# Preventing The Replication Cycle of The Coronavirus With Nitric Oxide Therapy

David Weinstein, CEO LifeforceIQ



LifeforcelQ@gmail.com

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## Nitric Oxide Inhibits the Replication of Severe Acute Respiratory Syndrome Coronavirus

• Published in the Journal of Virology February 2005

- Showed Nitric Oxide to be effective in inhibiting the replication of the coronavirus
- On Friday, March 20, Bellerophan Therapeutics received emergency expanded Access to use its inhaled nitric oxide delivery system, INOpulse, to treat COVID-19.
- Nitric Oxide is made in the gut and blood vessels and declines with age. This may help explain why the average person dying of COVID-19 is 61 years old.
- Declining nitric oxide is associated with a number of other health concerns specially Cardiovascular disease.

This presentation will address a method for increasing nitric oxide.

# Cause #1: Decline in nitric oxide (NO) production



#### **Facts about NO**

- A signaling molecule that, as a gas, is produced in the gut from nitrates (green leafy veggies and beets) and the endothelium - a single layer of cells lining the inside of blood vessels that make NO from the amino acid L-Arginine.
- Regulates most cellular functions.
- Diminished NO production is associated with the onset of most chronic diseases as well as aging.

#### Trivia about NO

The Nobel Prize was awarded in 1998 to 3 scientists that discovered how nitric oxide functions

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The president of the AMA that year, Dr. Valentine Fuster, declared the discovery of NO was **one of the most important in the history of cardiovascular medicine** 



As nitric oxide production declines blood pressure increases, elasticity of blood vessels declines and plaque increases



Nitric Oxide Declines with age

# The Nitric Oxide Pathways



# **Causes of Nitric Oxide Decline**

Antibiotics, consuming meat and poultry (fed antibiotics)

Chlorine in tap water kills bacteria in mouth and gut

Antacids, PPI's such as Zantec, Prilosec, Prevised,

Sedentary lifestyle; without cardiovascular exertion blood vessels don't mechanically dilate Diet deficient in green leafy vegetables

Aging

Mouthwash (kills oral bacteria needed to convert nitrate to nitrite)

# How is Nitric oxide deficiency treated?



Nitroglycerin - Short acting, causes headaches



Viagra, Cialis, Levitra (originally designed as blood pressure medicine; side effect was erection)



Minoxidol (originally designed as blood pressure medicine; side effect was hair growth)



Diet – green leafy vegetables or beets chewed 30 times; juicing is not effective due to brief time of exposure to mouth bacteria



Oral and Gut Probiotics



BloodFX Supplement and Kaatsu therapy

### Plaque Builds Up with age



#### In Your 60's and Beyond

As you get older your arteries, due to a lack of nitric oxide, get more and more narrow and less oxygen and nutrient-rich blood gets to your cells and organs. This begins to accelerate the aging process. Our skin wrinkles, our hair grays and thins, arthritic pain (inflammation) settles into our joints, our blood pressure rises, arteries harden, thicken and clog, we become insulin resistant, overweight and prediabetic, our mental acuity and memory become diminished, impotence settles in, energy and vitality are sapped and we lose the zest for life we had when we were younger. Basically we, like grass without water, begin to wither and die as less and less blood flows to our cells and organs.

The good news is this process can be reversed and youthful health regenerated. Dying grass comes back to life with water. With the increased and long lasting nitric oxide production and nurition provided by Cardio Miracle you too can renew your life.

# Problem 3: Causes of lost elasticity and calcium deposits hardening of the arteries (arteriosclerosis)



# Causes of plaque accumulation atherosclerosis



## Building your fountain of youth



# The downside of Nitric oxide and dysfunction associated with aging

Decline in nitric oxide, increase in blood pressure

Accumulation of toxins, increase in inflammation

Decline in hormones and HGH, loss of muscle mass and bone density

Insufficient delivery oxygen and nutrients to the cells

# Python Protocol: The upside of Optimizing athletic performance

Two biological systems for elite athletic performance



#### KAATSU

Maximizes NO production and oxygen utilization (VO2 Max) (...)

#### **BloodFX**

Maximizes NO production from the gut and keeps the blood vessels optimal



#### **KAATSU**

Increases Muscle strength and endurance by optimizing growth hormone, muscle growth, and tissue repair

# Meet the solution: The Python Protocol

#### Kaatsu + BloodFX



#### Kaatsu

Japanese compression therapy and training.

Increases nitric oxide, vascular strength and elasticity, Growth Hormone

# – Organio – Mango

#### BloodFX

- Redirecting Calcium from the arteries to the bones
  - Vitamin K2 7 + Vitamin D3
- Reduction in dangerous oxidized LDL
  - Pomegranate extract
- Dual Activation of Nitric Oxide Production In Both Pathways
  - Organic Fermented Beet Root Powder
  - Mango Fruit Powder

# BloodFX's twin engines of Nitric oxide



Organic mango powder "Careflow" (INDIA)

- Made from a special type of Mango, Mangifera indica
- 100% pure mango fruit powder that is low is sugar.
- In vitro and human studies demonstrated that Careflow **activates key metabolic enzymes**:
  - SIRT1 protein, which extends life span and delays aging; and
  - Endothelial nitric oxide synthase (eNOS), which supports circulation and endothelial function.



#### Organic fermented beet root powder (Asia)

- Fermented beets are made more bioavailable through fermentation — plus it produces the beneficial bacteria and enzymes.
- Supports healthy blood pressure as it contains nitrates that are vasodilators.
- Improves endothelial dysfunction and the other ED, erectile dysfunction. This leads to healthier blood vessel flow. Healthier blood vessel flow improves erections. Improves athletic performance by boosting your stamina and muscle blood flow and recovery.

# Vitamin D and K 2-7 play critical roles in the human body...



They inhibit vascular calcification in the soft tissue of the circulatory system

They are both fat-soluble vitamins and play a central role in calcium metabolism:

- Vitamin D promotes the production of vitamin K-dependent proteins, which require vitamin K to function properly.
- Without K2 vitamin D can promote kidney stones, hardening of the arteries and misdirected calcium.

# The elite antioxidant and antiviral: Pomegranate

**Pomegranate** showed **antiviral** action against many viruses: influenza, human immuonodeficiency virus (HIV), herpes simplex virus (HSV), and adenoviruses in multiple studies. Oxidized low-density lipoprotein (LDL) is a harmful type of cholesterol produced in your body when normal LDL cholesterol is damaged by free radicals. This causes inflammation leading to hardening of the arteries. The resulting decrease in blood flow increases your chances of a heart attack.



Pomegranate

- Protects the cardiovascular system:
  - Prevents damage to arterial walls
  - Promotes healthy blood pressure levels
  - Improves blood flow to the heart, and
  - Prevents or reverses atherosclerosis.
- Is a significantly more potent antioxidant than red wine, green tea, and other fruits.
- At Python Protocol, we use 300 MCG of the highest quality Pomegranate extract which is the minimum effective dose – and because it is expensive most other supplements use far less.

# Kaatsu Science and Studies

Research studies have concluded that Kaatsu training;

Increases muscle mass without corresponding pressure on joints

Increases Nitric Oxide and vascular elasticity (university of Tokyo Hospital)

Increases the body's ability to use oxygen (V02 Max)

Increased blood flow to the peripheral tissue

**Biomarkers measured that increased:** 

- Vascular Endothelial Growth Factor (VEGF) – growth new blood vessels
- Endothelial Progenitor Cells (IPC) circulate and repair blood vessels
- Insulin Like Growth Factor (IGF-1) builds muscle mass, preventing muscle wasting, building bone density, managing blood sugar levels
- Growth Hormone (GH) It also helps to regulate body composition, muscle and bone growth, sugar and fat metabolism, and possibly heart function



# THANK YOU.

