

[*Via Died Suddenly on X,*](#)

Vero Beach, Fla. - **Utah plastic surgeon Dr. Kirk Moore is facing thirty five years in federal prison for destroying thousands of vials of COVID-19 vaccine**, giving his patients vaccine cards without taking the shots, and injecting saline into children whose parents wanted them to believe they got vaccinated without risking the deadly side effects.

Dr. Michael Kirk Moore Jr., 58, who operates his practice Plastic Surgery Institute of Utah, Inc. in Salt Lake County, Utah, begins his trial on Monday, July 7, 2025, at the Orrin G. Hatch U.S. Courthouse, located at 351 S. West Temple, Salt Lake City, Utah.

Medical
Marxism!

One size fits
all →

Sacrifice the
individual for
the greater
good.

CDC Recommended Childhood Vaccine Schedule: 1986 vs 2019

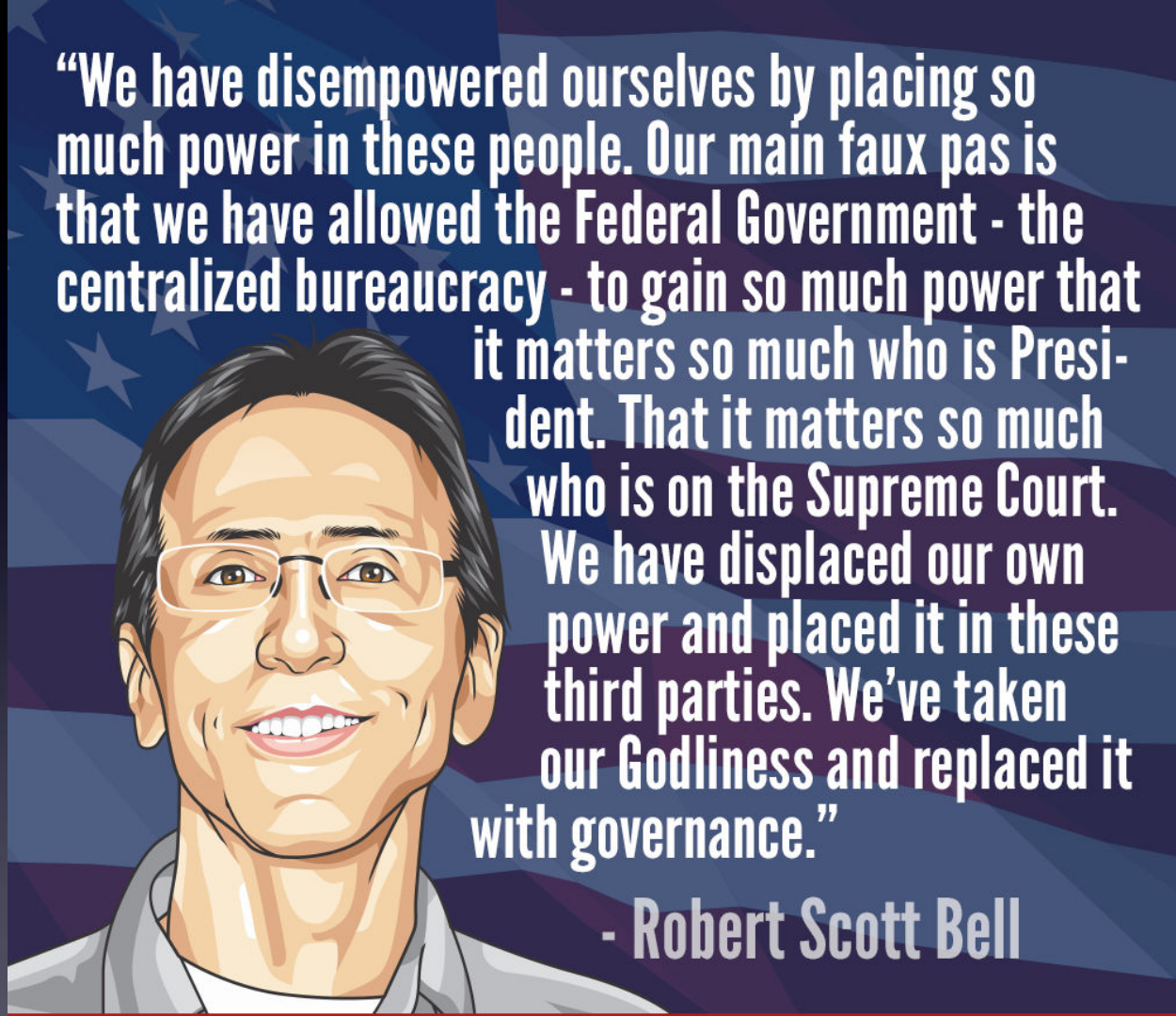
1986 ⇒	12 shots 25 antigens 8 diseases		2019 ⇒	54 shots 70 antigens 16 diseases	
DTP (2 Months)	MMR (15 Months)	DTP (4 Years)	Hep B (1 day)	Influenza (7 Months)	Influenza (5 years)
Polio (2 Months)	DTP (18 Months)	Polio (4 Years)	Hep B (1 Month)	MMR (12 Months)	Influenza (6 Years)
DTP (4 Months)	Polio (18 Months)	Td (14 Years)	DTaP (2 Months)	Varicella (12 Months)	Influenza (7 Years)
Polio (4 Months)	Hib (2 Years)		Polio (2 Months)	Hib (12 Months)	Influenza (8 Years)
DTP (6 Months)			Hib (2 Months)	Hep A (12 Months)	Influenza (9 Years)
			PCV 13 (2 Months)	PCV 13 (12 Months)	Influenza (10 Years)
			Rotavirus (2 Months)	DTaP (15 Months)	HPV (11 Years)
			DTaP (4 Months)	Hep A (18 Months)	Meningococcal ACWY (11 Years)
			Polio (4 Months)	Influenza (18 Months)	Tdap (11 Years)
			Hib (4 Months)	Influenza (2 Years)	Influenza (11 Years)
			PCV 13 (4 Months)	Influenza (3 Years)	HPV (11.5 Years)
			Rotavirus (4 Months)	Influenza (4 years)	Influenza (12 years)
			DTaP (6 Months)	DTaP (4 Years)	Influenza (13 Years)
			Polio (6 Months)	MMR (4 Years)	Influenza (14 Years)
			Hep B (6 months)	Polio (4 Years)	Influenza (15 Years)
			Hib (6 Months)	Varicella (4 Years)	Meningococcal ACWY (16 Years)
			PCV 13 (6 Months)		Influenza (16 years)
			Rotavirus (6 Months)		Influenza (17 Years)
			Influenza (6 Months)		Influenza (18 years)

**1970'S - Smallpox
(until 1972), DTP,
Polio, MMR**



Note: DTP, DTaP, Tdap and MMR vaccines contain three antigens each.

SOURCE: CDC Recommended Childhood Vaccine Schedule, Birth to 18



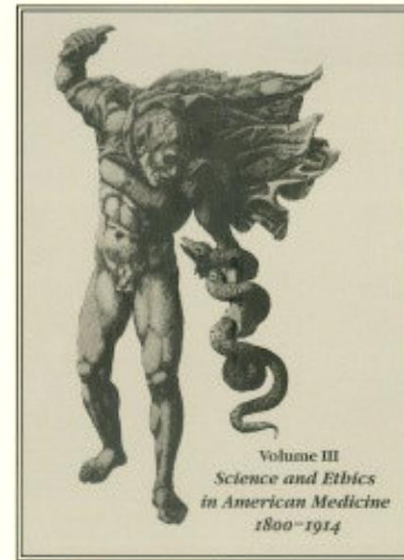
“We have disempowered ourselves by placing so much power in these people. Our main faux pas is that we have allowed the Federal Government - the centralized bureaucracy - to gain so much power that it matters so much who is President. That it matters so much who is on the Supreme Court. We have displaced our own power and placed it in these third parties. We’ve taken our Godliness and replaced it with governance.”

- Robert Scott Bell

**The AMA (1847) was
founded to destroy the
primary competition to
establishing a medical
monopoly:**

**American Institute of
Homeopathy (1844)**

DIVIDED
THE CONFLICT BETWEEN HOMOEOPATHY
AND THE AMERICAN MEDICAL ASSOCIATION
LEGACY




Volume III
*Science and Ethics
in American Medicine
1800-1914*

HARRIS L. COULTER

The Flexner Report of 1910 destroyed Modern Medicine.

**FLEXNER REPORT -
FAUX PAS
OR FRAUD?**



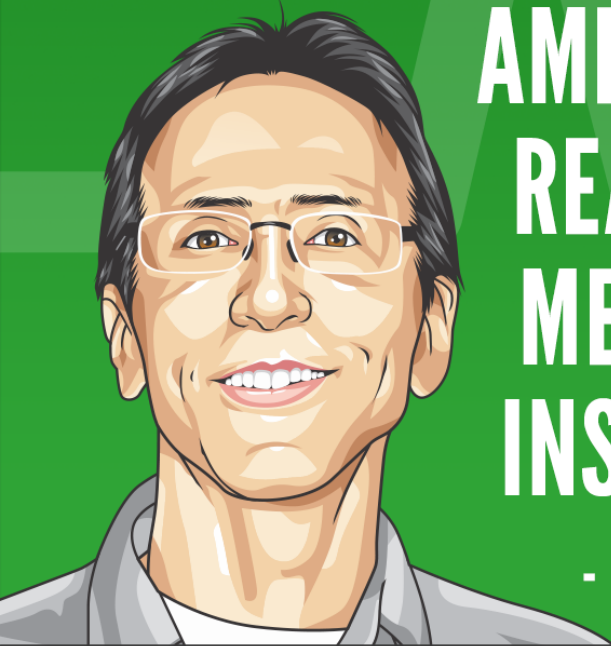
The medical industry is nothing short of a "Church of Pharmaceutical Mysticism" with medical doctors the equivalent of "high priests." But modern medicine has only been around a little over 100 years, while traditional medical systems (such as Chinese and Ayurvedic medicine) have been in use for over 5,000 years.

Homeopathy has been in use for 200 years, chiropractic and naturopathic medicine have been utilized for over 100 years, and of course, people have been using herbs and dietary remedies since the beginning of recorded history.

**This is largely why
Americans know nothing
of vitalism.**

**"THE MOST DANGEROUS
THING YOU CAN HAVE IN
AMERICA IS
REALLY GOOD
MEDICAL
INSURANCE."**

- ROBERT SCOTT BELL



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HEALING & LIBERTY AT ROBERTSCOTTBELL.COM**

**Allopathic medicine is
the 3rd leading cause of
death in America.**

(Barbara Starfield JAMA 2000)

Where is nutrition & toxicology?



Prescription Drugs Are the Leading Cause of Death



PETER C. GÖTZSCHE APRIL 16, 2024 PHARMA, SOCIETY 15 MINUTE READ

MERCK'S 1899 MANUAL OF THE MATERIA MEDICA

TOGETHER WITH A SUMMARY OF THERAPEUTIC INDICATIONS AND A CLASSIFICATION OF MEDICAMENTS

A READY-REFERENCE POCKET BOOK

FOR THE

PRACTICING PHYSICIAN

CONTAINING

NAMES AND CHIEF SYNONYMS, PHYSICAL FORM AND APPEARANCE, SOLUBILITIES,
PERCENTAGE STRENGTHS AND PHYSIOLOGICAL EFFECTS, THERAPEUTIC
USES, MODES OF ADMINISTRATION AND APPLICATION,
REGULAR AND MAXIMUM DOSAGE, INCOMPATIBLES,
ANTIDOTES, PRECAUTIONARY REQUIREMENTS,
ETC., ETC.,—OF THE

CHEMICALS AND DRUGS USUAL IN MODERN MEDICAL PRACTICE

Compiled from the Most Recent Authoritative Sources and Published by

MERCK & CO., NEW YORK

Copyright by Merck & Co., New York, 1899

Silver Chloride Merck.

White powd.; blackens on exposure to light.—Sol. in ammonia, potassium thiosulphate, potassium cyanide.—Antiseptic, Nerve-sedative.—Uses: Chorea, gastralgia, epilepsy, pertussis, diarrhea, and various neuroses.—**Dose:** $\frac{1}{2}$ —1- $\frac{1}{2}$ grn., in pills.—Max. D.: 3 grn.

Silver Citrate Merck.

White, dry powd.—Sol. in about 4000 parts water.—Antiseptic Astringent.—Uses: Wounds, gonorrhea, etc.—Applied in 1—2% oint., or 1—2:8000 solut.—Always prepare solut. fresh!

Silver Cyanide Merck.—U.S.P.

SOL. in solut's of potassium cyanide, ammonia, sodium thiosulphate.—Antiseptic, Sedative.—USES: Epilepsy, chorea.—**Dose:** 1/60—1/20 grn., in pills.—ANTIDOTES: Ammonia, chlorine, mixture of ferric and ferrous sulphates, artificial respiration, stomach siphon.

Silver Iodide Merck.—U.S.P.

Sol. in solut. potassium iodide or cyanide, ammonium thiosulphate.—Alterative.—Uses: Gastralgia and syphilis.—**Doses:** 3/4—1 grn., in pills.

Silver Lactate Merck.

Small needles or powd.—Sol. in 20 parts water.—Antiseptic Astringent.—Uses: Sore throat, gonorrhea, etc.—Applied in 1—2:4000 solut.

Silver Nitrate Merck.—U.S.P.—Cryst.

Sol. in 0.6 part water, 26 parts alcohol.—**Dose:** 1/8—1/2 grn.—Antidotes: Solut. common salt, sal ammoniac, mucilaginous drinks, emetics, stomach siphon, white of egg, milk, etc.—Incompatibles: Organic matter, hydrochloric acid, chlorides, phosphates, arsenites, opium, extracts, resins, essential oils, tannin, etc.

Silver Nitrate, Moulded (Fused), Merck.—U.S.P.

Lunar Caustic.

Silver Nitrate, Diluted, Merck.—U.S.P.

Mitigated Caustic.—33-1/3% silver nitrate.

Silver Oxide Merck.—U.S.P.

Argentamine.

8% solut. silver phosphate in 15% solut. ethylene-diamine.—Alkaline liq., turning yellow on exposure.—Antiseptic and Astringent, like silver nitrate.—Uses: Chiefly gonorrhea.—Inject. in 1:4000 solut.

Argonin.

Silver-casein compound; 4.25 per cent. silver.—Wh. powd.—Sol. in hot water; ammonia increases solubility.—Antiseptic.—Uses: Chiefly in gonorrhea, in 1—2 per cent. solu



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Complementary and
Integrative Health

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[Home](#) > [Health Information](#) > Colloidal Silver: What You Need To Know

Colloidal Silver: What You Need To Know

Share



What is colloidal silver?

Colloidal silver consists of tiny silver particles in a liquid. It is sometimes promoted on the internet as a [dietary supplement](#); however, evidence supporting health-related claims is lacking.

Is colloidal silver safe?

The U.S. Food and Drug Administration (FDA) has warned that colloidal silver isn't safe or effective for treating any disease or condition. Additionally, the FDA and the Federal Trade Commission have taken action against a number of companies for making misleading claims about colloidal silver products.

Colloidal silver can cause serious side effects. The most common is argyria, a build-up of silver in the body's tissues causing a bluish-gray discoloration of the skin, which is usually permanent.

Despite 1000s of
peer reviewed
papers & over a
century of
clinical use!



For Consumers

[Safe Use of Complementary
Health Products and Practices](#)

Silver reduces tissue inflammation at point of foci.

- Decrease in adhesion severity.¹
- Silver nanoparticles may exert anti-inflammatory activities by decreasing Interferon- γ production.¹
- The anti-inflammatory effect of silver nanoparticles observed in the in vivo model is not due to increased cell death.¹
- Silver nanoparticles decrease TNF- α production on LPS stimulated macrophages.¹

¹Wong KY, et al., "Further Evidence of the Anti-inflammatory Effects of Silver Nanoparticles." Chem Med Chem 2009, 4, p1129 – 1135.

Regeneration

Silver accelerates tissue healing and reduces scar tissue formation potential.^{1,2}

- Positive silver ions (or charged silver nanoparticles) stimulate de-differentiation and re-differentiation of stem cells in vivo, accelerating healthy regenerative events wherever there is inflammation, infection or injury.¹
- Promotes accelerated wound healing while improving cosmetic appearance on recovery (no scarring)²
- Positive effects exerted through antimicrobial properties, reduction in wound inflammation, and modulation of fibrogenic cytokines²

¹Becker, RO, "Induced De-differentiation; A Possible Alternative to Embryonic Stem Cell Transplants." Neurorehabilitation 17 (2002):23-31.

²Jun Tian, Dr. et al. Topical Delivery of Silver Nanoparticles Promotes Wound Healing 31 Oct 2006 [ChemMedChem](#) Vol. 2 Issue 1, P. 129-136.

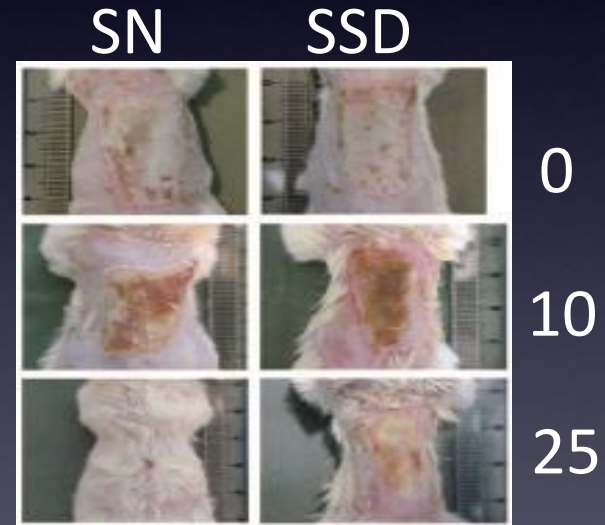
Epithelial tissue regeneration

In addition to *The Body Electric* by Dr. Robert Becker, a published study conducted by the University of Hong Kong titled “*Topical Delivery of Silver Nanoparticles Promotes Wound Healing*”¹ revealed:

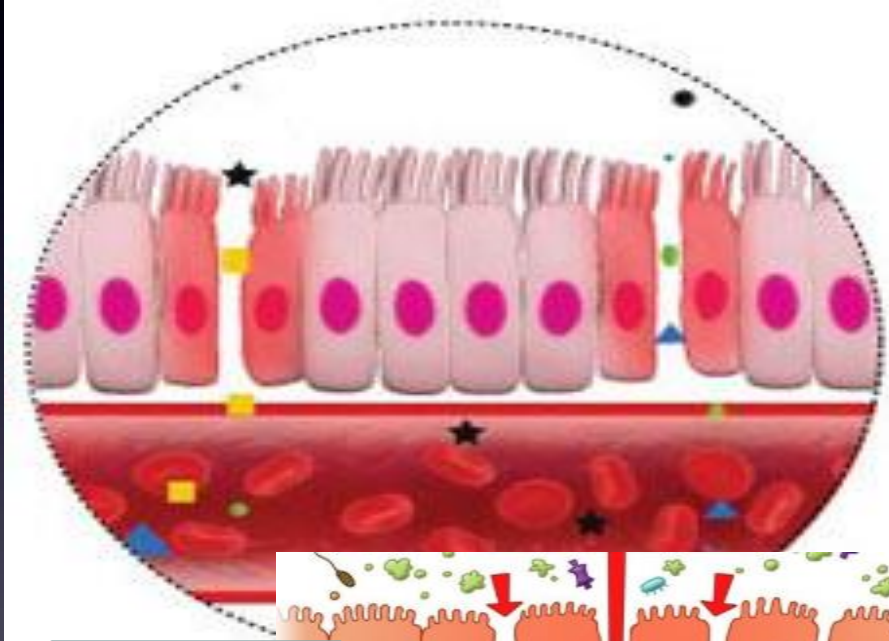
Silver Nanoparticles were proven to promote accelerated healing as well as nearly normal hair growth on the wound surface and contributed to achieving better cosmesis

The photographs at right show wounds from animals treated with Silver Nanoparticles [ND] and Silver Sulfadiazine [SSD] – Results on days 0, 10, and 25 after burn injury.

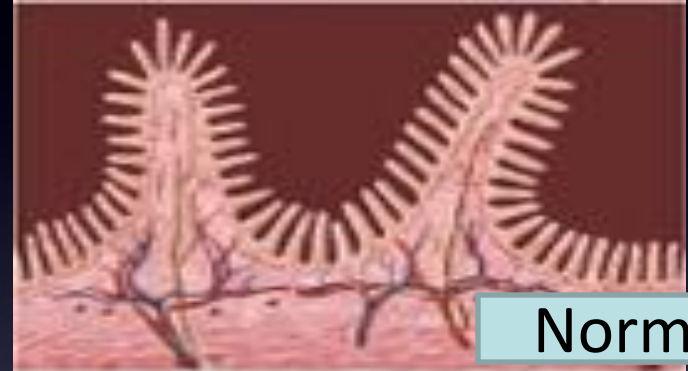
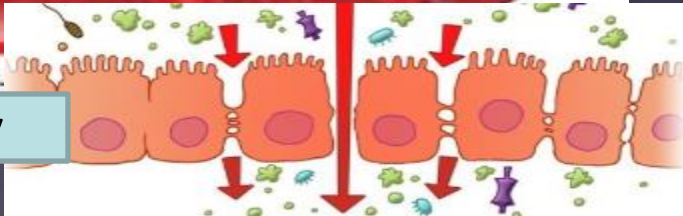
Do silver nanoparticles have the same effect on other wounds? Besides burns, wound healing in diabetic mice was also investigated. In this model, wounds treated with silver nanoparticles completely healed in 16 ± 0.41 days after injury.



The Road to Colostomy Bags: Vaccines, Antibiotics and Prednisone



Leaky



Normal



Damaged

Intestinal Immune Recovery w/ Silver and Aloe

Bio-Active Intestinal Health Recovery

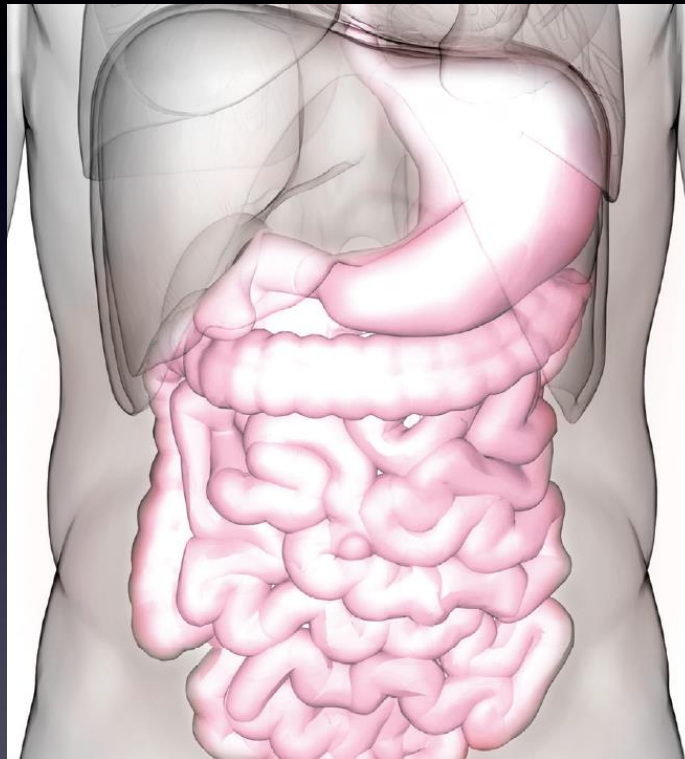
- Take one to 2 tbsp. (15 to 30 mL) Bio-Active Silver Hydrosol with same amount of pure Aloe liquid
- 3 times daily for 2 to 8 weeks
- Pre/probiotic nightly



.....

Other adjuncts for consideration:

- ALTA Can-gest, L-glutamine, CBD, Silica, Copper
- Homeopathic Baptisia, Phosphorus, Lycopodium



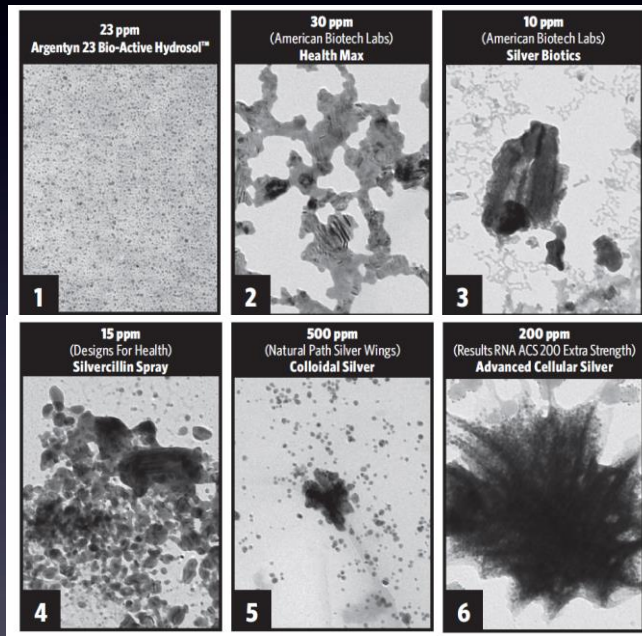
ARGENTYN 23[®]

SINCE 2001

Unprecedented Particle Size

As small as 0.8 nanometers with the most uniform dispersion and greatest resulting surface area

Silver
bioactivity
is a
function
of particle
size and
charge.



SAND vs GRAVEL



Comparing Argentyn 23 to other brands is like comparing sand to gravel. Due to small particle size, it has more particles per dose (larger army regardless of ppm) than any competitor for greatest efficacy*.

Argentyn 23 contains about 20 billion particles of silver per teaspoon dose

*These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure or prevent any disease.

The Homoeopathic
Pharmacopoeia Of
The United
States... - Primary
Source Edition

Food, Drug & Cosmetic Act of 1938

American Institute of Homeopathy.
Committee on Pharmacopeia

FDA & FTC:

Biggest threat to homeopathy

ANH Readies for Unprecedented Defense of Health Freedom

By The ANH Team | July 29, 2024 | 0 Comments

FDA removed CPG 400.400



REMEDIES – SOURCE MATERIAL

- Plant – Hops, Pokerooroot, Yellow jasmine, Dandelion
- Mineral – Arsenic, silver, magnesium, phosphorus, mercury
- Animal - Snake venoms, bee venom, milk, Spanish fly

Latin names:

- Bryonia, Phytolacca, Gelsemium, Taraxacum
- Arsenicum, Argentum met., Mag phos, Mercurius
- Crotalus horridus, Vipera, Apis, Lac caninum, Cantharis



OTHER REMEDIES – NOSODES, ORGANOS AND SARCODES

- Disease process substances (cancerous tissue)
- Human/animal tissue
- Viruses (protein fragments)
- Bacteria
- Fungus
- Vaccines
- Drugs
- Environmental toxins

Miasmatic remedies:

Psorinum – scabies pus

Tuberculinum – infected tissue

Syphilinum – syphilis

Medorrhinum – gonorrhea

Sycosis - gonorrheal



Homeopathy: The original microdosing nanopharmacology.

- X – tenfold dilution step
- C – hundredfold dilution step
- K – multifactorial dilution step
- M – one thousand
- LM – 50 thousand

24x/12c beyond Avogadro's Number

The secret to
non-toxicity
(safety).

**REMEDIES – A QUESTION OF POTENCY –
SERIAL DILUTION AND SUCCUSSION**



Red Pill Expo remedies:

Immunis Combo*
(for everything jab related)

Nicotinum* - Nicotine

Neil Schulz nschu75856@aol.com (801) 589-3066

1. Elimination
2. Assimilation
3. Inflammation



Clinical Homeopathy 101+



Robert Scott Bell, D.A. Hom.

Lecture on Demand available at
Trinity School of Natural Health



The science of Beta Glucan

Daily Immune Readiness™ is our highly purified
BWH-85™ Beta Glucan.

Immune Modulation

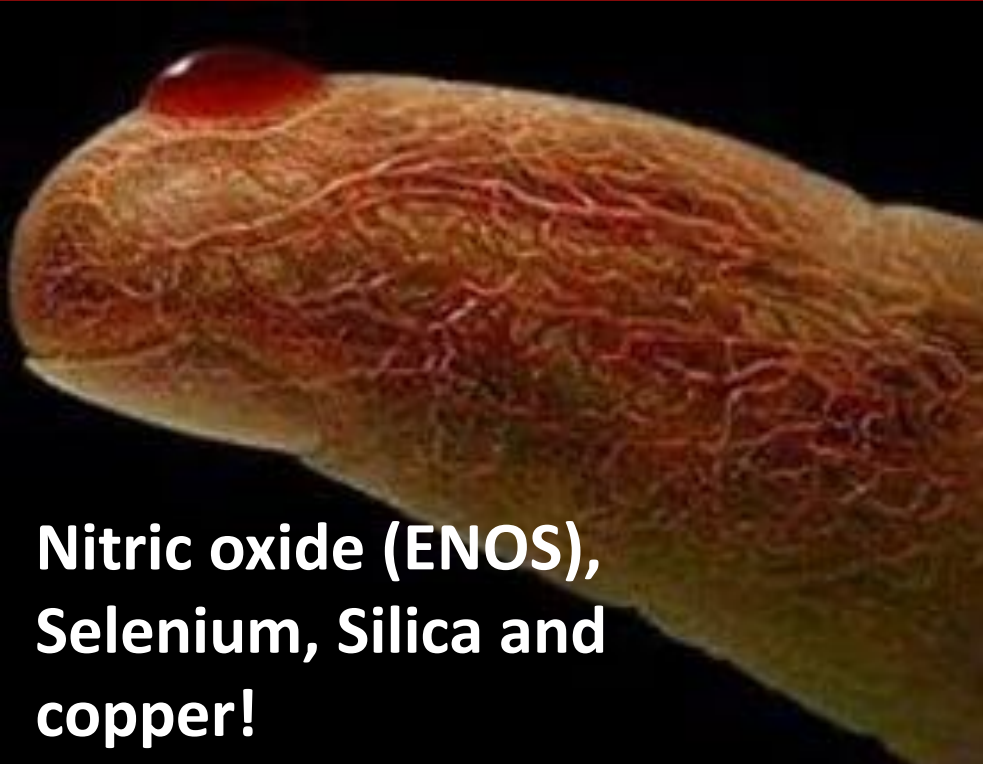


Beta glucan is a natural polysaccharide that is classified as an Immuno-Modulator; meaning, it “modulates” (changes) your Immune System to make it as efficient as possible. This fiber-like molecule works by activating Immune System cells in the body: Macrophages, Neutrophils, Basophils, Natural Killer Cells, etc.

Macrophages, specifically, trigger a host of immune functions that allow the body to produce the most complete, effective and appropriate immune response achievable. The activity of the body's immunocytes (Immune Cells) determines how well your Immune System traps and consumes invaders that do not belong in the body.

When the body is confronted with foreign pathogens it sees as non-self, Beta Glucan puts the immune cells on “high alert” to confront the attackers.

**Are you afraid of
“died suddenly”?**



**Nitric oxide (ENOS),
Selenium, Silica and
copper!**

- The endothelium is the single-cell, inner lining of the entire cardiovascular system in the human body
 - all 100,000 miles of it
- The endothelium is the largest organ in the endocrine system
- The surface area of the entire endothelium is over 400 sq. meters – 6 tennis courts

The Malinski Study – Ground Breaking Research

Nitric Oxide Maintains Endothelium

The body must produce long-term, bioavailable N.O.

- Long-term, bioavailable N.O. depends on the delicate ratio of N.O. and the most cytotoxic, oxidative molecule in the human body
- ONOO⁻ (peroxynitrite): the biological system's most destructive molecule

Vitamin D₃, L-Arginine, L-Citrulline, and Antioxidant Supplementation Enhances Nitric Oxide Bioavailability and Reduces Oxidative Stress in the Vascular Endothelium – Clinical Implications for Cardiovascular System

Hazem Dawoud, Tadeusz Malinski

Department of Chemistry and Biochemistry, Nanomedical Research Laboratories, Ohio University, Athens, Ohio, USA

ABSTRACT

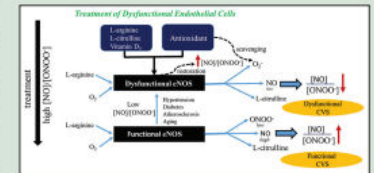
Background: Nitric oxide [NO] is a crucial signaling molecule which regulates the blood flow and prevents the adhesion of blood components to the vascular wall. A deficiency in bioavailable NO concentration is associated with the dysfunction of endothelial NO synthase (eNOS) and/or an increase in oxidative stress. The deficiency of bioavailable NO is a common denominator of several cardiovascular diseases, including diabetes, atherosclerosis, and hypertension. **Materials and Methods:** We used a nanomedical technology to elucidate the balance between bioavailable NO and oxidative stress (peroxynitrite ONOO⁻) in human umbilical vein endothelial cells (HUVECs) treated with a supplement containing L-arginine, L-citrulline, Vitamin D₃, and antioxidants. Nanosensors, with a diameter of 200–300 nm, are capable of measuring in situ NO and peroxynitrite [ONOO⁻] concentrations produced by single endothelial cells. **Results:** The ratio of the concentration of cytoprotective NO [NO] to the concentration of cytotoxic peroxynitrite [ONOO⁻] was used to estimate the efficiency of eNOS. HUVECs incubated with L-citrulline, L-arginine, and Vitamin D₃ increased the [NO]/[ONOO⁻] ratio by 25%, while in the presence of antioxidants, the increase was 15%. The synergistic effect between the mix of L-arginine, L-citrulline, Vitamin D₃, and antioxidants was a favorable increase of the overall [NO]/[ONOO⁻] ratio by 50%. **Conclusion:** The findings of the study presented here clearly indicate that L-arginine, L-citrulline, and Vitamin D₃ can significantly alter the function of the endothelium and NO production, in a favorable manner, while pointedly reducing ONOO⁻ – the main component of oxidative stress. This effect can be significantly potentiated in the presence of antioxidants.

Key words: Antioxidant, endothelium, L-arginine, L-citrulline, nitric oxide, peroxynitrite, Vitamin D₃.

SUMMARY

• Nanomedical studies were used to elucidate the role of a mixture of Vitamin D₃, L-arginine, L-citrulline, and several antioxidants in the improvement of nitric

oxide production and the reduction of oxidative stress in human endothelial cells. It appears that the combination of natural products can effectively improve endothelial function by about 50% and has shown that, on cellular models, it could potentially be used to improve the endothelial function in cardiovascular diseases.



Abbreviations Used: HUVECs: Human umbilical vein endothelial cells; O₂⁻: Superoxide; HBSS: Hank's balanced salt solution; EC: Endothelial cell; Cal: Calcium ionophore; CVD: Cardiovascular disease; eNOS: Endothelial nitric oxide synthase.

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DOI: 10.4103/pr.79_19

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Website: www.phcogres.com

Quick Response Code:



INTRODUCTION

Nitric oxide (NO) is a gaseous molecule that is generated by the NO synthase (NOS) enzyme. NO is synthesized from two substrates: L-arginine (non-essential amino acid) and oxygen.^[1,2] This synthesis occurs through NOS in a five-electron transfer oxidation of L-arginine to L-citrulline. NOS is located in the membrane of endothelial cells, and its synthesis is stimulated by calcium flux.^[3,4] In the cardiovascular system, the calcium flux is triggered by a mechanical process (shear stress)^[5] and chemical stimuli such as acetylcholine, norepinephrine, angiotensin II, and many others.^[6,7]

NO can react rapidly with many biological components, including superoxide (O₂⁻), Fe (III) of hemoglobin, guanylate cyclase, and many others.^[8,9] Therefore, the measurement of reactive "free" NO is a challenging problem. In our laboratories, we are able to perform measurements of bioavailable NO produced by a single endothelial cell in different segments of the cardiovascular system, such as

capillary vessels, aorta, and heart. Maximal NO concentrations vary significantly, depending on the location of the endothelial cells – with the lowest concentrations in the small capillary (about 80 nM) and the highest in the endocardium of the heart (about 2.0 μM).^[10] The level of NO concentration depends largely on the velocity and type of blood flow (laminar vs. turbulent).^[11–14]

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Key Findings of The Malinski Study

"CARDIO-M instantly stimulated N.O. release in the endothelium."

"CARDIO-M significantly improves endothelial function...proving that CARDIO can enhance the production of bioavailable N.O. and simultaneously reduce the level of peroxynitrite."

"The total improvement of [NO]/[ONOO-] by CARDIO is about 50%."

Vitamin D₃, L-Arginine, L-Citrulline, and Antioxidant Supplementation Enhances Nitric Oxide Bioavailability and Reduces Oxidative Stress in the Vascular Endothelium – Clinical Implications for Cardiovascular System

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ABSTRACT

Background: Nitric oxide (NO) is a crucial signaling molecule which regulates the blood flow and prevents the adhesion of blood components to the vascular wall. A deficiency in bioavailable NO concentration is associated with the dysfunction of endothelial NO synthase (eNOS) and/or an increase in oxidative stress. The deficiency of bioavailable NO is a common denominator of several cardiovascular diseases, including diabetes, atherosclerosis, and hypertension. **Materials and Methods:** We used a nanomedical technology to elucidate the balance between bioavailable NO and oxidative stress (peroxynitrite [ONOO⁻]) in human umbilical vein endothelial cells (HUVECs) treated with a supplement containing L-arginine, L-citrulline, Vitamin D₃, and antioxidants. Nanosensors, with a diameter of 200–300 nm, are capable of measuring in situ NO and peroxynitrite [ONOO⁻] concentrations produced by single endothelial cells.

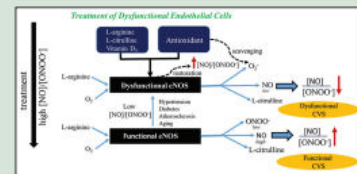
Results: The ratio of the concentration of cytoprotective NO [NO] to the concentration of cytotoxic peroxynitrite [ONOO⁻] was used to estimate the efficiency of eNOS. HUVECs incubated with L-citrulline, L-arginine, and Vitamin D₃ increased the [NO]/[ONOO⁻] ratio by 25%, while in the presence of antioxidants, the increase was 15%. The synergistic effect between the mix of L-arginine, L-citrulline, Vitamin D₃, and antioxidants was a favorable increase of the overall [NO]/[ONOO⁻] ratio by 50%. **Conclusion:** The findings of the study presented here clearly indicate that L-arginine, L-citrulline, and Vitamin D₃ can significantly alter the function of the endothelium and NO production, in a favorable manner, while pointedly reducing ONOO⁻ – the main component of oxidative stress. This effect can be significantly potentiated in the presence of antioxidants.

Key words: Antioxidant, endothelium, L-arginine, L-citrulline, nitric oxide, peroxynitrite, Vitamin D₃

SUMMARY

Nanomedical studies were used to elucidate the role of a mixture of Vitamin D₃, L-arginine, L-citrulline, and several antioxidants in the improvement of nitric

oxide production and the reduction of oxidative stress in human endothelial cells. It appears that the combination of natural products can effectively improve endothelial function by about 50% and has shown that, on cellular models, it could potentially be used to improve the endothelial function in cardiovascular diseases.



Abbreviations Used: HUVECs: Human umbilical vein endothelial cells; O₂⁻: Superoxide; HBSS: Hank's balanced salt solution; EC: Endothelial cell; Cal: Calcium ionophore; CVD: Cardiovascular disease; eNOS: Endothelial nitric oxide synthase.

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INTRODUCTION

Nitric oxide (NO) is a gaseous molecule that is generated by the NO synthase (NOS) enzyme. NO is synthesized from two substrates: L-arginine (non-essential amino acid) and oxygen.^[1,2] This synthesis occurs through NOS in a five-electron transfer oxidation of L-arginine to L-citrulline. NOS is located in the membrane of endothelial cells, and its synthesis is stimulated by calcium flux.^[3,4] In the cardiovascular system, the calcium flux is triggered by a mechanical process (shear stress)^[5] and chemical stimuli such as acetylcholine, norepinephrine, angiotensin II, and many others.^[6,7]

NO can react rapidly with many biological components, including superoxide (O₂⁻), Fe (III) of hemoglobin, guanylate cyclase, and many others.^[8,9] Therefore, the measurement of reactive "free" NO is a challenging problem. In our laboratories, we are able to perform measurements of bioavailable NO produced by a single endothelial cell in different segments of the cardiovascular system, such as

capillary vessels, aorta, and heart. Maximal NO concentrations vary significantly, depending on the location of the endothelial cells – with the lowest concentrations in the small capillary (about 80 nM) and the highest in the endocardium of the heart (about 2.0 μM).^[10] The level of NO concentration depends largely on the velocity and type of blood flow (laminar vs. turbulent).^[11–14]

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Managing Cytokine Storms (without harming the liver)

What is a cytokine storm?

An immune reaction gone wild where the body starts to attack its own cells and tissues rather than just fighting off the infected cells, causing damage to organs.

- **Silver manages excessive cytokine production and inflammation at point of foci**
- **Copper manages excessive cytokine production and inflammation systemically**



SOURCE: 9, 10

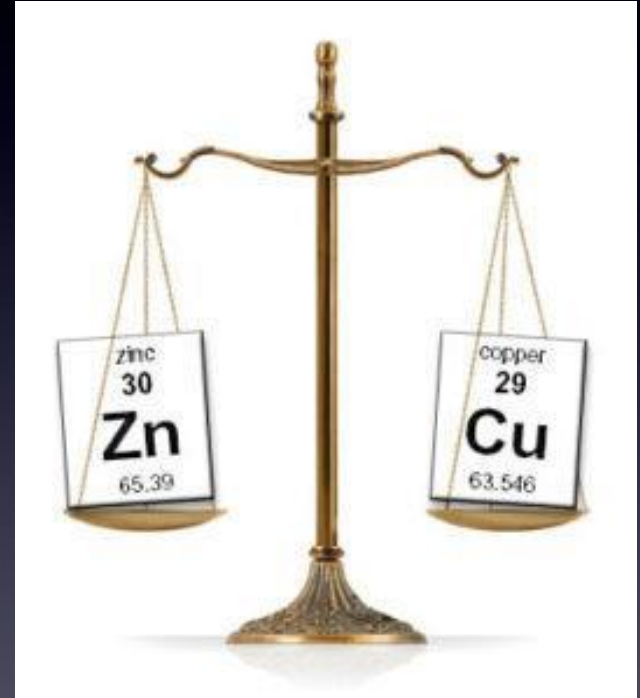
Copper Deficiency

Factors that lead to copper deficiencies include¹:

- High Zinc intake
- High Vitamin C intake
- Chronic diarrhea
- Crohn's disease
- Celiac disease
- Use of antacids
- Kidney disease
- High fructose corn syrup

Deficiency symptoms:

- Inflammation
- Fatigue
 - Muscle weakness
 - Brittle bones
 - Memory loss
- Anemia
 - Susceptibility to sickness
 - Pale skin/white hair
- Heart disease
 - Changes in vision



Dietary Copper is not enough.

A diet rich in copper includes:

- **Organ Meats**
- Oysters
- Shellfish
- Whole grains
- Leafy greens
- Shitake mushrooms
- Nuts
- Dark chocolate
- **Bee pollen**

EATING COPPER-RICH FOODS DOESN'T
TRANSLATE INTO GETTING
ENOUGH COPPER INTO
OUR BODIES

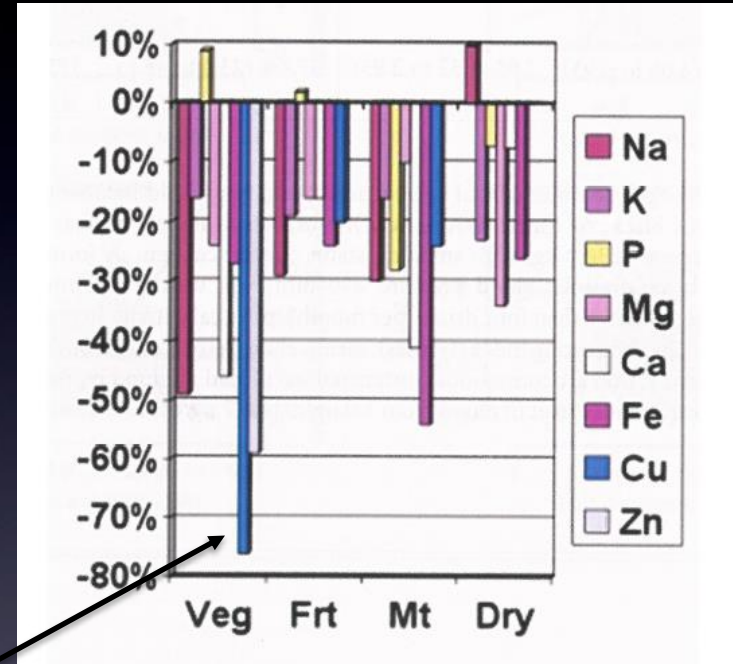
**Only 30% to 40% of the
amount of copper that we
consume in food is absorbed¹**

~80% loss Copper Soil Levels!

Many factors combine resulting in dramatically lower nutrient levels in the body:

- Changes in modern agriculture
 - Seeds chosen favoring size and ease of growth, sacrificing nutrient density
 - Fertilizers that increase size and growth rate, decreasing nutrient density
 - Pesticides & chemicals decrease mineral absorption in crops
- People are choosing less nutrient dense foods
- Transportation & storage result in nutrient loss

**LOOK AT THE DRAMATIC LOSS OF
COPPER IN VEGETABLES**



**Loss of Trace Minerals from the
Food Supply**

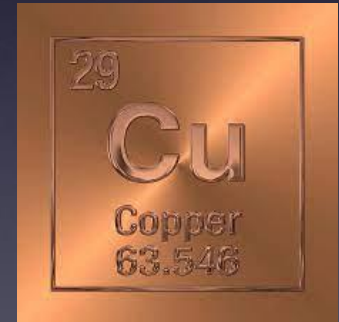
Copper critical to every enzyme reaction!

Copper is the 3rd most abundant essential trace mineral in the human body¹

“Without copper many biochemical processes either do not happen or happen at a reduced level, which results in a range of health impairments.”

- Dennis J. Thiele, Ph.D., Professor of Pharmacology and Cancer Biology, Duke University²

- Copper is **anti-parasitic**
- Cells use copper to facilitate antioxidant activity to destroy free radicals that contribute to inflammation, aging, and disease²
- Cells cannot absorb iron without copper²
- Blood requires copper to clot properly²
- Skin requires copper to form collagen and melanin²
- Embryos cannot grow and develop without copper²



1 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4940574/#B9>

2 - <https://medicalxpress.com/news/2006-09-scientists-key-copper-absorption-essential.html>

Copper Critical for Joint & Bone

- Supports iron absorption to build strong, **healthy red blood cells, optimizing oxygen utilization and transport** throughout the body
- **Inflammation control** by supporting osteoblasts to build bone
- **Regulates zinc activity** to maintain the strength and flexibility of connective tissue, resulting in stronger bone and cartilage structure
- **Works synergistically with vitamin C** to build collagen, elastin, fascia, and ligaments
- Helps to **control inflammation** to prevent scar tissue formation around joints



Connective Tissue:

Copper holds it all together

Plays an important role in the formation of collagen, the most prevalent protein found in the skin. Copper is critical for the **cross-linking of collagen and elastin**, making collagen strong and flexible.



COPPER IS REQUIRED FOR MAKING THE “MORTAR” THAT HOLDS THE COLLAGEN PROTEIN “BRICKS TOGETHER



- By **balancing zinc activity**, copper supports the construction of strong and flexible keratin, a key structural protein found in hair, skin and nails.
- Stimulates production of melanin, responsible for pigmentation of hair & skin as well as **protection from harmful UV rays and oxidative damage**, often the culprit of wrinkles and hair breakage.

Copper critical for Heart Health

- Supports the construction and cross-linking of **cardiac proteins** resulting in durability, flexibility, and softness
- Supports the **structural integrity** of the heart and blood vessels
- Copper controls **inflammation**, preventing vasculitis of the small blood vessels, especially of the legs
- **Copper works with selenium in the capillary beds to maintain capillary bed integrity**
- Supports electrical conductivity, facilitating neural transmission to **maintain heartbeat**, and production of neural transmitters
- Controls inflammation, **preventing the heart from swelling** (enlargement, hypertrophy, and cardiomyopathy)
- Copper deficiency results in cardiovascular disease and heart abnormalities and damage (cardiomyopathy)



Graham GG, Cordano A. (1969). "Copper depletion and deficiency in the malnourished infant". Johns Hopkins Med J 124:139–150.

Olivares M, Pizarro F, Speisky H, Lonnerdal B, Uauy R. (1998). Copper in infant nutrition: Safety of World Health Organization provisional guideline value for copper content of drinking water. J Pediatr Gastroenterol Nutr 26:251–257.

Copper critical for Energy & Metabolism

- Supports mitochondrial function (energy) & rate of bio-chemical reactions (metabolism) by:
- Works with **magnesium in the mitochondria to produce ATP**, the energy-producing molecule in the body
- Controls inflammation
- Conserves energy* by reducing swelling, congestion, stiffness, soreness, allowing for better flexibility of tissue
- Improves the efficiency of metabolism
- Facilitates phase I **liver detoxification**



**remember
cytokine storms?*

da Silva FJ, Williams RJ. (1991). "Copper: Extracytoplasmic oxidases and matrix formation". In: da Silva FJ, Williams RJ, eds. The Biological Chemistry of the Elements: The Inorganic Chemistry of Life. Oxford: Clarendon Press. Pp. 388–399.

Milne DB. (1994). "Assessment of copper nutritional status". Clin Chem 40:1479–1484.

Copper I & Copper II

Bio-Active Copper Hydrosol is a proprietary blend of positively-charged (bio-active) Copper I & II.

WHY IS THIS IMPORTANT?

There are parts of the body that preferentially utilize each of the forms of copper to support various vital functions. By providing both Sovereign Copper is more bio-available to the body eliminating the extra work that must be done to convert it from one state to the other.

COPPER I & II WORK IN THE BODY SYNERGISTICALLY FOR BEST ABSORPTION, CELLULAR UPTAKE AND METABOLISM

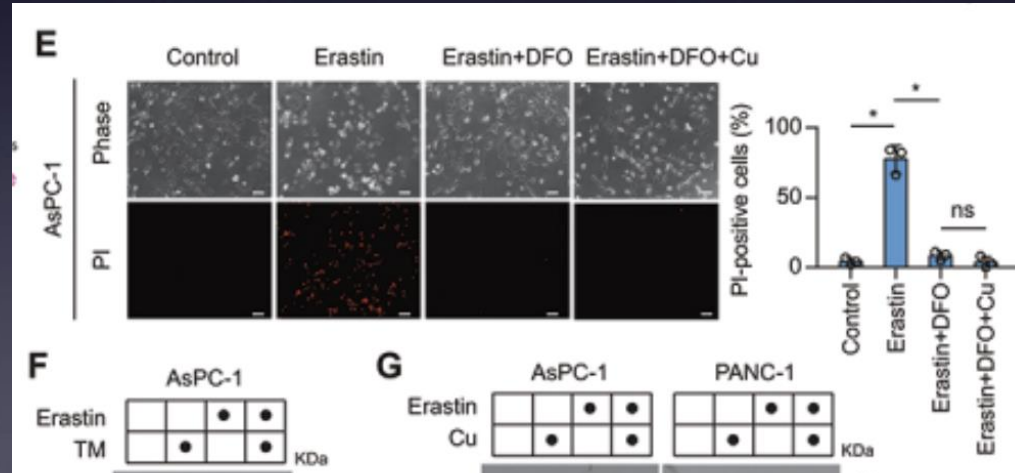


Copper II clarity

Copper II (Cu^{2+}) is wrongfully accused as a toxic form of copper for supplementation. IRON (Fe^{2+}) is the true culprit, especially in the absence of bioavailable and bioactive copper.

"...when free Fe^{2+} was removed by the specific Fe^{2+} chelator deferoxamine, the addition of Cu^{2+} to erastin failed to induce cell death (Figure 2E), suggesting that Cu^{2+} cannot replace Fe^{2+} to mediate Fenton reactions."

Xue Q, Yan D, Chen X, Li X, Kang R, Klionsky DJ, Kroemer G, Chen X, Tang D, Liu J. Copper-dependent autophagic degradation of GPX4 drives ferroptosis. *Autophagy*. 2023 Jul;19(7):1982-1996. doi: 10.1080/15548627.2023.2165323. Epub 2023 Jan 12. PMID: 36622894; PMCID: PMC10283421.



Bioactive Copper Hydrosol Dose 150mcg

Maintenance*

1 Tablespoon
1x Daily

Long-Term Support*

1 Tablespoon
2x Daily

Short-Term Support*

1 Tablespoon
3x Daily

Swish for 30 seconds
before swallowing



Copper

Recommended Daily Intake (RDI)

Adults: 900 mcg/day

Pregnant: 1,000 mcg/day

Breastfeeding: 1,300 mcg/day

Children *Ages 4+*: 440 mcg/day

1 Tablespoon = 150mcg Copper

*These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure or prevent any disease.

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out*:

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- Hair, Skin & Nails*
- Cardiovascular Health*
- Energy & Metabolism*



Relieves achy joints & bones



Promotes strong hair, skin & nails



Supports healthy cardiovascular function



Improves energy & metabolism



Slows the aging process



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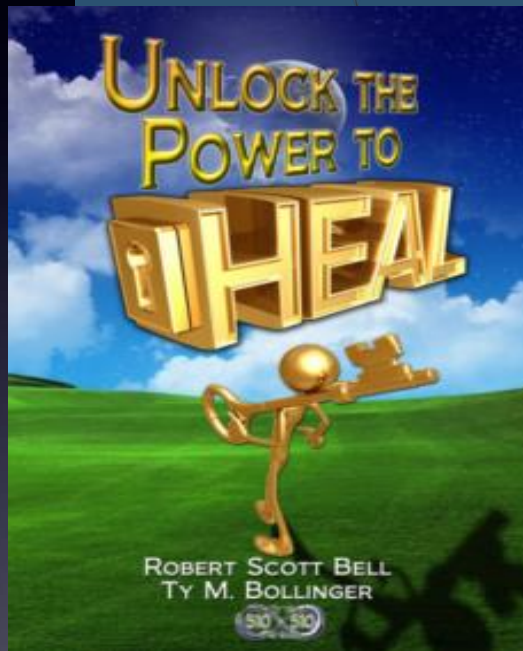


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