Lake County Safety Council Nutrition and Fitness



Nancy V Rodway MD MPH
Chris Brill-Packard MA CHES



Objectives

- Provide simple steps to improve metabolic fitness and physical fitness
- Explain the history behind our current nutritional recommendations and the physiologic consequences
- Summarize the current knowledge on nutrition and how it has impacted health and fitness and costs
- Add a quickie on cholesterol

EAT ME!!













Fat doesn't make you fat

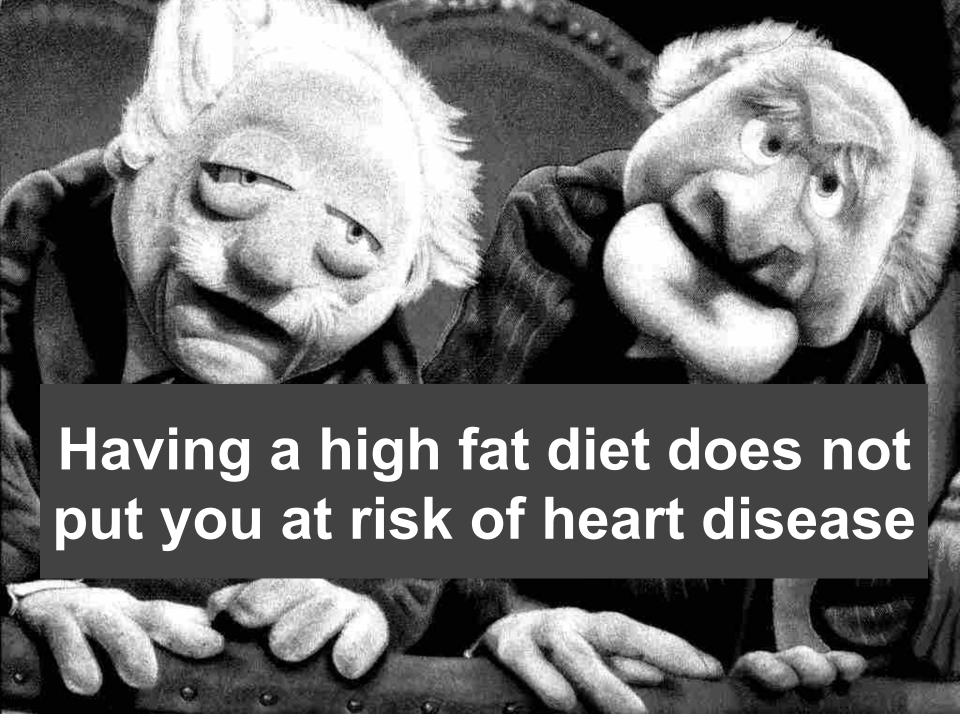


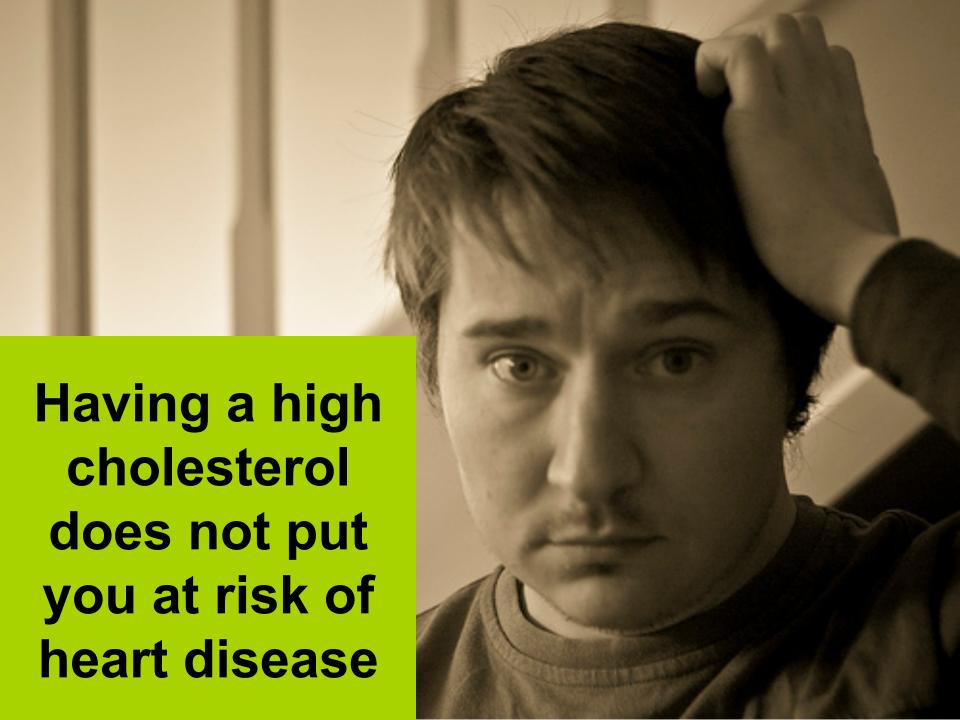




Eating red meat does not increase your risk of a heart attack







Carbohydrates cause heart attacks

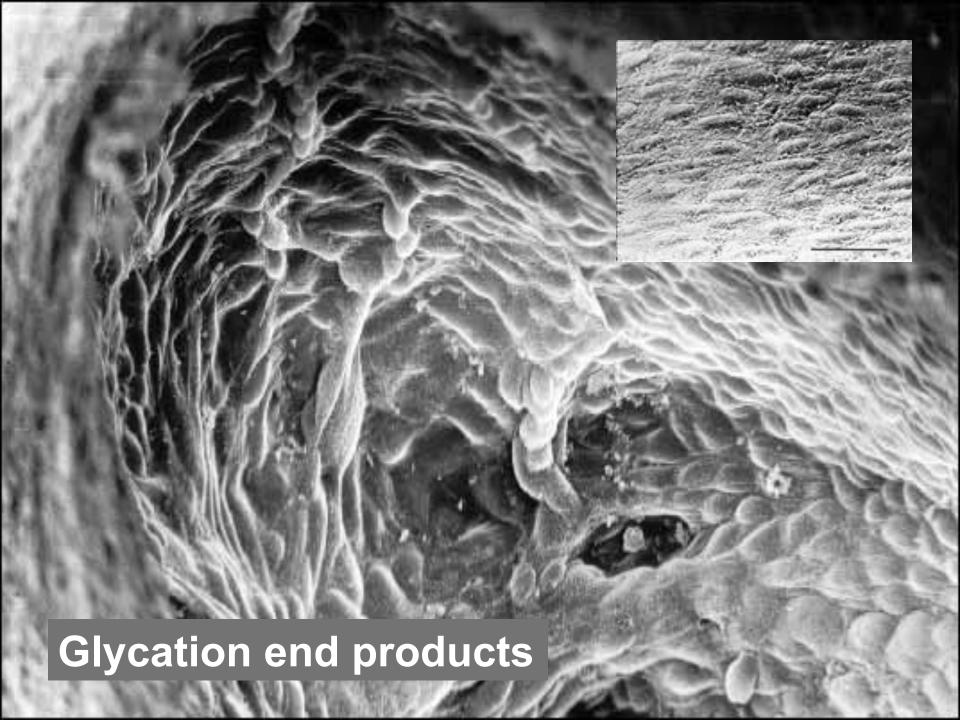


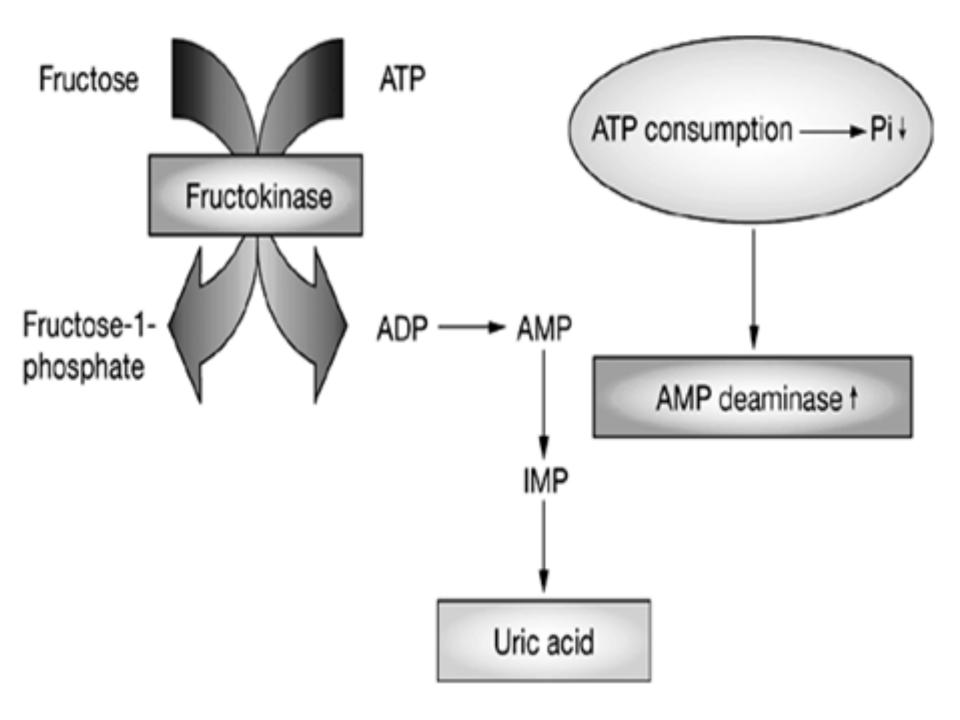
And other bad things . . .



Sugars and Carbs cause:

- -Arthritis
- –Rapid aging
- -Diabetes-related
- -Dementia
- -Catar
- -De
- -Automune diseases
- -Irritable Bowel syndrome







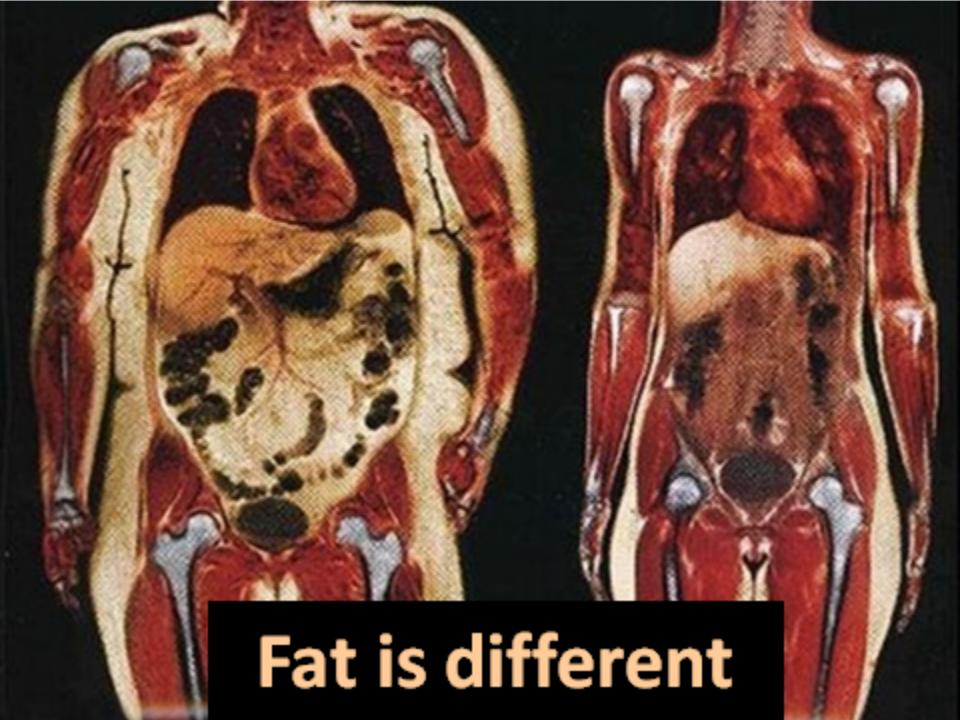
Rust in the mitochondrial furnace





Low fat diets:

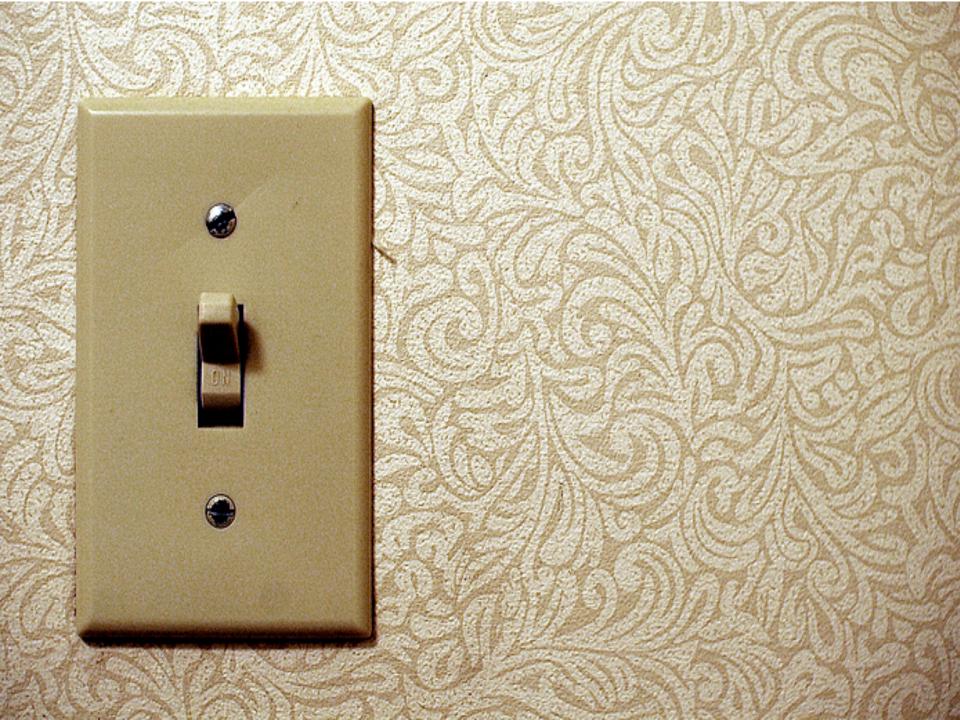
- High in grains and sugars
- Grains cause GI damage and disease
- Sugars and carbs trigger high insulin levels
- Insulin causes:
 - –Fat deposition and stops fat burning
 - –Energy conservation
 - -Food addiction





40% of skinny people are metabolically ill





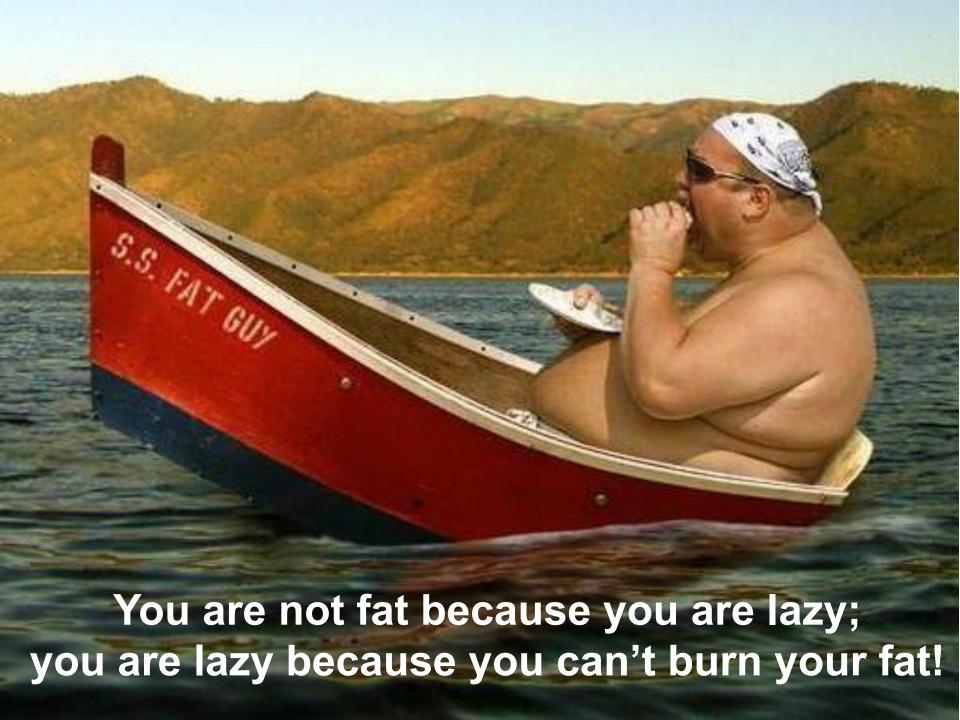
Fat Deposition Switch ON

- Fructose (table sugar, fruit juices, pop)
- Honey
- BEER
- High fructose corn syrup
- Carbohydrates
- Eating throughout the day



FLIP THE SWITCH

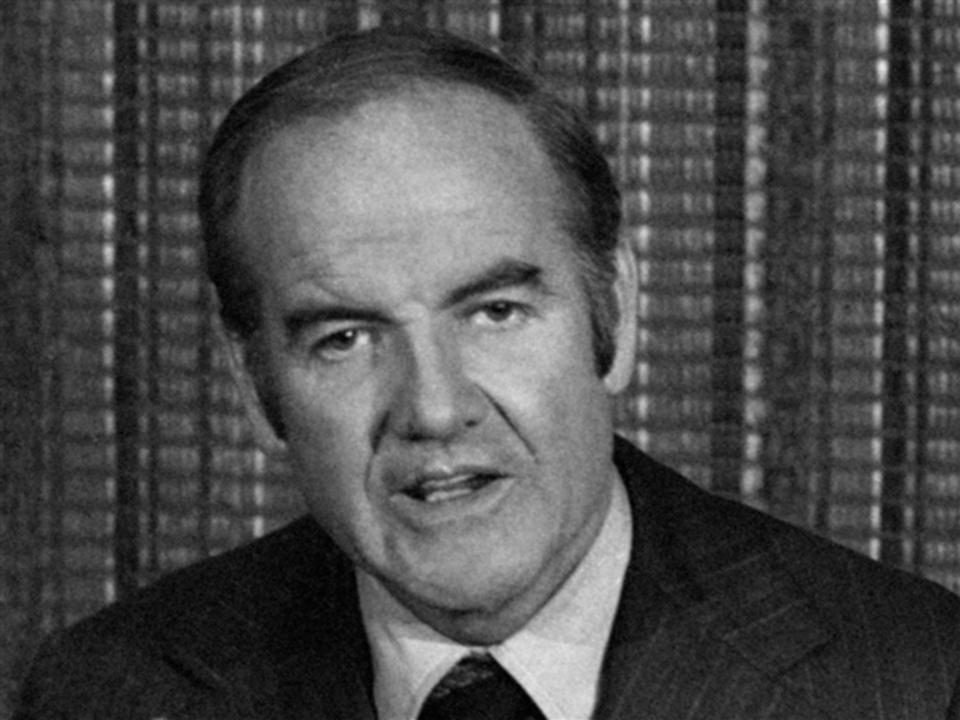
- No transfats
- No high fructose corn syrup
- Limit sugars
- Cut down on wheat (bread and pasta)
- Avoid BEER
- No "industrial" vegetable oils



The shift to a low fat diet was one of the most dangerous conceptual shifts in public health in American history

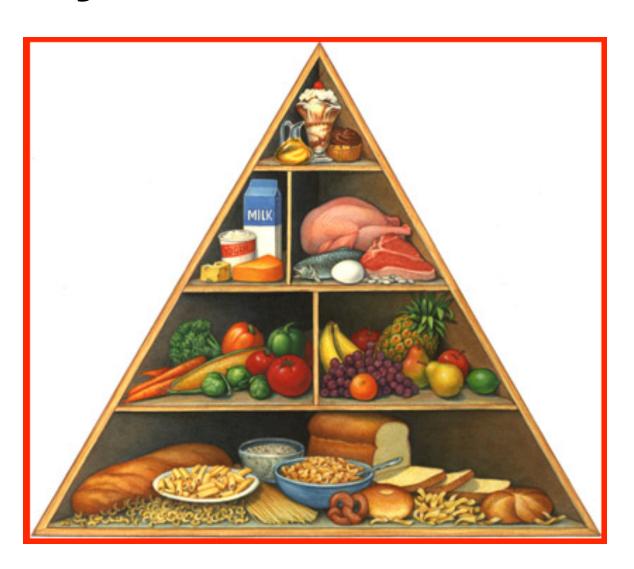
Gary Taubes

Good Calories, Bad Calories

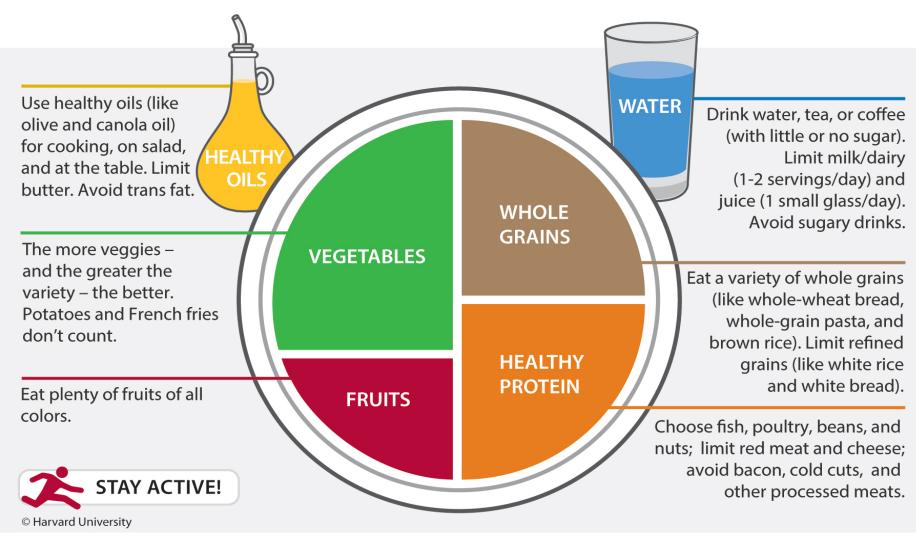




Dietary Goals for the US 1977



HEALTHY EATING PLATE

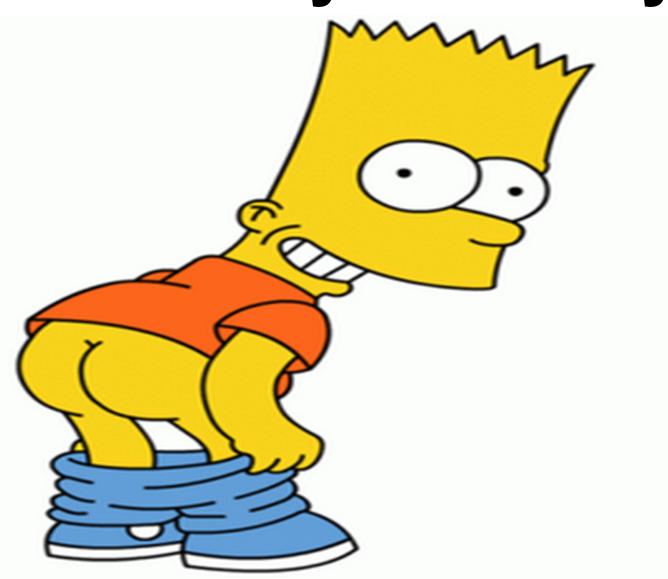




Harvard Medical School Harvard Health Publications www.health.harvard.edu



It's not about your booty



The average serum cholesterol in acute MI patients is 104 mg/dl



Those with a cholesterol of 220-240 live the longest

Low cholesterol is linked with stroke, cancer, depression, suicide

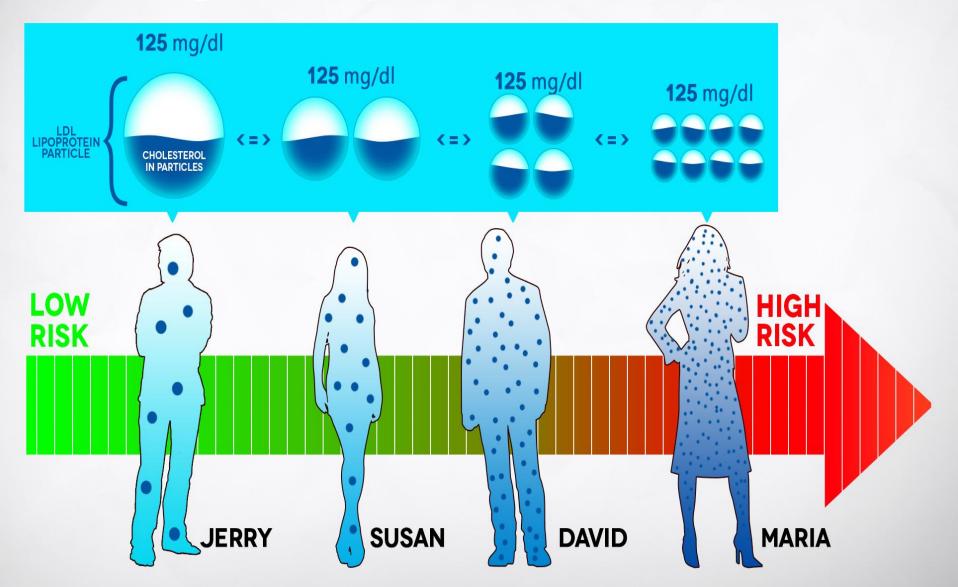


It's the size of the LDL "bad" cholesterol particles that counts

Yes, size does count! Bigger IS better!

LIPOPROTEIN PARTICLES VS. CHOLESTEROL

EACH PATIENT SHOWN HAS THE SAME LDL CHOLESTEROL OF 125 mg/dL (3.25 mmol/L) MARIA HAS THE HIGHEST RISK BECAUSE HER LDL PARTICLES ARE SMALLEST AND SHE HAS A LOT OF THEM



You can have a perfectly normal total cholesterol

and still have a high LDL particle count

You may be on a cholesterol pill and not need it.

You may have a perfectly normal blood lipid panel and be at high risk of a heart attack

There's a blood test for that! LDL particle count



Triglyceride/HDL >3



Trig/HDL ratio

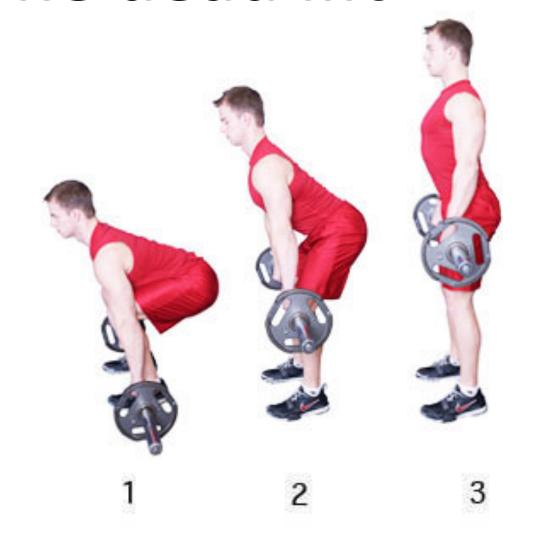
- POOR MAN'S LDL PARTICLE COUNT
- You want it to be as small as possible
- 1 is excellent
- More than 3 is concerning
- More than 5 is damaging
- More than 7 is dangerous

What will make your LDL particles fatter?

- Low-carbohydrate diet
- Omega 3 fatty acids (fish oil)
- Exercise***
- Niacin
- Statin cholesterol medication . . . sorta



The dead lift







A healthy sodium intake is 4-6 gm daily

Not 1.5-2.0 gm



Five foods to never eat









Summary!

- Eat real food including fat
- Limit sugar (eat Stevia) because it damages your liver, mitochondria and creates uric acid
- Limit wheat because it increases your insulin and causes leaky gut syndrome that causes inflammation and autoimmune conditions
- Limit soy because it damages sex and thyroid hormones



EVERYONE IS UNIQUE

WE WE GET FAT

AND WHAT TO DO ABOUT IT



GARY TAUBES

AUTHOR OF GOOD CALORIES, BAD CALORIES

"A vitally important book, destined to change the way we think about food."

—MICHAEL POLLAN, AUTHOR OF IN DEFENSE OF FOOD

"Gary Taubes is a brave and bold science journalist who does not accept conventional wisdom." —THE NEW YORK TIMES

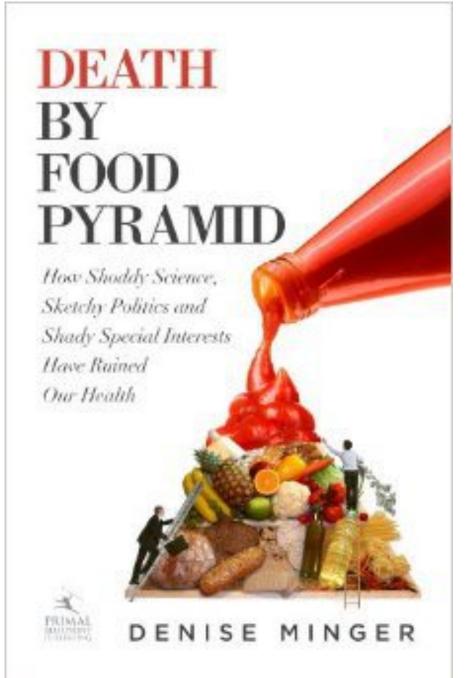
GOOD CALORIES,

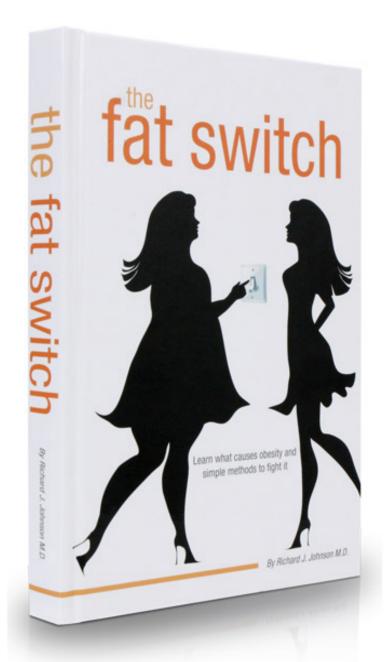


BAD

FATS, CARBS, AND THE CONTROVERSIAL SCIENCE OF DIET AND HEALTH

GARY TAUBES





New York Eimes BESTSELLER



THE BIG

Why Butter, Meat & Cheese Belong in a Healthy Diet

NINA TEICHOLZ

http://www.fhit.org/ Lecturepad.org Sugarscience.org