Preventing and Reversing Disease With Plant-Based Nutrition





Ann Arbor Plant-Based Challenge

Robert Breakey, MD, DipABLM Ann Arbor, MI September 14, 2022



COPD and Lung Cancer are Largely Preventable

SMOKING and HEALTH

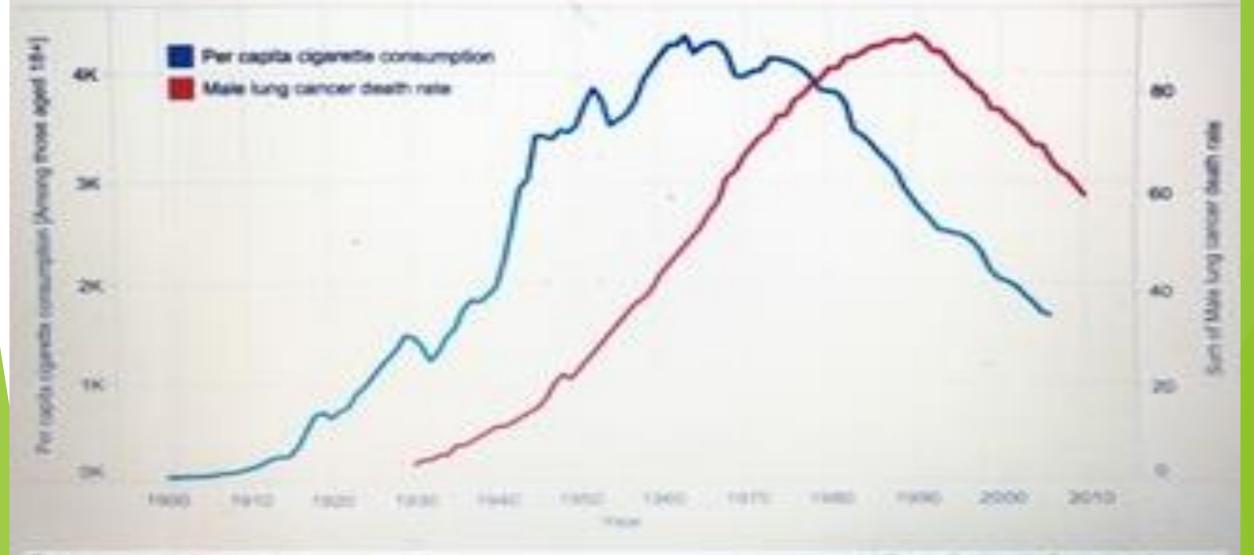
REPORT OF THE ADVISORY COMMITTEE
TO THE SURGEON GENERAL
OF THE PUBLIC HEALTH SERVICE



Dr. Luther Terry



Trends in Tobacco Use and Lung Cancer Death Rates in the U.S.



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Coronary Artery Disease is Reversable

MEDICAL SCIENCE

Can lifestyle changes reverse coronary heart disease?

The Lifestyle Heart Trial

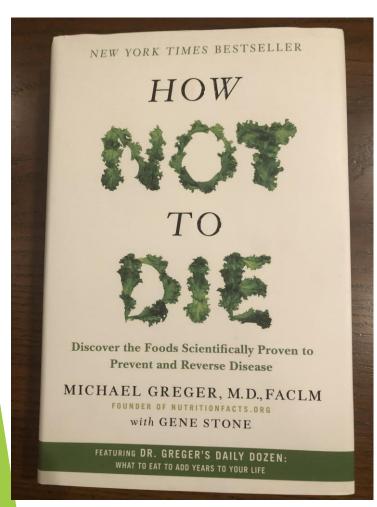
DEAN ORNISH SHIRLEY E. BROWN LARRY W. SCHERWITZ
JAMES H. BILLINGS WILLIAM T. ARMSTRONG THOMAS A. PORTS
SANDRA M. McLanahan Richard L. Kirkeeide
Richard J. Brand K. Lance Gould

In a prospective, randomised, controlled trial to determine whether comprehensive lifestyle changes affect coronary atherosclerosis after 1 year, 28 patients were assigned to an experimental group (low-fat vegetarian diet, stopping smoking,

We carried out trials in 1977 and 1980 to assess the short-term effects of lifestyle changes on coronary heart disease with non-invasive endpoint measures (improvements in cardiac risk factors, functional status, myocardial perfusion,² and left ventricular function³).

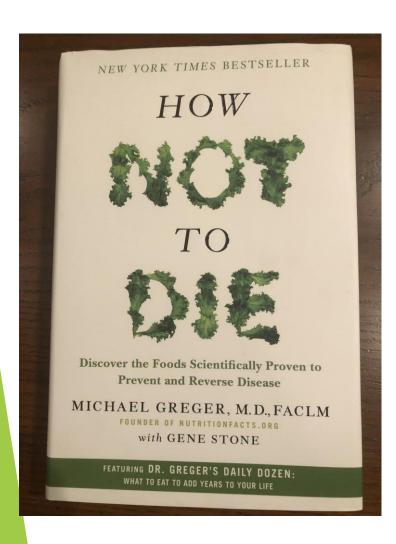


All 15 of our Leading Killers Are Preventable





All 15 of our Leading Killers Are Preventable



- Coronary Artery Disease
- Alzheimer's
- Colon Cancer
- Diabetes
- Hypertension
- Leukemia / Lymphoma
- Chronic Kidney Disease
- Breast Cancer
- Depression
- Prostate Cancer
- Parkinson's

Shameful Stats...

US Health Care

We Spend \$3.2 Trillion
On "Health Care"...
With at best mediocre
Results...



Shameful Stats...

US Health Care

2017 Report from the Commonwealth Fund: US Ranked 11 of 11 Developed Countries...



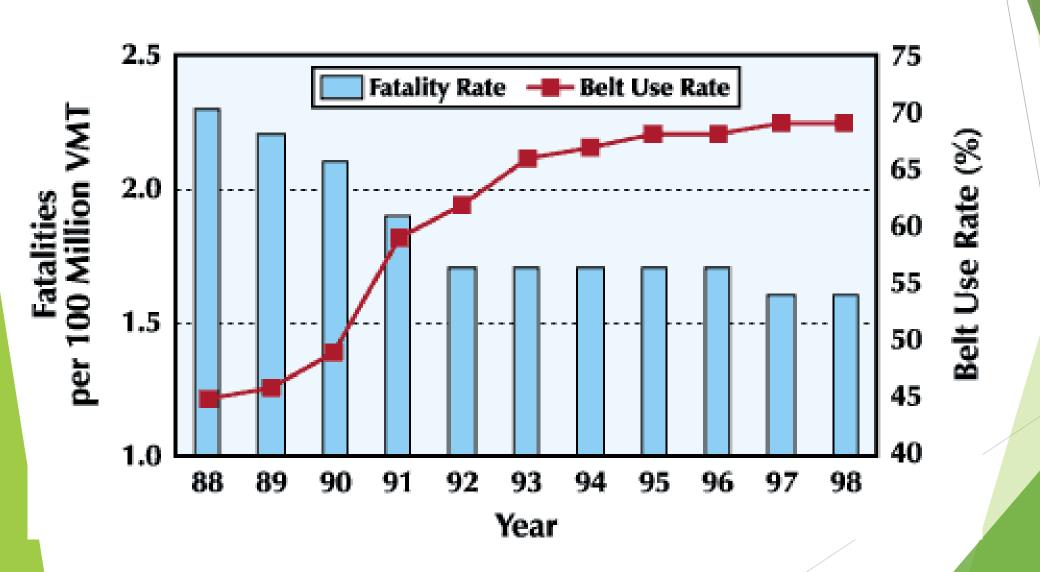
Shameful Stats...

US Health Care

80% is spent on Chronic Diseases that are largely Preventable, and often reversible



Prevention Saves Lives: Seat Belts



A Fundamental Paradigm Shift is Sweeping across the Nation...

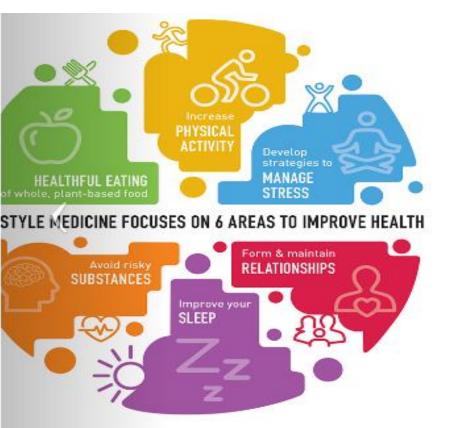


Six Pillars of Lifestyle Medicine

- 1)Healthful Eating
- 2) Physical Activity
- 3) Manage Stress
- 4)Sleep Well
- 5) Avoid Risky Substances Addictions
- 6)Social Connectedness

ACLM vision statement:

A world wherein Lifestyle Medicine is the foundation of a transformed, sustainable system of health care.





Coronary Artery Disease is Reversable

MEDICAL SCIENCE

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The Lifestyle Heart Trial

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The Ornish Program



CAD Patients on the program noted a 91% decrease in their frequency of angina attacks in just a few weeks vs. a 186% *increase* in attacks for the control group.

> J Fam Pract. 2014 Jul;63(7):356-364b.

A way to reverse CAD?

Caldwell B Esselstyn Jr 1, Gina Gendy, Jonathan Doyle, Mladen Golubic, Michael F Roizen

Affiliations + expand

PMID: 25198208

Abstract

Purpose: Plant-based nutrition achieved coronary artery disease (CAD) arrest and reversal in a small study. However, there was skepticism that this approach could succeed in a larger group of patients. The purpose of our follow-up study was to define the degree of adherence and outcomes of 198 consecutive patient volunteers who received counseling to convert from a usual diet to plant-based nutrition.



The Revolutionary, Scientifically-Proven, Nutrition-Based Cure

With More Than I 50 Great-Tasting Recipes

Prevent and Reverse Heart Disease

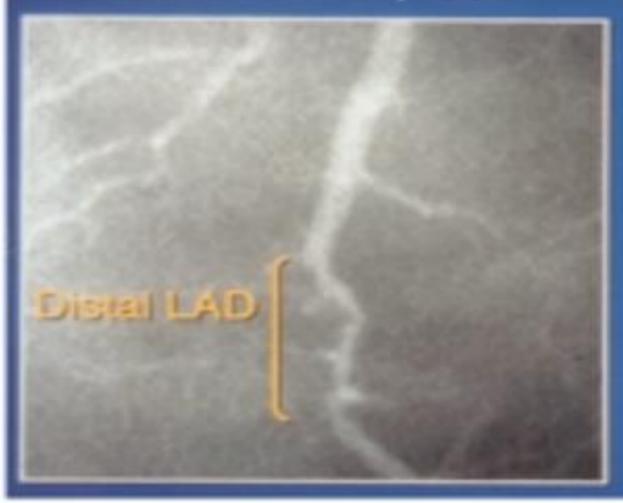
Based on the findings of a now 20-year study first published in the American Journal of Cardiology

Caldwell B. Esselstyn, Jr., M.D.

Reversal of Coronary Disease

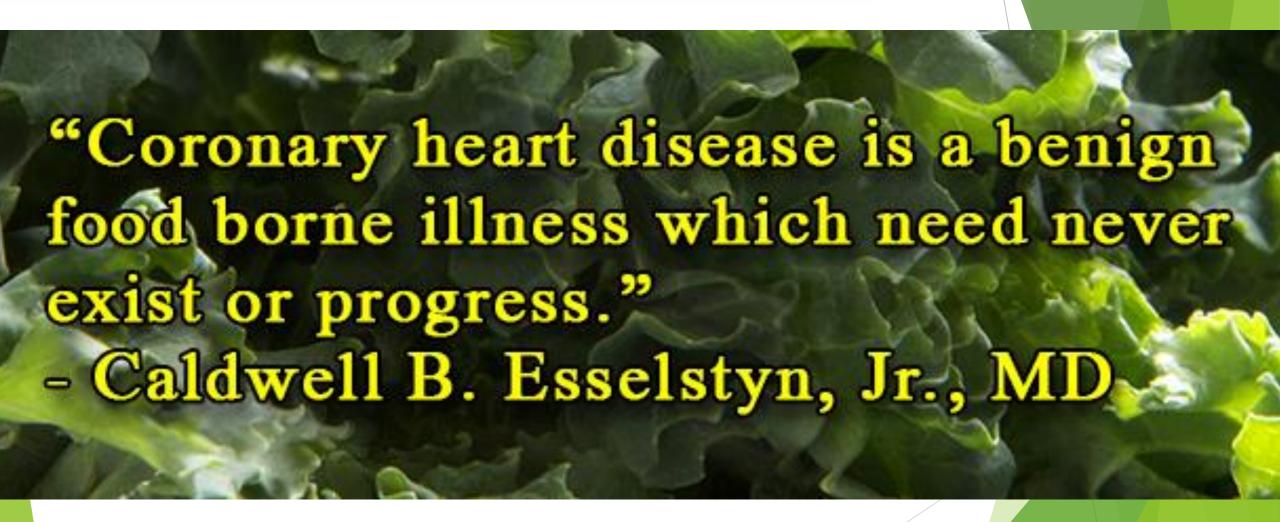
November 27, 1996

July 22, 1999





Reversing Heart Disease...



Leading cause of death and disability in the US:

The Standard American Diet

<u>1993:</u>

- 1. Tobacco
- 2. Diet and Activity
- 3. Alcohol

JAMA. **1993**;270:2207-12

<u>2018:</u>

- 1. Dietary Risk
- 2. Tobacco
- 3. Chronic Diseases

JAMA. **2018**;319(14):1444-1472



What makes a food "Health Supporting"?

Desirable Characteristics:	Plant Foods	Animal Foods
Anti Oxidant Rich		
High Fiber		
Alkaline		
Cholesterol Free		
Anti Inflammatory		
Phytonutrient Rich		
Balanced /Healthy Macronutrients		



RESEARCH Open Access

The total antioxidant content of more than 3100 foods, beverages, spices, herbs and supplements used worldwide

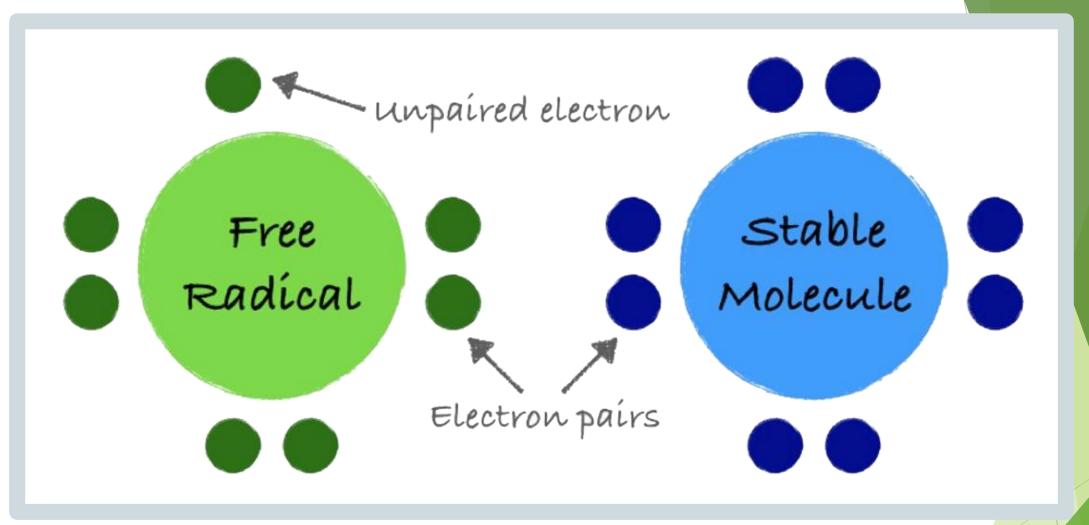
Monica H Carlsen^{1†}, Bente L Halvorsen^{1†}, Kari Holte¹, Siv K Bøhn¹, Steinar Dragland², Laura Sampson³, Carol Willey³, Haruki Senoo⁴, Yuko Umezono⁴, Chiho Sanada⁴, Ingrid Barikmo⁵, Nega Berhe¹, Walter C Willett³, Katherine M Phillips⁶, David R Jacobs Jr^{1,7}, Rune Blomhoff^{1*}

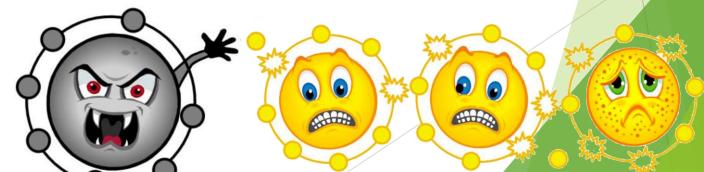
Abstract

Background: A plant-based diet protects against chronic oxidative stress-related diseases. Dietary plants contain variable chemical families and amounts of antioxidants. It has been hypothesized that plant antioxidants may

Antioxidant content

	n	mean	median	min	max
Plant based foods	1,943	1,157	88	0	289,711
Animal based foods	211	18	10	0	100





Free Radicals are highly reactive

DNA Damage



Mutations



Cancer

Proteins Denatured



Immune Response



Inflammation

Endothelial Damage



Atheroma



CAD/Stroke

Cellular Damage



Rapid Cell Aging



Organ Dysfunction

Desirable Characteristics:	Plant Foods	Animal Foods
Anti Oxidant Rich	****	X
High Fiber		
Alkaline		
Cholesterol Free		
Anti Inflammatory		
Phytonutrient Rich		
Balanced /Healthy Macronutrients		

Your Microbiome: Eating for 38,000,000,000,001?

Feed them Well and they Will:

- **Support Immune function**
- Support Hormone Balance
- Manage Toxins
- Nourish Your Colon
- **Lower Inflammation**
- Produce Nutrients
- Signal Satiety
- Aid Nutrient Absorption

Starve them and they Will:

- Inflame Colon
- Produce Toxins
- Increase Estrogens
- Increase Serum Cholesterol
- Induce Inflammation
- Create "Leaky Gut"
- Increase Autoimmune Disease Risk

And what do they eat?



How much fiber do we need?

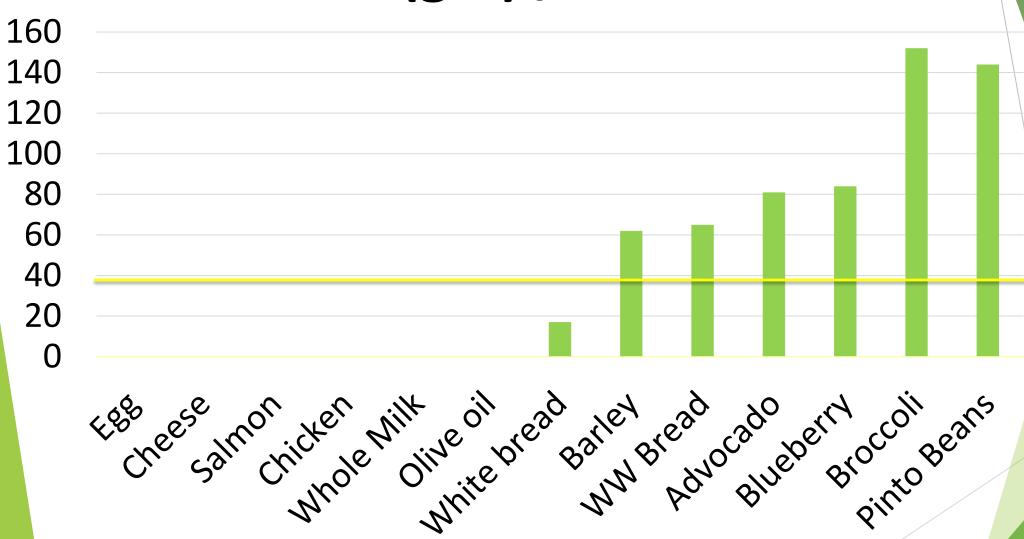
Average American intake = 15 gm

Dietary Guidelines = 30 gm

Minimum Goal = 60 gm

Optimal = 100+ gm/ day

Fiber (gm) / 2000 calories



Fiber (gm) / 2000 calories

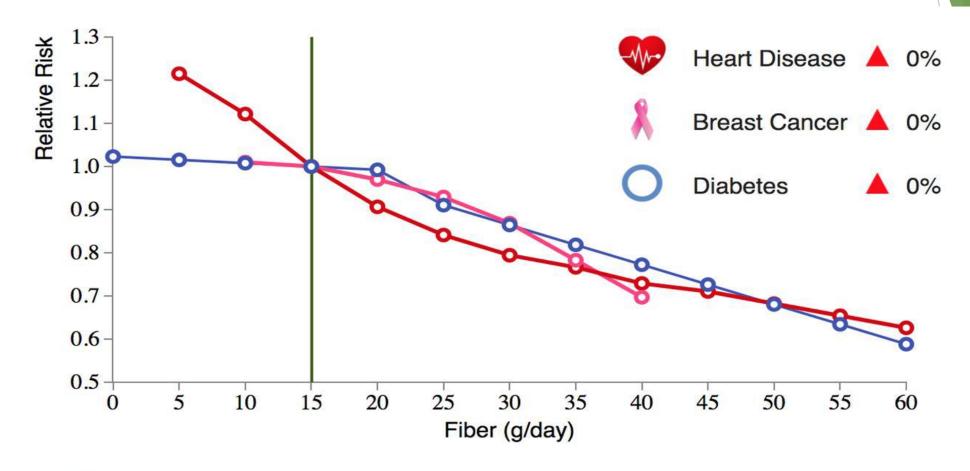
Fiber (gm) / 2000 calories

- \triangleright Egg = 0
- Cheese = 0
- ► Olive Oil = 0
- Chicken = 0
- White Bread = 17
- ► Walnut = 20
- ► Minimum Goal = >30
- Barley = 62
- ► Blueberry = 84
- Pinto Beans = 144
- ► Broccoli = 152
- Kale = 227

Starvation

Nourishment

Dietary Fiber and Risk of Disease



References

- ... (2013) Dietary fibre intake and risk of cardiovascular disease: systematic review and meta-analysis
- ... (2014) Dietary fiber intake and risk of type 2 diabetes: a dose-response analysis of prospective stu...
- ... (2012) Dietary fiber and breast cancer risk: a systematic review and meta-analysis of prospective s...

Desirable Characteristics:	Plant Foods	Animal Foods
Anti Oxidant Rich	****	X
High Fiber	****	X
Alkaline		
Cholesterol Free		
Anti Inflammatory		
Phytonutrient Rich		
Balanced /Healthy Macronutrients		

Michael Greger: www.nutritionfacts.org

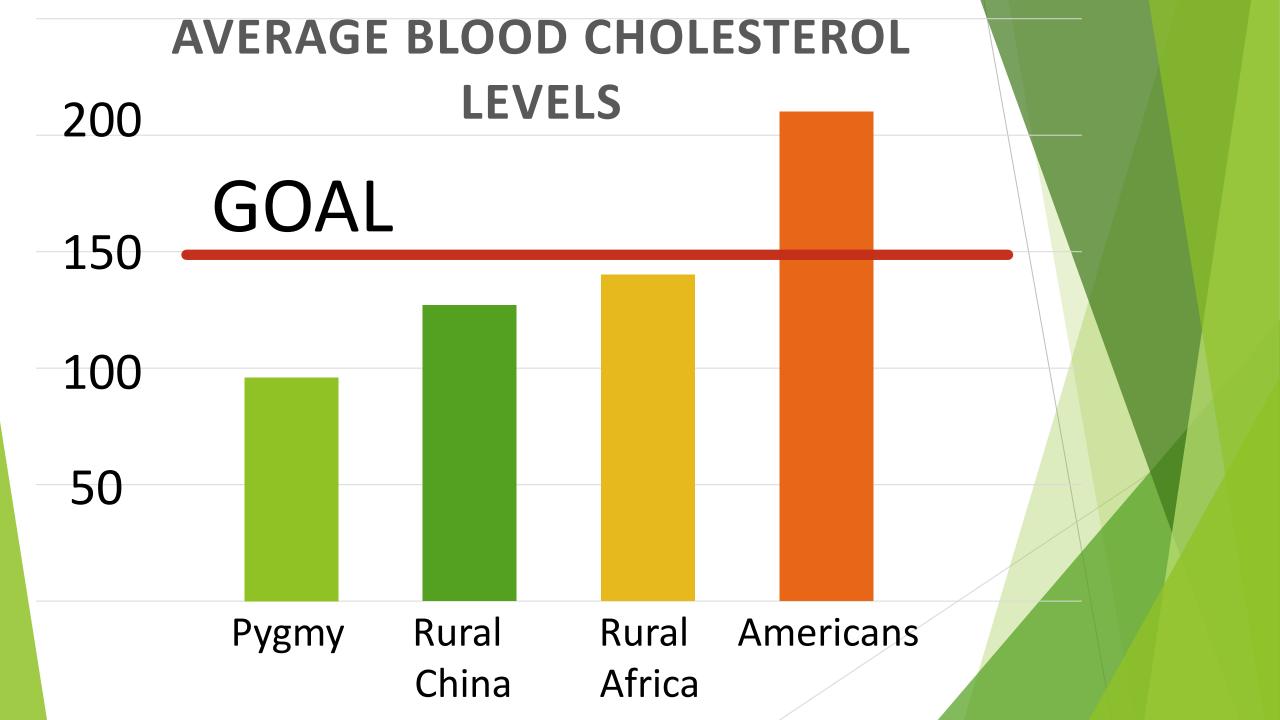
Desirable Characteristics:	Plant Foods	Animal Foods
Anti Oxidant Rich	****	X
High Fiber	****	
Alkaline	****	X
Cholesterol Free		
Anti Inflammatory		
Phytonutrient Rich		
Balanced /Healthy Macronutrients		

Where Do You Find Cholesterol in Food?

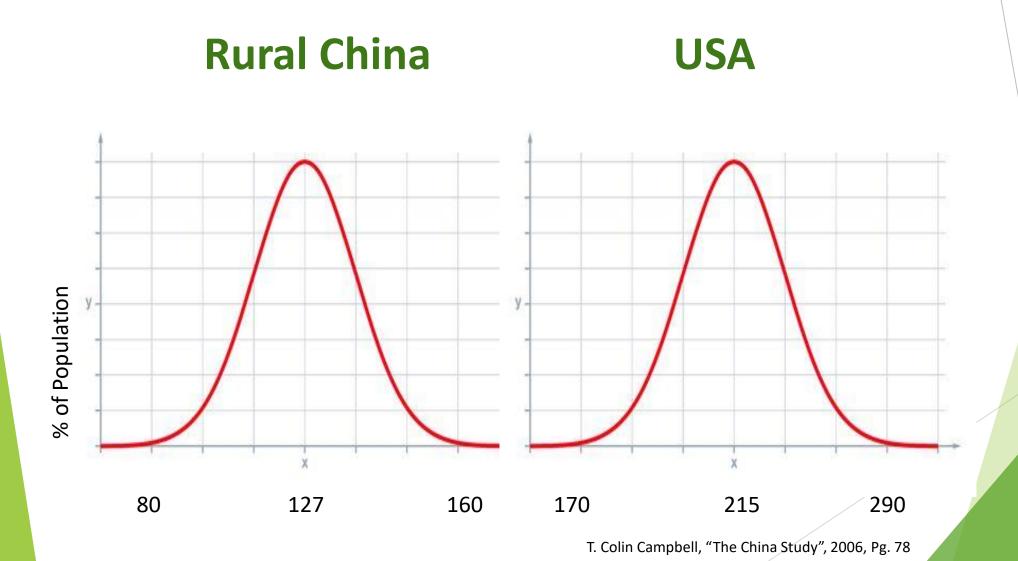




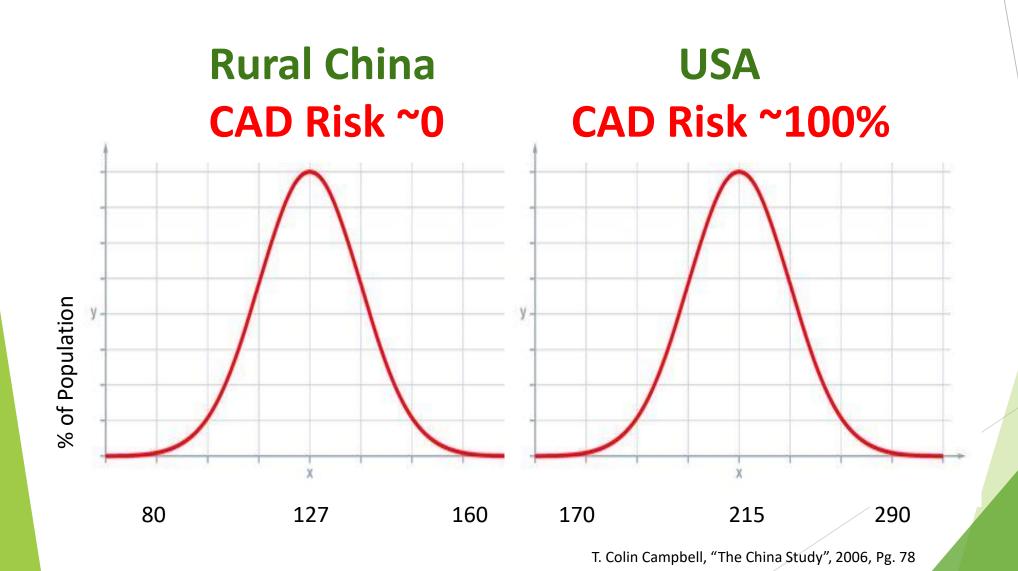




Total Serum Cholesterol Levels



Total Serum Cholesterol Levels



Desirable Characteristics:	Plant Foods	Animal Foods
Anti Oxidant Rich	****	X
High Fiber	****	X
Alkaline	$\star\star\star\star\star$	X
Cholesterol Free	****	X
Anti Inflammatory		
Phytonutrient Rich		
Balanced /Healthy Macronutrients		

Plant Foods: Anti-Inflammatory

- Anti-Oxidant Rich
- Support Healthy Microbiome
- Phytonutrient Rich

Inflammation from Animal Foods

- Bacterial Endotoxins
 - Average of 100,000,000 Bacteria per ¼ Pounder
 - These form "Endotoxins"
 - Endotoxins survive cooking, stomach acid & digestive enzymes
 - Saturated Fats aid absorption
 - Accelerate Atherosclerosis and Insulin Resistance

Inflammation from Animal Foods

- Aracidonic Acid
- Instigates Inflammatory Cascade

1	Chicken and chicken mixed dishes	26.9
2	Eggs and egg mixed dishes	17.8
3	Beef and beef mixed dishes	7.3
4	Sausage, franks, bacon, and ribs	6.7
5	Other fish and fish mixed dishes	5.8
6	Burgers	4.6
7	Cold cuts	3.3
8	Pork and pork mixed dishes	3.1
9	Mexican mixed dishes	3.1
10	Pizza Michael Greger: www.nutritionfacts.org	2.8

Heme Iron

- From Animal Blood & Muscle
- Pro-Oxidant
- Pro-Inflammatory

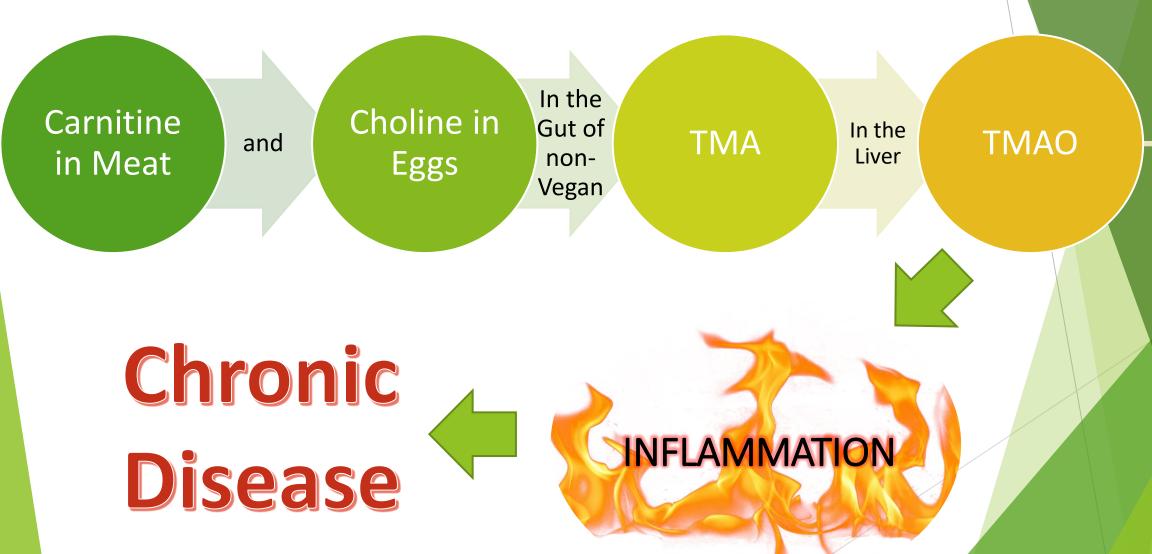
Heme Iron

- Linked with:
 - Diabetes -- Up 16% per mg
 - Heart Disease -- Up 27% per mg
 - Stroke Up 16% high vs. low quintile
 - Cancer Colon (12%), Breast (3%),
 Lung (12%) per mg
- 1) BMC Medicine, 2012; 10:119 2) Eur. J. Nutr. (2014) 53:395-400
- 3) Stroke, 2013; 44: 334-334 4) Cancer Eipidemiol Biomarkers Prev. 23(1) January, 2014

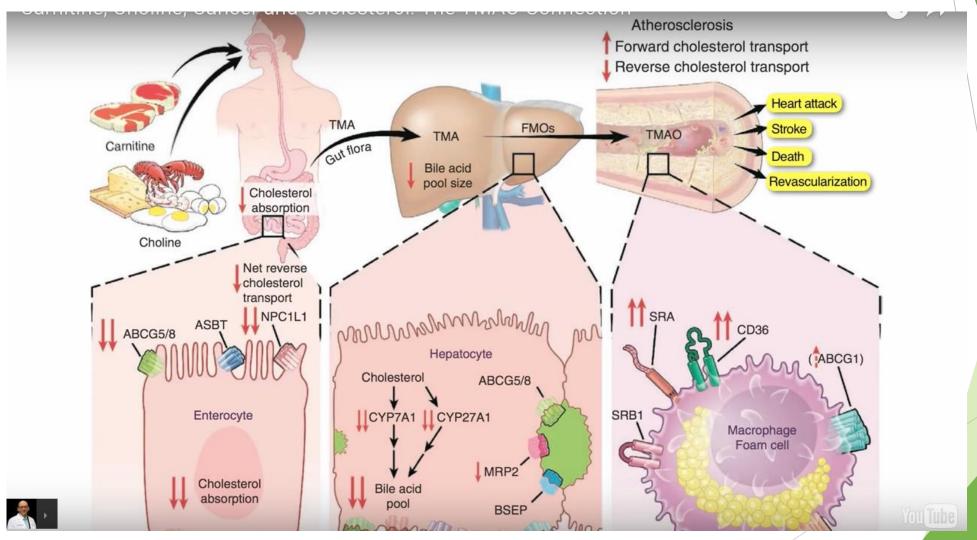
Heme Iron per 3 oz. Portion:

- Clams 23.8
- Oysters 7.8
- Muscles 5.7
- Venison 2.8
- Ground Beef 2.5
- Lamb Chop -- 2.1

Inflammation from Meat and Eggs: Carnitine and Choline



Carnitine + Choline – TMA -- TMAO



Nutritionfacts.org: Carnitine, Choline, Cancer, & Cholesterol: The TMAO Connection Michael Greger M.D. FACLM · April 26th, 2013 · Volume 13

"Food Borne Inflammation"

- **▶** Heart Disease
- Stroke
- Hypertension
- Arthritis
- Osteoporosis
- Chronic Kidney Disease
- Arthritis
- ► Alzheimer's
- Diverticulosis

- Appendicitis
- **▶** Food Borne infections
- **►** Multiple Sclerosis
- Rheumatoid arthritis
- Crohn's Disease
- Ulcerative Colitis
- Asthma
- Eczema

Desirable Characteristics:	Plant Foods	Animal Foods
Anti Oxidant Rich	****	X
High Fiber	****	X
Alkaline	$\star\star\star\star\star$	X
Cholesterol Free	****	X
Anti Inflammatory	****	X
Phytonutrient Rich		
Balanced /Healthy Macronutrients		

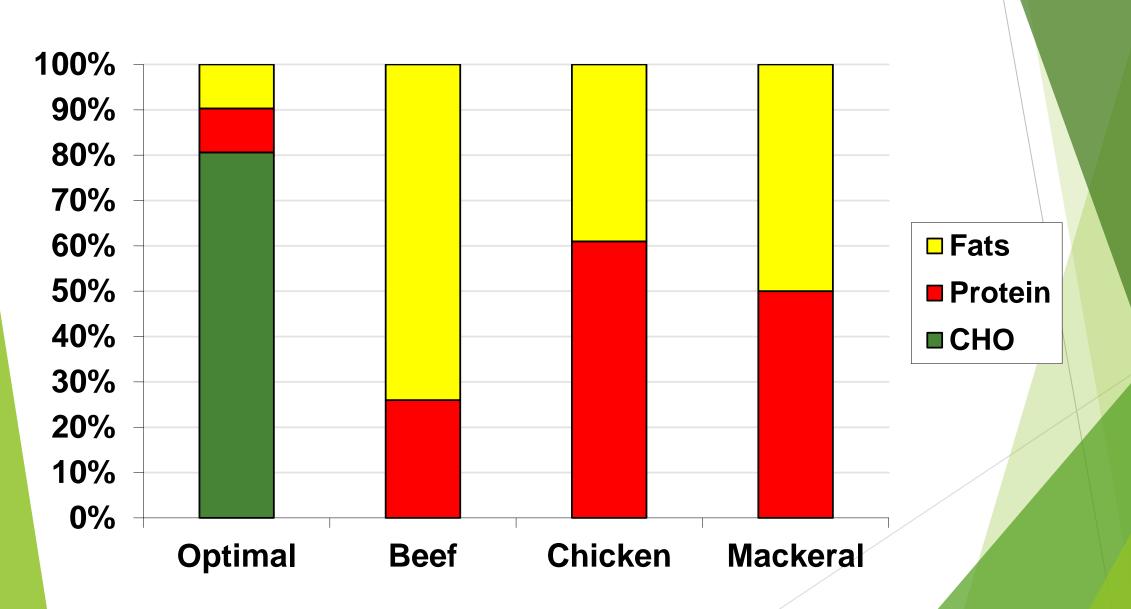
Plants Contain Over 30,000 Disease Preventing "Phytonutrients"

- Bioflavonoids
- Lycopene
- **Polyphenols**
- Phytates
- Isoflavones

- Carotenoids
- Retinols
- Genistein
- Sulphanes
- **Etc.**

Desirable Characteristics:	Plant Foods	Animal Foods
Anti Oxidant Rich	****	X
High Fiber	****	X
Alkaline	****	X
Cholesterol Free	****	X
Anti Inflammatory	***	X
Phytonutrient Rich	****	X
Balanced /Healthy Macronutrients		

Animal Foods Unbalanced



"Where do you get your Protein??!"

Quiz: Which Have Protein?

Answer: ALL OF THEM!



Vegetables

20%

25% Beans Whole Grains

12%

Macronutrient Source: PROTEIN

- ► <u>Animal</u>
- Acidic
- Allergenic
- Pro-Inflammatory:
 Interleukins, CRP,
 Inflammatory Cytokines
- Stimulate IGF-1

- ► Plant
- Alkaline
- Less Allergy
- Anti-Inflammatory
- No IGF-1
 Stimulation





Stroke
Heart Disease
Diabetes

Obesity

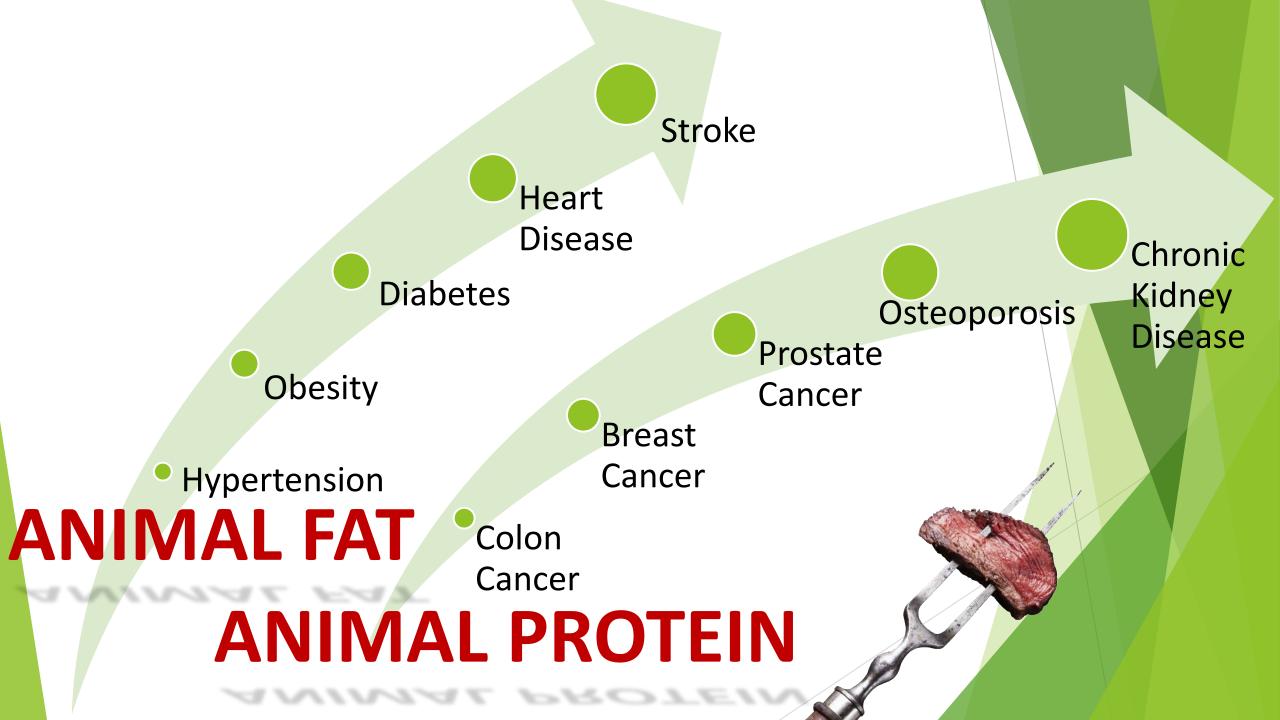
Hypertension





ANIMAL FAT





Low Protein Intake Is Associated with a Major Reduction in IGF-1, Cancer, and Overall Mortality in the 65 and Younger but Not Older Population

Morgan E. Le Federica Mad Giuseppe Pas

SUMMARY

Mice and hi IGF-1 deficient related dise Respondents aged 50–65 reporting high protein intake had a 75% increase in overall mortality and a 4-fold increase in cancer death risk during the following 18 years. These associations were either abolished or attenuated if the proteins were plant derived.

Cheng,1,2

D. Longo^{1,2,*}

span extension eved to operate and GH receptor F-1 and insulin

levels and signaling (parke of all, 2001), pendsh et al., 2000;

Fontana et al., 2010; Hauck et al., 2002; Wei et al., 2009). The

Cell Metab. 2014 Mar 4;19(3):407-17. doi: 10.1016/j.cmet.2014.02.006

GHR-IGF-1 activity, we examined

between protein intake and mortality. Respondents

Macronutrient Source: FATS

- ► <u>Animal</u>
- Cholesterol
- Saturated
- Trans Fats
- Heavy Metals & Contaminants

- ► Plant
- No Cholesterol
- Less Saturated
- None
- LowContaminants

Macronutrient Source: CARBS

- Animal
- None or Sugar
- No Fiber
- Milk = Lactose / Galactose

- ► Plant
- Rich in Complex
- High in Fiber
- No Lactose, small Galactose

Desirable Characteristics:	Plant Foods	Animal Foods
Anti Oxidant Rich	****	X
High Fiber	****	X
Alkaline	****	X
Cholesterol Free	****	X
Anti Inflammatory	***	X
Phytonutrient Rich	****	X
Balanced /Healthy Macronutrients	***	X



The "New 4 Food Groups"

Vegetables





Beans

















- STEP 1: Enjoy Keep plant-based meals you already enjoy in your meal rotation.
- · STEP 2: Adapt Give your favorite recipes a plant-based makeover.
- · STEP 3: Explore Begin incorporating new plant-based foods into each week.

Plan ahead.

- · Use meal planning apps or a simple calendar to plan meals in advance.
- Set aside time to batch prepare ingredients so meals can be thrown together quickly on busy weeknights. Pre-chop vegetables and cook large portions of grains and beans.

Make the 'healthy choice' he easy choice.

- Keep fresh produce in a bowl on the counter and at eye-level in the fridge so it is the first thing you reach for when wanting a snack.
- Stock your pantry with staple ingredients that can be assembled into a quick meal.

Work with a Registered Dietitian to assist in transitioning to a 100% plant-based dietary lifestyle, the health-protecting, disease-fighting prescription.

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Game plan for eating away from home and traveling.

- · Check menus ahead of time. Pair side dishes together to create a hearty meal.
- · Ask if the kitchen is willing to make a dish with vegetables, beans and whole grains.
- · When traveling, pack your own meals or stop at grocery stores instead of fast food.

Include the entire family.

- · Allow children to pick a new fruit or vegetable to try each week.
- · Start a tomato plant on the porch and have children water and take care of it.
- · Assign age-appropriate kitchen tasks to everyone in the family.

Set goals each week on your journey to improved nutrition.

- · Identify specific, measurable and attainable steps you can take each week. Instead of "eat more vegetables," set a SMART goal to "make half your dinner plate vegetables five nights this week."
- · Celebrate success each and every step of the way!







Focus on whole fruits and vegetables and eat a rainbow of color.

Vegetables: Dark leafy greens (spinach, kale, arugula, etc.), broccoli, squash, zucchini, carrots. tomatoes, beets, peppers, mushrooms, onions, celery, cauliflower, cucumbers, white & sweet potatoes, green peas, cabbage, whole plant fats (avocados, olives), and

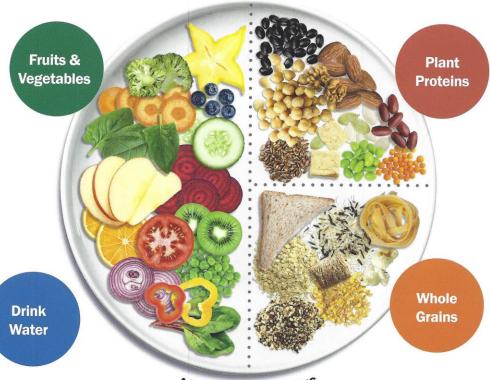
Eruite: Annies hananas grance citrus fruit

A WHOLE FOOD, PLANT-BASED PLATE

AMERICAN COLLEGE OF Lifestyle Medicine

Nutrition Prescription for Treating & Reversing Chronic Disease

The American College of Lifestyle Medicine Dietary Lifestyle Position Statement for Treatment and Potential Reversal of Disease: ACLM recommends an eating plan based predominantly on a variety of minimally processed vegetables, fruits, whole grains, legumes, nuts and seeds.



ADD HERBS & SPICES

Eat a variety of plant protein.

Legumes: Peas and beans, including kidney beans, pinto beans, white beans, black beans, lima beans, black-eyed peas, garbanzo beans (chickpeas), split peas and lentils,

Nuts and seeds: Almonds, pistachios, walnuts, pecans. nut butters, pumpkin/sunflower/chia/flax seeds, and











Evidence for Bovine Leukemia Virus in Mammary Epithelial Cells of Infected Cows

GERTRUDE CASE BUEHRING, PATRICK M. KRAMME, AND RONALD D. SCHULTZ

School of Public Health, University of California, Berkeley, California; and the Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin, Madison, Wisconsin

BACKGROUND: Bovine leukemia virus (BLV), a retrovirus, usually causes a subclinical infection of dairy and beef cattle, but in <1% of infected cattle a B cell lymphoma may develop after several years of infection. BLV is transmitted horizontally among cattle, and infected animals have anti-BLV titers. Expression of BLV antigen, however, is silent in peripheral blood lymphocytes in vivo. The tropism of BLV has been assumed to be limited to B lymphocytes, because no other cell type has been found to harbor the virus in vivo. Since retrovirus-like particles had been identified in milk. and infection can be transmitted by milk, we decided to investigate whether BLV was in

Bovine Leukosis Virus (BLV) on U.S. Dairy Operations,

2007

In 2007, the I National Anir conducted th major dairy S States divide percent of U. dairy cows pa This infor on BLV preva Dairy 2007 at Dairy 1996.

BLV

Table 1. Percentage of Operations in Which Bulk Tank Milk Tested Positive for BLV via ELISA, by Herd size

I to BLV and ta from the I that herds s milk per e cows.

Herd Size (Number of Cows)	Percent Operations
Small (fewer than 100)	83.2
Medium (100-499)	82.1
Large (500 or more)	100.0

96 and

tically based line ntrolling it. on 1,006

BLV is a retrovirus that infects dairy and beef cattle's

operations were tested using the Agar Gel Immunodiffusion test (AGID). Results showed that 89.0 percent

BLV and Breast Cancer

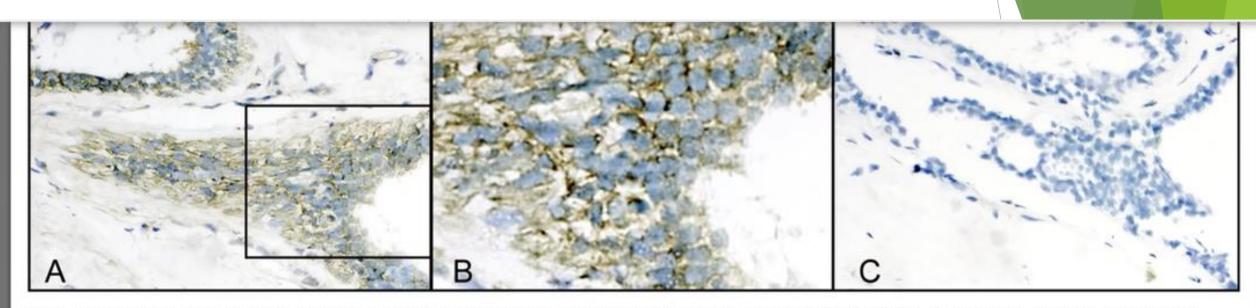


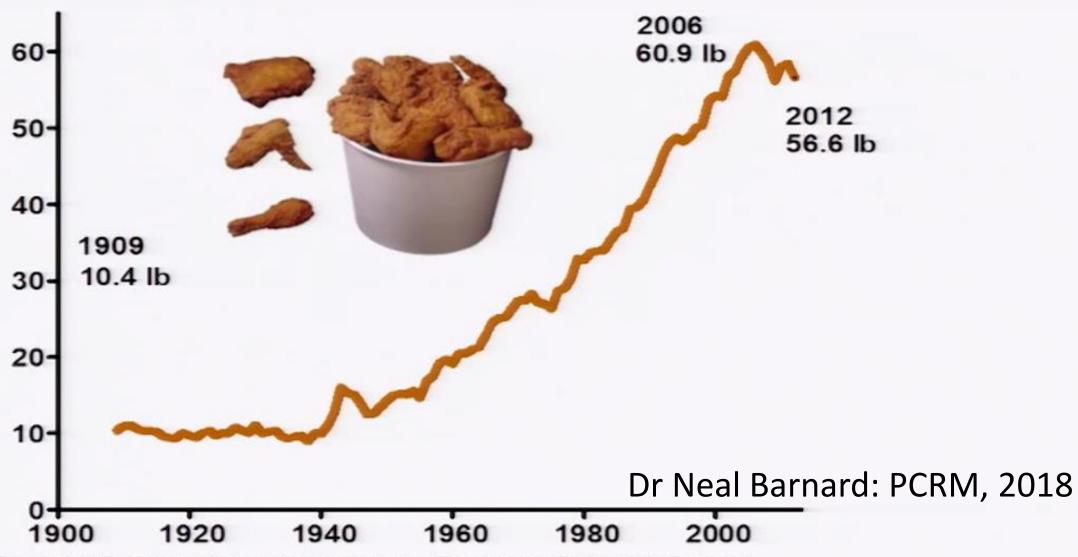
Fig 1. Bovine leukemia virus (BLV) in the mammary epithelium of a donor with breast cancer. (A) BLV DNA detected by in situ PCR (brown cells) (X40). Note presence of brown outcome reaction only in epithelium and not in surrounding connective tissue; (B) enlargement of boxed area in A, showing that the positive reaction is localized to the cytoplasm of mammary epithelial cells (X136). (C) background control, adjacent section reacted with PCR mix without primers to rule out non-specific false positive reactions (X40). Note absence of brown outcome reaction. Counterstain for A,B, and C is Difquick blue.

Presence of BLV-DNA in breast tissues was strongly associated with diagnosed and histologically confirmed breast cancer, OR = 3.07. As many as 37% of breast cancer cases may be attributable to BLV exposure.

So what does all of this mean for People with an interest in Optimal Health?



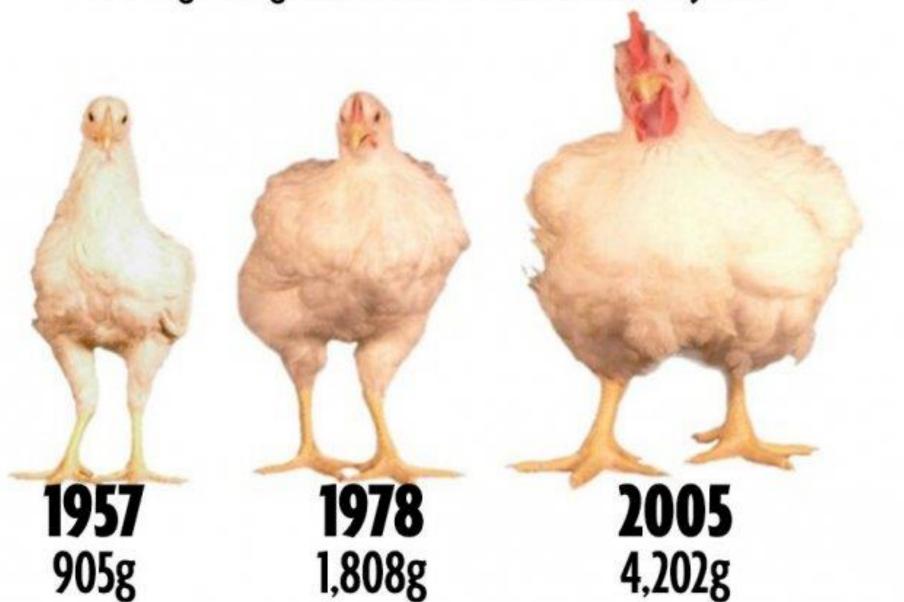
U.S. Per Capita Chicken Intake (lb)

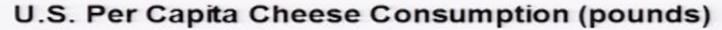


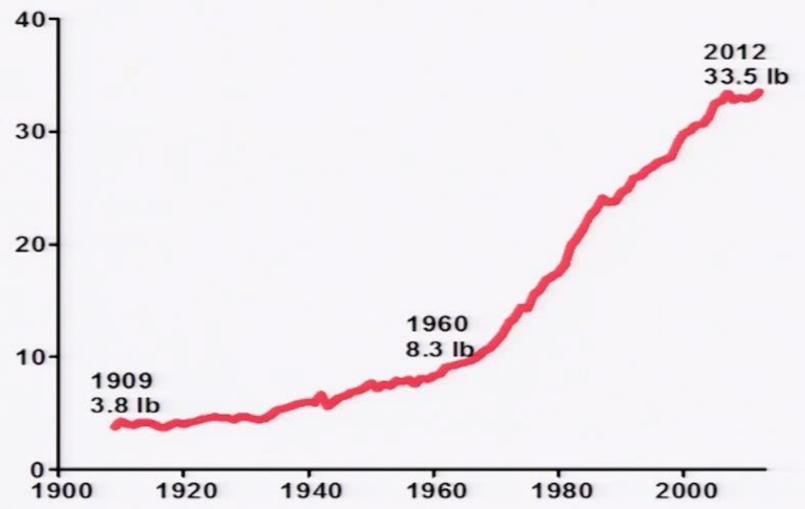
Source: US Department of Agriculture, Economic Research Service, http://www.ers.usda.gov/Data/FoodConsumption/FoodAvailSpreadsheets.htm#mtpcc, accessed August 15, 2009.

JUST HOW BIG ARE TODAY'S CHICKENS?

Average weight of chicken breeds at 56 days old



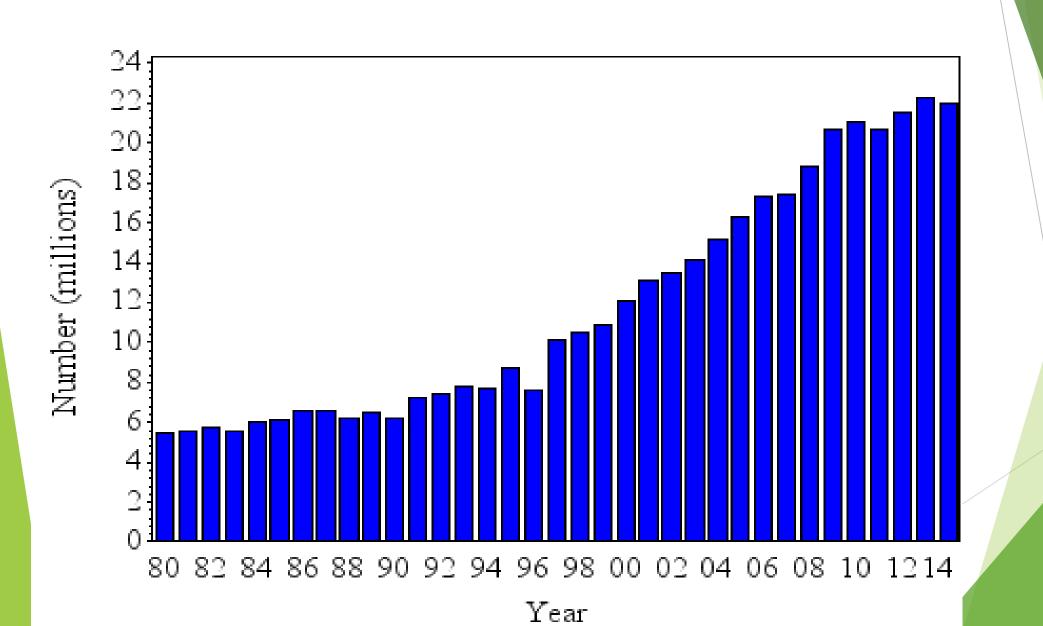




Source: US Department of Agriculture, Economic Research Service, http://www.ers.usda.gov/data-products/dairy-data.aspx#.Ui9QRT_4LTI, accessed September 10, 2013

Dr Neal Barnard: PCRM, 2018

US Adults With Diabetes

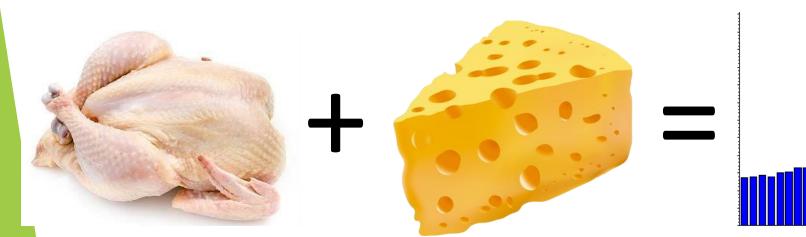


Key Take Home Point:

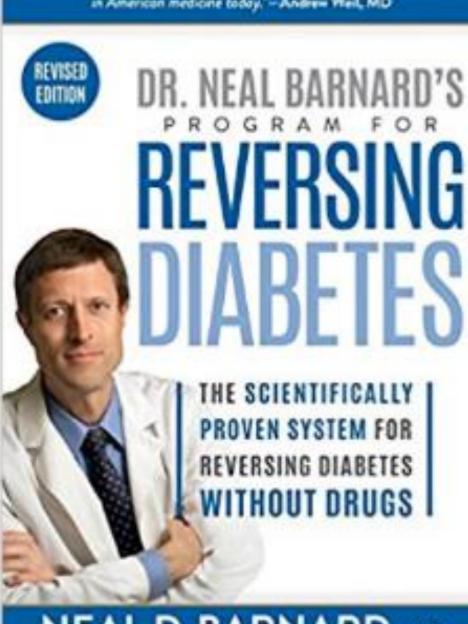


Key Take Home Point:

Chicken and Cheese are key drivers of our Diabetes Epidemic



*Dr. Neal Barnard is one of the most responsible and authoritative voices in American medicine today."—Andrew Well, MD

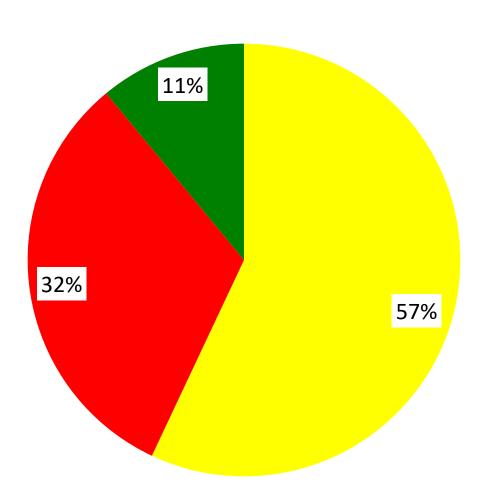


NEAL D. BARNARD, MD.
With Manua and Resipes by Bysenna Clark Gragan

Standard American Diet (SAD)







% of Calories WFPB





The Power Plate



Powerful for...

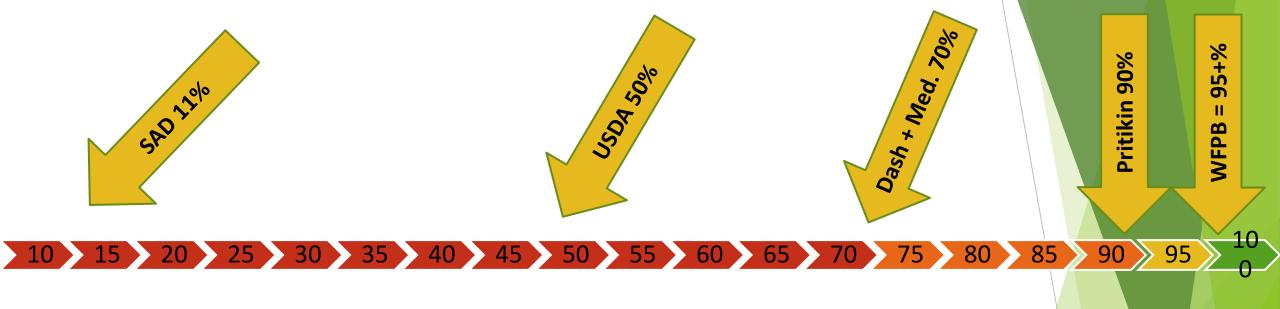
- Heart Disease Diabetes Weight Control
 - Cancer Prevention & Survival

% of Calories WFPB





% of Calories WFPB



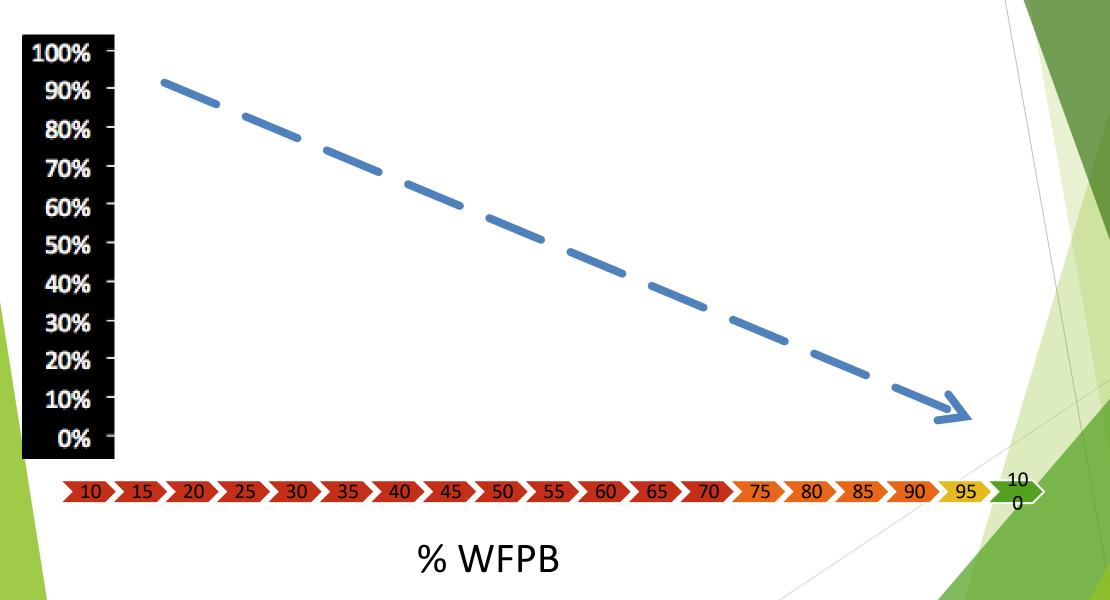
RED = Incite and Accelerate

Orange = Later, Slower Progression

Yellow = Mitigate and Arrest

Green = Prevent and Reverse

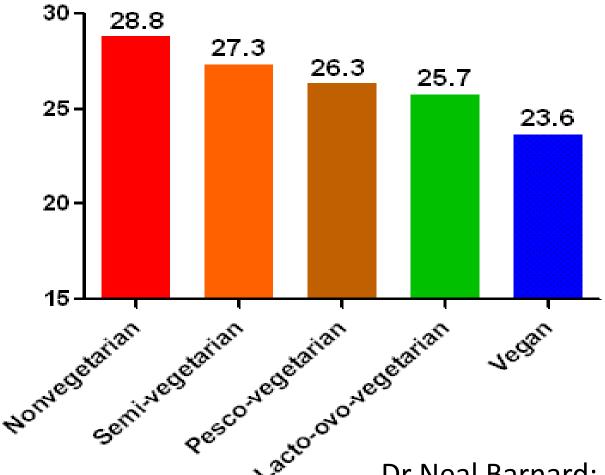
Chronic Disease Risk- Diet



Adventist Health Study – 2

60,903 participants, aged ≥30, enrolled 2002-2006

Body Mass Index (kg/m²)

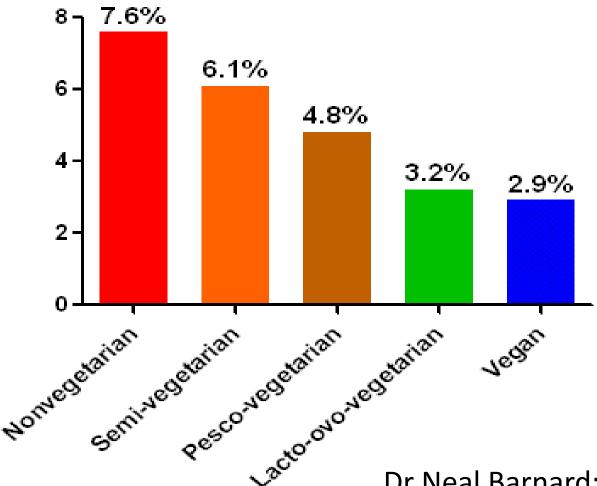


Dr Neal Barnard: PCRM, 2018

Adventist Health Study – 2

60,903 participants, aged ≥30, enrolled 2002-2006

Type 2 Diabetes Prevalence



Dr Neal Barnard: PCRM, 2018

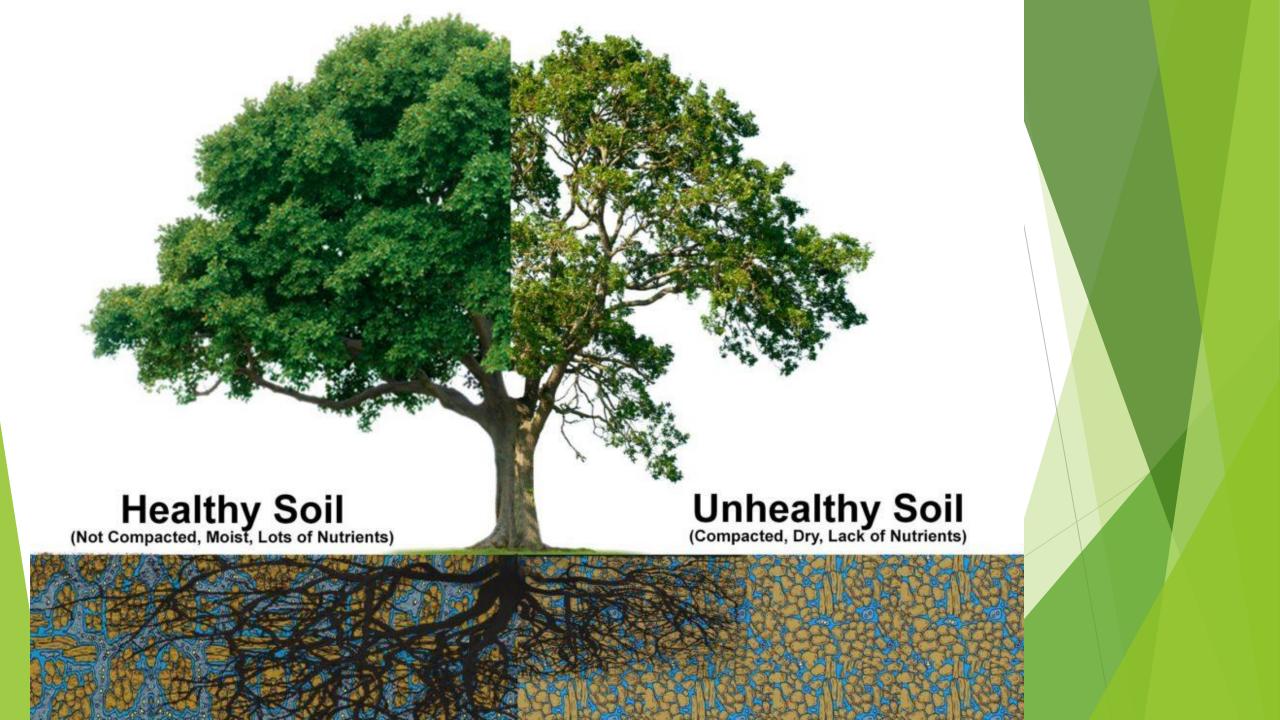
General Principles:

- ► Not "All or Nothing"
- No "Threshold Effect"
- ► The more you do the greater your gain
- ► The earlier you start the better
- ► But it's NEVER TOO LATE

Whole Plant Based Foods:

- Antioxidant and Phytonutrient Rich
- Microbiome supporting Fiber
- Alkalinizing
- Anti-Inflammatory
- Balanced, Healthy Macronutrients





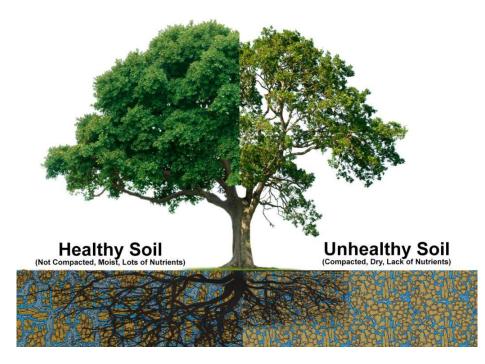
Vitality
Positive wellness
Independence
Freedom

Healthy Organs

Strong blood flow Low Inflammation

Antioxidant rich
Healthy Microbiome
Phytonutrients
Alkalinizing
Balanced healthy Macronutrients

WFBP Lifestyle
Daily Exercise
Stress management
Social connections



Fatigue
CAD
Diabetes
Chronic pain
Depression

Organ dysfunction Insulin resistance

Ischemia
Inflammation

Oxidative stress
Microbiome
Dysbiosis
Insulin resistance

Processed and
Animal foods
Sedentary lifestyle
Isolation
Chronic stress



Every Day Eating WFPB Saves:

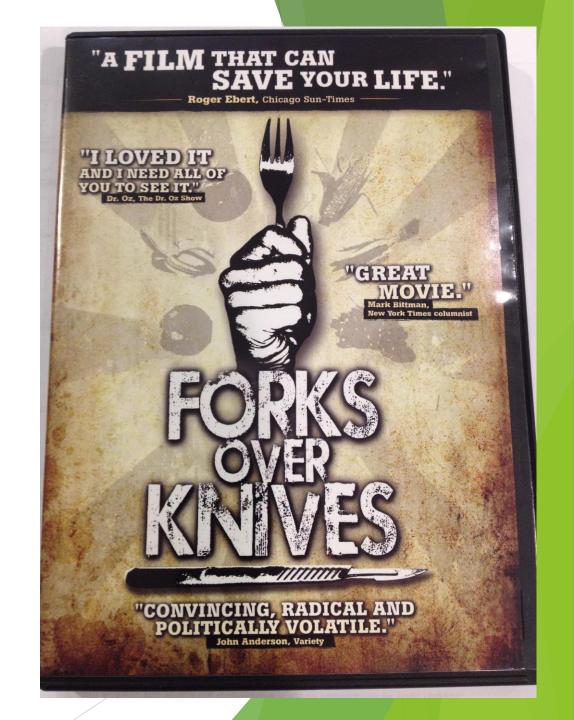
- 1100 Gallons of Water
- 45 pounds of Grain
- 30 sq. ft. of Forest
- 10 pounds of CO2
- 1 Animal's Life

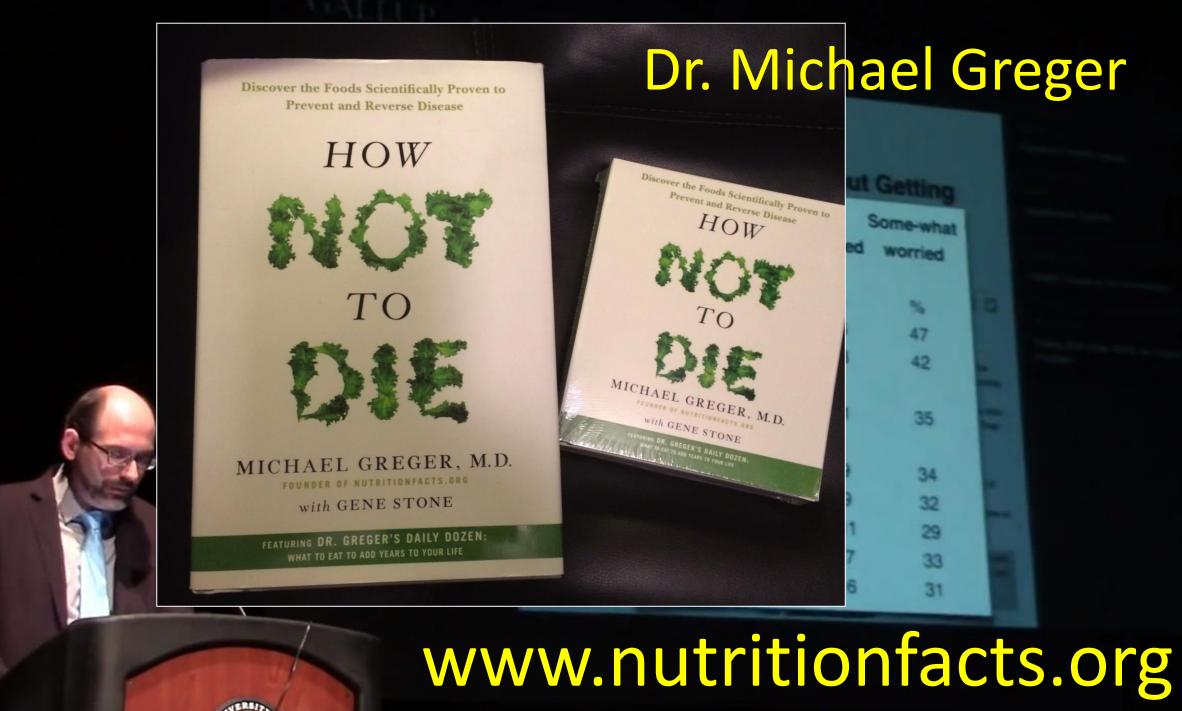




Additional Resources:

- ► PBNSG.org
- NutritionFacts.org
- PCRM.org
- ForksOverKnives.com
- ChickpeaAndBean.com
- VegMichigan.org
- FoodRevolution.org
- PlantricianProject.org
- ► P-POD.org







Plant Based Sutrition Support Group





UPCOMING EVENTS



THRIVING AS A
PLANT-BASED
ATHLETE WITH
ROBERT BREAKEY,
MD

6:30 PM - 8:00 PM

www.PBNSG.org

COVID-19 Recommendations

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Donate



Rochester Lifestyle **Medicine Institute**

15-Day Whole-Food Plant-Based Community Jumpstart Program

Watch an introduction to Community Jumpstart



bup report

Registration Information

RLMI Community Jumpstart is OPEN - via Zoom meeting - using Whole-Food Plant-Based nutrition to promote health, reverse chronic diseases and provide additional defenses against COVID-19 - from anywhere in the world! Program fee is \$99.

Subscribe / Contact Us

The Bottom line:

Eat as if your Health and your Life

Depended on it...

When you have your

Health
you have 1,000 dreams...

And when you don't, you have one...



