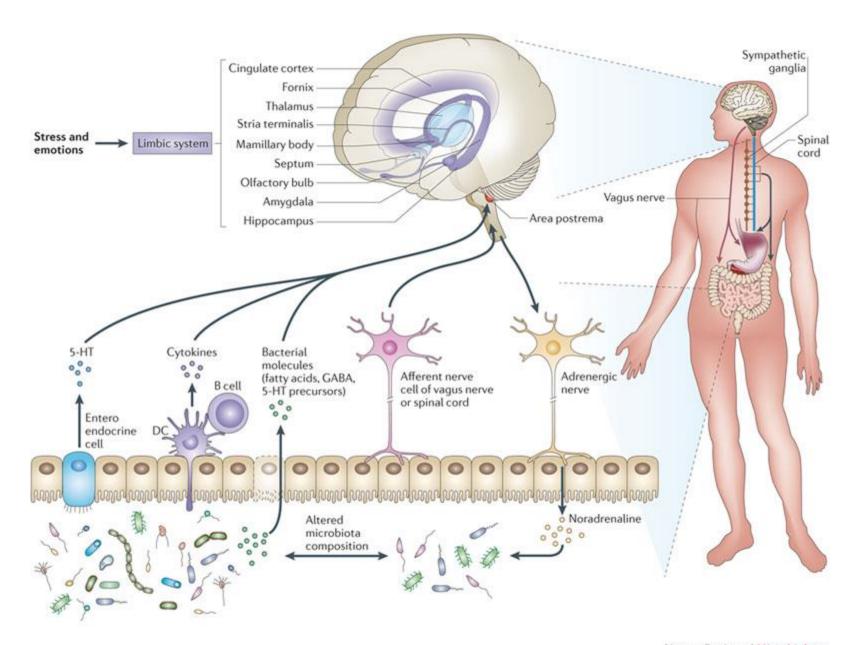
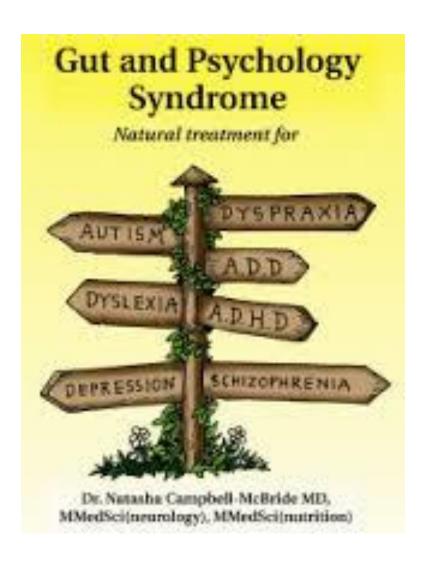
# NOURISHING TRADITIONAL DIETS THE KEY TO DIGESTIVE HEALTH

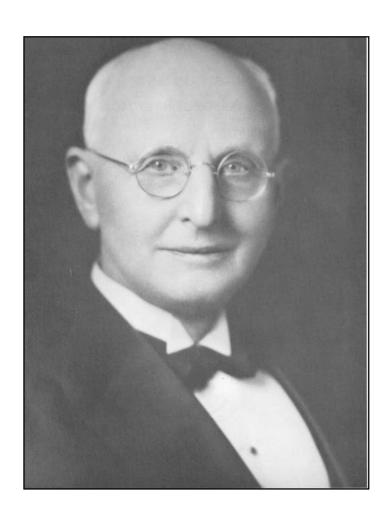
BY SALLY FALLON MORELL, PRESIDENT THE WESTON A. PRICE FOUNDATION

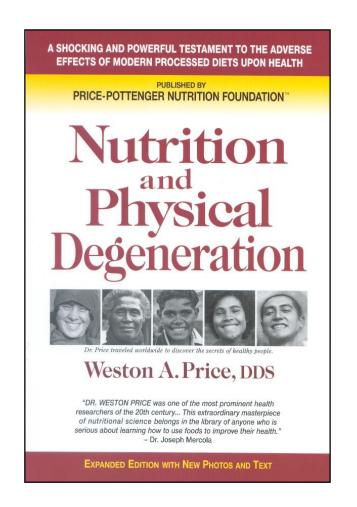
POWERPOINT DESIGN BY SANDRINE HAHN





#### WESTON A. PRICE 1870 – 1948





#### PRIMITIVE **SEMINOLE** INDIANS OF FLORIDA



BEAUTIFUL FACIAL DEVELOPMENT SHOWS OPTIMAL EXPRESSION OF GENETIC POTENTIAL.

#### MODERNIZED SEMINOLE INDIAN OF FLORIDA



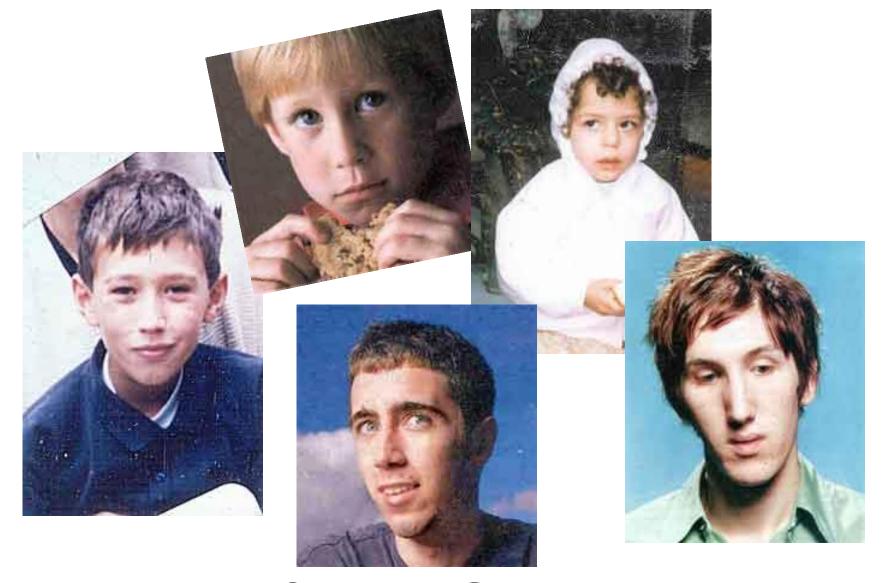
POOR DIET HAS PREVENTED OPTIMAL EXPRESSION OF THE GENETIC POTENTIAL

#### THE TEETH TELL THE TALE!

#### **STRAIGHT TEETH**

#### CROWDED, CROOKED TEETH

PLENTY OF ROOM IN HEAD FOR PITUITARY, PINEAL, HYPOTHALAMUS	COMPROMISED SPACE FOR MASTER GLANDS IN THE HEAD
GOOD SKELETAL DEVELOPMENT, GOOD MUSCLES	POOR DEVELOPMENT, POOR POSTURE, EASILY INJURED
KEEN EYESIGHT AND HEARING	POOR EYESIGHT AND HEARING
OPTIMAL FUNCTION OF ALL ORGANS, including the gut!	COMPROMISED FUNCTION OF ALL ORGANS
OPTIMISTIC OUTLOOK, LEARNS EASILY	DEPRESSION, BEHAVIOR PROBLEMS, LEARNING PROBLEMS
ROUND PELVIC OPENING, EASY CHILDBIRTH	OVAL PELVIC OPENING, DIFFICULT CHILDBIRTH



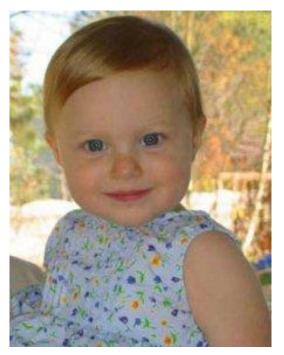
## MODERN CHILDREN

MOST MODERN CHILDREN HAVE NARROW FACES AND NEED BRACES TO STRAIGHTEN THEIR TEETH













**HEALTHY BABIES** 

#### GREAT VARIETY IN **TRADITIONAL** DIETS

Some had no plant foods
Some had few animal foods
Some high carb, some low carb
Some had mostly cooked foods
Some had large amounts of raw foods
Some had milk products; some did not
Some had grains; some did not
Some had fruits; some did not

WHAT ARE THE UNDERLYING CHARACTERISTICS OF THESE HEALTHY DIETS?

# FIRST PRINCIPLE NO REFINED OR DENATURED FOODS

REFINED AND DENATURED FOOD COMPONENTS 1930s

REFINED AND DENATURED FOOD

**COMPONENTS TODAY** 

Refined Sugar

Refined Sugar

White Flour

High Fructose Corn Syrup

Vegetable Oils

White Flour

**Canned Foods** 

Pasteurized Milk

**Condensed Milk** 

Skim and Low Fat Milk

Hydrogenated Fats

Refined Vegetable Oils

**Isolated Protein Powders** 

Additives/Artificial Sweeteners

#### "LIFE IN ITS FULLNESS IS MOTHER NATURE OBEYED."

WESTON A. PRICE, DDS



FACTORY FOODS ARE NOT MOTHER NATURE'S FOODS!

# SECOND PRINCIPLE EVERY DIET CONTAINED ANIMAL PRODUCTS

FISH AND SHELLFISH Including organs, oil, bones, and heads.

Weston Price found the best bone structure

among those eating seafood

BIRDS Chicken, ducks, geese, etc.,

including the organs, fat and skin.

RED MEAT Beef, goat, sheep, game, etc.,

with organ meats and fat preferred.

MILK AND MILK PRODUCTS Raw or cultured, not pasteurized

EGGS From pasture raised chickens

**REPTILES** 

**INSECTS** 

## VITAMIN B12 DEFICIENCY

EARLY SIGNS	PSYCHIATRIC DISORDERS	CHRONIC DISEASE
FATIGUE	DEPRESSION	MULTIPLE SCLEROSIS
TINGLING IN HANDS AND FEET	OBSESSIVE COMPULSION	ANEMIA
SLEEP DISORDERS	MANIC DEPRESSION	CANCER
IRRATIONAL ANGER	DEMENTIA ALZHEIMER'S	HEART DISEASE

#### THIRD PRINCIPLE

## NUTRIENT DENSITY DR. PRICE'S KEY FINDING

PRIMITIVE DIETS CONTAIN 4 TIMES

THE CALCIUM AND OTHER MINERALS,

AND 10 TIMES THE FAT-SOLUBLE VITAMINS

COMPARED TO THE MODERN AMERICAN DIET.

#### SOURCES OF VITAMINS A AND D

#### **SEAFOOD**

FISH EGGS
FISH LIVERS
FISH LIVER OIL
FISH HEADS
SHELL FISH
OILY FISH
SEA MAMMALS



LAND ANIMALS GRASS-FED!

**INSECTS** 

**BUTTER AND CREAM** 

**EGG YOLKS** 

LIVER, ORGAN MEATS

**ANIMAL FAT** 

ESPECIALLY MONO-GASTRIC ANIMALS SUCH AS BIRDS, PIG, BEAR, GUINEA PIG



#### THE FAT-SOLUBLE ACTIVATORS A AND D

A question arises as to the efficiency of the human body in removing all of the minerals from the ingested foods. Extensive laboratory determinations have shown that most people cannot absorb more than half of the calcium and phosphorus from the foods eaten. The amounts utilized depend directly on the presence of other substances, particularly fat-soluble vitamins.

It is at this point probably that the greatest breakdown in our modern diet takes place, namely, in the ingestion and utilization of adequate amount of the special activating substances, including the vitamins [A and D] needed for rendering the minerals in the food available to the human system.

It is possible to starve for minerals that are abundant in the foods eaten because they cannot be utilized without an adequate quantity of the fat-soluble activators. !!

WESTON PRICE, DDS
NUTRITION AND PHYSICAL DEGENERATION

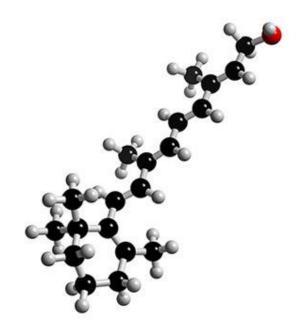
## VITAMIN A MYTH: PLANT FOODS CONTAIN VITAMIN A



TRUTH: THERE IS NO VITAMIN A IN PLANT FOODS

## VITAMIN A

#### NEEDED FOR NUMEROUS PROCESSES IN THE BODY



PROTEIN ASSIMILATION

CALCIUM ASSIMILATION

PROPER GROWTH

PREVENTION OF BIRTH DEFECTS

PROPER FUNCTION OF THE ENDOCRINE SYSTEM

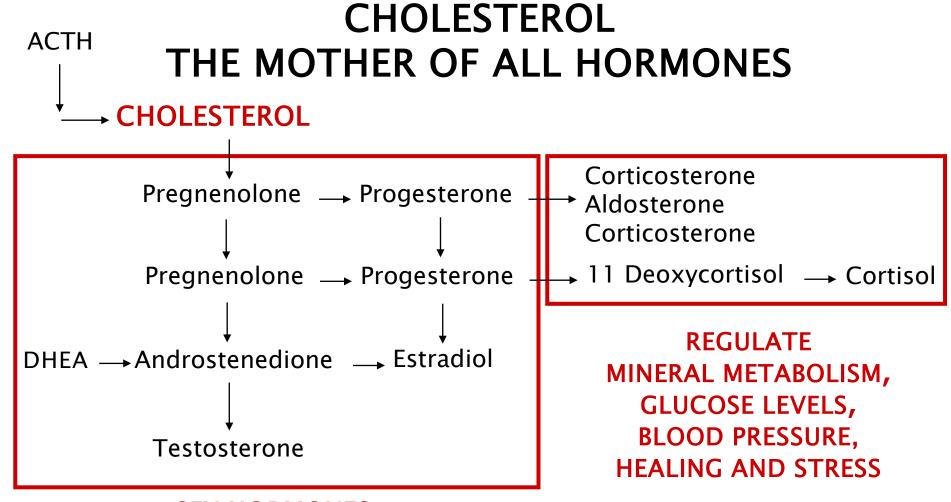
THYROID FUNCTION

IMMUNE SYSTEM FUNCTION

PRODUCTION OF STRESS AND SEX HORMONES

EYES, SKIN, BONES

WELL FORMED GUT



#### **SEX HORMONES**

VITAMIN A IS NEEDED FOR EACH CONVERSION.

TRANS FATS INHIBIT ENZYMES THAT MAKE THESE CONVERSIONS.

#### VITAMIN D MYTH



MYTH – To get adequate vitamin D, just expose your face and hands to sunlight for 10 minute every day.

TRUTH – The body makes vitamin D out of cholesterol by the action of UV-B sunlight on the skin. However, except in the Tropics, UV-B is available only at mid-day during the summer months.

## VITAMIN D FOOD SOURCES

All healthy primitive groups, including those living in the tropics, had rich dietary sources of vitamin D.



FISH EGGS

SHELL FISH

**OILY FISH** 

**INSECTS** 

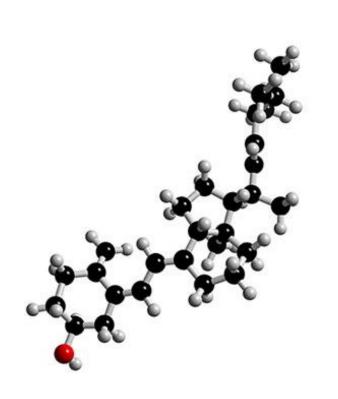
**EGG YOLKS** 

**ORGAN MEATS** 

FAT OF BIRDS AND PIGS

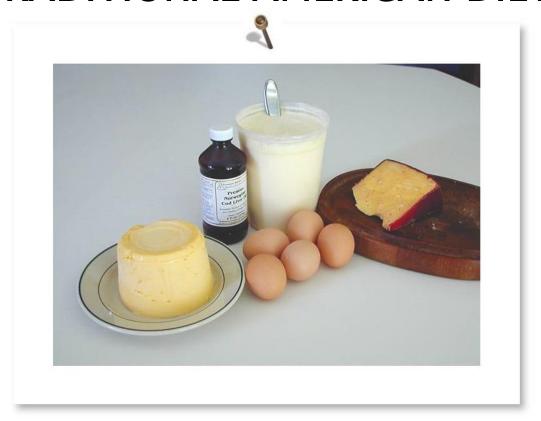
**BLOOD** 

## ROLES OF VITAMIN D



**HEALTHY BONES** PROPER GROWTH MINERAL METABOLISM **MUSCLE TONE** REPRODUCTION **HEALTHY SKIN** INSULIN PRODUCTION **IMMUNE SYSTEM NERVOUS SYSTEM CELL FUNCTION** FEEL GOOD CHEMICALS **LONGEVITY** 

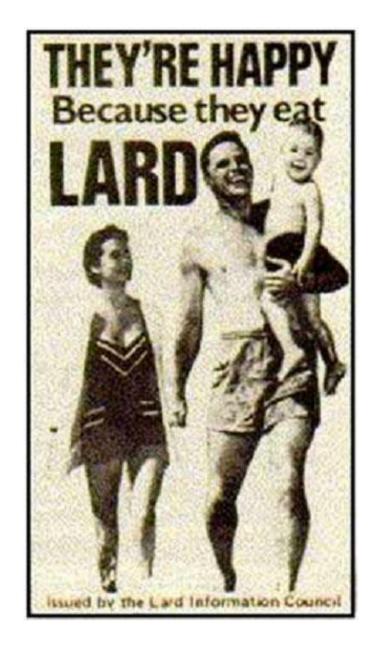
## SOURCES OF VITAMINS A AND D IN THE TRADITIONAL AMERICAN DIET



ALSO, LIVER AND OTHER ORGAN MEATS
AS IN SAUSAGE, PATE, LIVERWURST, SCRAPPLE, ETC.



## **AMERICANS COOKED IN LARD!**



VITAMIN D IN LARD
HELPS THE BODY
MAKE NEURO-CHEMICALS
THAT PROTECT
AGAINST DEPRESSION.

## ACTIVATOR $X = VITAMIN K_2$

ANIMAL FORM: K2 is the animal form of vitamin K, made from K1, the plant form.

GROWTH: Plays important role, especially in facial development. Sign of deficiency: Underdevelopment of middle third of the face.

BONES AND TEETH: Needed for deposition of phosphorus and calcium in bones and teeth

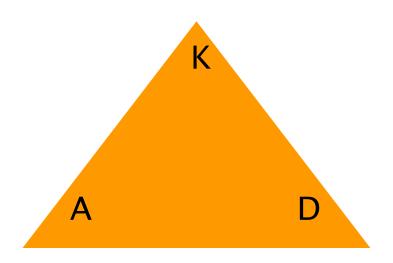
**HEART DISEASE**: Prevents calcification and inflammation of the arteries.

BRAIN: Involved in synthesis of myelin sheath; supports learning capacity.

**REPRODUCTION:** Vital for normal reproduction.

# THE SYNERGY OF VITAMINS A, D and K

VITAMIN K ACTIVATES PROTEINS AFTER
SIGNALING BY VITAMINS A AND D



VITAMINS A AND D TELL CELLS TO MAKE CERTAIN PROTEINS

## FOOD SOURCES OF VITAMIN K<sub>2</sub>

#### **TESTED SOURCES**

OTHER PROBABLE SOURCES

**BEAR FAT** 

GOOSE, DUCK AND CHICKEN FAT

NATTO (FERMENTED SOY)

CRUSTACEAN "BUTTER"

(HEPATOPANCREAS)

**GOOSE LIVER** 

OTHER ORGAN MEATS

**CHEESES** 

FISH EGGS

EGG YOLK

FERMENTED COD LIVER OIL

BUTTER

CHICKEN LIVER

**FATTY MEATS** 

**SAUERKRAUT** 





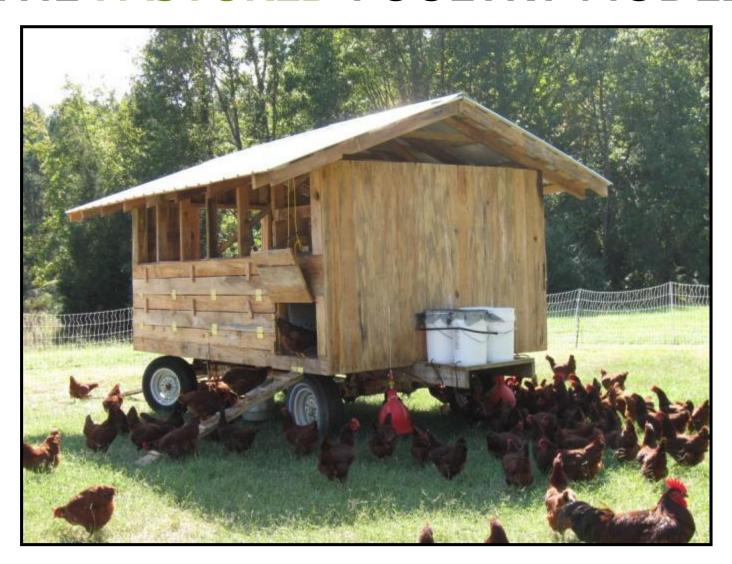




THE SACRED COW

A Step-Up Transformer of Grass and Sunlight into the Vital Fat-Activators A, D and K2

## THE PASTURED POULTRY MODEL

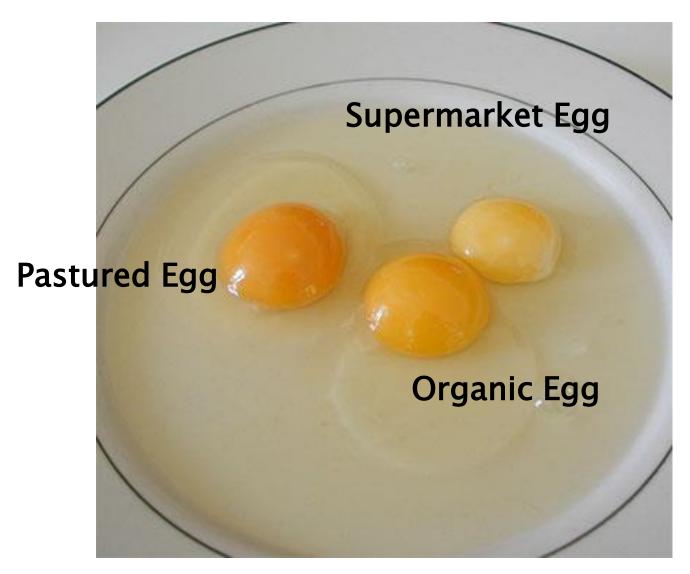




# THE "EFFICIENT" INDUSTRIAL CONFINEMENT MODEL







8 times more vitamin D,

2 times more vitamin A

in pastured egg compared to supermarket egg



**CONFINEMENT BUTTER** 

**GRASS-FED BUTTER** 

# 10–13 TIMES MORE VITAMIN A AND 3 TIMES MORE VITAMIN D IN GRASS-FED BUTTER



# THE SOLUTION TO VITAMIN D DEFICIENCY!

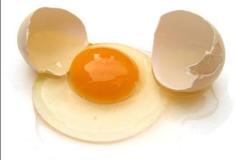
12 times more vitamin
D in lard from
pastured animals
compared to
conventional

One test found 1100 IU vitamin D in 1 tablespoon of grass-fed lard!



RAW CHEESE FROM PASTURED ANIMALS
A COMPLETE FOOD!
Best Source of Vitamin K2 in the Western Diet

#### KEY NUTRIENTS FOR GUT & BRAIN DEVELOPMENT



VITAMIN A: Cod liver oil; liver, butter and egg yolks from grass-fed animals

VITAMIN D: Cod liver oil; lard, butter and egg yolks from grass-fed animals



VITAMIN K: Butter, egg yolks and organ meats from grass-fed

animals

CHOLINE: Liver, egg yolks from grass fed animals

DHA: Cod liver oil, liver, butter, egg yolks





CHOLESTEROL: Seafood; dairy foods, eggs and meat of grass fed

animals

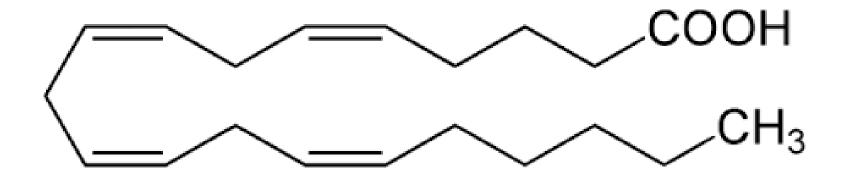
ARACHIDONIC ACID: dairy foods, eggs, meat and organ meats





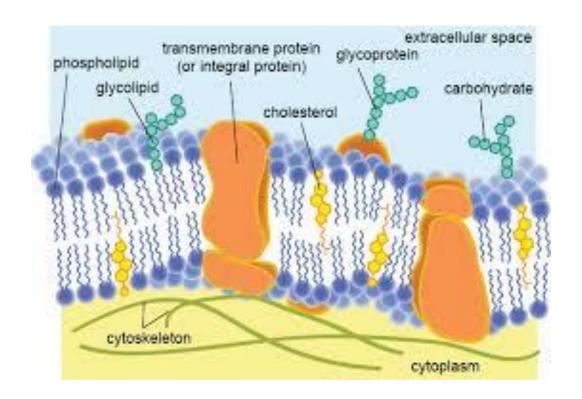


### ARACHIDONIC ACID



- Highly unsaturated omega–6 fatty acid.
- Needed for regulating inflammation.
- Critical for tight cell-to-cell junctures, hence a healthy gut wall.
- Found in animal fats and organ meats.

### SATURATED FATS & CHOLESTEROL



- Saturated fat gives stability to cell walls.
- Cholesterol makes cell walls waterproof.

# HIGH-VITAMIN COD LIVER OIL AND HIGH-VITAMIN BUTTER OIL

Dr. Weston Price found that

#### HIGH-VITAMIN COD LIVER OIL

(source of vitamins A and D) given with

#### HIGH-VITAMIN BUTTER OIL

(source of vitamin K)

was a very powerful combination for mineral absorption. He used this combination to treat tooth decay, bone and growth problems, arthritis and many other disease conditions.





IF BUTTER OIL IS NOT AVAILABLE, INCLUDE OTHER SOURCES OF VITAMIN K2
IN THE DIET WHEN TAKING COD LIVER OIL.



Your baby. . . Give him the help he needs to build a well-shaped head ... a straight, strong back. . . sound, even teeth ...

Daily use is important!

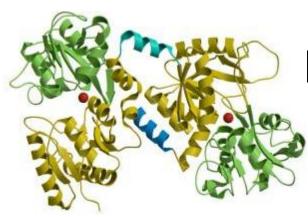






#### FOURTH PRINCIPLE

ALL CULTURES COOKED SOME OR
MOST OF THEIR FOOD...
BUT THEY ALWAYS ATE SOME
OF THEIR ANIMAL FOODS RAW



PROTEINS IN MILK

MILK PROTEINS: Three dimensional, like tinker toys.

**CARRIERS**: Carry vitamins and minerals through the gut into the blood stream; enhance the immune system; protect against disease.

IMMUNE DEFENSE: Pasteurization and ultra-pasteurization flatten the three-dimensional proteins; the body thinks they are foreign proteins and mounts an immune defense.

**DISEASES**: Immune attacks lead to juvenile diabetes, asthma, allergies and other disorders later in life.

ALLERGIES: More and more people unable to tolerate pasteurized milk; one of the top eight allergies; some have violent reactions to it.

**DECLINE**: Consumption of fluid milk declining at 1 percent per year.

#### RAW MILK DIGESTIBILITY

#### **RAW MILK DIGESTS ITSELF!**

- Enzymes in raw milk are activated in the digestive tract
- Enzymes and carrier proteins in raw milk ensure all nutrients are absorbed
- Friendly bacteria in milk aid in digestion
- No energy required to digest raw milk; net energy gain

#### PASTEURIZED MILK IS VERY DIFFICULT TO DIGEST

- The body must supply the enzymes needed to digest the milk
- Proteins warped and distorted by pasteurization put additional strain on digestion
- Much energy required to digest pasteurized milk; net energy loss

### RAW MILK & GLUTATHIONE

- Glutathione: Key compound for detoxification
- High levels in whey protein
- Research in 1991 discovered that whey proteins only boost glutathione status in their raw, undenatured state.
- Explains the success of the Milk Cure

### RAW MILK FOR CHILDREN

- Calcium for optimal growth, strong bones, strong teeth.
- · Protection against asthma, allergies, eczema
- Builds immune system.
- Glutathione for protection against toxins.
- · Builds healthy gut wall.





# FIFTH PRINCIPLE HIGH LEVELS OF ENZYMES AND BENEFICIAL BACTERIA



#### **EXAMPLES OF ENZYME-RICH FOODS**



RAW DAIRY PRODUCTS

RAW MEAT AND FISH

**RAW HONEY** 

TROPICAL FRUITS



COLD PRESSED OILS EX. EXTRA VIRGIN OLIVE OIL

WINE AND UNPASTEURIZED BEER

LACTO-FERMENTED (ENZYME ENHANCED)



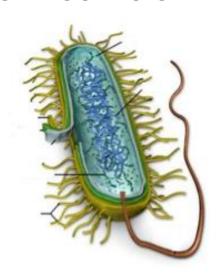
VEGETABLES such as SAUERKRAUT, PICKLES MEATS such as SALAMI DAIRY PRODUCTS such as YOGURT FRUITS such as CHUTNEY, ASIAN PLUM SAUCE FISH such as GRAVLAX BFVERAGES such as KOMBUCHA

#### BENEFICIAL BACTERIA

OLD PARADIGM: Healthy human body is sterile and microbes attack it, making us sick.

NEW PARADIGM: Healthy human body lives in symbiotic relationship with microorganisms.

SIX POUNDS OF HEALTHY BACTERIA IN OUR DIGESTIVE TRACT:



DIGEST OUR FOOD
ASSIST IN ASSIMILATION
CREATE NUTRIENTS
PROTECT US AGAINST TOXINS
HELP US FEEL GOOD

WITHOUT GOOD BACTERIA, WE ARE DEAD!

#### LACTO-FERMENTED CONDIMENTS

#### PROVIDE ENZYMES AND GOOD BACTERIA



#### **COMMERCIALLY AVAILABLE**

#### LACTO-FERMENTED BEVERAGES







**KVASS** 

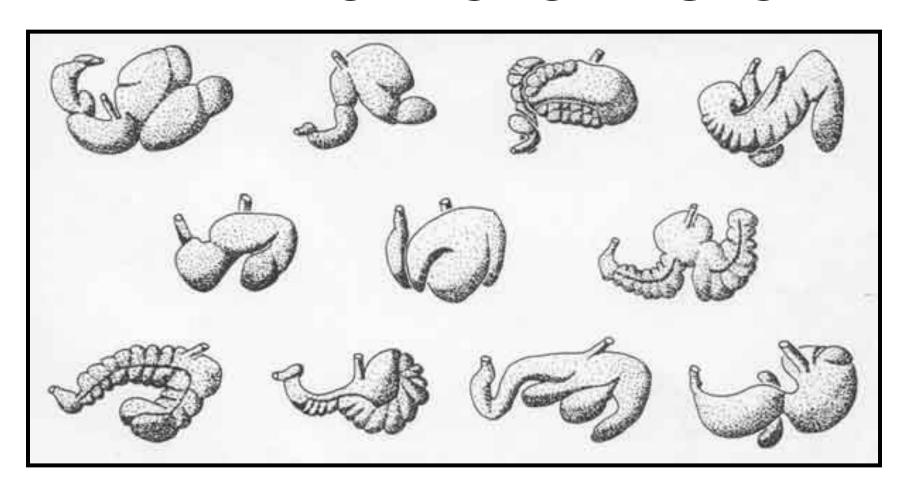
#### SIXTH PRINCIPLE

# SEEDS, GRAINS, LEGUMES AND NUTS ARE SOAKED, SPROUTED, FERMENTED OR NATURALLY LEAVENED

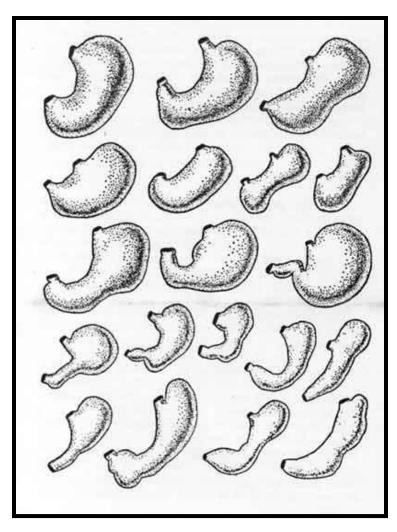
## PROPER PREPARATION MAKES SEED FOODS MORE DIGESTIBLE AND THEIR NUTRIENTS MORE AVAILABLE.

BENEFITS	REASON
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 57

# 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



# QUICK-CHANGE! from one Fabricated Food to another HOUR cleans system, changes extruder

ponents.





### **CRUEL BREAKFAST**





### MORE CRUEL BREAKFASTS

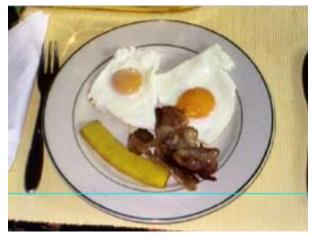
### **GOOD BREAKFASTS**



SCRAMBLED EGGS WITH SAUTÉED POTATOES



SMOOTHIE MADE WITH WHOLE YOGHURT, EGG YOLKS, FRUIT AND COCONUT OIL



FRIED EGGS WITH NO-NITRATE BACON AND FRUIT

#### GOOD GRAIN BREAKFAST





SOAK ROLLED OATS IN WARM WATER AND 1 TABLESPOON
 OF SOMETHING ACIDIC – WHEY, YOGHURT, VINEGAR OR
 LEMON JUICE – OVERNIGHT.



- 2. NEXT MORNING, BRING WATER AND SALT TO A BOIL.
- 3. ADD SOAKED OATMEAL, BRING TO A BOIL AND COOK, STIRRING, FOR ONE MINUTE.
- 4. COVER AND LET SIT SEVERAL MINUTES.



### GENUINE SOURDOUGH BREAD



Celiacs can tolerate genuine sourdough bread without problems.

Appl Environ Microbiol. 2004 Feb; 70(2): 1088-1096



#### 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.

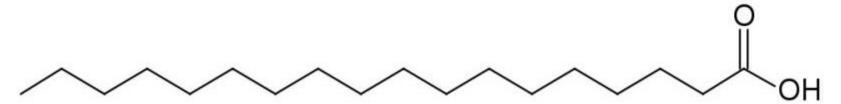
**OXALATES**: High levels can cause kidney stones.

MANGANESE: High levels can cause brain damage in infants.

#### SEVENTH PRINCIPLE

# ONLY NATURAL FATS NO INDUSTRIAL FATS AND OILS

#### 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 and 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 FIVE BASIC GOOD FATS AND OILS



Pastured Butter, Extra Virgin Olive Oil, Pastured Lard, Coconut Oil, Fermented Cod Liver Oil

75

#### THE BAD FATS!





















# EIGHTH PRINCIPLE 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

#### NINTH PRINCIPLE

# ALL TRADITIONAL CULTURES MADE USE OF BONES, USUALLY AS BONE BROTH

- 1. Supplies calcium and other minerals in a form easy to assimilate.
- 2. Supplies nutrients that help build healthy cartilage.
- 3. Supplies amino acids that help the body detoxify.
- 4. Supplies gelatin to help digestion.
- 5. Heals the digestive tract.
- 6. Regulates dopamine for mental/emotional health

#### FOODS THAT CONTAIN HIGH LEVELS OF MSG



















MSG has been linked to: diabetes, migraines and headaches, obesity, autism, ADHD and Alzheimer's.

#### INGREDIENTS THAT CONTAIN MSG

Monosodium Glutamate

Hydrolyzed Vegetable Protein

Hydrolyzed Protein

Hydrolyzed Plant Protein

Plant Protein Extract

Sodium Caseinate

Calcium Caseinate

Yeast Extract

Textured Vegetable Protein (TVP)

**Autolyzed Yeast** 

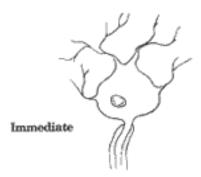
Hydrolyzed Oat Flour

Corn Oil

Soy Protein Isolate

#### **High Concentration MSG**

#### Lower Concentration MSG





From

#### **EXCITOTOXINS**

By

Russell Blaylock, MD

One hour





Two hours





# 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

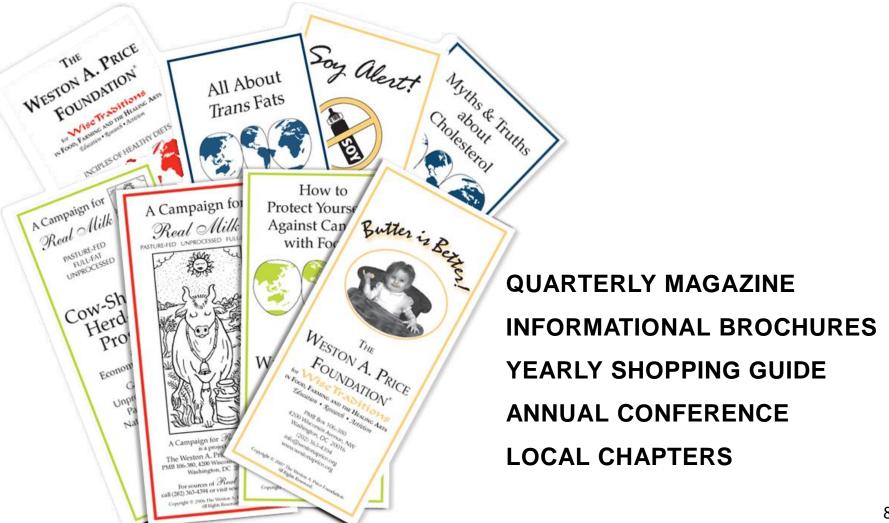
Less energy required for digestion

More energy for you!

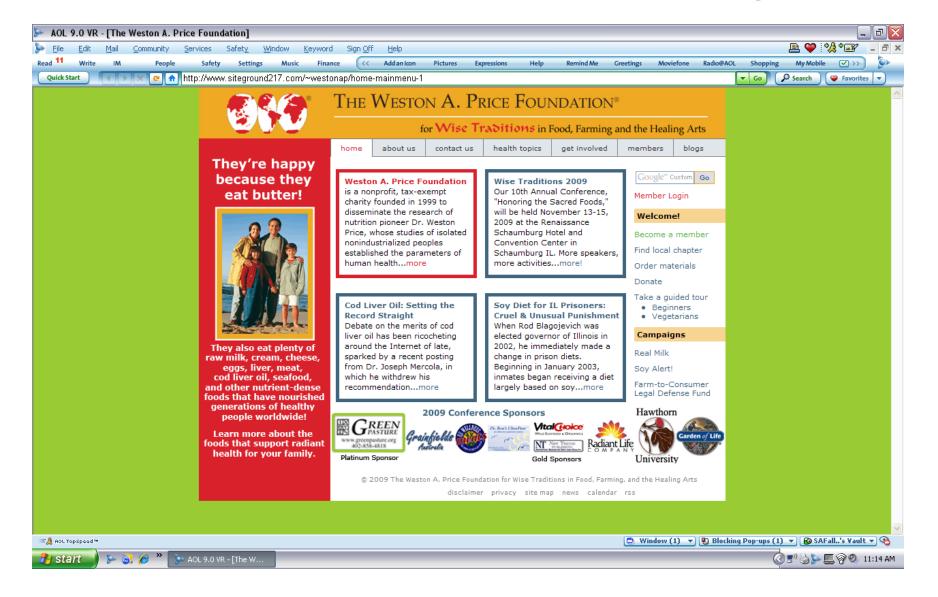


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for Wise Tradtions in Food, Farming and the Healing Arts



# www.westonaprice.org





#### The Weston A. Price Foundation®

for Wise Tradtions in Food, Farming and the Healing Arts

#### **Healthy 4 Life**









**Dietary Guidelines** 

from the Weston A. Price Foundation

for Cooking and Eating

Healthy, Delicious, Traditional Whole Foods

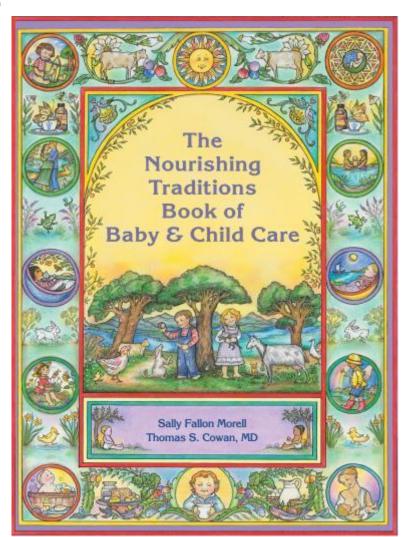
COLORFUL DIETARY
GUIDELINES AND RECIPE
BOOKLET BASED ON
FOUR FOOD GROUPS

#### NOW AVAILABLE

NewTrendsPublishing. com

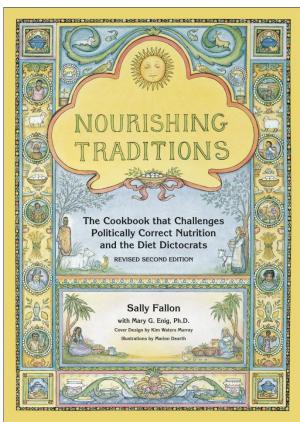
Amazon.com

**Bookstores** 

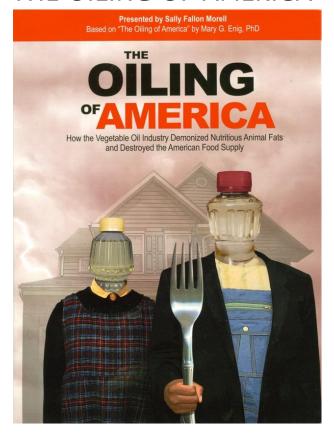


#### NewTrends DVD SERIES

FIVE-HOUR SEMINAR ON NOURISHING TRADITIONAL DIETS



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