Summary

Traditional diets *maximized* nutrients while modern diets *minimize* nutrients

TRADITIONAL DIETS

Foods from fertile soil

Organ meats over muscle meats

Animal fats

Animals on pasture

Dairy products raw and/or fermented

Grains and legumes soaked/fermented

Bone broths

Unrefined sweeteners (honey, maple syrup)

Lacto-fermented vegetables

Lacto-fermented beverages

Unrefined salt

Natural vitamins in foods

Traditional Cooking

Traditional seeds/Open pollination

MODERN DIETS

Foods from depleted soil

Muscle meats, few organs

Vegetable oils

Animals in confinement

Dairy products pasteurized

Grains refined, extruded

MSG, artificial flavorings

Refined sweeteners

Canned vegetables

Modern soft drinks

Refined salt

Synthetic vitamins added

Microwave, Irradiation

Hybrid seeds, GMO seeds

Health, Beauty and Strength with Nourishing Traditional Diets

Part II

6. Seeds, grains, legumes & nuts are soaked, sprouted, fermented or naturally leavened

Deactivates ENZYME INHIBITORS (block digestion)

Neutralizes PHYTIC ACID (blocks mineral absorption)

Neutralizes TANNINS and LECTINS (irritants)

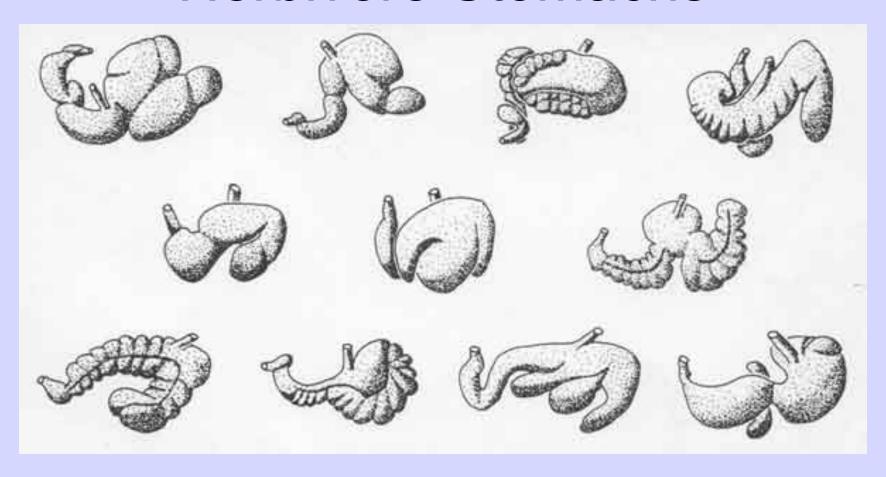
Pre-digests COMPLEX STARCHES & SUGARS (hard to digest)

Begins breakdown of GLUTEN (hard to digest; can be toxic)

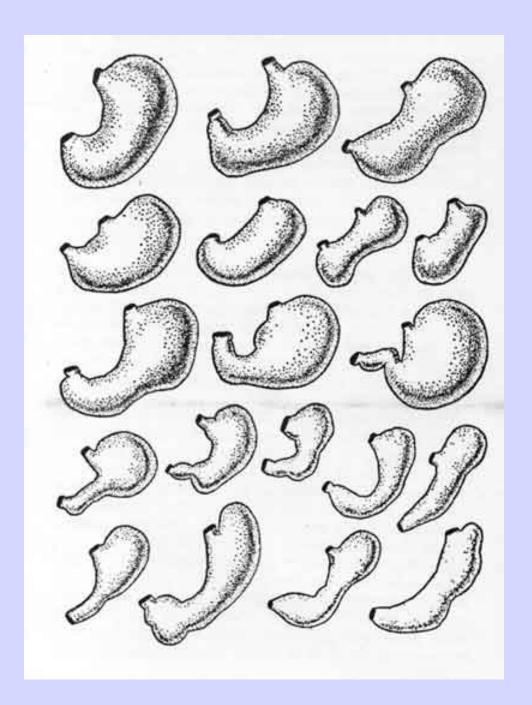
Begins breakdown of CELLULOSE (impossible to digest)

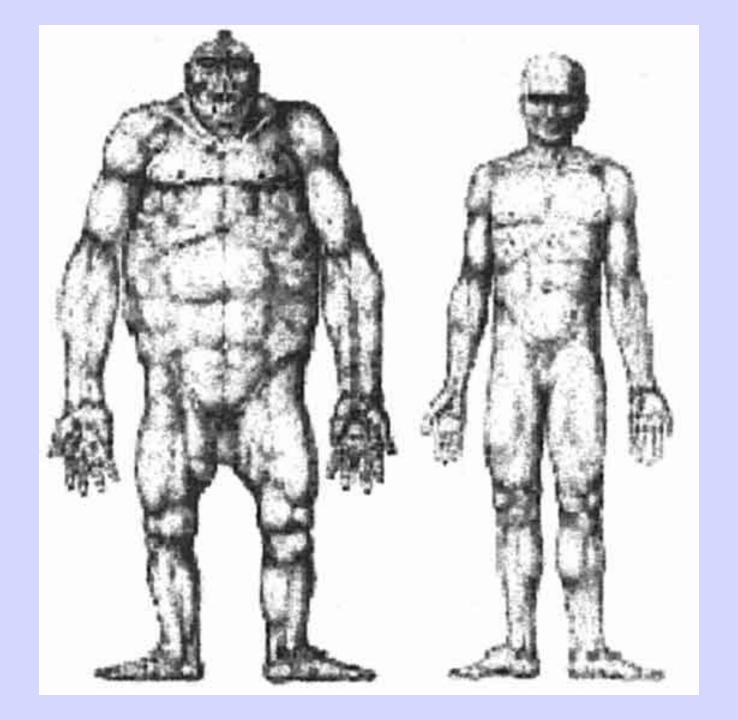
Proper preparation makes seed foods more digestible and their nutrients more available.

Herbivore Stomachs



Human Stomachs





Proper Preparation of Seed Foods

Imitates natural factors that neutralize the seed's "preservatives" and allow it to sprout:

Moisture

Warmth

Slight Acidity

Time



Problems with Soy Foods

PHYTIC ACID: Blocks absorption of calcium, magnesium, iron, copper and especially zinc.

PROTEASE INHIBITORS: Block protein digestion, cause swelling of pancreas.

ISOFLAVONES: Block thyroid function and cause endocrine disruption. Lower cholesterol

LECTINS: Irritating to the gastrointestinal tract.

MANGANESE: High levels can cause brain damage in infants

OXALATES: High levels can cause kidney stones.

Traditional & Modern Soy Foods

TRADITIONAL

MODERN

Miso Bac O Bits Hamburger Helper

Soy Sauce Soy Milk Soy Cheese

Tempeh Soy Yogurt Soy Ice Cream

Natto Soy Burgers Soy Hot Dogs

Tofu Diet Drinks Protein Drinks

Soy Milk Hamburgers Bread

Consumed in small "Health" bars (Zone, Balance, Atkins)

Tofu in cheesecake, dips, etc.

Isoflavone supplements

Modern Soy Foods are Imitation Foods!









Soy Foods in Asian Diets

JAPAN: Average soy consumption is about 30 g per day (2 tablespoons). 65% of calories in the Japanese diet come from fish.

CHINA: Average soy consumption is about 10 g per day (2 teaspoons). 65% of calories in the Chinese diet come from pork (meat and fat).

Soy Problems in Animals

Reproductive problems, infertility, thyroid disease and liver disease due to dietary intake of isoflavones (plant types of estrogens) have been observed for several species of animals including:

mice rats quail
cheetah sturgeon sheep
pigs marmoset monkeys

Soy Milk or Real Milk?



Synthetic Vitamin D

Emulsifiers

Refined Sweeteners

Phytoestrogens in Soy Milk:

45 mg per cup - a toxic dose! Twice daily average of Japanese

Other Anti-Nutrients in Soy Milk:

Phytic acid and enzyme inhibitors

Soy-Based Infant Formula

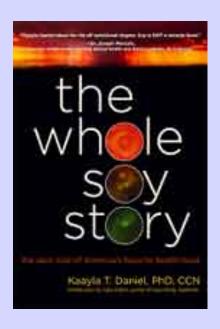


A recipe for disaster!

Baby receives daily dose of estrogens TEN times greater (as a function of body weight) than the level found in Asian diets. . .

... plus anti-nutrients and high levels of manganese, aluminum and fluoride.

Soy Danger Sources



The Whole Soy Story by Kaayla Daniel, PhD, CCN

Soy Alert! Section of westonaprice.org

Soy Alert! Flyer from the Weston A. Price Foundation

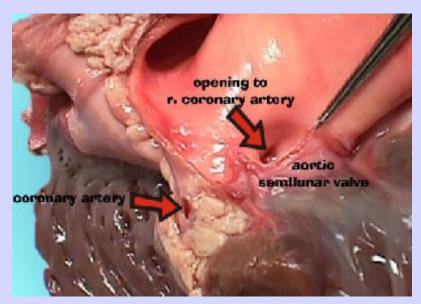
7. Total fat content of traditional diets varies from 30% to 80% of calories, but only about 4% of calories come from polyunsaturated fatty acids.

Longer-Chain Fatty Acids

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18 Carbon Fatty Acids Stearic Oleic Linoleic Linolenic

Arteries: The Good and the Pathological



Good artery - smooth, elastic and pink.

Saturated and monounsaturated fats do not react or harm arteries.



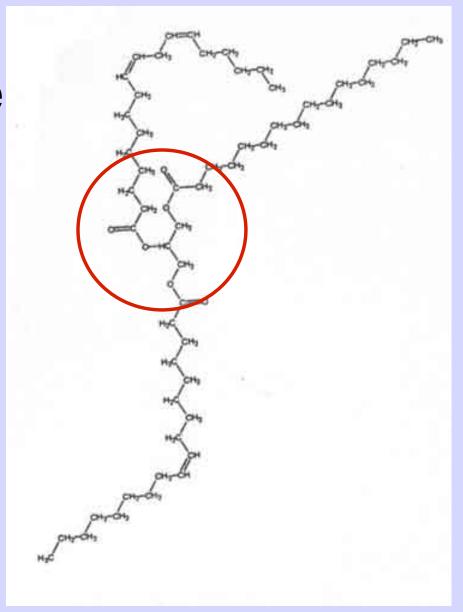
Damaged arteries - crusty and yellowish.

Damage caused by free radicals from rancid, processed vegetable oils!

Shorter-Chain Fatty Acids



Triglyceride



Who's Afraid of Saturated Fat?

Clogs arteries!

Causes Cancer!

Inflammation!



Makes you fat!

Bad for the liver!

Heart attack!

Don't worry, Lisa. None of this is true!

The Many Roles of Saturated Fat

CELL MEMBRANES – should be 50% saturated fatty acids.

BONES – Saturated fats help the body put calcium in the bones.

HEART DISEASE – Lower Lp(a), a marker for heart disease.

HEART FUNCTION – Saturated fats are preferred food for the heart.

LIVER – Saturated fats protect the liver from alcohol & other poisons.

LUNGS – Can't function without saturated fats.

KIDNEYS – Can't function without saturated fats.

IMMUNE SYSTEM – Enhanced by saturated fats.

ESSENTIAL FATTY ACIDS – Work together with saturated fats.

DETOXIFICATION – Supports body's detox mechanisms

The Many Roles of Short and Medium-Chain Fatty Acids

METABOLISM – Raise body temperature and give quick energy

WEIGHT LOSS – Never stored as fat; used for energy

IMMUNE SYSTEM – Stimulate the immune system

INTERCELLULAR COMMUNICATION – Help prevent cancer

ANTI-MICROBIAL – Kill pathogens including candida in the gut

Recent Studies on Fats

LOWFAT = FATTER CHILDREN: Swedish study; Children on lowfat diets were fatter, consumed more sugar and had higher insulin resistance.

(www.ub.gu.se/sok/dissdatabas/detaljvy.xml?id=6979).

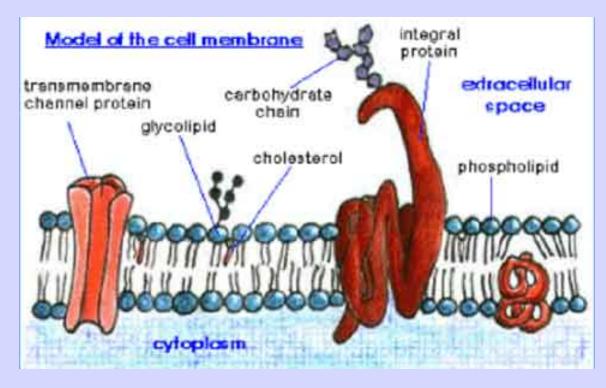
WHOLE FAT MILK = FERTILITY: Women drinking lowfat milk had fertility problems.

(Human Reproduction, online February 28, 2007).

WHOLE FAT MILK = LOWER WEIGHT GAIN: Swedish women using cheese and full fat dairy had lower weight gain as they grew older.

(American Journal of Clinical Nutrition, 2007;84(6):1481-1488).

Cell Membranes



Most of the fatty acids in the cell membrane need to be straight, saturated fatty acids, so they pack together "like logs" and give stability to the membrane. Small numbers of polyunsaturated fatty acids (always bent) are located close to the transport proteins to make transport channels through the lipid membranes.



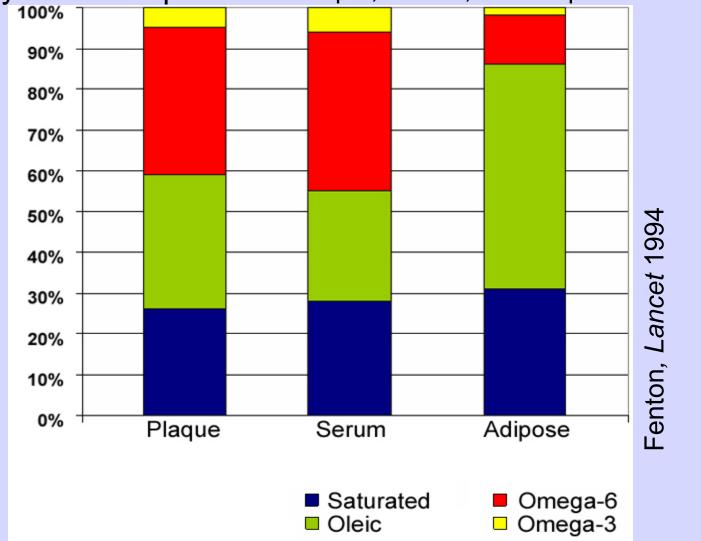
The Famous Framingham Heart Study

"In Framingham, Massachusetts, the more saturated fat one ate, the more cholesterol one ate, the more calories one ate, the lower people's serum cholesterol... we found that the people who ate the most cholesterol, ate the most saturated fat, ate the most calories weighed the least and were the most physically active."

William Castelli, Director The Framingham Study

Source: Archives of Internal Medicine 1992

Fatty Acid Composition: Plaque, Serum, and Adipose tissue



1965 Study on Fats

Patients who had already had a heart attack were divided into 3 groups:

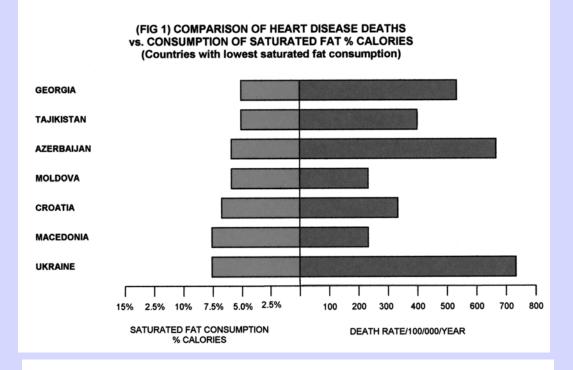
Polyunsaturated Corn Oil Monounsaturated Olive Oil Saturated Animal Fats

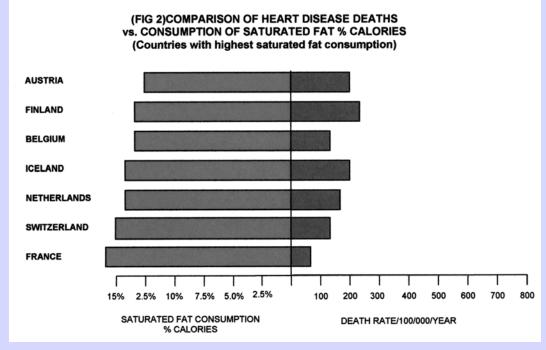
- Corn Oil Group had 30% lower cholesterol but only
 52% alive after 2 years
- 2. Olive Oil Group had 57% alive after 2 years
- 3. Animal Fat Group had 75% alive after 2 years

Source: British Medical Journal 1965 1:1531-33

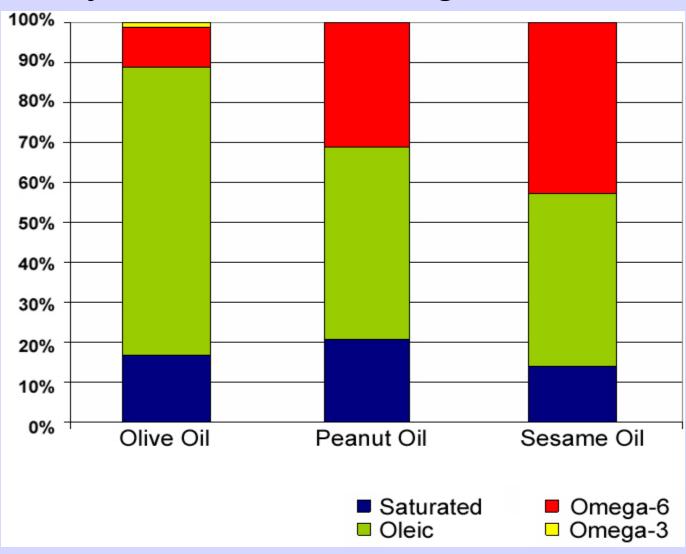
Saturated Fat and Heart Disease

Lower rates of heart disease are associated with higher levels of saturated fat in the diet.

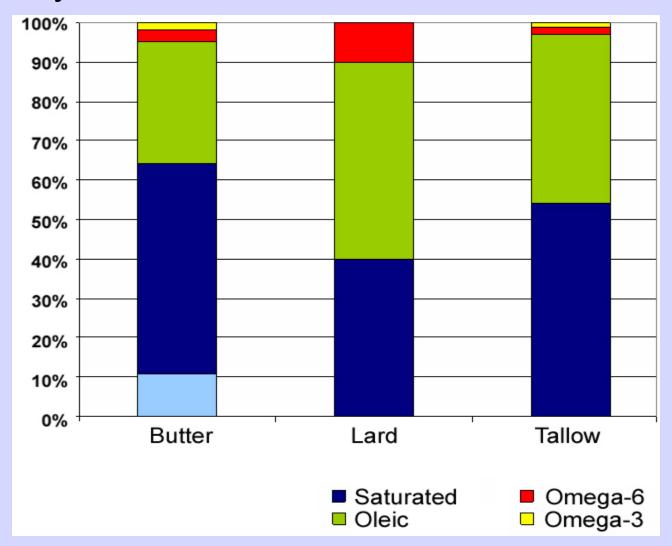




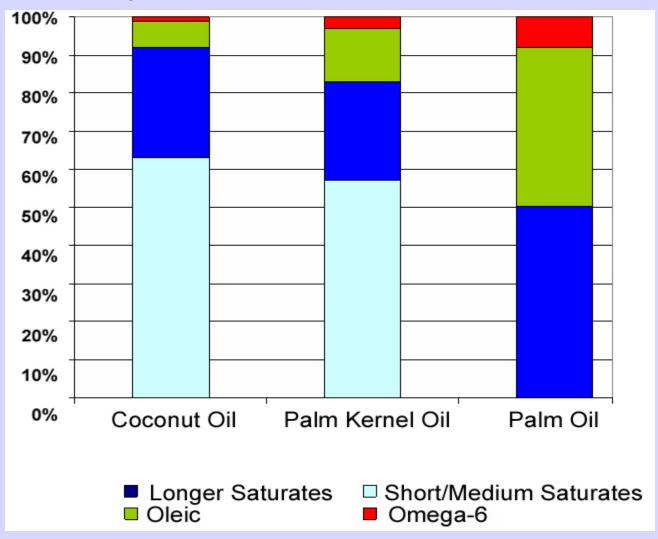
Fatty Acid Profile of High-Oleic Oils



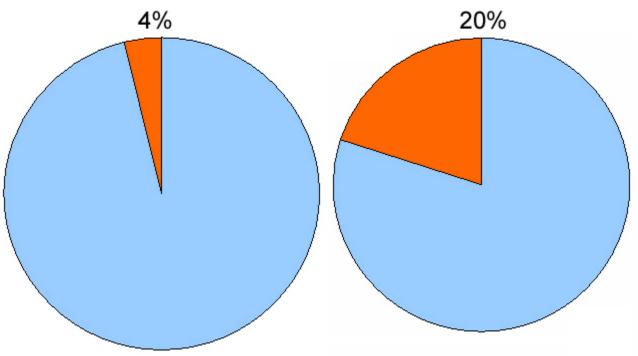
Fatty Acid Profile of Common Animal Fats



Fatty Acid Profile of Tropical Oils



Essential Fatty Acid Content of Primitive and Modern Diets



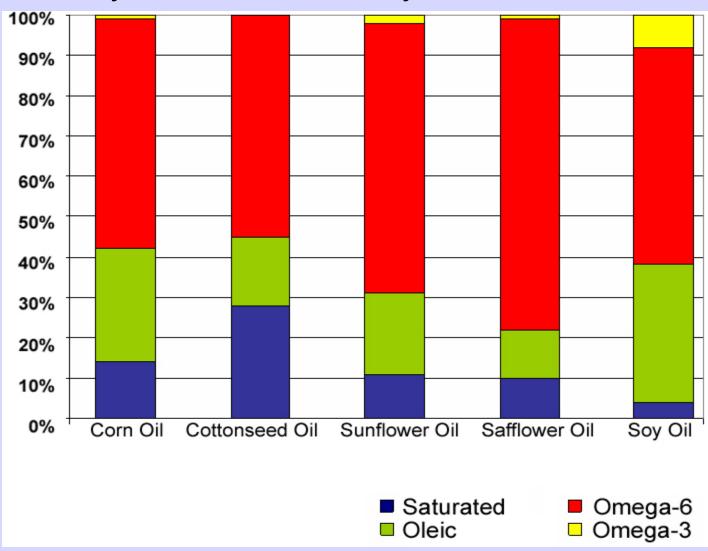
PRIMITIVE DIET

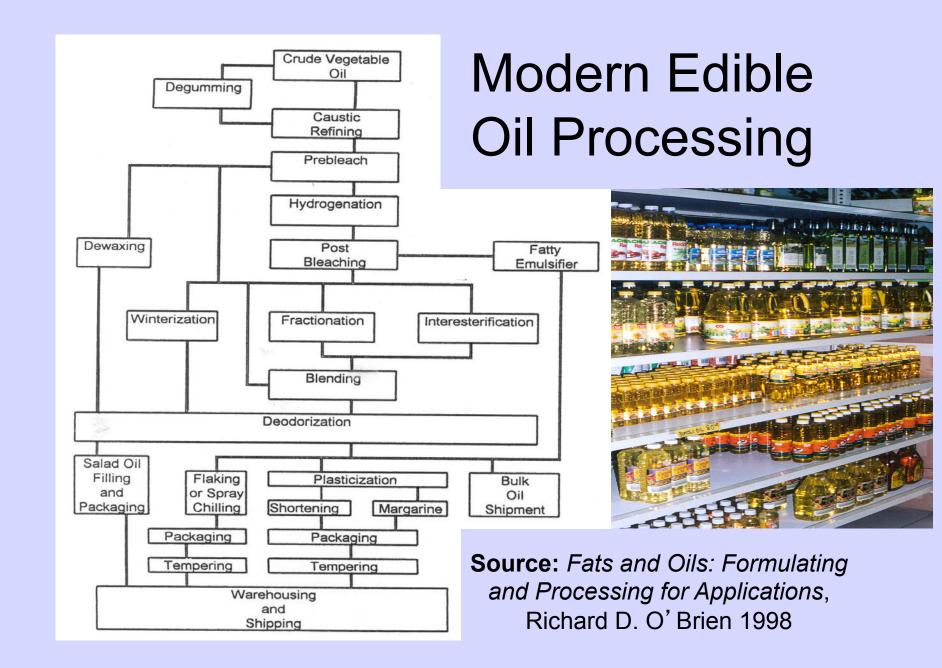
4% Calories as polyunsaturated essential fatty acids

MODERN DIET

20% Calories as polyunsaturated essential fatty acids

Fatty Acid Profiles of Polyunsaturated Oils





Problems Associated with Consumption of Polyunsaturated Oils

Increased cancer Increased heart disease Increased wrinkles and premature aging Immune system dysfunction Disruption of prostaglandin production Depressed learning ability Liver damage Ceroid storage disease Damage to reproductive organs and the lungs Digestive disorders due to polymerization Increased levels of uric acid Impaired growth Source:

Lowered cholesterol



Pinckney, The Cholesterol Controversy

Natural Sources of Essential Fatty Acids

GRAINS

LEGUMES

NUTS

FISH

ANIMAL FATS

EGGS

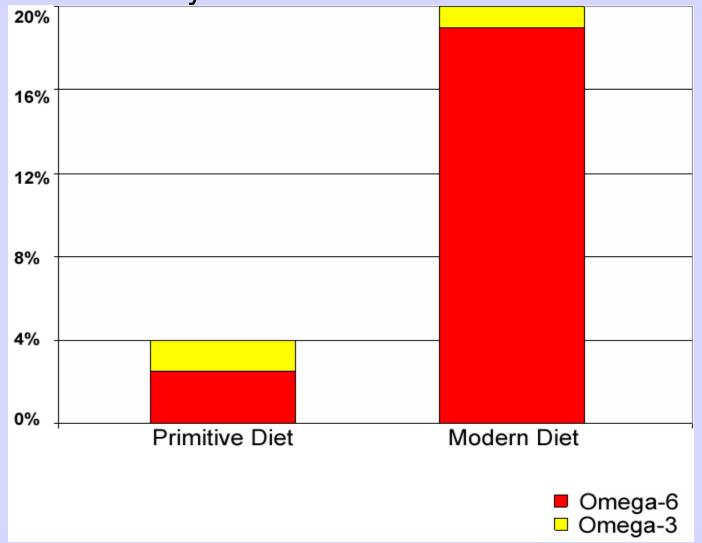
VEGETABLES

FRUITS

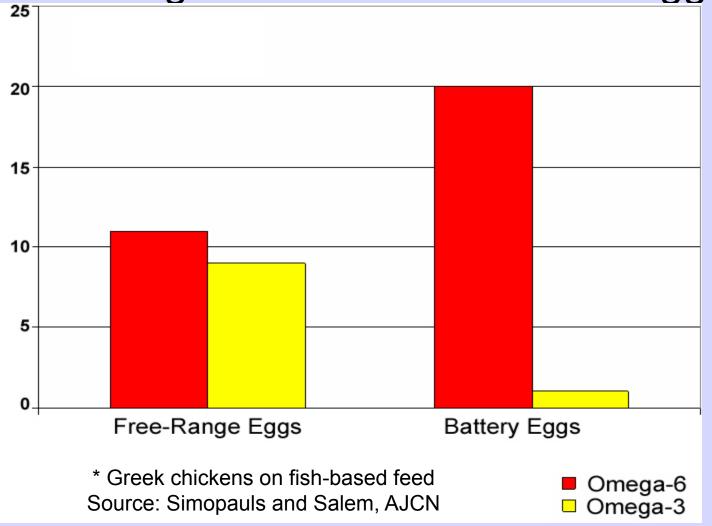
Polyunsaturated fatty acids are protected from damage when they are in whole foods.

8. Nearly Equal Amounts of Omega-6 and Omega-3 Fatty Acids

Essential Fatty Acids in Primitive and Modern Diets



Free-Range* versus Confinement Eggs



Fatty Acids in Grass-Fed and Grain-Fed Beef

Nutrients/100 g	Grass-Fed	Grain-Fed
Water	68	64
Total Fat	13	17
Saturated Fat	7	7
Monounsaturated Fat	5	9
Omega-6 Fatty Acids	.36	.56
Omega-3 Fatty Acids	.12	.09
Omega-3/Omega-6	1 to 3	1 to 6

Source: U. of Neb. (Lincoln) Inst. of Agriculture and Natural Resources

Why Grass-Fed is Best



More Fat-Soluble Vitamins – A, D, E, K - in the fat.

More CLA - anti-cancer/weight loss compound - in the fat.

More minerals - mostly in the fat.

To get the benefits of grass feeding... you must eat the fat!

And I will send grass in thy fields for thy cattle, that thou mayest eat and be satisfied.

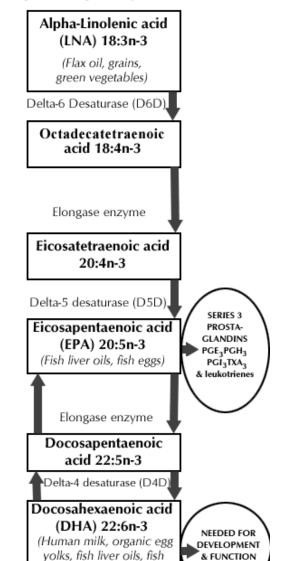
Deut 11:15



OMEGA-6 PATHWAY Linoleic acid (LA) 18:2n-6 (Soy, corn, cottonseed, safflower oils) Prostaglandin Delta-6 Desaturase (D6D) Gamma-linolenic acid **Pathways** (GLA) 18:3n-6 (Evening primrose, borage, black currant oils) Elongase enzyme Dihomo-gamma-linolenic SERIES 1 ROSTAGLANDINS acid (DGLA) 20:3n-6 TXA₁ PGE₁ (Liver & other organ meats) PGF, PGD, Delta-5 desaturase (D5D) Arachidonic acid (AA) 20:4n-6 ROSTAGLANDIN**S** (Butter, lard, animal fats, TXA, PGE, PGF2ad pgd2 pgH2 pgl2 brain, organ meats, egg leukotrienes & volk, seaweed) lipoxins Elongase enzyme Adrenic acid 22:4n-6 Delta-4 desaturase (D4D) Docosapentaenoic

acid 22:5n-6

OMEGA-3 PATHWAY



eggs,liver, brain, other organ meats) OF BRAIN

Brenner, The Role of Fats in Human Nutrition 1989 adapted from RR Enig, PhD, Ġ Source: Mary (PhD The Rol

These conditions interfere with Prostaglandin Pathways

Malnutrition

Diabetes

Trans fatty acids

Excess omega-6

Excess sugar

Poor pituitary function

Low thyroid function

Vitamin B6 deficiency

Biotin deficiency

Vitamin B12 deficiency

Vitamin E deficiency

Protein deficiency

Zinc deficiency

Over-eating

Alcohol

Conditions caused by defective Delta-6 desaturase function

Diabetes Cystic fibrosis

Alcoholism Eczema

Cancer PMS

Premature aging Non-cancerous breast disease

High cholesterol Sjogren's syndrome

Crohn's disease Scleroderma

Irritable bowel syndrome

Food Sources of Elongated Fatty Acids

Omega-6

GLA (18:3): Evening primrose, borage, black currant oils DGLA (20:3): Liver and other organ meats AA (20:4): Butter, lard, animal fats, brain, organ meats, egg yolks, seaweed

Omega-3

EPA (20:5) Fish liver oils, fish eggs
DHA (22:5) Butterfat, pastured egg yolks, fish liver oils,
fish eggs, liver, brain, organ meats

The Sacred Foods!

9. All diets contained some salt

Sea salt

Salt flats and mined salt

Ashes of marsh grasses

Meat and milk products

Blood and urine

More salt needed with cooked foods

Salt is needed for Protein digestion Carbohydrate digestion Development of brain Adrenal function Cellular metabolism

Traditional Salt Production







Traditional salt production involved the simple evaporation of sea water. The salt was rich in magnesium and trace minerals.

Modern salt has all the magnesium and trace minerals removed and contains aluminum-based additives.

Sea Salt



Salt should be gray, beige or pink (not white), indicating the presence of minerals.

10. All traditional cultures made use of bones, usually as bone broth

- Supplies calcium and other minerals in a form easy to assimilate
- 2. Supplies nutrients that help build healthy cartilage
- Supplies amino acids that help the body detoxify
- 4. Supplies gelatin to help digestion

Hydrophilic

RAW FOODS are HYDROPHILIC - they attract liquids, including digestive juices

COOKED FOODS are HYDROPHOBIC - they repel liquids, including digestive juices

GELATIN is HYDROPHILIC - it attracts liquids, including digestive juices

Gelatin-rich broth added to a meal containing cooked foods promotes full digestion and complete assimilation.

Gelatin is useful in the treatment of

malnutrition tuberculosis

dysentery diabetes

infectious diseases muscular dystrophy

poor digestion/assimilation fatigue

irritation of digestive tract jaundice

Crohn's disease allergies

Colitis infant feeding

ulcers

The Solution to Fatigue: Easy Digestion

Raw Dairy, not pasteurized

Proper Preparation of Grains

Lacto-Fermented foods, rich in enzymes and beneficial bacteria

Gelatin-rich bone broths

Less energy required for digestion = More energy for you!

11. Traditional cultures made provisions for future generations

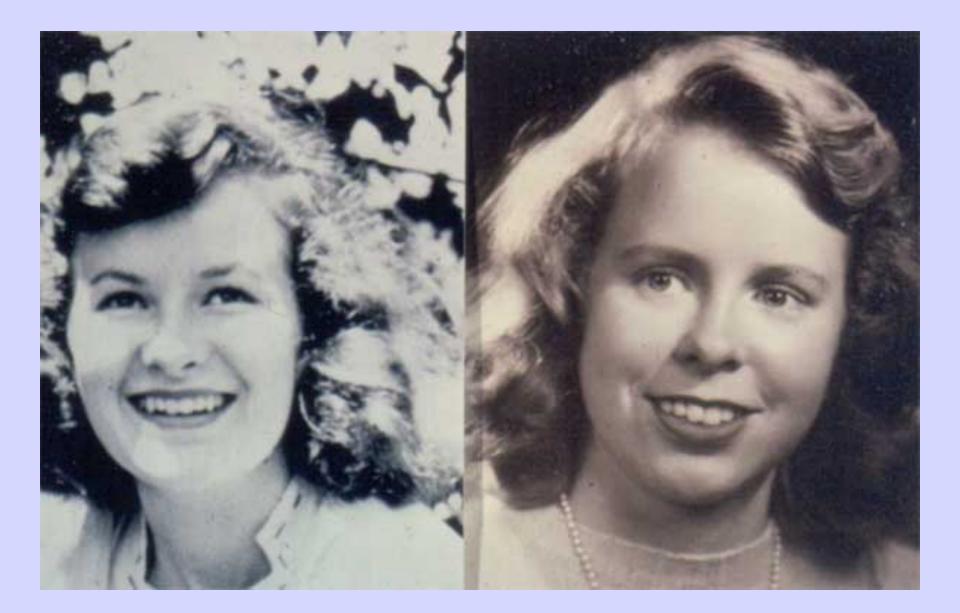
Special foods for parents-to-be, pregnant women, nursing women & growing children

Spacing of children

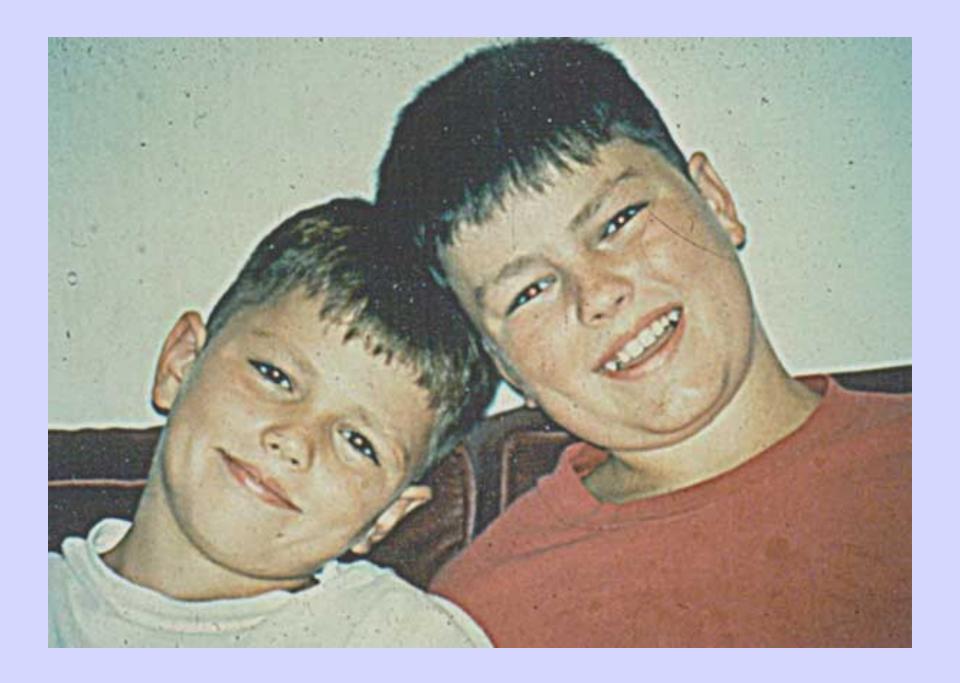
Principles of proper diet taught to the young

This woman from Fiji has walked many miles to obtain a special food for the baby growing in her womb.









How to Change Your Diet for the Better

1. Make Your Own Salad Dressing

Basic Salad Dressing



Good quality mustard

Cold-pressed olive oi

Raw vinegar

Expeller-expressed flax oil

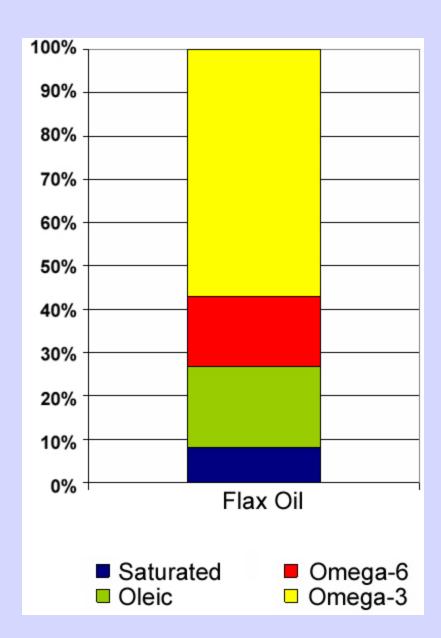








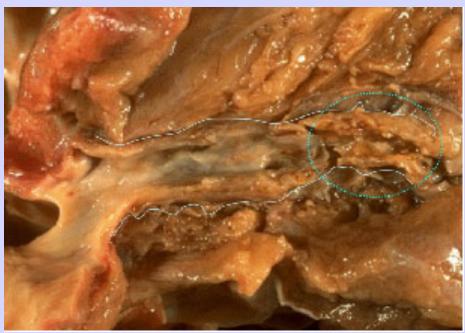
Fatty Acid
Profile of
Flax Oil





Commercial Salad Dressings





Bad, rancid oils + Bad additives = Health Crisis

Salad Dressing Comparison

HOMEMADE DRESSING

COMMERCIAL DRESSING

Extra Virgin Olive Oil

Stable Oleic Acid

Vitamin E

Anti-Oxidants

Vanadium

Expeller Expressed

Flax Seed Oil

Omega-3 EFA's

Vitamin E

Anti-oxidants

Processed Vegetable Oils

Mostly Rancid Omega-6

Trans Fatty Acids

Free Radicals Polymers

Cyclic Compounds

Aldehydes Ketones

Epoxides Hydropic-Oxides

Preservatives

Additives

Flavorings

Cost about \$1.50 per cup = Cost about \$1.50 per cup

Redressing the Omega-6/Omega-3 Balance

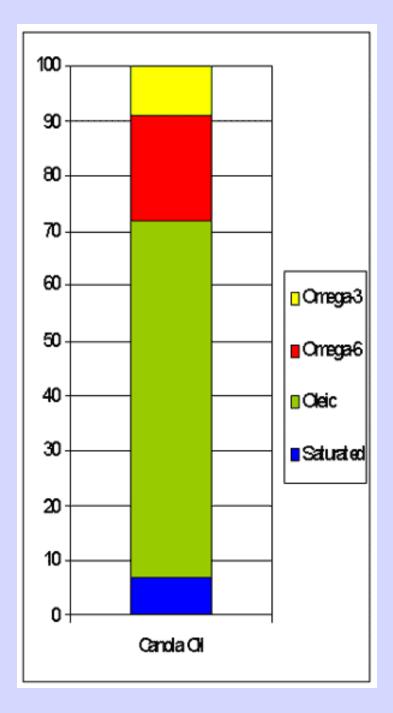
- ELIMINATE all commercial vegetables oils from the diet.
- USE FLAX OIL, a source of omega-3 fatty acids, in **SMALL** amounts in salad dressing (about ½ teaspoon per day).
- CHOOSE ORGANIC AND PASTURE FED animal and plant foods for a good source of omega-3 fatty acids.

Canola Oil A New Fangled Oil

A new oil created by genetic manipulation from the rape seed.

Fatty Acid Profile: 7% Saturated, 65% monounsaturated, 19% omega-6 and 9% omega-3, seemingly "heart healthy."

But animal studies indicate canola oil greatly increases the body's need for vitamin E, causes heart lesions in test animals, increases platelet clumping and causes deaths in stroke-prone rats.

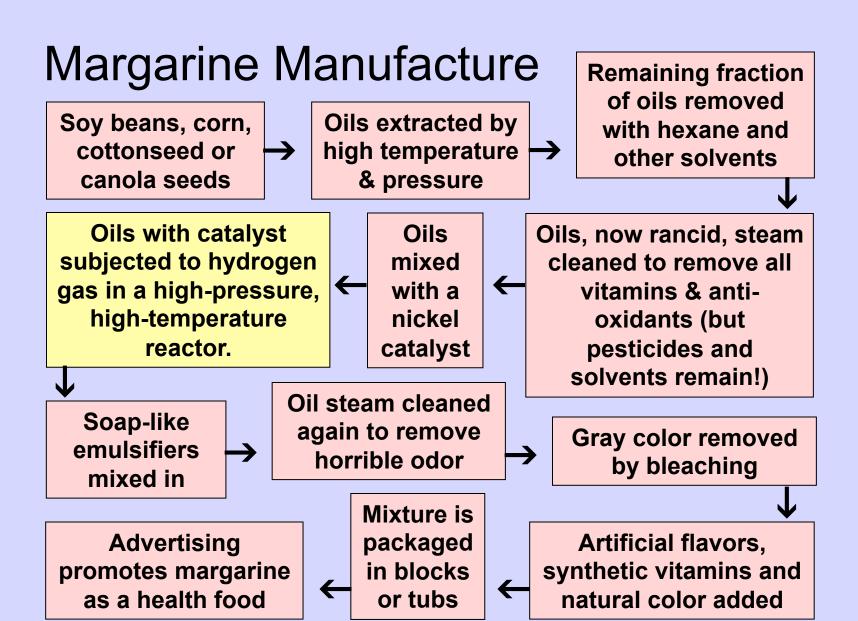




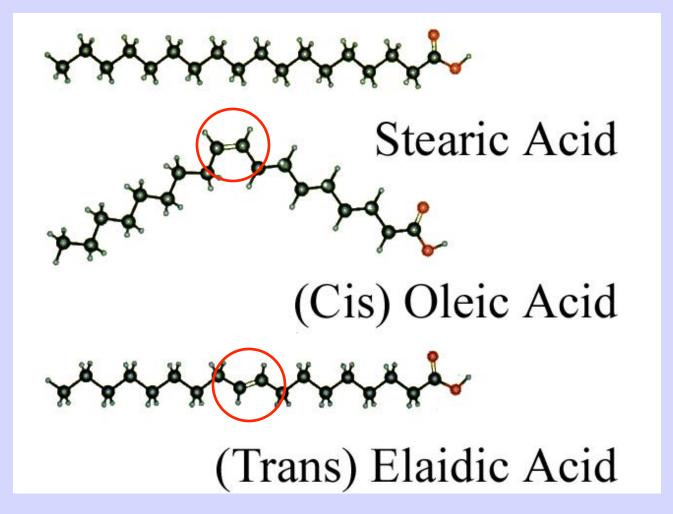
2. Switch to Butter - Avoid Partially Hydrogenated Oils



... And see thou hurt not the oil... Rev 6:6



Trans Fatty Acid



Diseases Caused or Exacerbated by Hydrogenated (*trans*) Fats

Atherosclerosis Heart Disease Cancer

Degeneration of Joints and Tendons

Osteoporosis Diabetes

Autoimmune Diseases

Eczema Psoriasis PMS

Lowered testosterone, lowered sperm count

Failure to Grow Learning Disabilities

Low Birth Weight Babies

Reduced Visual Acuity

Reduced Fat Content in Mothers' Milk

Saturated Fats vs. Trans Fats

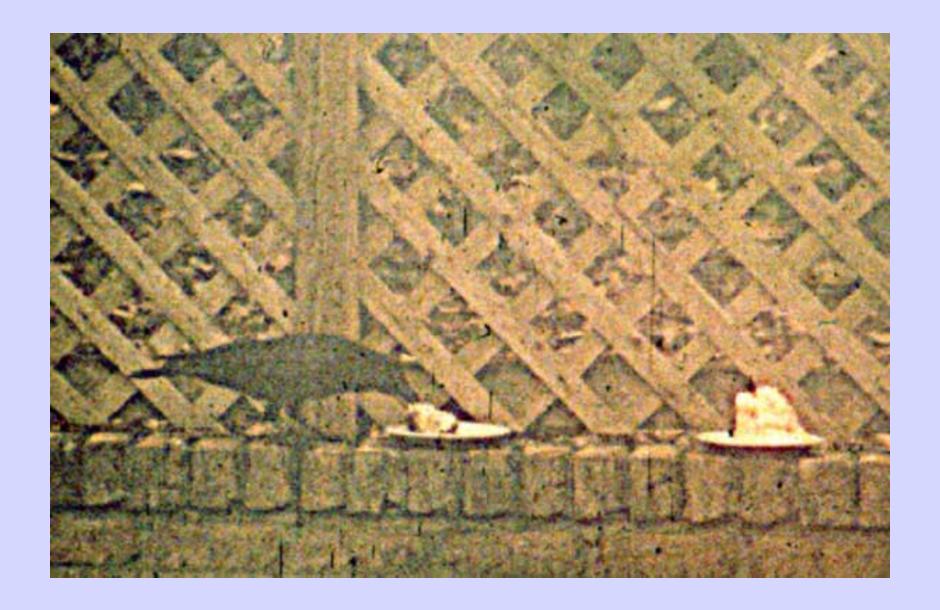
	Saturated Fats	Trans Fats
Cell Membranes	Essential for healthy function	Interfere with healthy function
Hormones	Enhance hormone production	Interfere with hormone production
Inflammation	Suppress	Encourage
Heart Disease	Lower Lp(a). Raise "good" cholesterol	Raise Lp(a). Lower "good"cholesterol
Omega-3	Put in tissues and conserve	Reduce levels in tissues
Diabetes	Help insulin receptors	Inhibit insulin receptors
Immune System	Enhance	Depress
Prostaglandins	Encourage production and balance	Depress production; cause imbalances

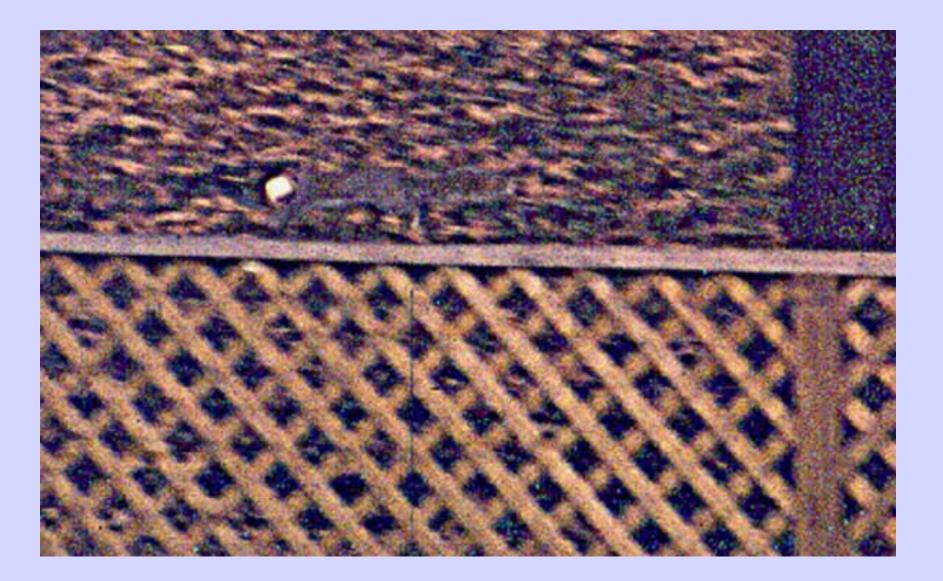




Butter

Soft Spread

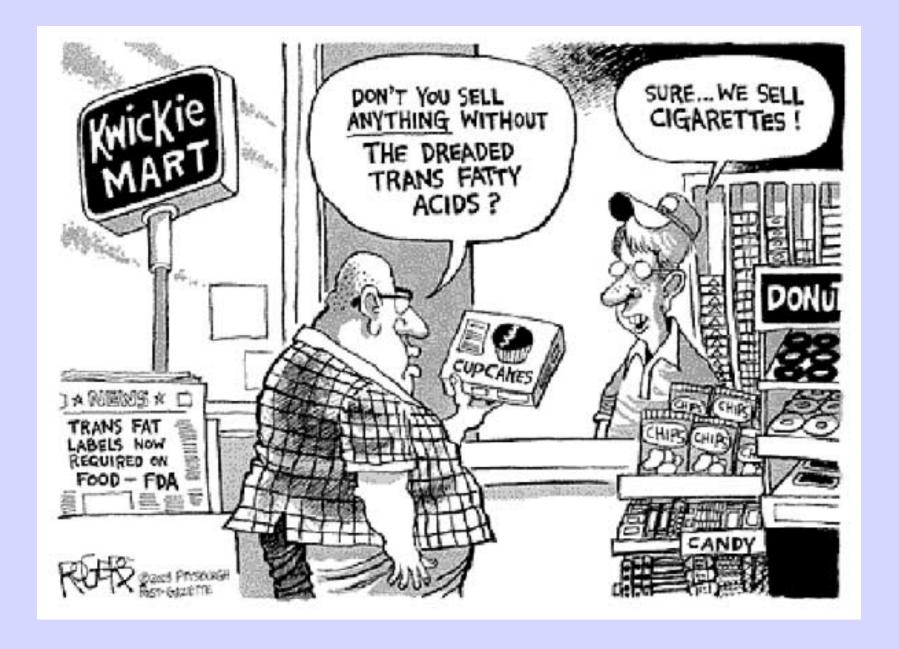












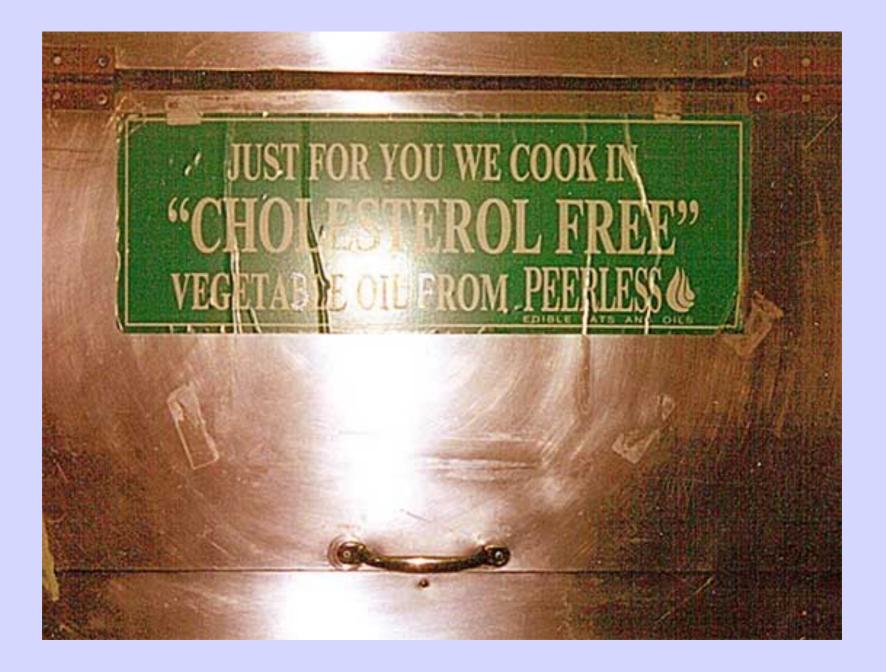




FISHERMANS
I PROCE HON, CHIPS
4 CALAMARI, I SEPRINSTIK
I SEA SCALLEP
I PRAMIN CUTTLET
38-90

GRILLED FISH CHOKE CHIPS SALAD \$5-00 CHIKO ROLL MEE AND SIM 11-60 L. SPRING ROLL 60 11 60 MAN SPRANG ROLL ONION RINGS 80 CHICKEN WIGGETS & ... \$2-40 POTATO SCALLOPS 6 BATTERED SAV \$1000 FIEH CARES \$1-50 PINEAPPLE FRATTER CHIPS \$150 MM





Good Things in Butter

HIGH LEVELS IN

GRASS-FED BUTTER

Vitamin A

Vitamin D

Vitamin E

Vitamin K

Copper

Zinc

Chromium

Selenium

lodine

Conjugated Linoleic Acid (CLA)

IN ALL BUTTER

Shorter Chain Fatty Acids

Essential Fatty Acids

(perfect balance)

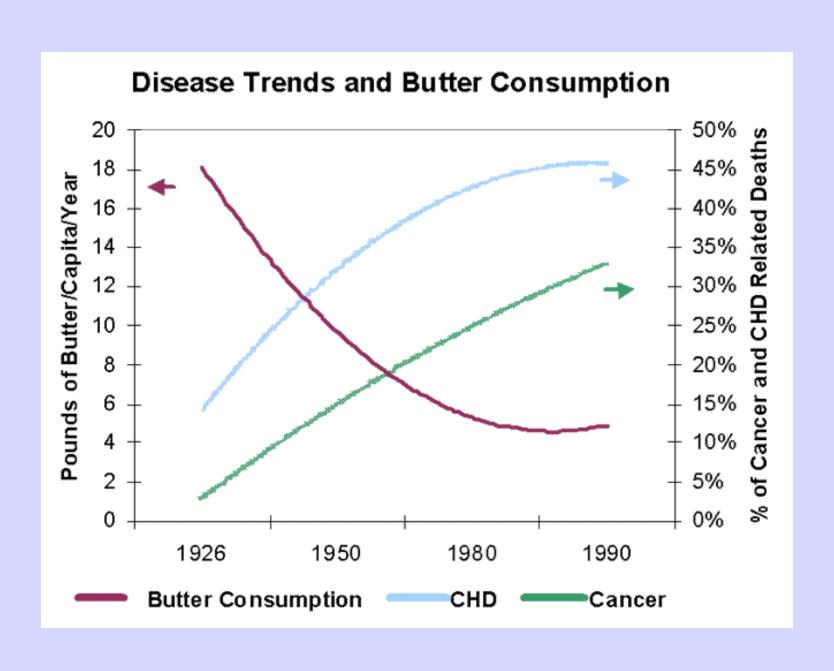
Lecithin

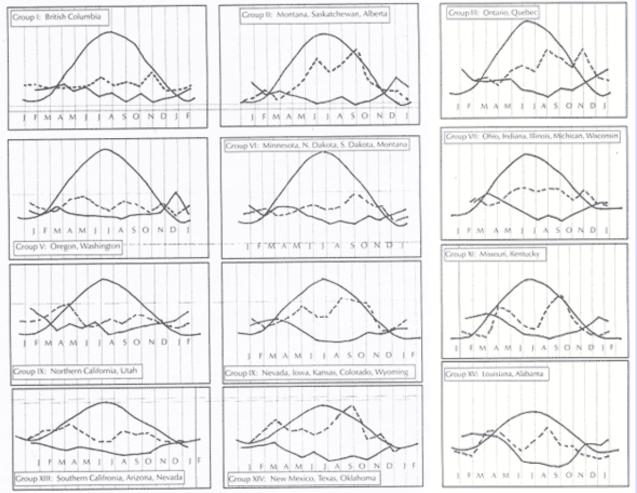
Cholesterol

Glycosphingolipids

Wulzen Factor*

*Destroyed by Pasteurization





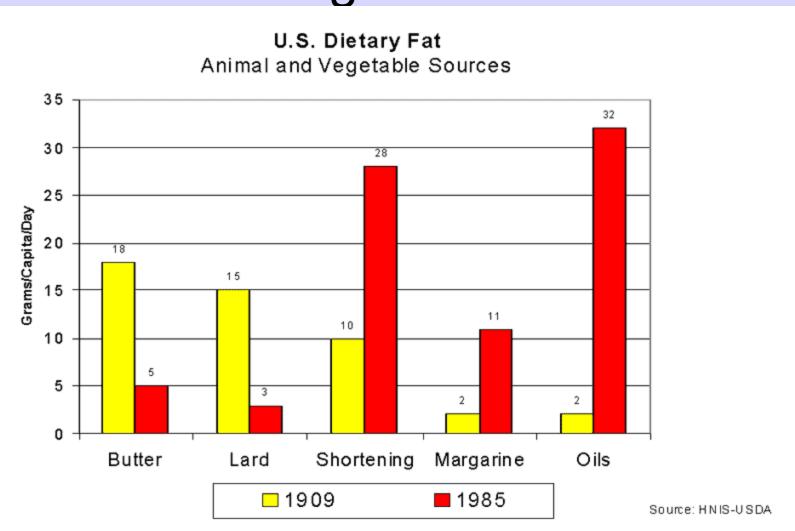
Heart Disease Study by Weston Price

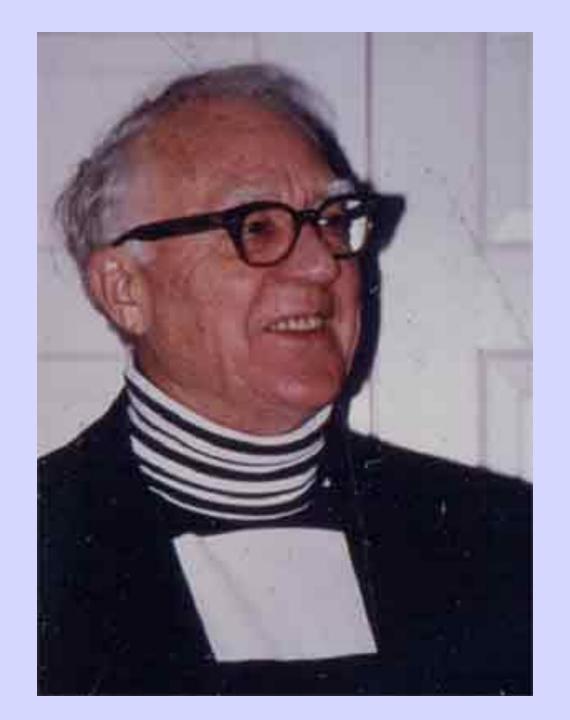
Upper Line (Parabola): Hours of sunlight

Dotted Line: Fat-Soluble Activators in Local Butterfat

Solid Line: Deaths from Heart Attacks & Pneumonia in Local Hospitals

The Oiling of America!





Good Fats, Bad Fats Good Fats

Butter, beef tallow, lamb tallow, lard
Chicken, goose and duck fat
Cold pressed olive oil, sesame oil and flax oil
Tropical Oils—Coconut Oil and Palm Oil
Fish Liver Oils, such as cod liver oil

Bad Fats

All partially hydrogenated fats including margarine and shortening used in processed foods

Industrially processed vegetable oils, especially soy, safflower, corn, cottonseed, and canola

All fats, especially polyunsaturated oils, heated to very high temperatures

3. Make sure your diet contains sufficient **HIGH QUALITY** animal products, some raw

HIGH QUALITY =

whole dairy products from pastured cows eggs from pastured chickens meats from pastured animals organ meats from pastured animals fish eggs fish and shellfish cod liver oil

Remember the Activators!

VITAMIN A

VITAMIN D

Sea Food

Fish eggs, Shellfish and Fish Liver Oils

Land Animals
Eating Green Grass
Fat and Organ Meats

Sea Food

Fish eggs, Shellfish and Fish Liver Oils

Land Animals
in Bright Sunlight
Fat and Organ Meats

Grass-based farming is the basis of Good Health because it ensures the presence of the activators - NOT because the meat is lean or higher in 18-carbon omega-3 fatty acids.



The Pastured Poultry Model





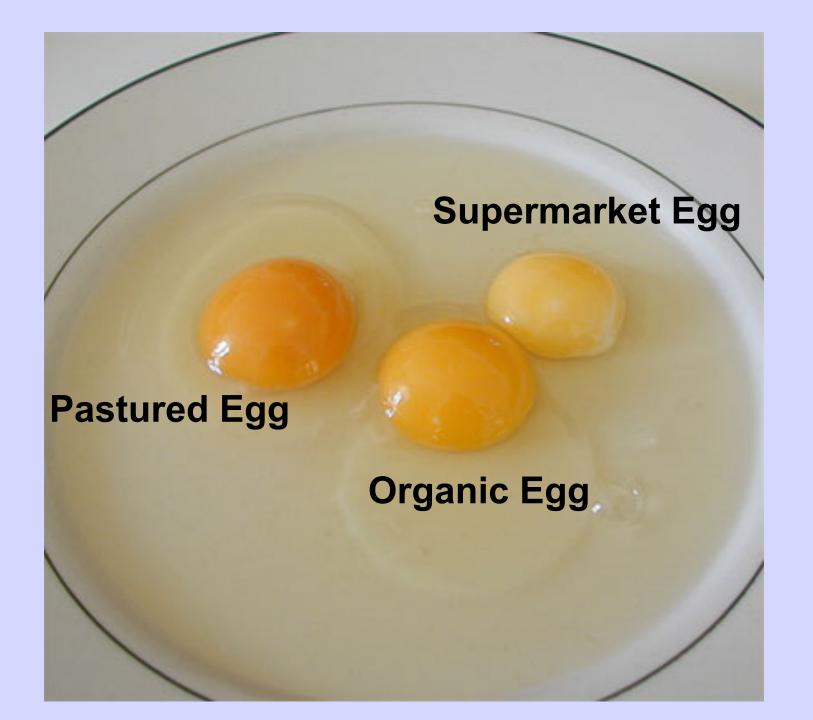




Animals in Confinement







Egg Yolks and Vitamin D



EGG YOLKS A POTENT SOURCE:

In 1929, researchers tested a variety of foods for vitamin D content and found the second most potent source of vitamin D was egg yolk. (Number one was cod liver oil.)

BRIGHT SUNLIGHT REQUIRED:

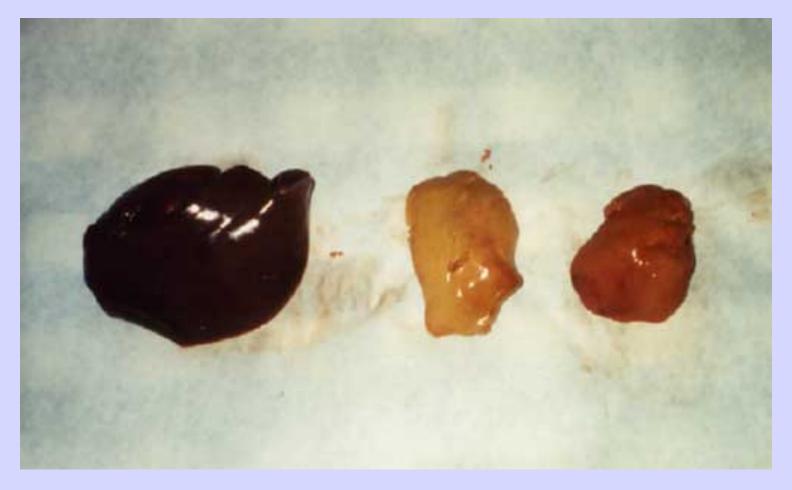
The amount of vitamin D in egg yolks varies. Researchers in Kansas compared vitamin D in egg yolks under various conditions. Only those exposed to bright sunlight (containing

UV-B light) or those exposed to a lamp producing UV-B light resulted in eggs with sufficient levels of vitamin D. Egg yolks from chickens under glass or in cages produced rickets in rats.

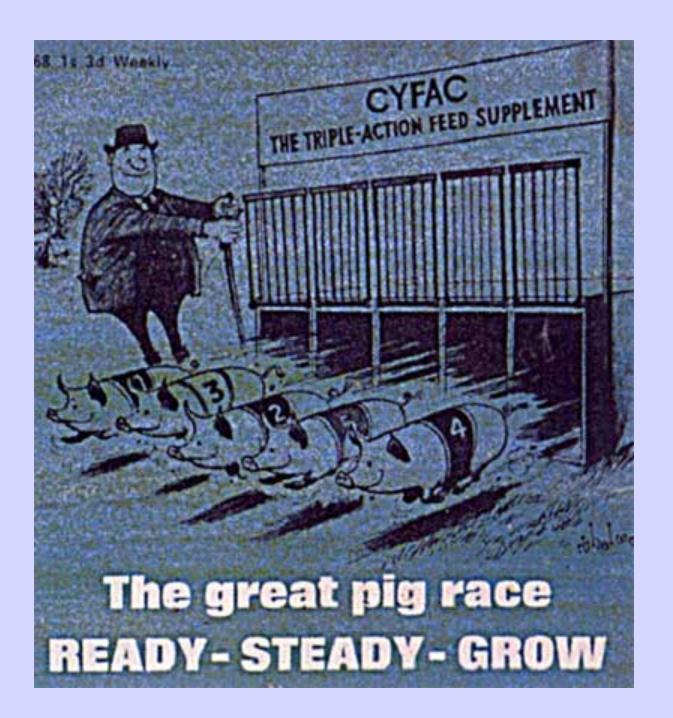


Confinement vs. Grass-Fed Butter Butter

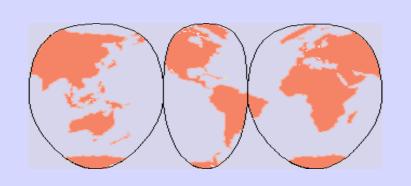
Chicken Livers



Pasture Raised Conventional Organic



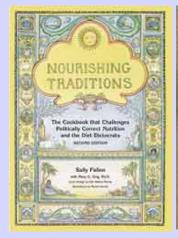
Resources The Weston A. Price Foundation www.westonaprice.org



Quarterly Magazine
Informational Brochures
Yearly Shopping Guide
Annual Conference
Local Chapters

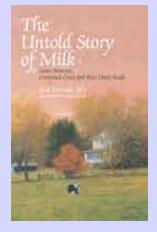
Books from NewTrends Publishing

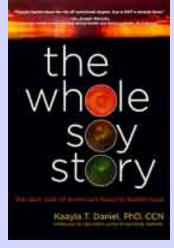
www.newtrendspublishing.com, (877) 707-1776

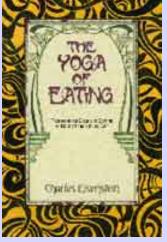




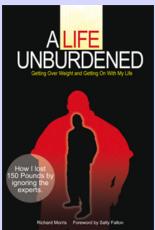




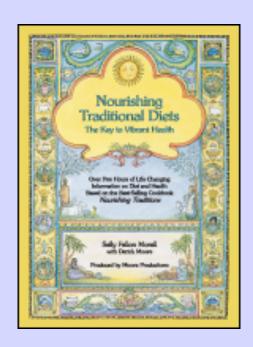


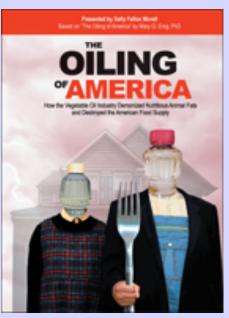






NewTrends DVD Series

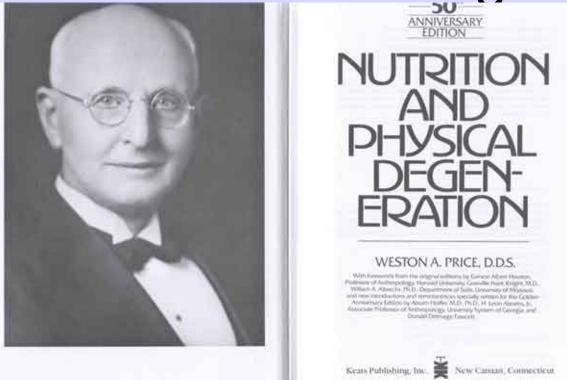




Five-Hour Seminar on Nourishing Traditional Diets

The Oiling of America

Dr. Price's Pioneering Work



The Price-Pottenger Nutrition Foundation www.price-pottenger.org (619) 462-7600

Summary

Traditional diets *maximized* nutrients while modern diets *minimize* nutrients

TRADITIONAL DIETS

Foods from fertile soil

Organ meats over muscle meats

Animal fats

Animals on pasture

Dairy products raw and/or fermented

Grains and legumes soaked/fermented

Bone broths

Unrefined sweeteners (honey, maple syrup)

Lacto-fermented vegetables

Lacto-fermented beverages

Unrefined salt

Natural vitamins in foods

Traditional Cooking

Traditional seeds/Open pollination

MODERN DIETS

Foods from depleted soil

Muscle meats, few organs

Vegetable oils

Animals in confinement

Dairy products pasteurized

Grains refined, extruded

MSG, artificial flavorings

Refined sweeteners

Canned vegetables

Modern soft drinks

Refined salt

Synthetic vitamins added

Microwave, Irradiation

Hybrid seeds, GMO seeds