The Right to Bear Farms



American Gothic Grant Wood 1930 Mark Cucuzzella MD Professor of Family Medicine West Virginia University

Gus Schumacher Executive Vice President Wholesome Wave

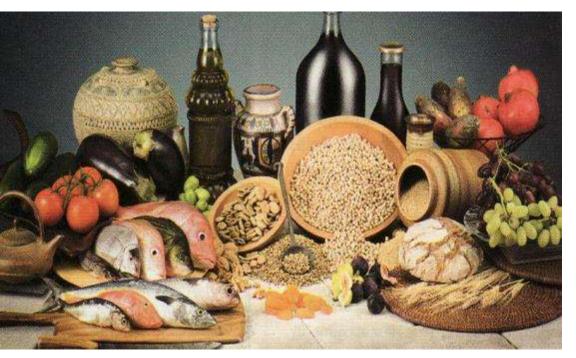
"Let thy food be thy medicine and thy medicine be thy food" Hippocrates, 480 B.C



Farmacology



"All that mankind needs for good health and healing is provided by God in nature, ... the challenge for science is to go find it."



Paracelsus Father of Pharmacology c. 1493-1541

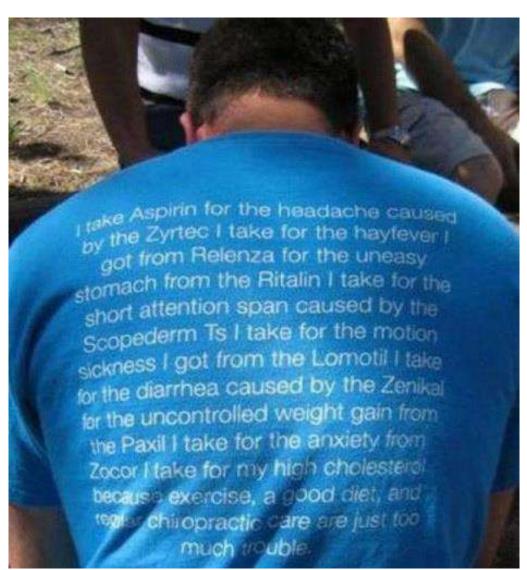
"People are fed by the Food Industry, which pays no attention to health,



and are treated by the Health Industry, which pays no attention to food."

Wendell Berry

Test and Replace Model One Symptom One Cause One Treatment



What is a Healthy Diet?



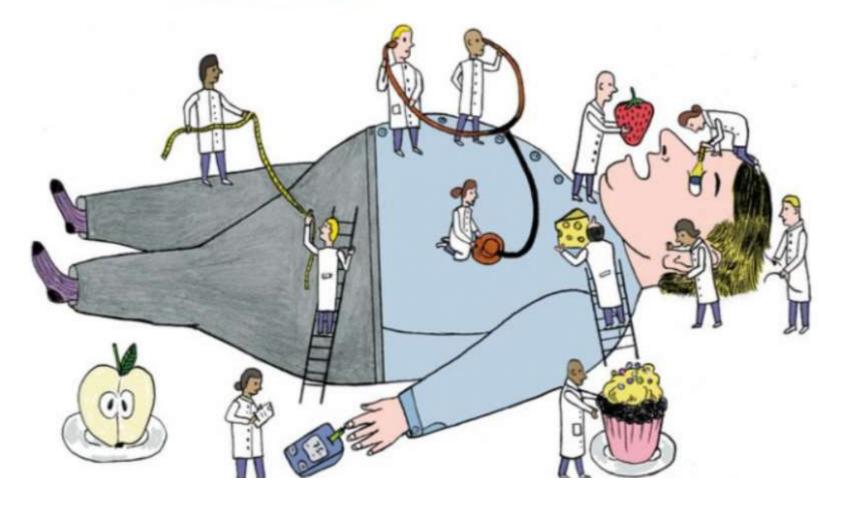
Even Lisa is confused!

Atkins Diet? Vegetarian/Vegan? Zone Diet? Macrobiotic? South Beach Diet? Juicing? Food Combining? Metabolic Typing? All Raw? Paleo? Fast?

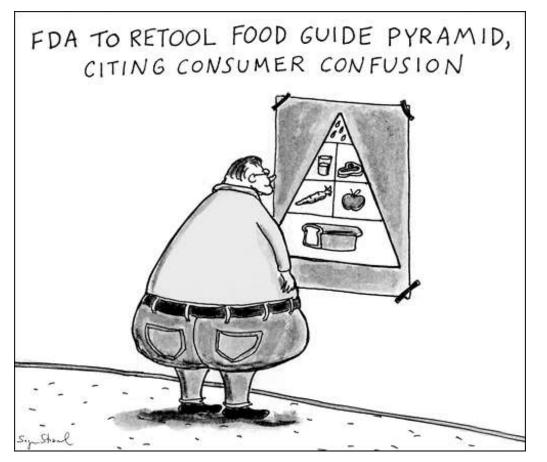
Gary Taubs New York Times

Why Nutrition Is So Confusing

February 13 20:09 in Gary Taubes, Science & Health



Or is it the US Government Official Diet...



... designed to promote the products of commodity agriculture?

10 Companies That Control Enormous Number Of Consumer Brands



What is Our Natural Diet?



Please don't feed the animals

Bread and snacks are unhealthy for squirrels, deer and birds.

Handouts can lead to malnutrition and starvation. These animals need their natural diets.

Let them find their own food.

Feeding wildlife prohibited by County Ordinance #8.42.012

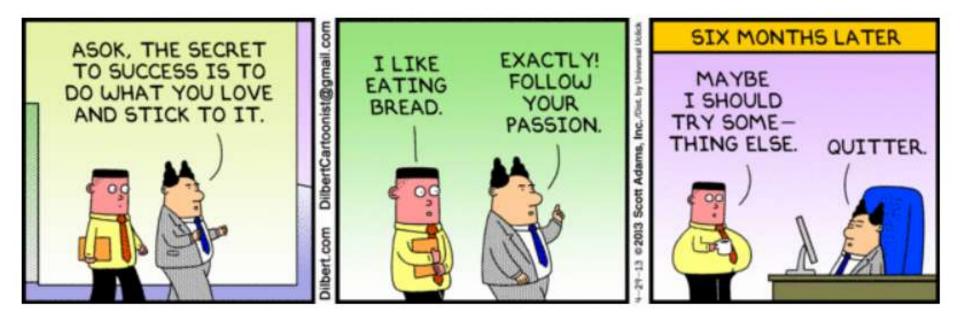
Do we have all the answers?



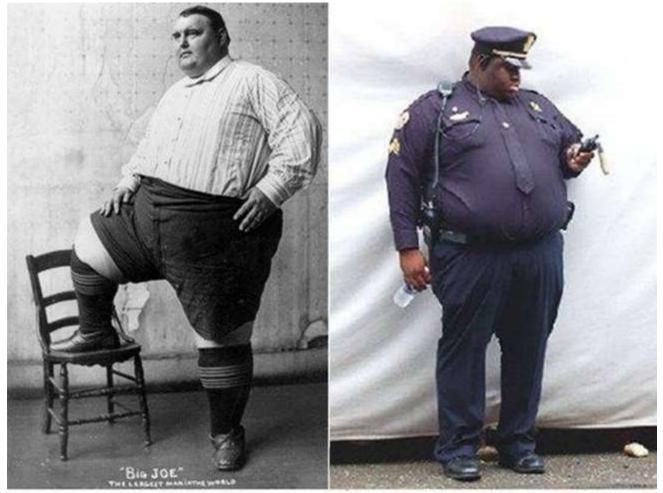
How Did We Get Here? Lessons From Dilbert

The Problem With Bread

April 29 2013 20:05 in Wheat



Where will be in 20 years? 100 years?



Largest man in the world in 1903

American police officer in 2012



Who's Responsibility is This?

 It seems incredible, but these are the facts: As of 2005, at least 9 million young adults -- 27 percent of all Americans ages 17 to 24 -- were too overweight to serve in the military. And since then, these high numbers have remained largely unchanged.

Gen John M. Shalikashvili and Gen Hugh Shelton, Retired Chairmen of Joint Chiefs of Staff

Age-Adjusted Prevalence of Obesity and Diagnosed Diabetes Among U.S. Adults Aged 18 Years or older

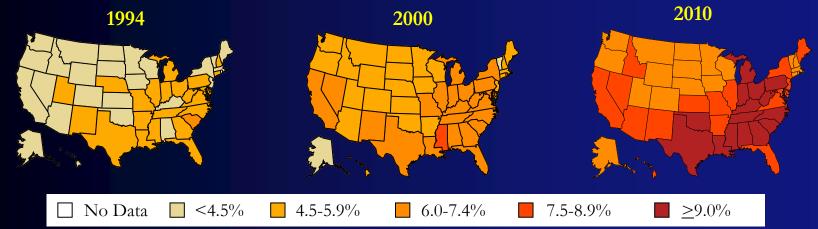
 Obesity (BMI \geq 30 kg/m²)
 200
 2010

 1994
 200
 400
 400

 1994
 1994
 100
 100
 100

 1994
 14.0-17.9%
 18.0-21.9%
 22.0-25.9%
 \geq 26.0%

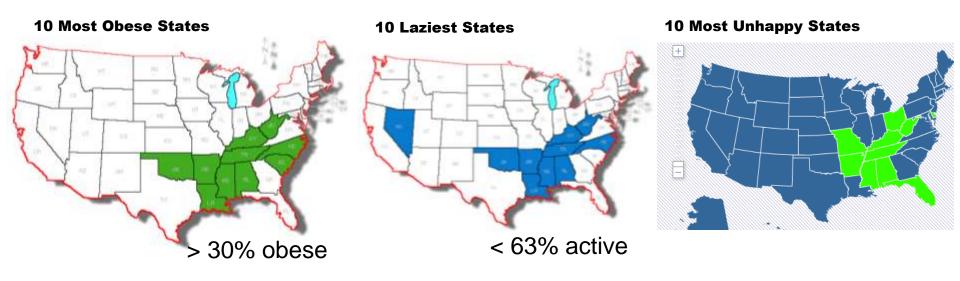
Diabetes



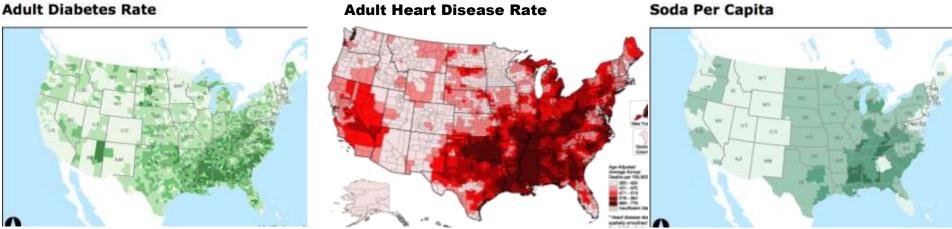


CDC's Division of Diabetes Translation. National Diabetes Surveillance System available at http://www.cdc.gov/diabetes/statistics





Adult Diabetes Rate

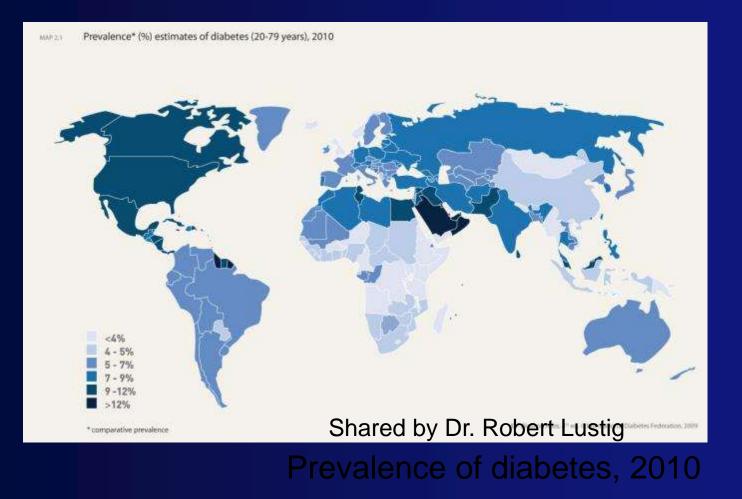


Shared by Dr. Robert Lustig

Worldwide per capita sugar supply, 2007



Prevalence of diabetes, 2010



increase in Obesity Over a 30 year period

1980

1990

2000

2010

30%

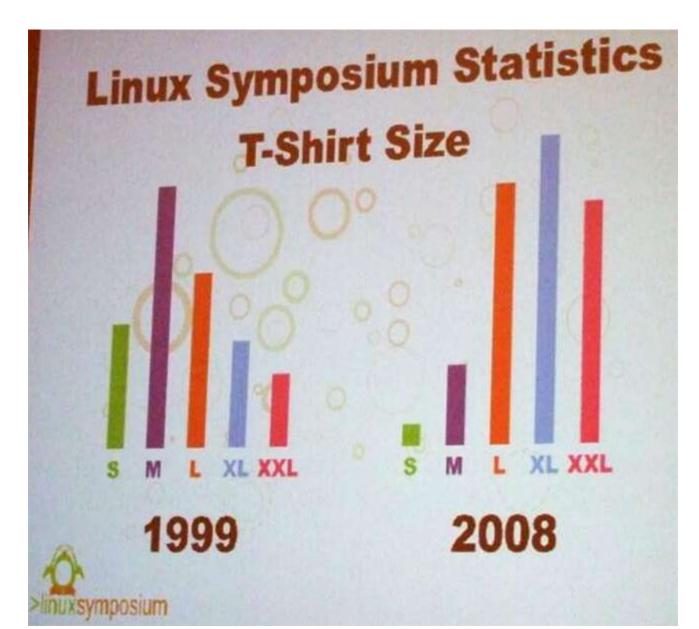
40%

20%

10%

1970

We've only had Freedom's Run 5 Years



Is this child to blame?



Why Won't Johnny Play?



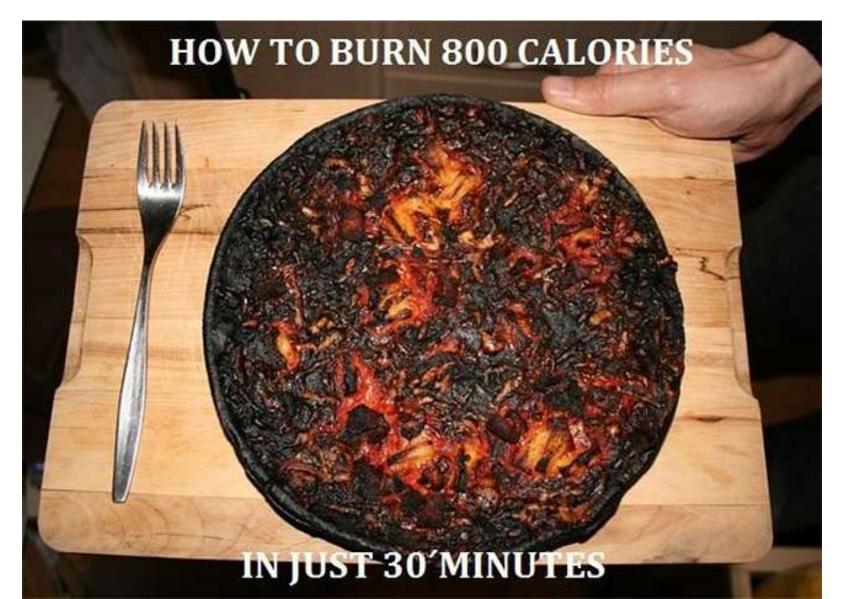
Not a lack of awareness



Maybe Just Eat Less?



On to the Gym!



Or Do some More Cardio in the Gym Above the Sweet Shop



Counting Calories?



THE SACCHARINE DISEASE

Conditions caused by the Taking of Refined Carbohydrates, such as Sugar and White Flour

T. L. CLEAVE, M.R.C.P. (Lond.)

Member of the Institute of Linguists Surgeon-Captain Royal Navy (Retd.) Formerly Director of Medical Research, Institute of Naval Medicine

WITH A FOREWORD BY

D. P. BURKITT, M.D., F.R.S., F.R.C.S. (Ed.), D.Sc. (Hon.), F.R.C.S.I. (Hon.) Medical Research Council External Staff

BRISTOL JOHN WRIGHT & SONS LIMITED 1974

WORKS BY T. L. CLEAVE

A Molecular Conception of Organisms and Neoplasms 3rd ed., (1955), Bristol: Wright. Fat Consumption and Coronary Disease (1957), Bristol: Wright. On the Causation of Varicose Veins (1960), Bristol: Wright. Peptic Ulcer (1962), Bristol: Wright.

WITH G. D. CAMPBELL

Diabetes, Coronary Thrombosis, and the Saccharine Disease (1966), Bristol: Wright,

THE SACCHARINE DISEASE Conditions caused by the Taking of Refined Carbohydrates, such as Sugar and White Flour Condition T. L. CLEAVE, M.R.C.P. (Lond.) Member of the Institute of Linguists Surgeon-Captain Royal Navy (Retd.) Formerly Director of Medical Research, Institute of Naval Medicine WITH A FOREWORD BY D. P. BURKITT, M.D., F.R.S., F.R.C.S. (Ed.), D.Sc. (Hon.), F.R.C.S.I. (Hon.) Medical Research Council External Staff

hydrates,

T. L. CLEAVE. Member of the It Formerly Direct

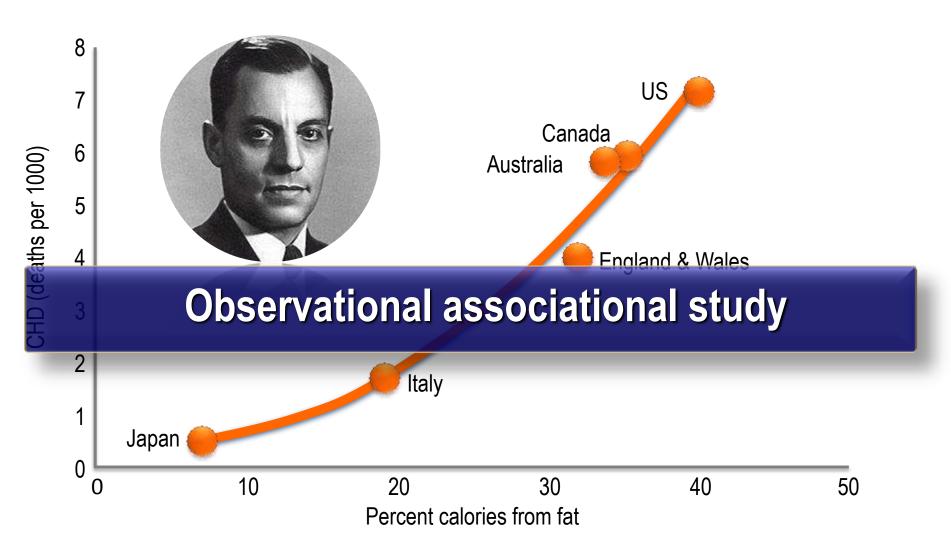
WITH A FOREV

BF

W

The clear evidence is that ill-health (obesity/diabetes/heart disease/certain cancers) appear in pre-industrial communities immediately after the introduction of sugar, white flour and other refined carbohydrates. There is no proven link to any sudden increase in habitual fat intake.

ANCEL KEYS (1904-2004)



Keys A. Atherosclerosis: a problem in newer public health. J Mt Sinai Hosp N Y 1953; 20: 118-139.

95th Congress 1st Session

DIETARY GOALS FOR THE UNITED STATES

PREPARED BY THE STAFF OF THE SELECT COMMITTEE ON NUTRITION AND HUMAN NEEDS UNITED STATES SENATE

FEBRUARY 1977

Committee's National Nutritional Policy hearings, June 1974, appears in National Nutrition Policy Study, 1974, Pt. 6, June 21, 1974, heart disease, p. 2633; high blood pressure, p. 2529, diabetes, p. 2523.

U.S. DIETARY GOALS

1. Increase carbohydrate consumption to account for 55 to 60 percent of the energy (caloric) intake.

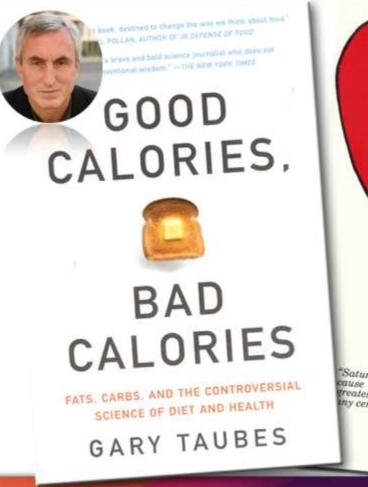
2. Reduce overall fat consumption from approximately 40 to 30 percent energy intake.

3. Reduce saturated fat consumption to account for about 10 percent

2. Reduce overall fat consumption from approximately 40 to 30 percent energy intake.

> rad 15 percent of total emergy intake 4. Reduce salt consumption by about approximately 3 grams a day. The Goals Suggest the Following Changes in Food Selection and Presaration Increase consumption of truits and vegetables and whole grains. 2. Decrease consumption of meat and increase consumption of positivy and flah. 3. Decrease consumption of foods high in fat and partially substitute

poly-unsaturated fail for saturated fail.



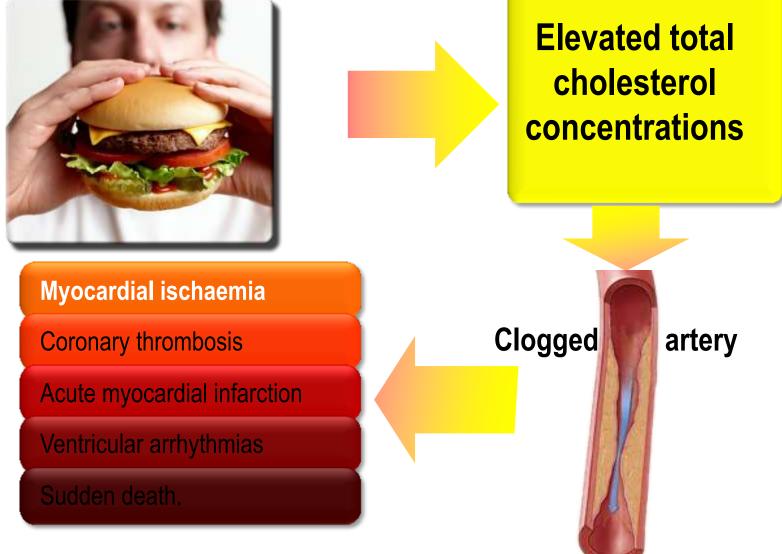
The Cholesterol Conspiracy

Russell L. Smith, Ph.D. in consultation with Edward R. Pinckney, M.D.

"Saturated fat and cholesterol in the diet are not the cause of coronary heart disease. That myth is the greatest scientific deception of this century, perhaps of my century,"

George V. Mann, M.D.

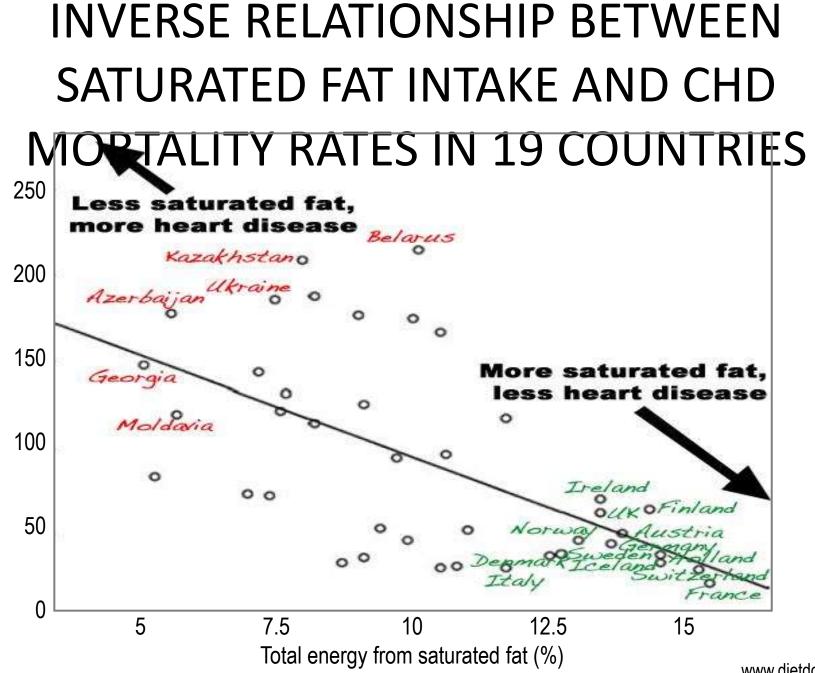
THE DIET HEART MODEL OF CORONARY ATHEROSCLEROSIS



UNITED STATES SENATE SELECT COMMITTEE ON NUTRITION AND HUMAN NEEDS (1968-1977)

- Reduce consumption of fat
- Switch from saturated fat to vegetable fats
- Reduce cholesterol to 1 egg per day
- Eat more carbohydrate, especially grains

The McGovern Report was written by a junior staffer, Nick Mottern, a vegan, who had no training in the nutritional sciences.



Male age-standardised CHD deaths per 100 000

www.dietdoctor.com

THE WALL STREET JOURNAL. $\equiv |$ LIFE & CULTURE





THE SATURDAY ESSAY

The Questionable Link Between Saturated Fat and Heart Disease

Are butter, cheese and steak really bad for you? The dubious science behind the anti-fat crusade





Granulated Sugar

Naturally Fat Free

SERVING SUGGESTION

NET WT 4 LB (1.81kg)

APPROX

9

No Added Sugar



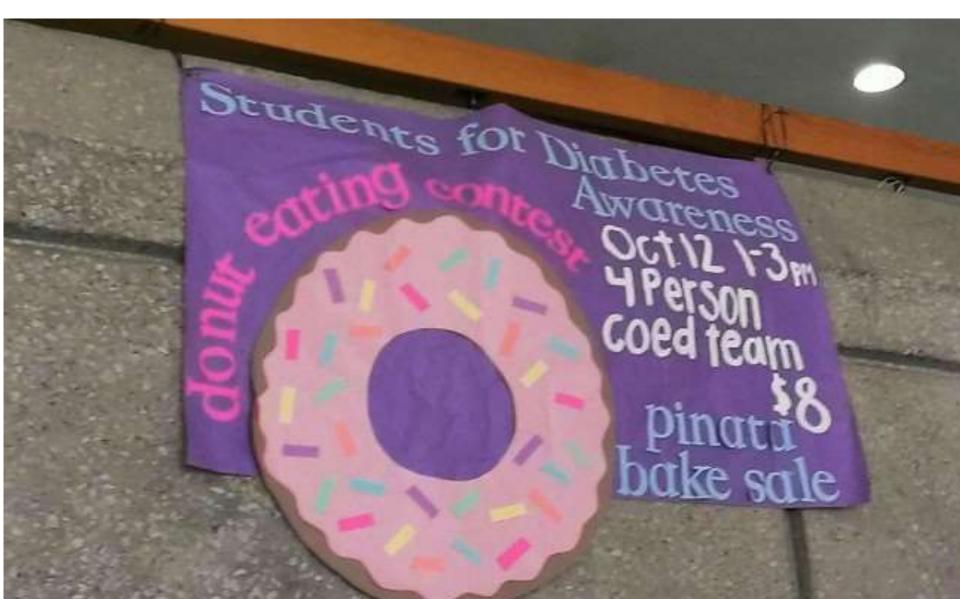
Snackwell Nutrition Label- No Fat

~	
Amount Per Ser	ving
Calories 50	Calories from Fat 0
	% Daily Value*
Total Fat Og	0%
Saturated Fa	at Og 0%
Trans Fat 0g	
Polyunsatura	ated Fat Og

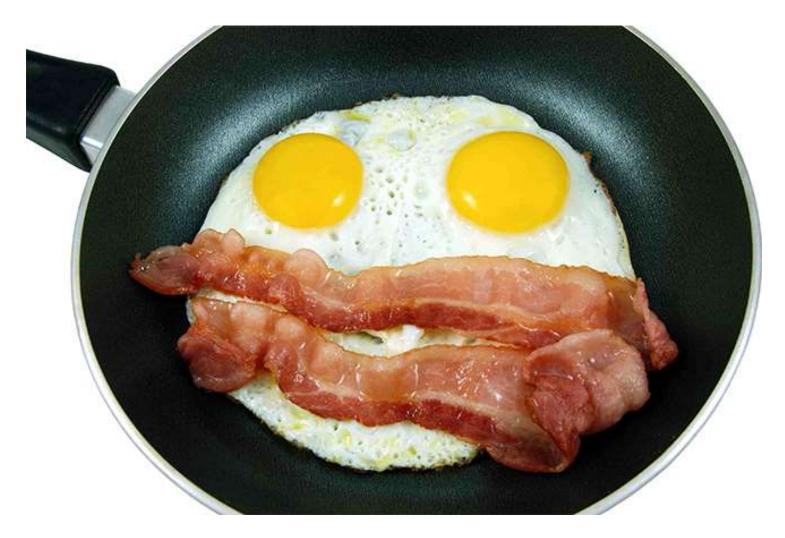
T.C. Hale Math Test 1.Bob has 36 candy bars. He eats 29. What does he have now? Diabetes Bob has diabetes.

2.Two trains left Kalamazoo, one heading

I Did Not Make This Up



Maybe this is what we should be eating more of



Maybe They Are Right





Is this better than Butter?



True or False?

Low fat milk is a **healthy choice** for you and your family.

Obesity is NOT the Disease



THE METABOLIC SYNDROME



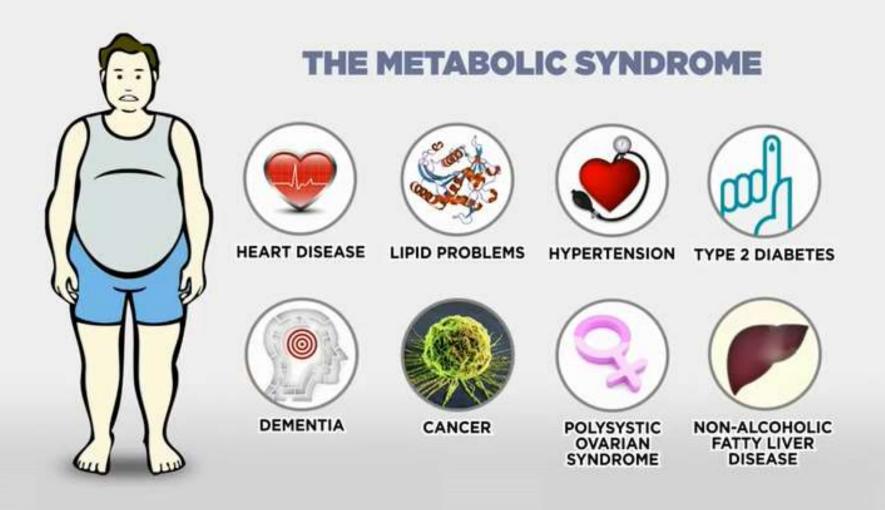


LIPID PROBLEMS

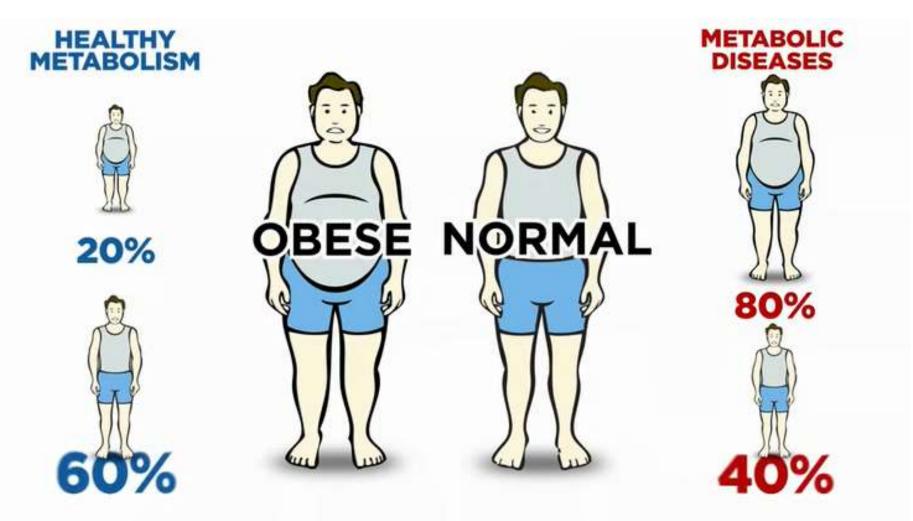
HYPERTENSION

TYPE 2 DIABETES

More than Just the Big 4



Obese can be Metabolically Well Many Non Obese are Sick 60% Adult Population now Sick



Well We Have Medicines for This Stuff

COST OF METABOLIC SYNDROME





HEART DISEASE



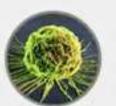
LIPID PROBLEMS



S HYPERTENSION



NON-ALCOHOLIC FATTY LIVER DISEASE



CANCER



POLYSYSTIC OVARIAN SYNDROME

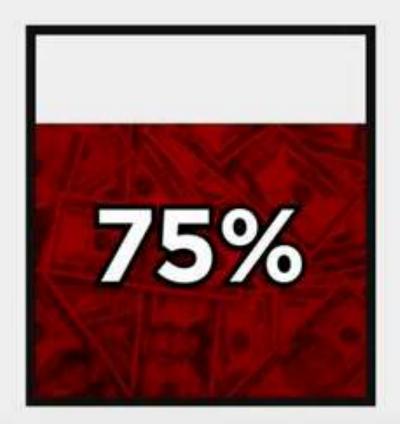


DEMENTIA



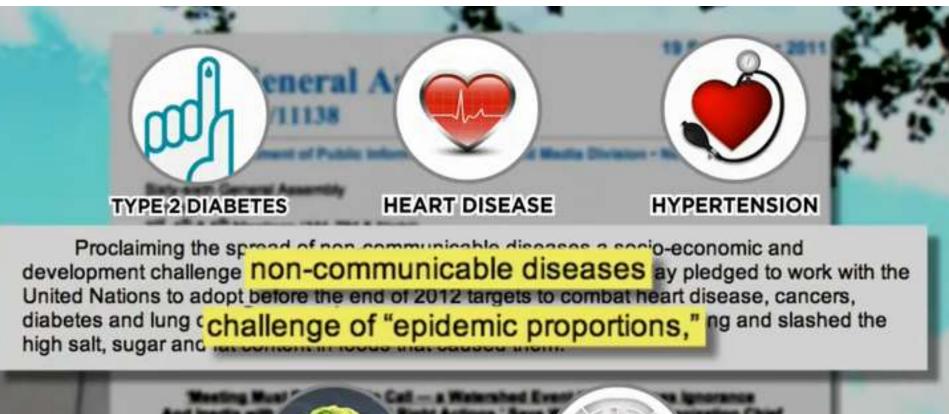


COST OF METABOLIC SYNDROME



GLOBAL HEALTH CARE COSTS

Obesity bigger problem in developing world than infectious disease





WORLD SUGAR CONSUMPTION 1985-2010

160 MILLION TONS

98 MILLION TONS





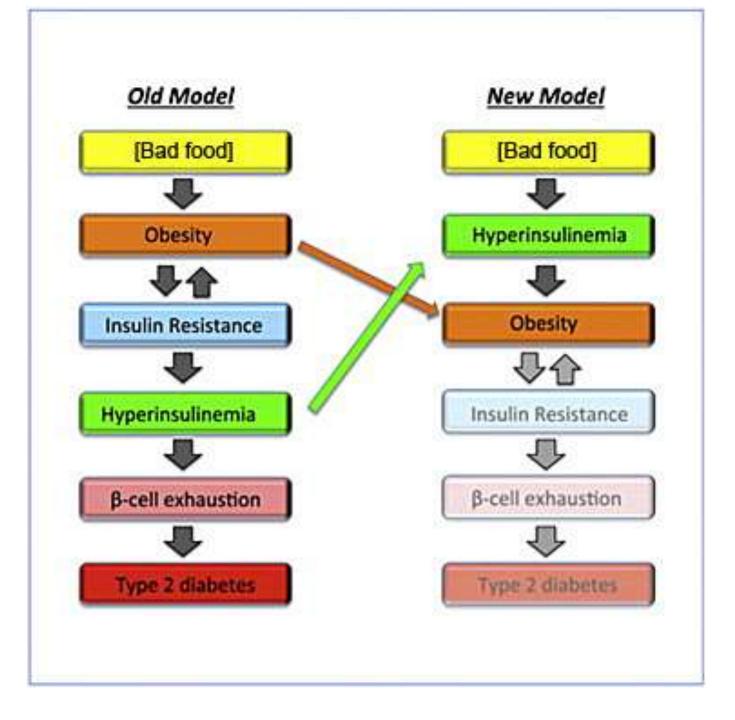
GLOBAL DIABETES PREVALANCE 1985-2010

346 MILLION PEOPLE

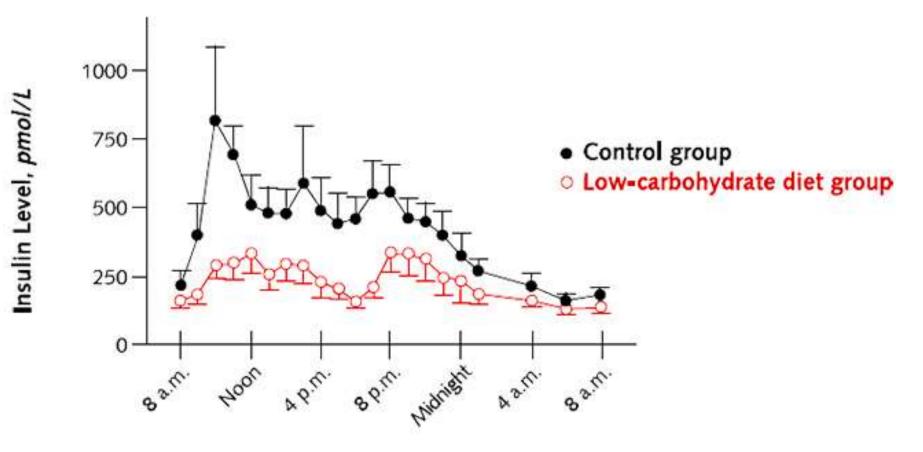
30 MILLION PEOPLE







Less Carbs...Less Insulin



Lots of Carbs....Lots of Insulin

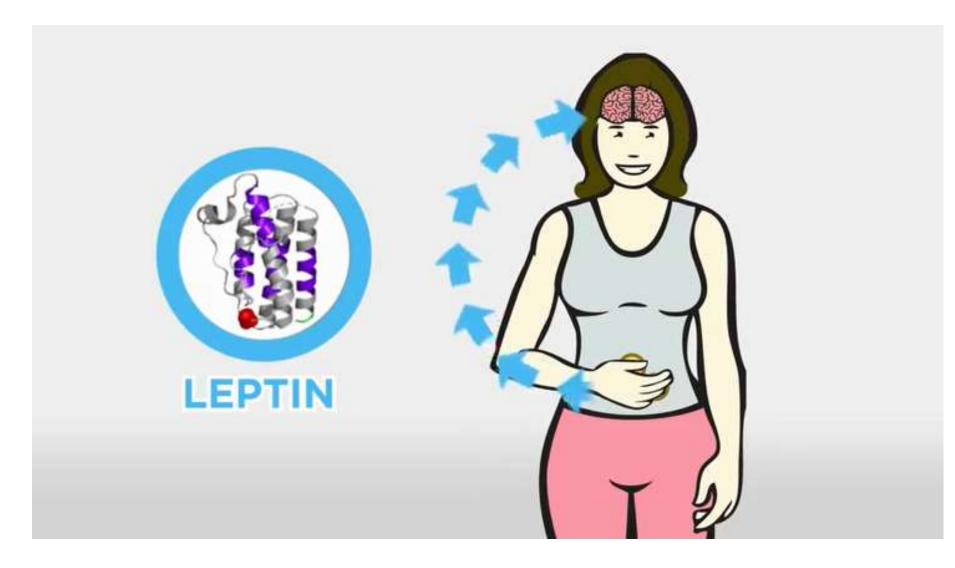


30 grams of Carbs

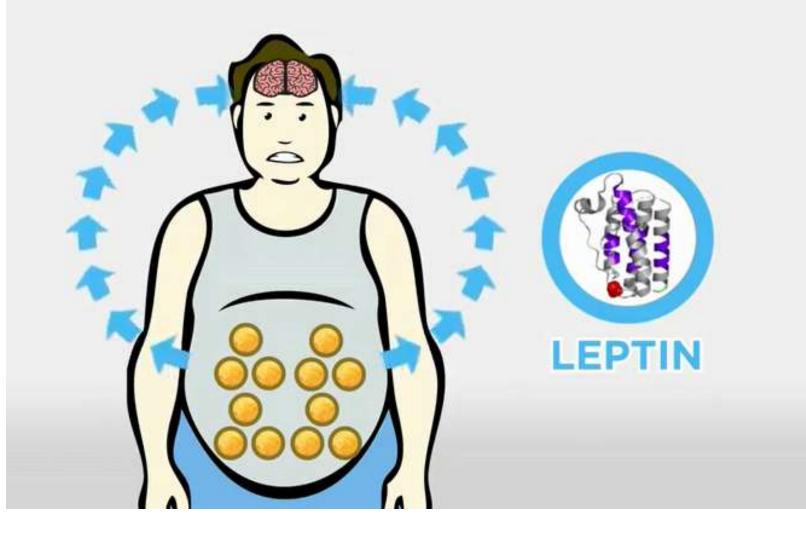




Leptin Made Simple



Fat Produces Leptin Leptin sends signals to cease eating and storing and start moving

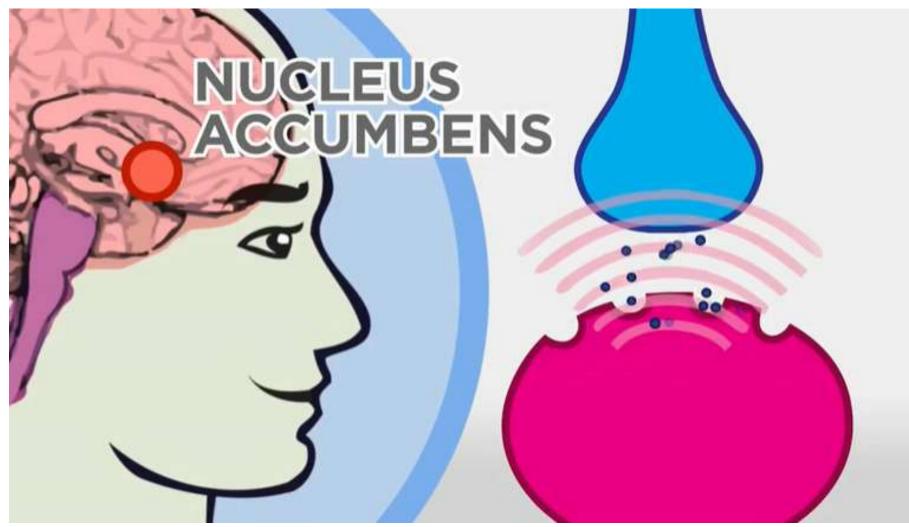


Why is Leptin not Doing its Job-Insulin

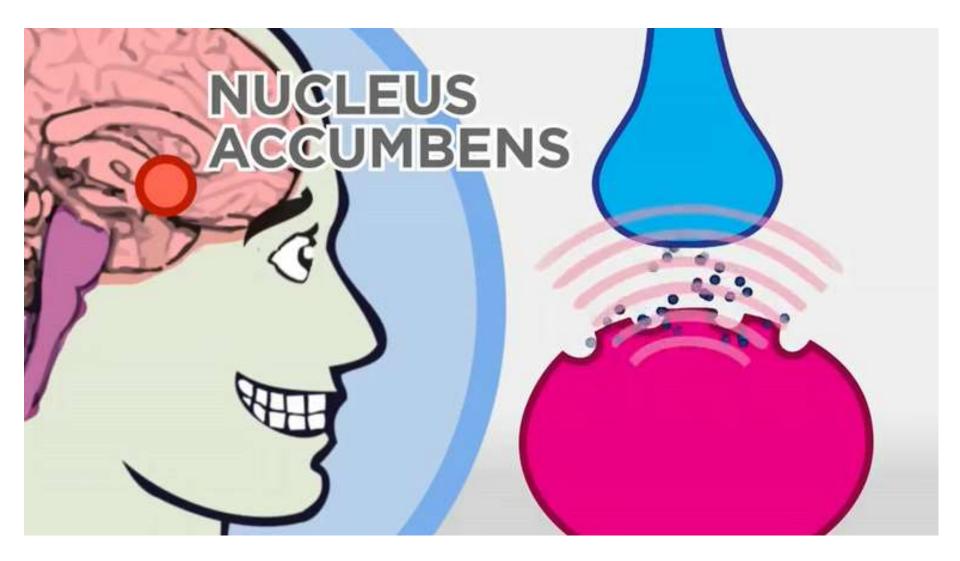




A Little about Dopamine and Happiness



More Dopamine....More Happy



Dopamine Centers Light Up



Is this stuff safe? Does it trigger sweet cravings later?



Recipe for Disaster



Mmm...Donuts!



