# Cardiovascular System

THE REAL CULPRIT

Rajko Bisevac ND, ABAAHP, FAARFM tel: 630-846-1400

1

### MEDICAL DISCLAIMER

The information in this webinar is provided for educational and informational purposes only and does not constitute providing medical advice or professional services. The information provided should not be used for diagnosing or treating a health problem or disease, and those seeking personal medical advice should consult with a licensed physician. Always seek the advice of your doctor or other qualified health provider regarding a medical condition. Never disregard professional medical advice or delay in seeking it because of something you have read or heard through this webinar or anything provided by the speaker or business and entities involved in organizing it. If you think you may have a medical emergency, call 911 or go to the nearest emergency room immediately. No physician-patient relationship is created by the information provided here.

# **CAUSATION**

3

## **CAUSATION**

- Were you ever mesmerized by crime movies or novels?
- Who Done It?
- 25 best WhoDunIt movies! "Clue," "Blow Out"
- Alfred Hitchcock movies
- Escape Rooms
- We all want to know, who is the killer?
- ▶ REAL LIFE, #1 killer is cardiovascular disease!
- Would it be pertinent to know WHO DONE IT?

Δ

### **CAUSATION**

- What is the first number patient ask about in a test? "What is my cholesterol"
- GENERAL NARATIVE for decades is that high cholesterol, especially LDL is causative factor for CVD
- Most recent popular voices, Dr. Peter Attia: "There is no ambiguity; LDL and ApoB are CAUSALLY related to atherosclerosis"

5

### Whodunit, REAL LIFE STORY

- Journalist Lee Strobel is given a story lead about a police officer who was shot by a "gang banger." The officer (Judd Lormand) tells Lee he wants to see the assailant put away for good.
- He begins investigating and discovers that the assailant, James Dixon, has a long list of arrests, including a violent crime.
- There is a gun found in the bushes near where the shooting took place. A bullet was fired from the gun, and the gun belonged to Dixon.
- Lee writes the story. Dixon pleads guilty and is sent to prison.
- In prison, Dixon is brutally beaten by gang members because Lee wrote that Dixon was a gang informant. The guards in the prison look away because Dixon shot a police officer.

## Whodunit, REAL LIFE STORY

- In a stunning REVERSAL of events Lee discovers something. The pen that the officer carried was a pen gun, which held a spent casing that was the <u>same caliber of bullet</u> Dixon was accused of using on the officer.
- Having a pen gun was illegal for anyone to carry, especially the officer.
- At the hospital, Lee confesses his wrong to Dixon an innocent man who was convicted, sent to prison and beaten unmercifully.

7

### **CAUSATION?**



### SCIENCE - DOGMA OR SKEPTICISM?

#### NASA CSI OFFICIAL PAGE

### Why Must Scientists Be Skeptics?

- Skepticism is the act of suspending judgment (the opposite of jumping to conclusions) when evaluating an explanation or claims. It allows scientists to consider all possibilities and systematically question all information in the course of an investigation.
- Why is maintaining a skeptical outlook so important? Skepticism helps scientists to remain objective when performing scientific inquiry and research. It forces them to examine claims (their own and those of others) to be certain that there is sufficient evidence to back them up. Skeptics do not doubt every claim, only those backed by insufficient evidence or by data that have been improperly collected, are not relevant or cannot support the rationale being made.

9

# Cholesterol/Dyslipidemia

- The over focus on cholesterol as the **sole** cause of heart disease is one of the greatest scams in history.
- BMJ 19 COHORT STUDIES 68,000 show high LDL = longevity

#### Cholesterol is essential for:

- · Cell membrane integrity.
- Substrate for all adrenal/gonadal hormones
- To utilize Vitamin D
- To make Bile salts fat/mineral absorption
- To Make myelin sheath, memory, neurotransmitters
- · Innate Immune system..

# Cholesterol/Dyslipidemia

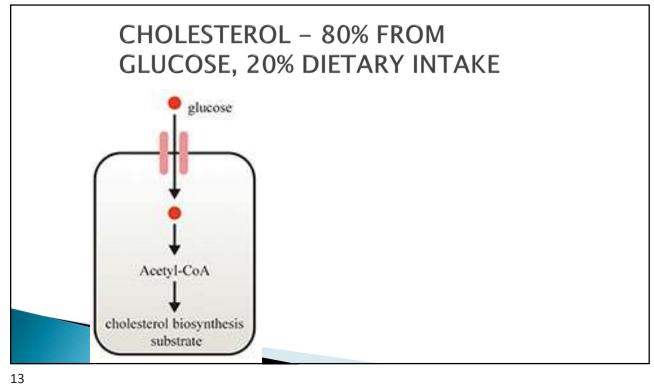
- Statin drugs are marketed to the public and given like candy;
- □ There has been a debate whether they should be added to drinking water.
- □ The number of individuals in the general population who reported taking any statin climbed from 31 million (12%) in 2008–2009 to 92 million (35%) in 2018–2019, representing a 197% increase

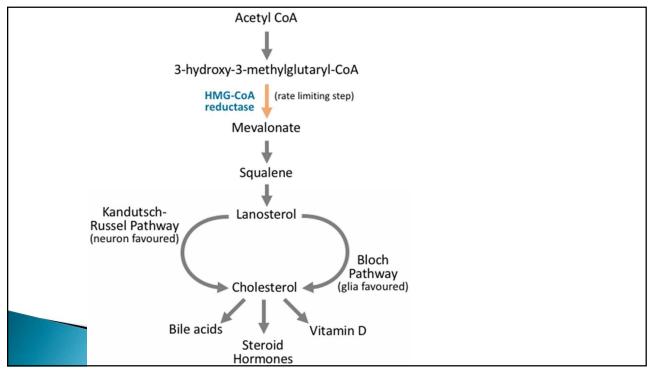
11

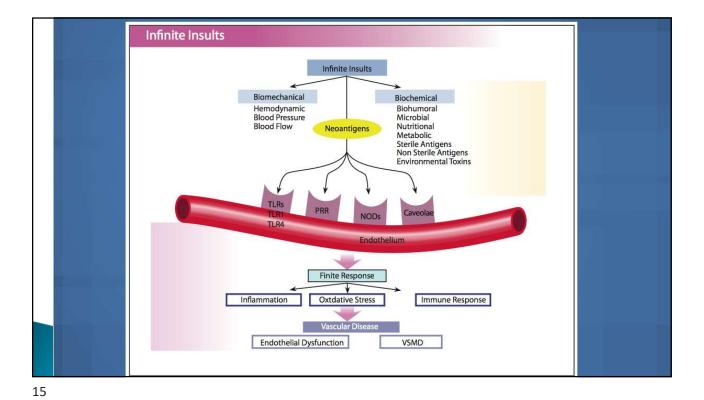
# Cholesterol/Dyslipidemia

### Statin drugs can cause:

- Muscle weakness,
- Sexual dysfunction,
- Reduced thyroid function by inhibiting the conversion of T4 to T3,
- Memory reduction,
- Reduced immunity



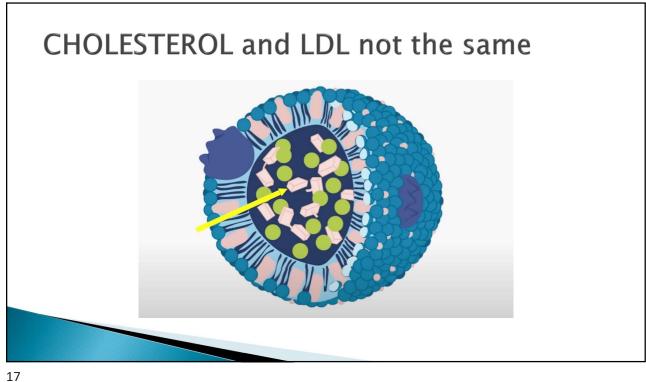


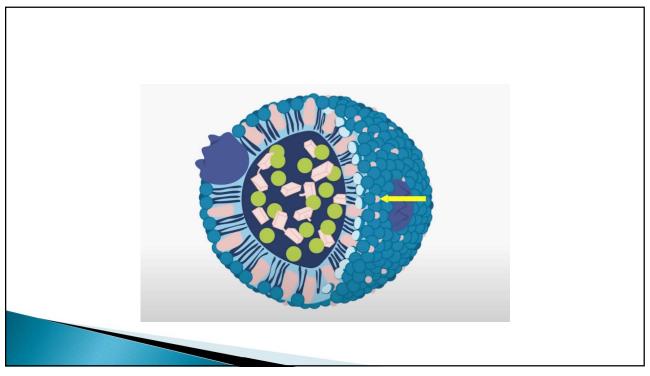


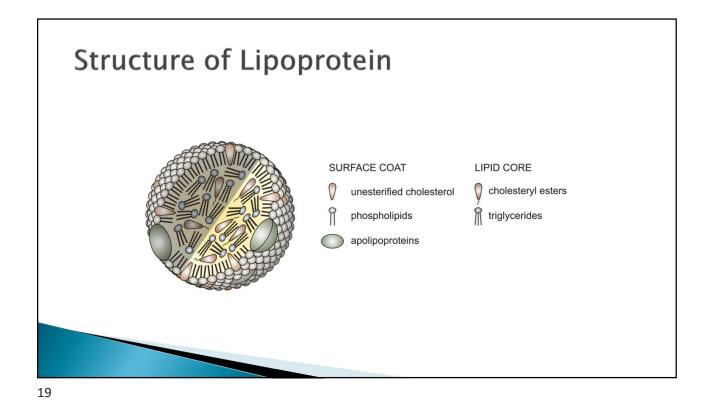
**2 MAIN FACTORS** 

STRUCTURAL DAMAGE

NITRIC OXIDE





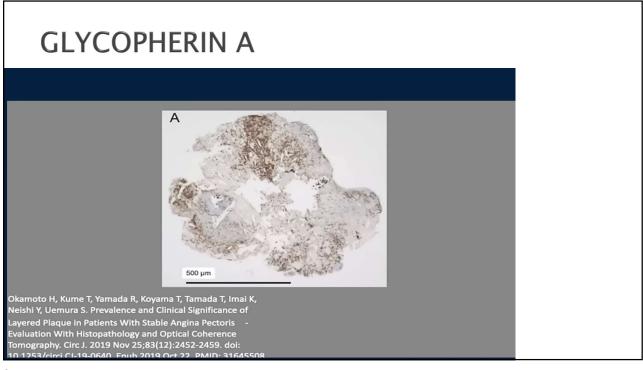


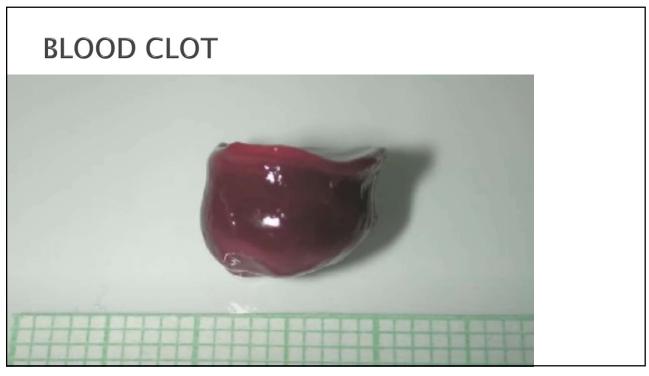
Apolipoprotein is the protein component of the lipoprotein molecule.

Triglycerides

Embedded apolipoproteins

Phospholipid







CAMPESTEROL VIRTUALLY INDENTICAL TO CHOLESTEROL

Campesterol

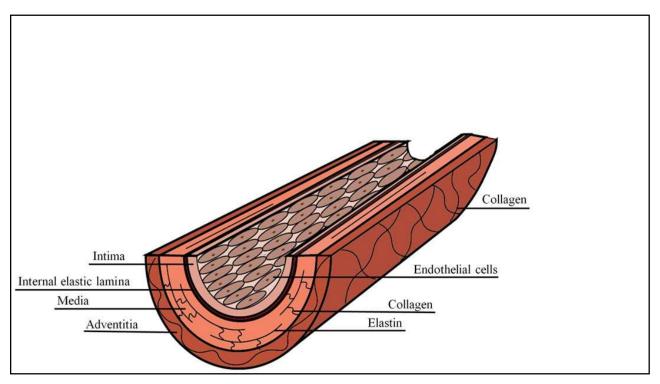
Cholesterol

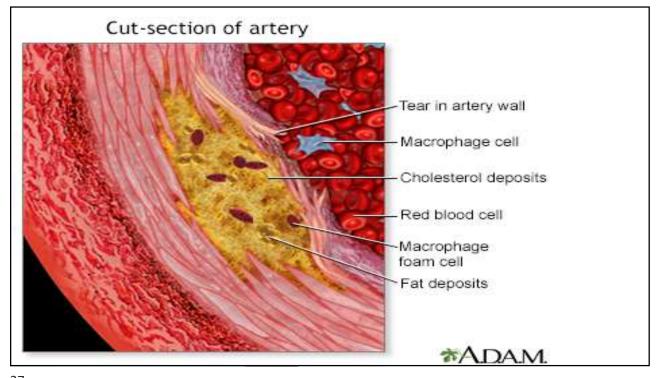
Olkkonen, V. M., Gylling, H., & Ikonen, E. (2017). Plant sterols, cholesterol precursors and oxysterols: Minute concentrations—Major physiological effects. The Journal of Steroid Biochemistry and Molecular Biology, 169, 4–9.

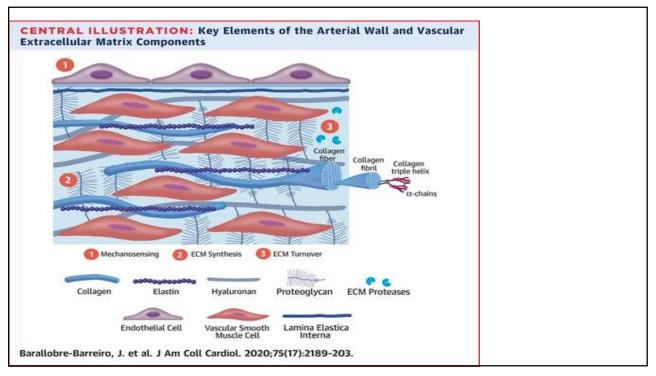
# VITAMIN C – ESSENTIAL FOR COLLAGEN IS IT A VITAMIN?

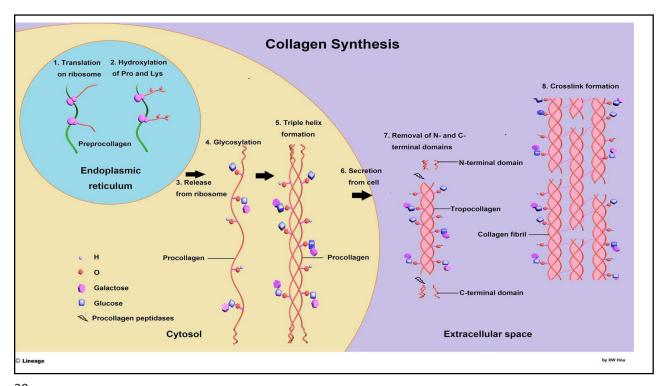
- MISSING ENDOGENOUS FACTOR
- Why did humans stop producing vitamin C?
- In all cases so far studied, the inability to synthesize vitamin C is due to mutations in the **L-gulono-γ-lactone oxidase (GLO) gene** which codes for the enzyme responsible for catalyzing the last step of vitamin C biosynthesis.
- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3145266/#: ~:text=In%20all%20cases%20so%20far,step%20of%20vitamin% 20C%20biosynthesis.

25











# COLLAGEN - YOUNG vs OLD/DAMAGED



31

### **STUDIES**

- Normal large arteries also contain collagen, elastin, fibronectin, and small amounts of osteopontin, thrombospondin, and tenascin.
- ▶ 6-year follow-up indicated that Vitamin C supplementation reduced the slope of the mean carotid artery intima-media thickness progression.
- Most studies, no amounts or small 500mg
- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7761826/ 2020
- Vitamin C evidence suggests it may help protect arteries against damage. Some studies suggest that vitamin C can slow down the progression of atherosclerosis (hardening of the arteries). https://www.mountsinai.org/health-library/supplement/vitamin-c-ascorbic-acid#:~:text=Vitamin%20C%20doesn't%20lower,(hardening%20of%20the%20arteries).
- Vitamin C inhibits the calcification process in human vascular smooth muscle cells. Am. J Cardiovascular Dis 2020
- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7364280/

# PIONEERS IN VITAMIN C RESEARCH

- Dr. Linus Pauling
- Dr. Matthias Rath 'Why Animals Don't get Heart Attack"

33

## Pauling's Therapy - Reversal of Heart Disease

- Vitamin C: Take as much as you can take without experiencing diarrhea. This is called "bowel tolerance".
- L-Proline: 3 grams twice per day
- L-Lysine: 3 grams twice each day (acts to release lipoprotein(a) from plaque formation and prevent further deposition of same).
- ➤ Co-enzyme Q10: 90-180 mg. twice per day (strengthens the heart muscle).
- L-Carnitine: 3 grams twice per day (also strengthens the heart muscle).
- Niacin: Decreases production of lipoprotein(a) in the liver.
- ▶ Vitamin E: 800-2400 IU per day. Magnesium: 400-1,000 mg daily.
- Hydrolyzed collagen: research has shown that the daily intake of 10,000 mg supports the production of collagen in the repair of the lining of arteries.

### 2. NITRIC OXIDE

- Nitric oxide functions:
- Inhibits activation, adhesion aggregation of platelets
- Decreased leukocyte adhesivity
- Causes vasorelaxation in smooth muscle cells
- Enhances oxygen delivery

35

### **NITRIC OXIDE**

- NO gas, signaling molecule,
- NO diminishes with age, making blood vessels BRITTLE... Erosion of arterial structure
- > The first sign and symptom is usually erectile dysfunction
- VASODILATION
- > Smooth muscle relaxation, controls blood flow, circulation to every organ and cell.
- Diabetes, hypertension
- Cognitive Decline, Alzheimer's

### **NITRIC OXIDE SOLUTION?**

### **MOUTH**

- HUMMING
- Flouride
- MOUTHWASH
- Oral microbiome
- ADULT ENT Pro
- ▶ CHILDREN's ENT-Pro

37

### **NITRIC OXIDE SOLUTION?**

- NITRITES AND NITRATES IN FOOD
- Used as additives to improve food quality and protect against microbial contamination and chemical changes.
- Extracts from cruciferous vegetables is an interesting strategy to overcome this challenge due to their high nitrate content.
- https://www.sciencedirect.com/science/article/abs/pii/S2214 799320301119

### **NITRIC OXIDE SOLUTION?**

- NO half life only 1.8 ms
- SULPHURIC COMPONENTS can extend it by hours
- CoQ Zyme 100 Plus
- NAC
- Taurine
- NitroGreens
- MSM

39

### **MSM**

- Expression of inducible NOS (iNOS) occurs in conditions of inflammation, and produces large amounts of NO. In pathological conditions iNOS is regarded as a harmful enzyme and is proposed to be a major contributor to diseases of the cardiovascular system such as atherosclerosis.
- MSM can also diminish the expression of inducible nitric oxide synthase (iNOS) and cyclooxygenase-2 (COX-2) through suppression of NF-κB; thus lessening the production of vasodilating agents such as nitric oxide (NO) and prostanoids [86]. NO not only modulates vascular tone [92] but also regulates mast cell activation [93]; therefore, MSM may indirectly have an inhibitory role on mast cell mediation of inflammation. With the reduction in cytokines and vasodilating agents, flux and recruitment of immune cells to sites of local inflammation are inhibited.
- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5372953/

### **GRAND SUPPORTING NUTRIENTS**

- BIO C PLUS 3 tid with food
- CoQ Zyme 100 Plus 1-2 daily with food
- ▶ Bio Cyanidins 2 bid any time
- NitroGreens 1-2 scoops a day
- ▶ ADULT ENT PRO 1-2 daily
- GlucoResolve 1 tid with food
- NAC 1 bid empty stomach
- ▶ Taurine 1-2 before bedtime
- HYDROLYZED COLLAGEN PROTEIN 2 scoops daily
- Kapparest 2 bid anytime

41

### **CASE STUDIES**

- MY MOM
- > FRIEND, COLLABORATION WITH Dr. Mark Houston