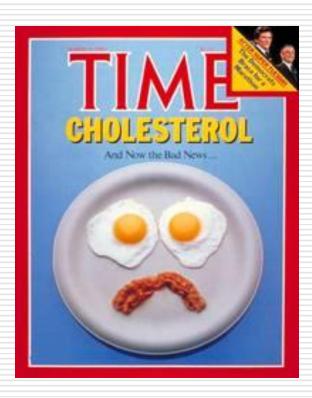




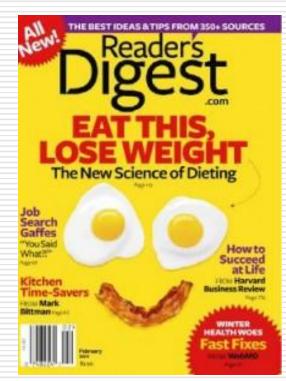
Thanks for supporting clean fresh Raw Milk and the farmers who produce it.



The Shift Is Coming





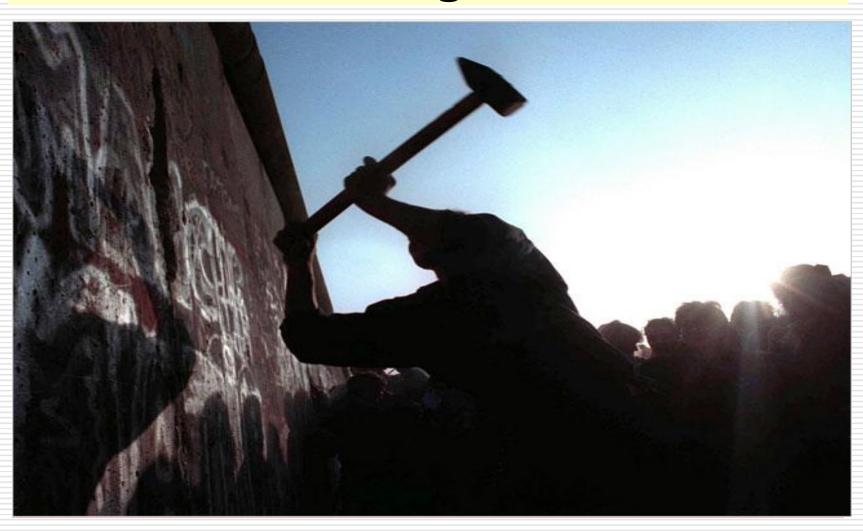


Back to High Fat

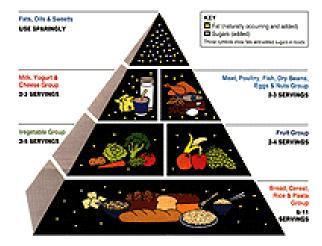




2015: The Low Fat Wall is Coming Down!



Record levels of chronic disease associated with Low Fat (1961-2010)







CDC: 1 in 3 children born since the year 2000 will become diabetic...







low fat = a swamped canoe...

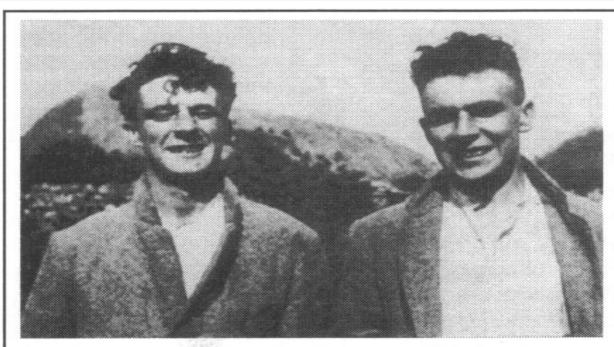


U.S. 37th In Life Expectancy



- 75 million are diabetic or prediabetic
- Heart Failure has doubled since Statin drugs were approved in 1987

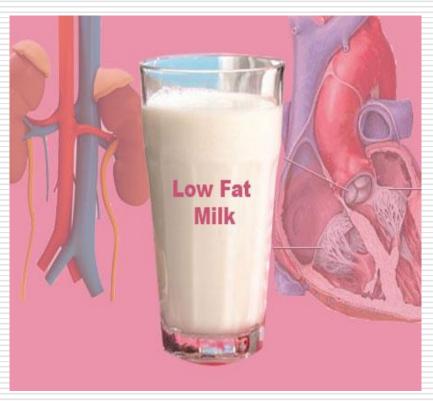
Modern vs Traditional food

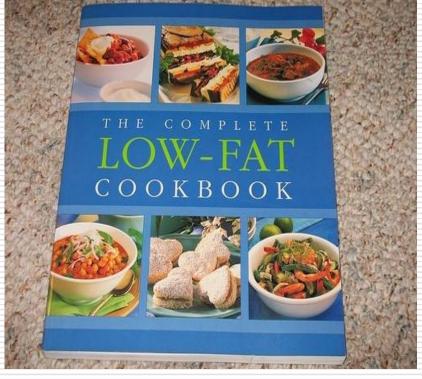


Brothers, Isle of Harris. The younger at left used modern food and had rampart tooth decay. Brother at right used native food and had excellent teeth. Note narrowed face and arch of younger brother.

(Photo and caption reprinted from Price, 1938)

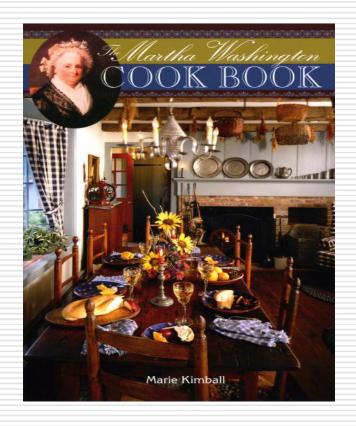
Where did Low Fat = Good Health come from?





The traditional American Diet

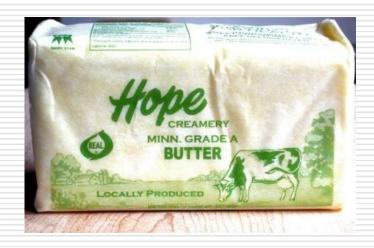




Raw Dairy was King – the largest employer in MN



☐ In the early **1900s**,
Steele County had **26**creameries – the most
per square mile
anywhere in the world!



Great Local Butter – from the Sebeka Cooperative Creamery





Between 1908-1939, the Sebeka Creamery produced 27 million pounds of butter from unpasteurized milk!

Fourth-Generation Wrigley Reinvents Company

Long-Lasting Wrigley



William Wrigley Jr., president until 1925



Getty Images (advertisement, portrait); Wrigley (twins)

Philip Wrigley, 1925 to 1961



CORBIS (portrait)

William Wrigley, 1961 to 1999



William Wrigley Jr., 1999 to present

1872: At age 11. William Wrigley Jr. runs away from home in Philadelphia to sell newspapers in New York. He sleeps underneath wagons on the street.

1891: William moves to Chicago to sell soap. He later switches to baking powder. To entice shop-keepers, he gives away two packages of chewing gum with each can of baking powder.

1893: Wrigley launches two popular brands. Spearmint and Juicy Fruit gum.

1920: Company sells 9 billion sticks of chewing gum annually. Wrigley breaks ground on a headquarters and becomes the first to build an officer tower on the north side of the Chicago River, an area that later becomes Chicago's Magnificent Mile.

1939: Debut of the Doublemint Twins: company sponsored radio programs feature double piano players

1944: Philip takes Spearmint, Doublemint and Juicy Fruit off the civilian market amid wartime rationing.

1984: Wrigley introduces Extra sugarless gum, which later becomes a major brand.

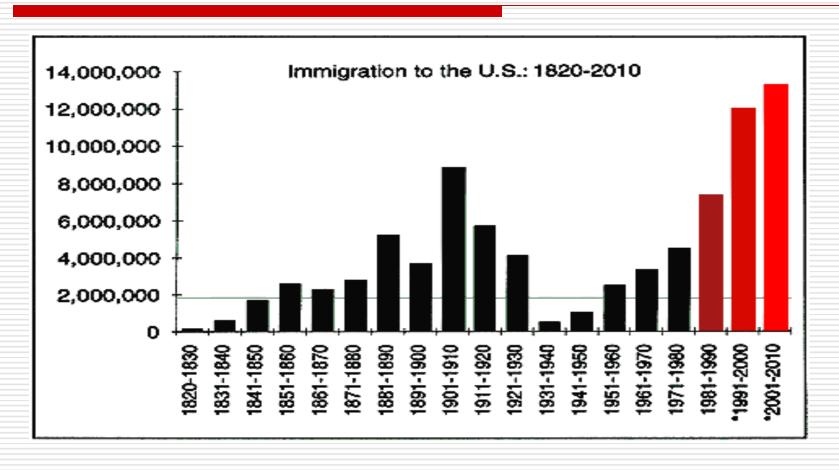
2002: Wrigley nears a \$12.5 billion deal to buy Hershey Foods Corp... but the deal falls apart.

2004: Wrigley buys Altoids, Life Savers and other candy brands from Kraft Foods Inc.

2005: Wrigley opens \$45 million global innovation center in Chicago and launches 72 new products.

Source: Company archives; American Magazine

Immigration to the U.S.



population growth in the big cities

1850

- 23 million people
- 64 percent on a farm



<u> 1920</u>

- 106 million people
- 33 percent on a farm

2010: 300 million people; less than 2 percent live on the farm

"The Distillery Dairy Milk Problem" Solution: Pasteurization

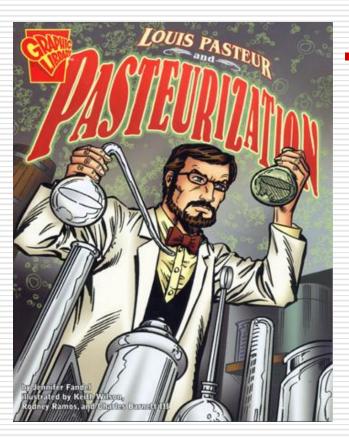


A diseased cow, unable to stand, is pulled up to be milked. Distilleries kept a stable of such animals, fed them mash and whiskey slops. The milk made bables tipsy and often sick.

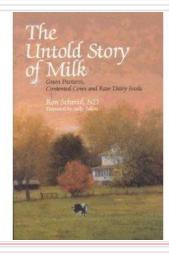


1910 – the yearly death rate of infants in cities was 50 percent of the birth rate.

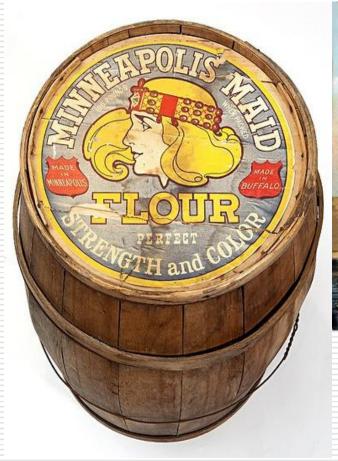
Pasteurize & Profit

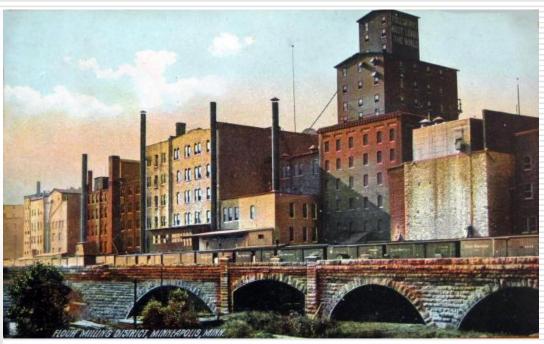


"Pasteur's mechanistic understanding of disease ... placed the mandate to cure squarely in the hands of the medical professionals..."



Flour Milling Capital of the World





1880 to 1930



IN THIS ISSUE—Food Fads May Cause Disease and Death—White Bread Essential to Diet—Child Needs to Play Out Doors in Sun—Tuberculosis Gains in Large Cities—Graceful Way Indicates Well-Balanced Body—Much Stomach Trouble Due to Teeth—How Various Ki of Bread are Made—Teach Infants Early to Eat Bread and Cereals.

MINNESOTA PUBLIC HEALTH ASSOCIATION

SUPPORTED BY THE SALE OF CHRISTMAS SEALS

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PRESIDENT, UNIVERSITY OF MINNESOTA

Gentlemen:

The Minnesota Public Health Association carries on a continuous campaign for pasteurized milk because it believes this process is of vital importance in the protection of health. It safeguards against the milk-borne epidemies of disease.

Perfectly pasteurized milk, as a safe milk, has played an important part in the high health rate Minnesota has and is now enjoying.

We advocate the increased use of safe milk as we believe it to be the best health-building food available and should be included in the diet of adults as well as children.

Very truly yours,

E.G. Mayerding

E. A. Meyerding, M. D. Executive Secretary
Minnesota Public Health Assn.

Eat More Bread

for Health Strength and Beauty

All through this magazine you will find reasons whybut the best one, after you have tasted ours, will be

Because You Like It!



Ask Your Dealer for

Taystee (32 Slices) 11/2 lb.

Purity

Toast



Purity Baking Co.

Taystee (22 Slices) 1 lb.

Purity Cakes

White Bread Essential In Diet, say Doctors

PRESENT - DAY food fads constitute a menace to the health of the people and the economic condition of the country.

This fact was brought out in a resolution passed recently at Minneapolis by the Hennepin County Medical Society, which warns of the dangers in extremes in diets, condemns the exaggerated health claims made by advertisers for various food fads and urges a return to the older staple foods.

Changes in the normal, common-sense diet properly trained person

after a careful study of the needs of the individual, the resolution states. So much valuable information is contained in this resolution signed by Dr. N. O. Pearce, president, and Dr. Earling W. Hansen, secretary, that we print it in full:

"We, the members of the Hennepin County Medical Society, go on record decrying the fads which prevail in our land today, and especially the

food fads which tend to foist on the public high-priced patented foods, which are often misrepresented by their elaborate methods of advertising. The substitution of these highlypriced, patented foods not only very often has become a detriment to the health of the consumer but also has become the source for an alarming economic condition, due to the great decrease in the consumption of wheat, meat and other



should be made only For a picnic lunch nothing is more healthful and appetizing when prescribed by a than delicious sandwiches and pure pasteurized milk.

products of the farm. "Very few of these fad foods can take the place of the older staple foods; namely, good meat, dairy products, green vegetables, fruits and the better grades of bread prepared from white flour. The present-day indiscriminate substitution of an excess of rough foods, such as flours containing bran and the irritating vegetables, is producing a great deal of unnecessary discomfort and chronic dispepsia, and has reached proportions of a distinct health menace. The similar tendency to eliminate animal proteins from the diet may also

become a menace to the public health.

"Any balanced diet should contain some animal protein, fruits, vegetables, especially the leafy vegetables, for their vitamin and mineral salt content, digestible fat, such as butterfat, and sufficient easily digestible carbohydrates to afford readily available energy.

"Carbohydrates, including sugars and starches,

but especially starches, furnish the American public their main fuel for energy, the quantity varying with the amount of physical activities which the individual expends. Much of the starch should be supplied by the most available and easily digestible foodstuffs, of which white flour is the best example, as bread, if baked sufficiently to break up the raw starch granules.

'Starch furnished by too (Continued on Page 14)

The Northwestern HEALTH JOURNAL

for June, 1929
VOLUME FOURTEEN, NUMBER SIX

The Oiling of America...100 years!



Crisco-Better than butter for cooking



INGREDIENTS: WATER, VEGETABLE MONO AND DIGLY-CERIDES*, RICE STARCH, SALT, GELATIN, LACTOSE (MILK), VEGETABLE DATEM*, COLORING, (POTASSIUM SORBATE, CALCIUM DISODIUM EDTA) USED TO PROTECT QUALITY, SOY LECITHIN, LACTIC ACID, NATURAL AND ARTIFICIAL FLAVORS, VITAMIN E, CYANOCOBALAMIN (VITAMIN B12), PYRIDOXINE HYDROCHLORIDE (VITAMIN B6), VITAMIN A PALMITATE, BETA CAROTENE (FOR COLOR). *ADDS A NEGLIGIBLE AMOUNT OF FAT

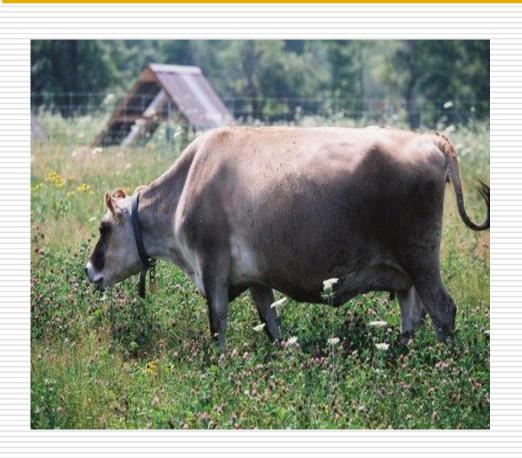
Trans-fat and all - Crisco won the marketing battle against lard



By 2000, soybean oil and hydrogenated soybean oil had 70 percent of the market.

Crisco-The One and Onlygives you Digestible fried foods!

Butter Consumption steadily declined



1910:

18-20 lbs

2000: <4 lbs

WW II accelerated change



Creamery workers

went to war – replacements made tainted milk.

Margarine (imitation butter) came into widespread use.

Small farms, creameries, and trains disappeared.

1950s farmland disappeared...



Heart Night at the Copacabana

1949 - AHA began fingering America's traditional foods as the cause of heart disease



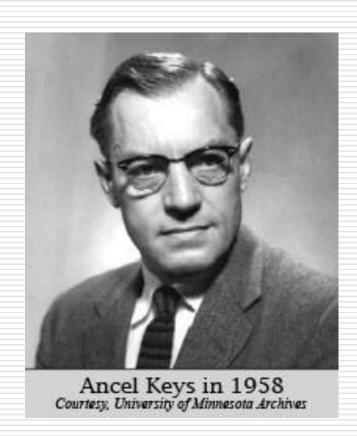
A steady increase in reported cases of heart disease







AHA board member – "father of the low fat diet"



Relentless promoter of the low fat diet

1953: Key's Six Country Analysis Selecting 6 of 21 countries

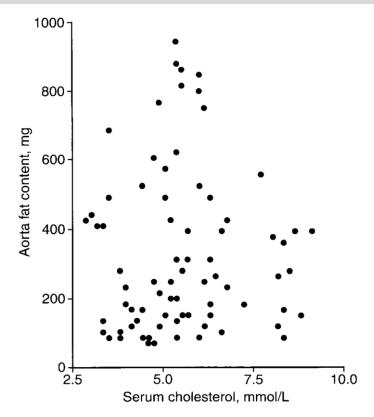
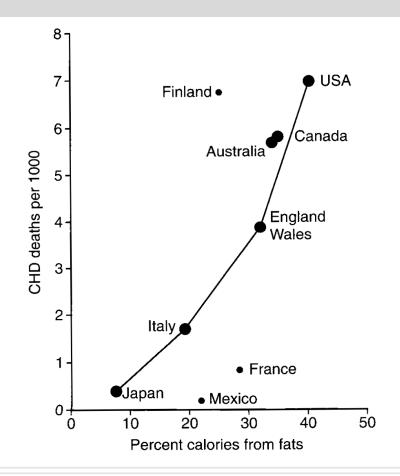


Figure 4 Blood cholesterol and atherosclerosis9



Associations Keys ignored:

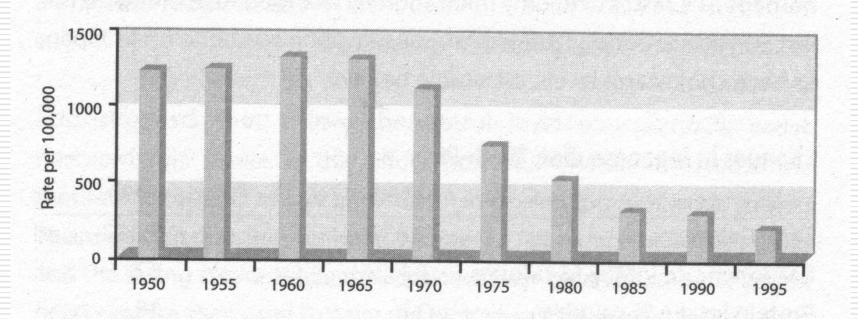


- Fewer <u>calories</u>
- Much less <u>sugar</u> and <u>refined</u> foods
- Suffered more <u>deadly</u> strokes than we did....

Strokes: #1 killer in Japan

THE GREAT CHOLESTEROL CON

Fig. 21 Death rates from stroke in Japanese men (aged 60-69), 1950-95

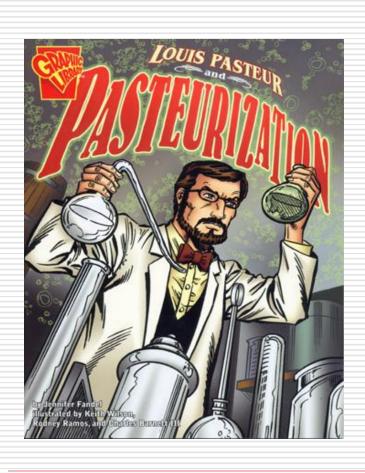


Changes in the Japanese diet after the war:

	<u>1958</u>	<u>1999</u>
Carb %	84	62
Protein	11	18
Fat	5	20
Calories	2,837	2,202

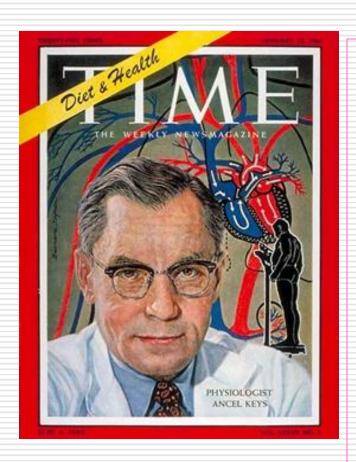
Association is not the same as... cause and effect

Science Gone Awry Self-Promotion – Data Selection





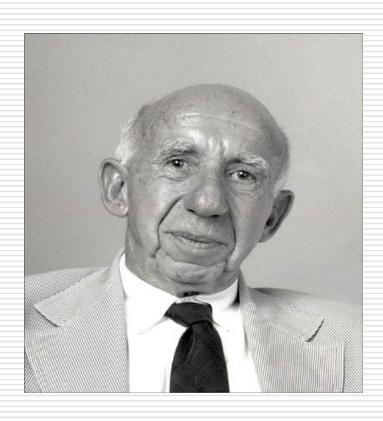
1961: American Heart Association adopts Keys' low fat diet

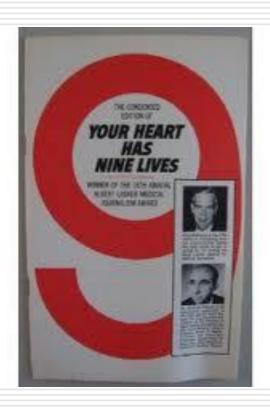


- Emphasize carbohydrates
 - Replacesaturated fatwith poly fat

Who funded AHA board member Jeremiah Stamler's book on heart disease?

and ?





Mazola and Fleischmann's

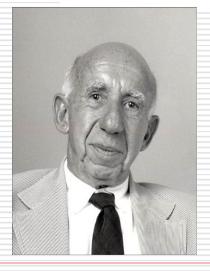
1961: Mazola Corn Oil and Fleischmann's paid for a saturated fat <u>risk</u> handbook distributed free to all U.S. physicians by the AHA.



1970s: "Saturated Fat is the **Greasy Killer**"

- Michael Jacobson's
 Center for Science in
 the Public Interest
- Dr. Stamler is a board member
- Anti-Saturated Fat Attack

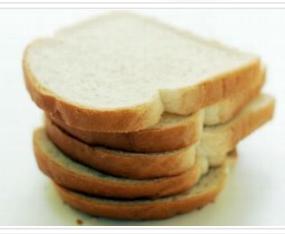


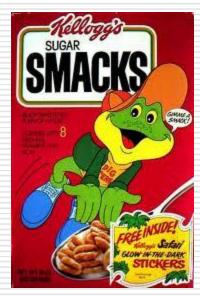




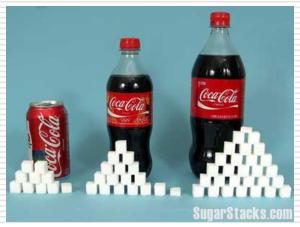
By the 1970s, the *Foods of Mass Destruction* were well established







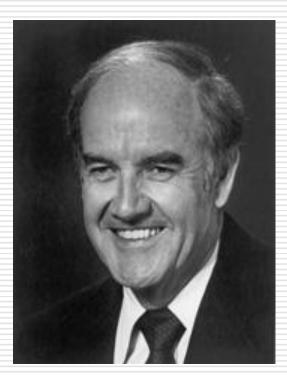




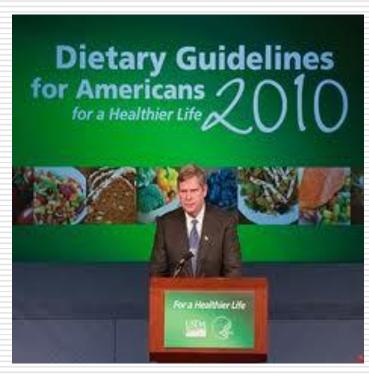
"Saturated fat and cholesterol are to blame!"

- 1. Heart disease
- 2. Obesity
- 3. Diabetes
- 4. Cancer

1980-2010: "Low Fat" Dietary Guidelines for Americans





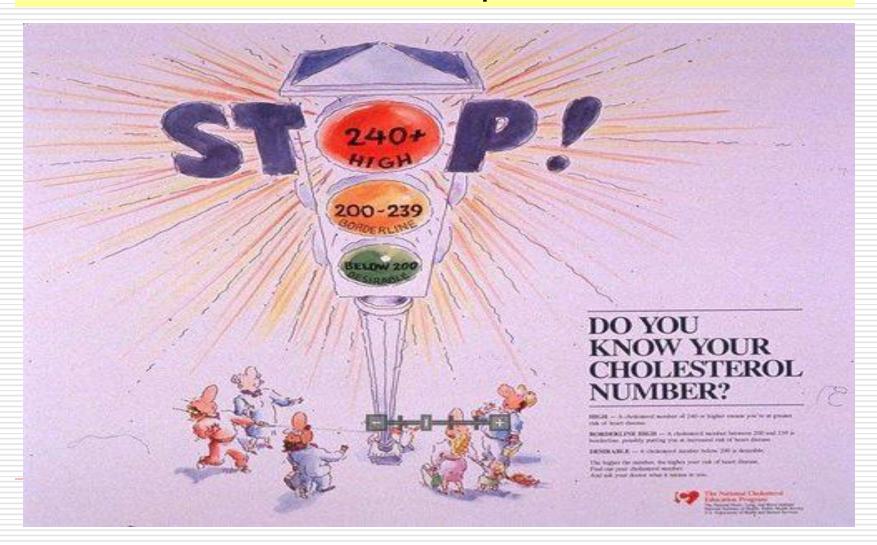


McGovern Committee: 1978: Low Fat Diet

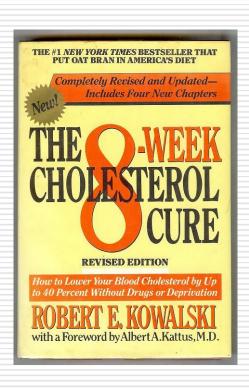
"There are no risks that can be identified and important benefits can be expected..."

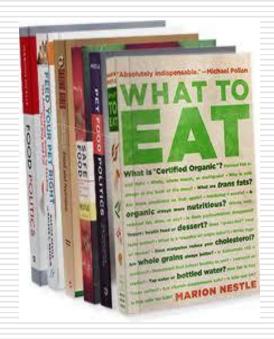
National Cholesterol Education Program

1985 to the present



Decades of confusion...







Has low fat failed the test of time?

300 million people - **25 percent** are diabetic or pre-diabetic - listening to the experts – fearing healthy saturated fat – afraid of cholesterol – and faced with "**Disease Management**" costs in the **trillions of dollars...**

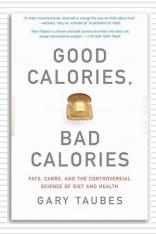
Yes, says Gary Taubes, "It was a big fat lie!"

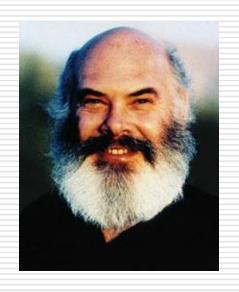




Dr. Andrew Weil on Taubes' Good Calories, Bad Calories

"I think this is a very important book. I have been recommending it to my medical colleagues and students...."



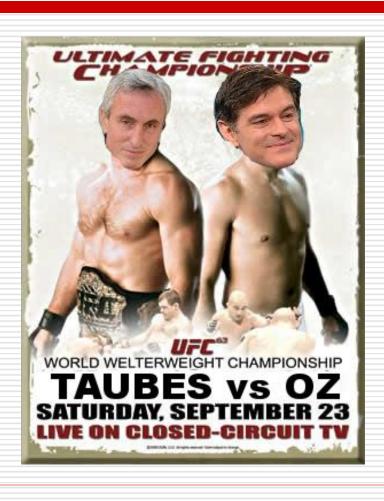


No says Dr. Oz! – saturated fat is dangerous!





And the winner isTAUBES!



Low Risk for CHD

• Glucose: 86

HDL: 68

• **TG**: 64

TG:HDL Ratio = 1

VLDL: 19

 LDL large fluffy Pattern A

• **CRP**: 0.72

"Yes," says Dr. Eric Westman, Duke University, "Atkins was right"



- "My understanding of how things are shifting:
- We should be talking about blood sugar and insulin..."

Carbohydrates are the problem

zero biological requirement

raise blood sugar - fat does not

Since 1980: 400+ Calories

Sugar, HFCS, White Bread, bagels, Donuts, muffins, pasta, Extruded dry boxed cereal, Soft drinks, skim milk, smoothies, & fruit juices

SUGAR: Damaging Calorie

- White sugar (sucrose) =
- 50 percent glucose; 50 percent fructose

- High Fructose Corn Syrup =
- 55 percent fructose; 45 percent glucose.

Fatty Liver Traffic Jam

 Glucose goes into the blood and raises blood sugar

 Fructose goes to the liver and is turned into body-made-fat: Triglycerides

Triglycerides go up – protective **HDL** goes down





How long have we known this? Since 1955!

- John Gofman (Berkeley) reported that excess carbohydrates cause the liver to overproduce triglycerides (TG), which, in turn, reduces HDL.
- "The majority of people with heart disease have carbohydrate-induced lipemia!"

Is a calorie, a calorie, a calorie?

No - There are major metabolic differences in their effects!

Conclusion

Emphasize fat, you will burn fat and improve your lipid profile.

Emphasize carbs, you will make, store and lockup fat and set the stage for dietrelated heart disease.

Obesity

☐ Is a metabolic disturbance in fat regulation

□ Brought on by consuming excess carbohydrates

Diabetes and Heart Disease

- □ Reflect the quality of the calories not the quantity.
- And the percentage of refined, easily-digested carbohydrates in the diet.

Meeting One/Day 2/2010 DGAC

□ Dr. Eric Rimm: "I wanted to make a radical point, one for which I'll probably get kicked off the stage, but the whole issue of total fat and the 20 to 35 percent of calories from fat is one that has troubled me..."



Dr. Eric Rimm, Harvad University

"Cholesterol in food has no affect on cholesterol in the blood and we've known that all along...."



Dr. Ancel Keys, in retirement, 1997

Phillip Handler, Director, National Academy of Sciences, 1980

"What right has the federal government to propose that the American people conduct a vast nutritional experiment ... on the strength of so very little evidence that it will do them any good?"

Mr. Secretary, "tear down this **HIGH CARB** Wall!

