

Disease Development





Nothing synthetic (human-made)

Definition of Naturopathic Medicine

Naturopathic medicine is a distinct primary health care profession, emphasizing prevention, treatment, and optimal health through the use of therapeutic methods and substances that encourage individuals' inherent self-healing process. The practice of naturopathic medicine includes modern and traditional, scientific, and empirical methods.

The 6 Foundation Principles

The Healing Power of Nature (Vis Medicatrix Naturae): Natural medicine recognizes an inherent self-healing process in people that is ordered and intelligent. Natural healing practitioners act to identify and remove obstacles to healing and recovery, and to facilitate and augment this inherent self-healing process.

<u>Identify and Treat the Causes (Tolle Causam)</u>: The natural healing practitioner seeks to identify and remove the underlying causes of illness rather than to merely eliminate or suppress symptoms.

<u>First Do No Harm (Primum Non Nocere)</u>: Natural healing practitioners follow three guidelines to avoid harming the patient:

Utilize methods and medicinal substances which minimize the risk of harmful side effects, using the least force necessary to diagnose and treat; Avoid when possible the harmful suppression of symptoms; and Acknowledge, respect, and work with individuals' self-healing process.

<u>Doctor as Teacher (Docere)</u>: Natural healing practitioners educate their patients and encourage self-responsibility for health. They also recognize and employ the therapeutic potential of the doctor-patient relationship.

<u>Treat the Whole Person</u>: Natural healing practitioners treat each patient by taking into account individual physical, mental, emotional, genetic, environmental, social, and other factors. Since total health also includes spiritual health, natural healing practitioners encourage individuals to pursue their personal spiritual development.

<u>Prevention</u>: Natural healing practitioners emphasize the prevention of disease by assessing risk factors, heredity and susceptibility to disease, and by making appropriate interventions in partnership with their patients to prevent illness.

Natural healing treatment ladder

- 1. Applies to every client & all treatments
- Begin with most basic, most important step& see slow, eventual, permanent progress
- 3. Begin at another level & there will be minor progress, but not long-term success
- 4. Begin with least "invasive" first step on the ladder and and move up toward more invasive as needed

Therapeutic Sequence

1. Re-establish the basis for health

Remove obstacles to cure by enhancing good health and lifestyle practices

2. Stimulate the general natural healing power of the body and mind

All systems (Western, Ayurveda, Chinese, etc.) have methods. Botanical, homeopathic, nutritional, hydrotherapy, acupuncture, psychological, spiritual

3. Tonify weakened systems

Any or all modalities

Strengthen immune system, decrease toxicity, balance inflammatory and metabolic functions, balance regulatory systems, promote regeneration, harmonize life force

4. Correct structural integrity

Exercise, manipulation, massage, etc.

- 5. Use specific natural therapeutic substances, modalities or interventions for actual current disease
- 6. Use drugs for pathology
- 7. Use Surgery, suppressive drugs, radiation and chemotherapy

Invasive

Changes body's processes external influence

More invasive the treatment, more it directs (forces) the processes of body

Less invasive the treatment, more it gives body building blocks or power to heal itself

Noninvasive

Diet

- Often the most wrong for the longest time
 Lifestyle
 - Exercise
 - Sleep Hygiene
 - Daily Habits
 - Stress management techniques
- Multivitamin mineral supplement
- Essential Fatty Acids (EFAs)
- Detoxify the indoor environment (home)

Natural healing starts with noninvasive treatment/techniques

Traditional systems emphasize (Good in theory)

Diet

Other non-invasive techniques

Natural healing starts with non-invasive treatment/techniques

Non-invasive treatments will lead to \majority of client's problems, help almost all clients

Potential for harm is near zero

Other steps much less effective for long-term until non-invasive steps applied

Less Invasive



Moderately Invasive

Severely restrictive diets (<1000 cals)

Symptom-suppressing homeopathy, chiropractic, acupuncture

Megadoses micronutrients or herbs (Nutrient pharmacology)

OTC medications with some exceptions (i.e., Tylenol)

Most Invasive

Maybe necessary, life-saving, still invasive

OTC Medications

(with exceptions, i.e., low dose aspirin)

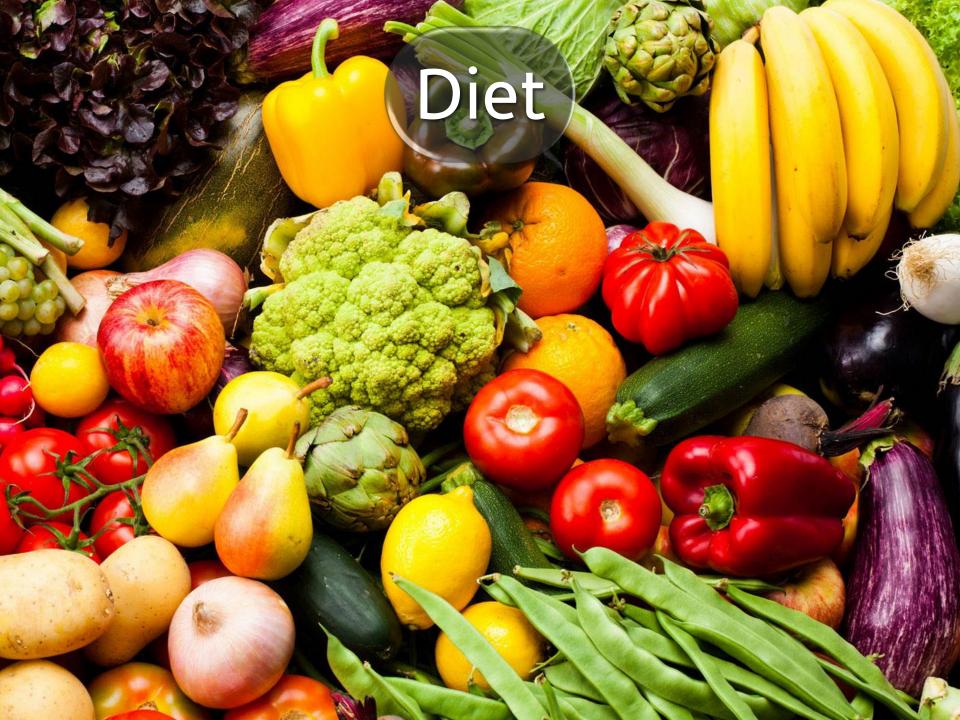
Prescription Medications

(with exceptions, i.e., opiates)

Surgery (removal/replacement body part)







Basic Principles of Health

Reducing oxidative stress

Lifestyle

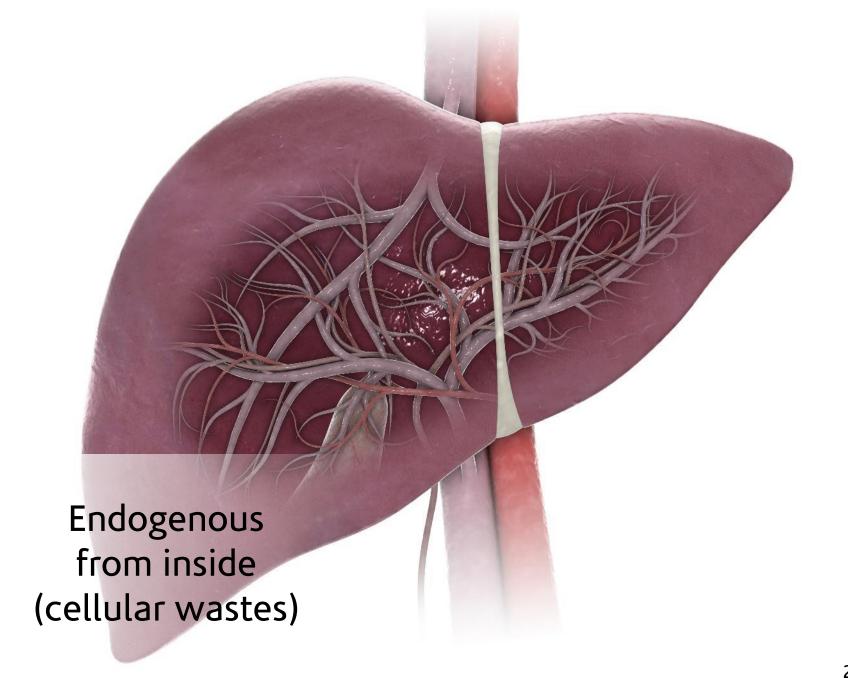
Reducing toxic exposure from environment

Mental and emotional health



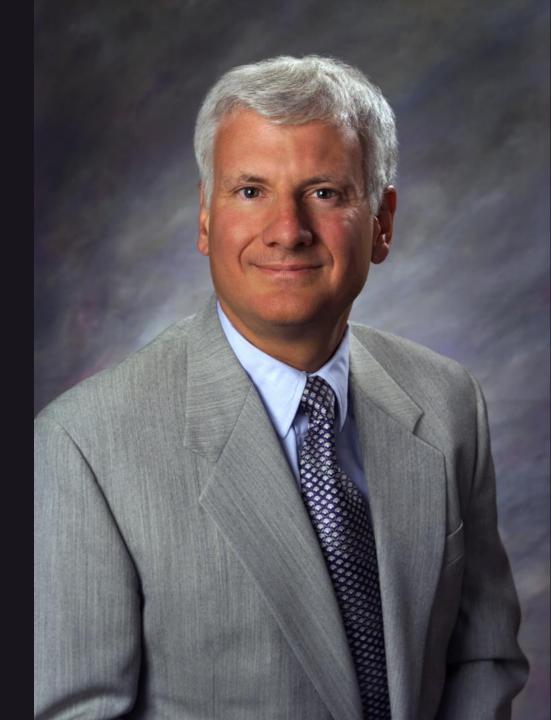




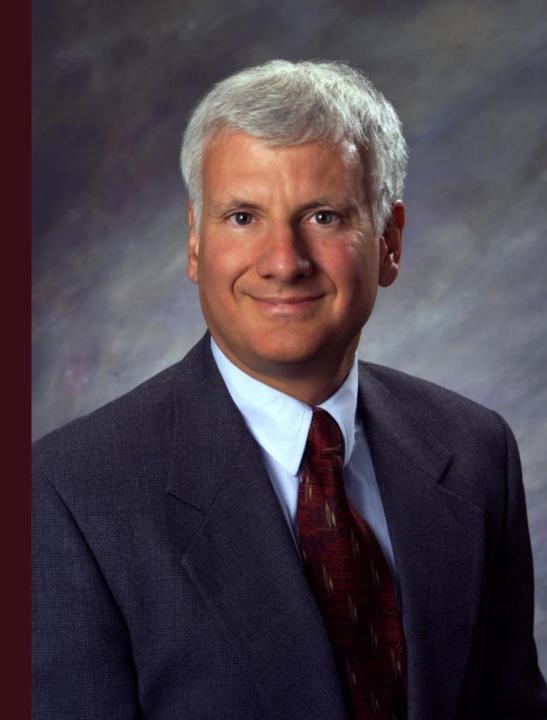




Joseph Pizzorno, ND
Founder and first
president,
Bastyr University



"Toxicity is the new normal"



http://drpizzorno.com/

"I have become convinced that the toxic load in modern civilization is now probably even more important than nutritional deficiencies in terms of causing diseases in our patients."

Pizzorno

Furthermore, the effect of exposure on multiple substances simultaneously, which is the norm, is essentially unknown.

For example, a recent study by the Agency for Toxic Substances and Disease Registry (ATSDR) found that when examining the components of 15 combinations and how they may interact, they predicted that 41% of them would have additive effects, 20% would have synergistic effects, but for 24% they did not have even the minimum information necessary to make a prediction.

It has been estimated that at current funding levels, it would take 1,000 years to adequately document the health effects of the chemicals commonly encountered in commerce and industry

Endotoxins from bowel flora have been associated with depression, chronic fatigue, inflammatory bowel disease, and atherosclerosis, effects partly influenced both by bacterial species as well as intestinal permeability

An example of enzyme poisoning is the displacement of zinc with lead), leading to a variety of behavioral and neurological abnormalities

The toxic metal arsenic, has been shown to disrupt a number of hormonal pathways. It disrupts the thyroid hormone and retinoic acid receptors

Elevated urinary levels of arsenic to be associated with the prevalence of Type II diabetes, likely by influencing genes associated with insulin sensitivity

"People in the top 10% of toxic exposure have a 20-fold increase risk for diabetes. These chemicals are insulin receptor site poisons. So, insulin receptors can't respond because they are being poisoned by those persistent organic pollutants."

"This detoxification capability is also greatly impacted by diet as [it is] dependent on the availability of key nutrients that are often deficient in the diet."

"As we have evolved as a species, we had about 100-150 g of fiber in our diet every day," he says. "Now in Western civilizations we have about 10-15 g of fiber every day."

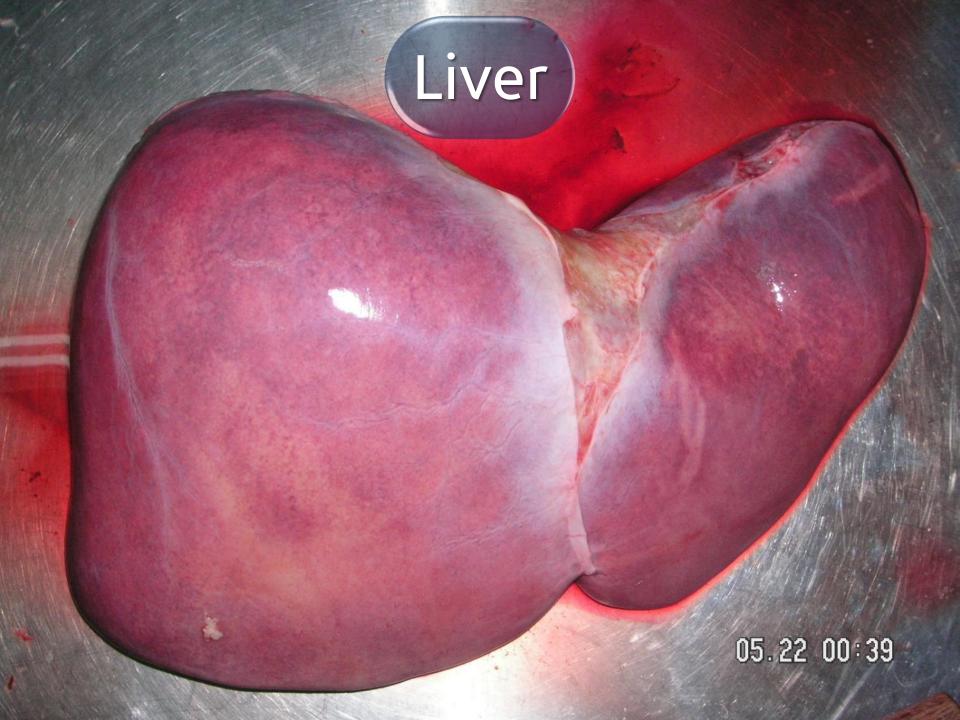






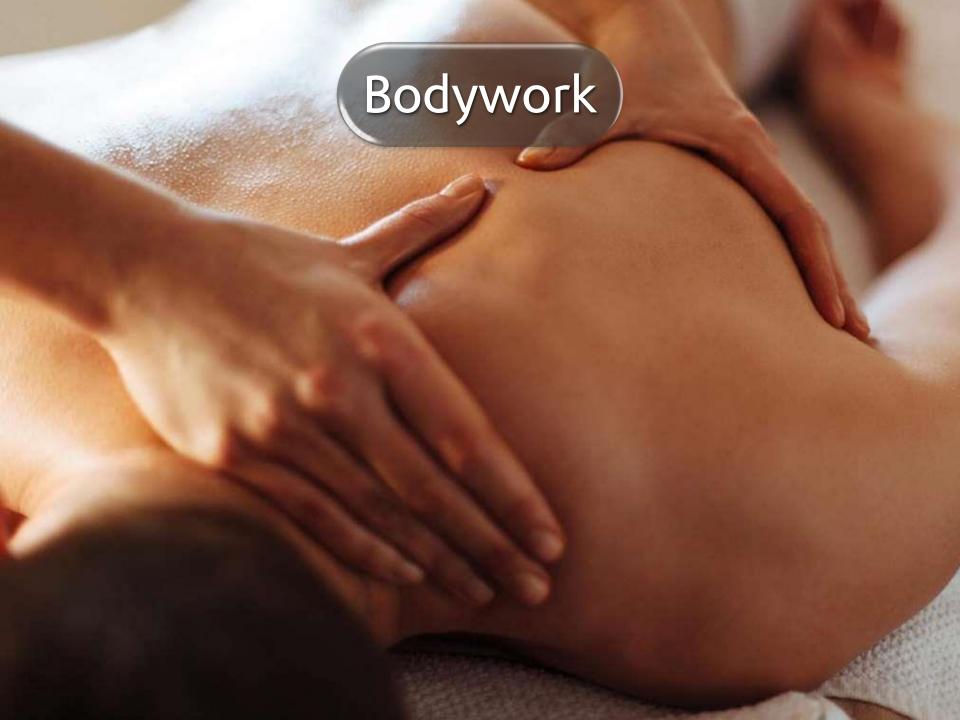














Modality	Comments
Homeopathy	Obscure for most people, adherence good
Acupuncture	Good for some conditions, not appropriate by itself for chronic degenerative conditions
Hydrotherapy	Mild Slow results
Psychotherapy	Effective, may be slow
Lifestyle changes	Effective long-term
Colonics	Effective for crisis 44















Herbs are not...











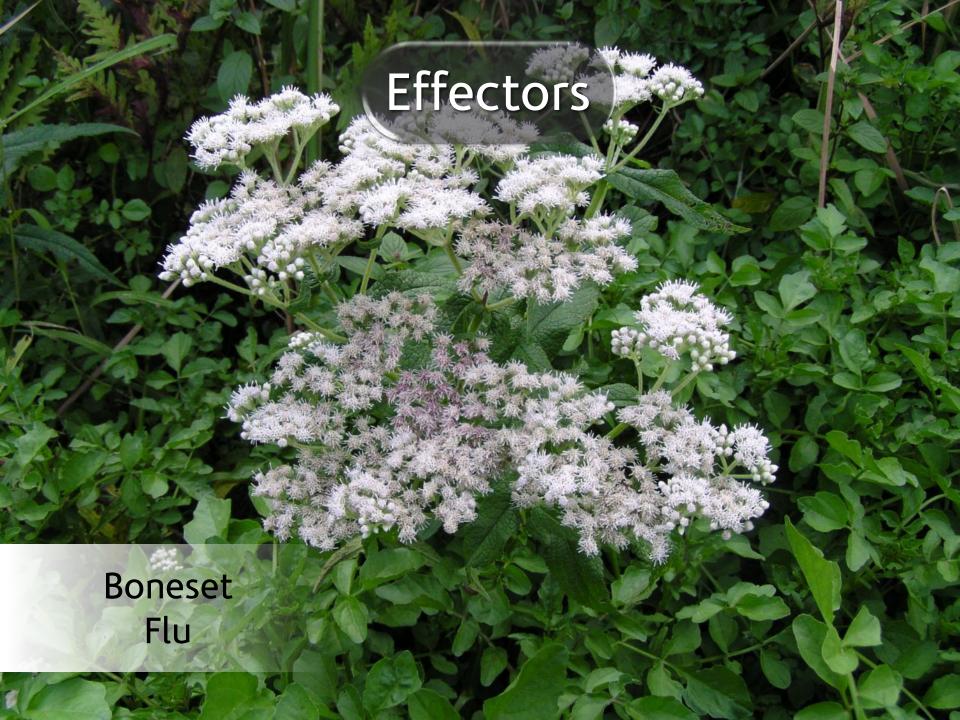




















Chinese aphorism on treatments

"yi bing tong zhi tong bing yin zhi"

Different diseases, same treatment Same disease, different treatments

"Its not the disease that the person has that matters, but the person who has the disease."



Quality

Use professional brands
Ask professionals for advice
Refer to professional resources
Journals, websites, blogs





Tea



Infusion

Delicate herb parts (flower, leaf)





Tea Advantages

Control of ingredients
No binders, additives, alcohol
Inexpensive
Easily swallowed
Convenient for high dose



Tea Disadvantages

Liquid volume

Taste

Messy

Time consuming

All active ingredients may not be extracted Spoilage



Tea Comments

Best for mild flavor & actions, large quantities Amounts (mild herbs):

30-90 grams dry herb per day, brewed (acute)

15-30 g dry herb per day, brewed (chronic)

Usual *beverage* dose: 1 tsp. dry herb/cup water

Usual teabag wt. is 2 grams

Life: brew, room temperature: 1 day

Brew, strain, refrigerate: 7 days

May brew more dilute, add sweetener/flavor







Tincture

Prepared by maceration (soaking or percolation)

Generally 1 part herb (weight) to 5 parts menstruum (volume) (1:5 strength) (20% strength)

May be 1:4

Put in 1 ounce water or juice to administer



Tincture advantages

Less expensive than capsules
(if packed in large quantity, typical 1 oz.
dropper bottles are most expensive)
Travels well, convenient
Easily swallowed & digested
Fast acting
Never loses potency



Tincture disadvantages

Taste

Requires liquid medium to dilute to swallow

Possible mess, spills

Alcohol content

All active ingredient may not be extracted

Necessary dose has strong bad taste



Tincture comments

Tinctures not more potent than other forms
all forms dose dependent

Solvents
alcohol, glycerin ("glycerite"), vinegar
extracts, preserves
for oil soluble ingredients

Std. dose 15 ml (app. 1/2 liquid ounce)/day

Shelf life: forever (proper conditions)







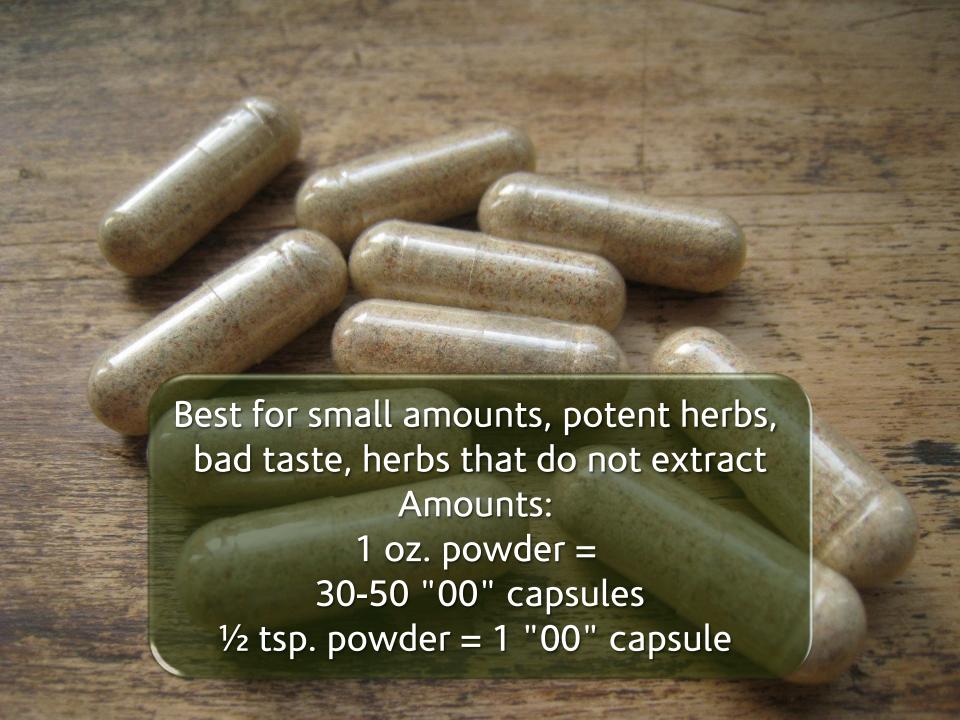
Capsule advantages

Entire herb used
No taste
Convenient, travel well
Easy dose count
Long life span (3 yrs)



Capsule disadvantages

Expensive
Absorbed slowly
Swallowing problems
Digestive difficulty
Little herb per dose













Label dose is not the real dose





Pharmacological

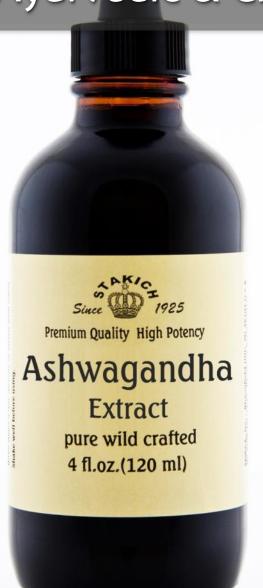
Dr. Suresh Kumar:

Standard daily dose of typical Ayurvedic decoction is 60 g crude herb, decocted, administered twice or thrice per day

Pharmacological

However, experience shows Indian dose is too high for good compliance by Westerners, so amount can be reduced to 15 or 30 g

Tinctures for Ayurvedic & Chinese herbs?



Never tinctured before in history





















Vital Force

The Inner Healing Power of the Body

Inherent body healing wisdom

Listen to and read the Vital Force to guide the client to health

Symptoms

The body produces symptoms for a reason Suppressing symptoms does not bring cure

The body has a healing priority order

Vital Force prioritizes health and recovery

Survival priority order

Some symptoms respond to treatment quickly

Constipation

Anemia

Pain

Gastritis (heartburn)

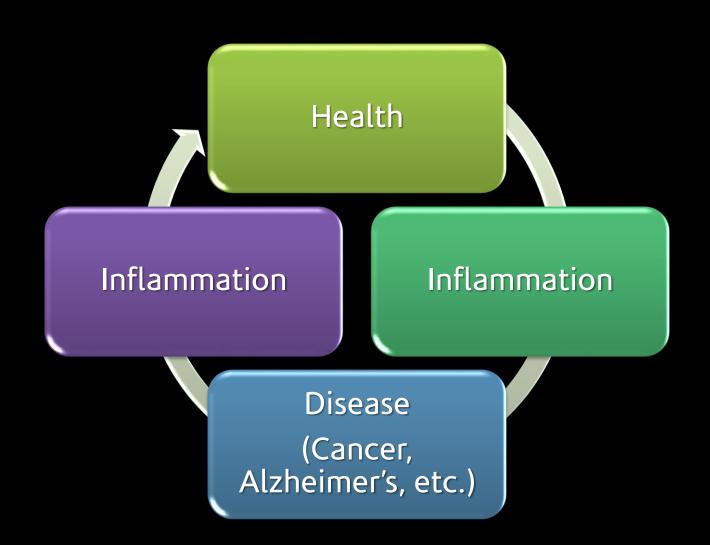
Cold & flu

Bacterial infection

Some symptoms long-term approach

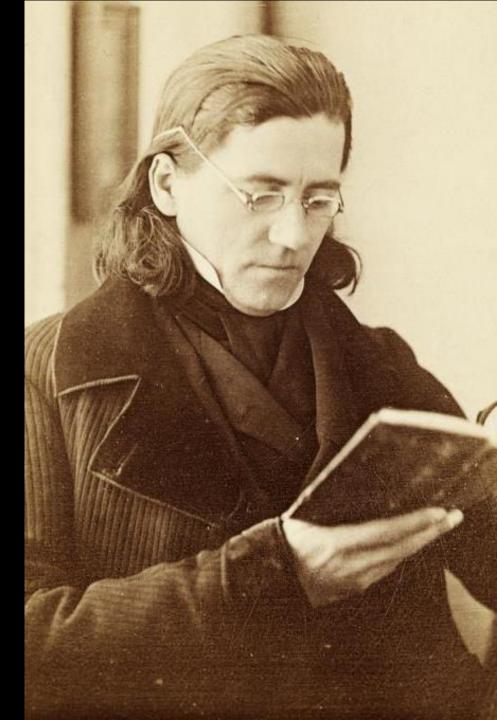
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Fatigue
Inflammatory skin disease
  (dermatitis, adult acne)
Chronic degenerative conditions
  (arthritis, diabetes)
Eyesight
Cataracts
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Inflammation and disease



Hering's Law

Constantine Hering Founder, Homeopathic Medical College of Pennsylvania



Hering's Law

"Cure proceeds from above downward, from within outward, from the most important organs to least important organs and in the reverse order of appearance of symptoms."

Symptoms as body responses

Symptoms are manifestations of necessary body responses

Based on:

- Genetic predisposition
- Emotional and physical environment
- Stress level
- Diet
- Lifestyle and habits



"If it came from a plant, eat it; if it was made in a plant, don't."

Michael Pollan



Whole Foods

Nutrient dense

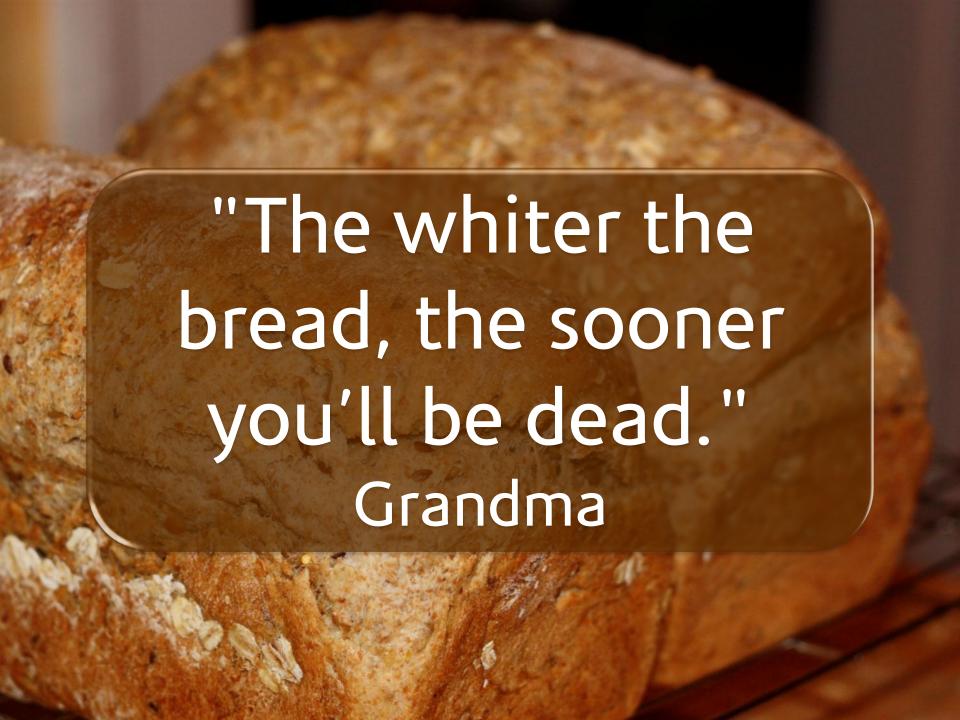
Fiber rich

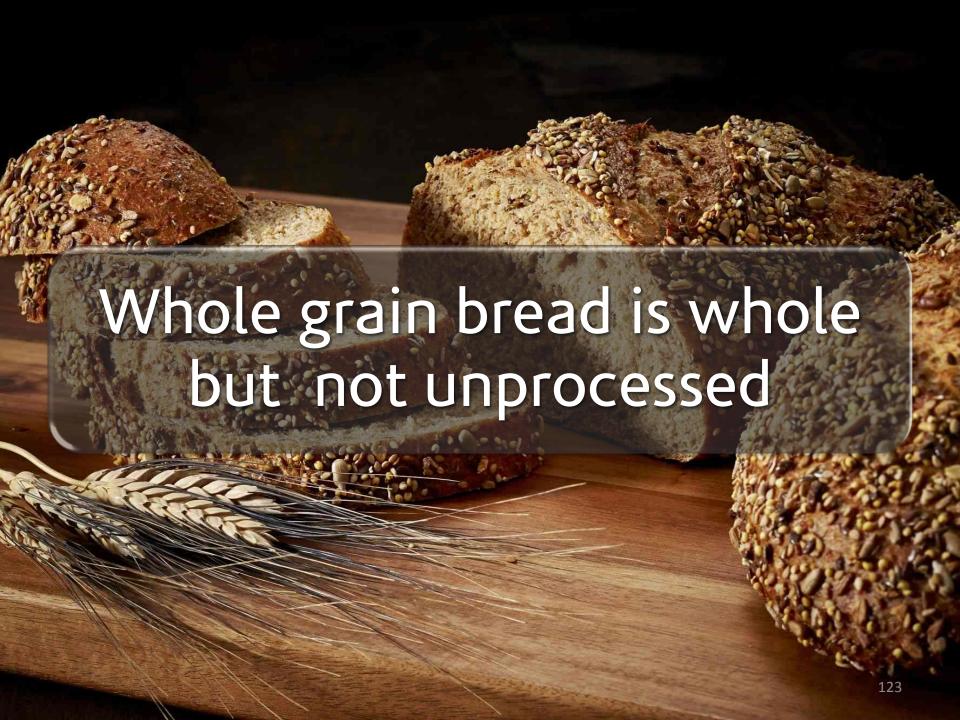
Eliminate artificial flavors, colors, preservatives, sweeteners and hydrogenated fats

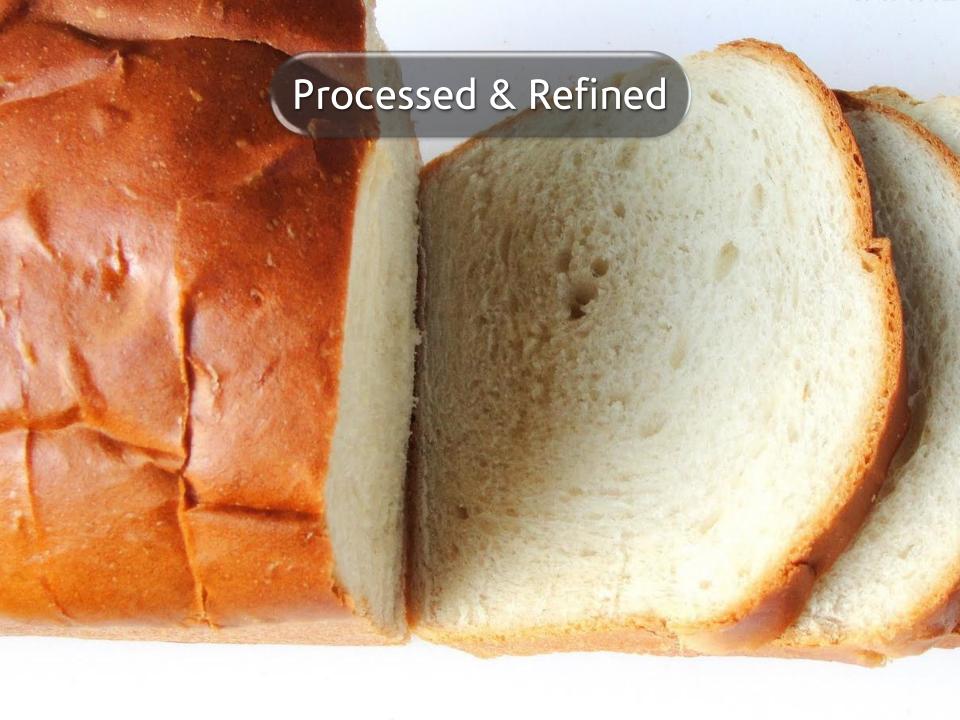
Cook.

"Cooking for yourself is the only sure way to take back control of your diet from the food scientists and food processors."

Michael Pollan

































Whole Herb Advantages

Whole Herb Disadvantages

All constituents intact

Higher dose (usually)

Not processed

(usually)

Taste, Mess

Less expensive for same result

Possible digestive stress

Herb Extract Advantages

Herb Extract Disadvantages

Lower dose (usually)

Limited constituents

Tuncant and constitutest

Processed

Guaranteed constituent %

More expensive for same

Targeted effect

Iore expensive for sam result (usually)



Research: many vegetables lost significant nutritional value

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1950
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3 ½ oz. string beans

9% of daily calcium

1999

3 ½ oz. string beans

5% of daily calcium (43% drop)

2004

Donald Davis, University of Texas at Austin USDA data on vegetable nutrients 1950 to 1999 Notable decreases key nutrients

Calcium

Iron

Phosphorus

Riboflavin

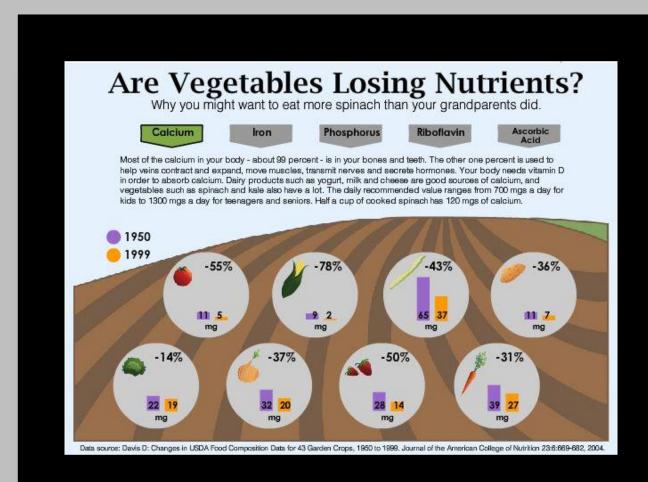
Ascorbic acid

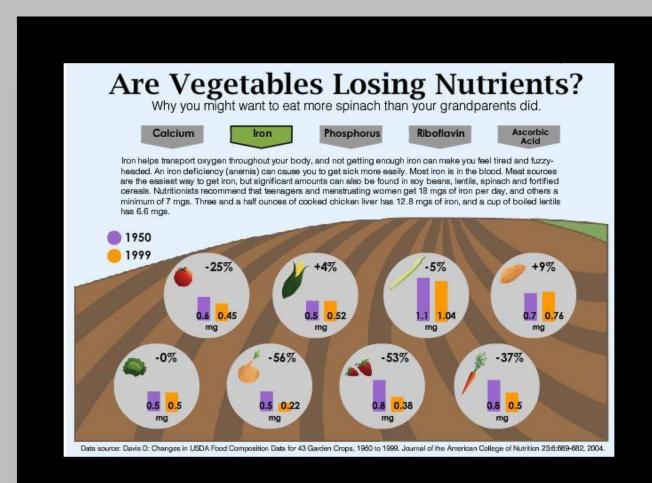
Reason? Breeding high yield varieties

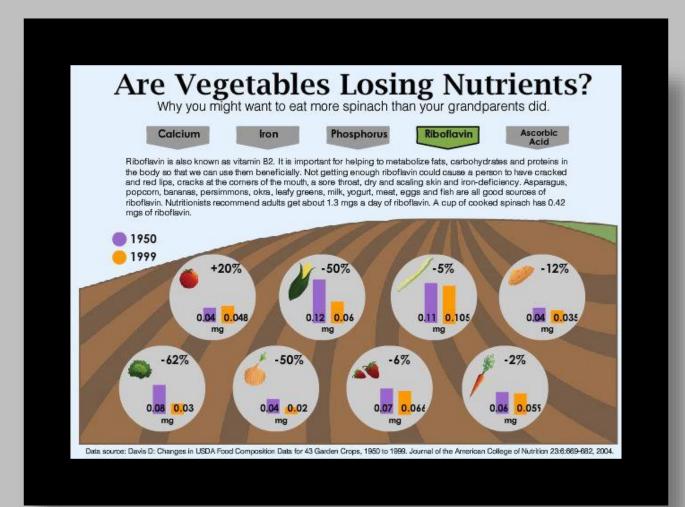
50 years producing crops varieties yield more Ignoring effects on nutrient content

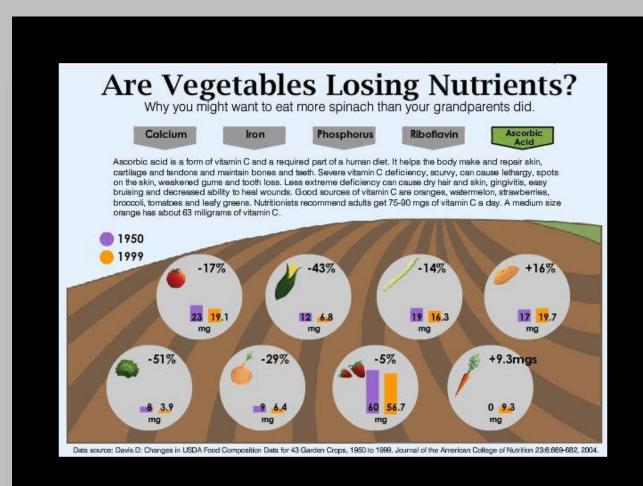
Davis cites studies that compared high-yield varieties to non-high-yield varieties, same soil & growing conditions

Found decreased nutrient content in high-yield











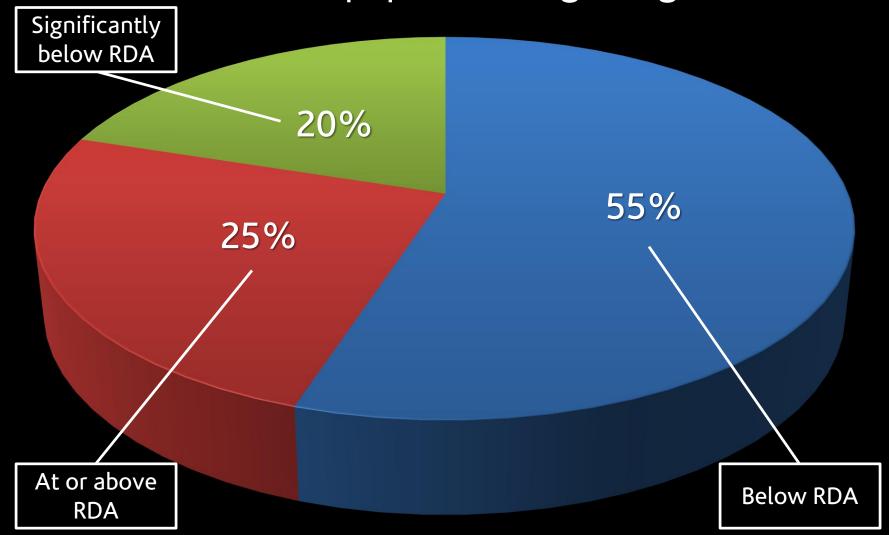
Magnesium

Most common nutritional deficiency in US (after vitamin D)

Magnesium content in foods varies widely, as does the soil content of magnesium

U.S. Magnesium Intake

Percent U.S. population ingesting RDA



Magnesium

Some studies 90-95% U.S. population deficient Most American adults not get RDA 400-500 mg "It is highly regrettable that the deficiency of such an inexpensive, low-toxicity nutrient results in diseases that cause incalculable suffering and expense throughout the world."

Tong, GM and RK Rude. 2005. Magnesium deficiency in critical illness. J Intensive Care Med 20 (1):3-17. Review.

Deficiency signs

Muscle cramps or twitches

Insomnia

Irritability

Sensitivity to loud noises

Anxiety

Autism

ADD

Palpitations

Angina

Constipation

Anal spasms

Headaches

Migraines

Fibromyalgia

Chronic fatigue

Asthma

Kidney stones

Diabetes

Obesity

Osteoporosis

High blood pressure

PMS

Menstrual cramps

Irritable bladder

Irritable bowel syndrome

Reflux

Trouble swallowing

Inflammation

High CRP levels

Vitamin D

85% Americans deficient

Vitamin D

Pacific Northwest 95%



Timing

Many experts estimate

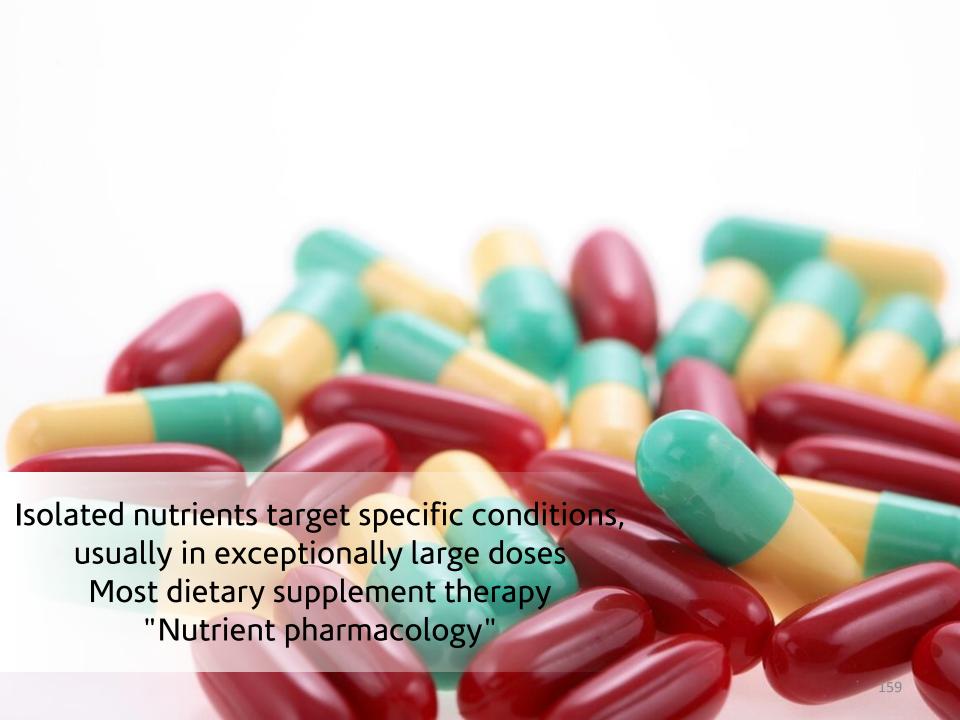
One month recovery

for each year of symptoms

Main objectives

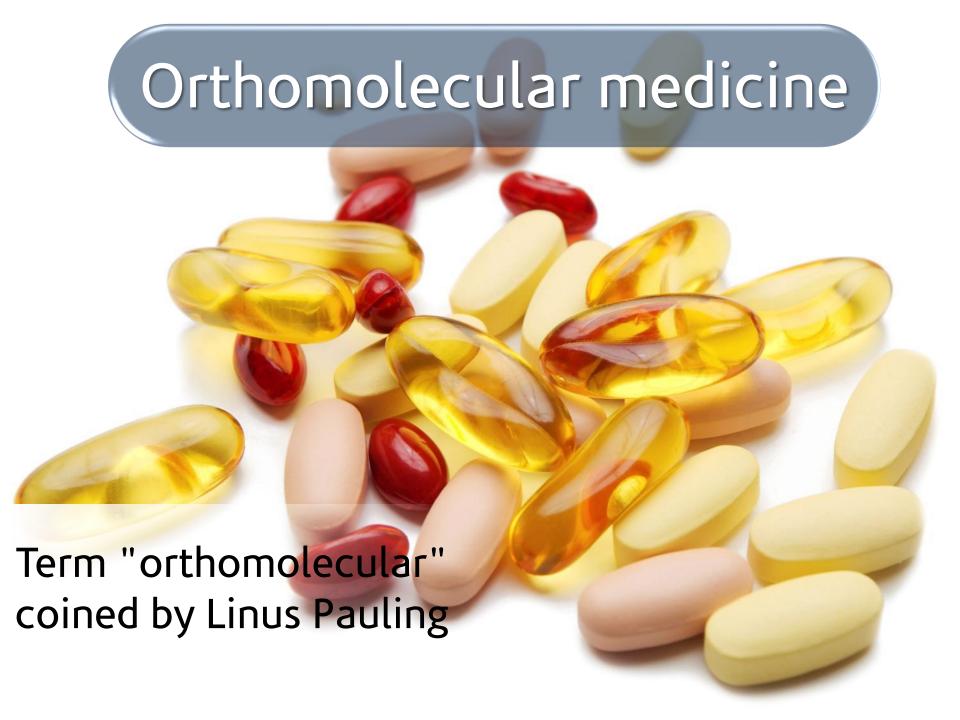
Fill the micronutrient tanks
Detoxify
Resolve current symptoms if possible
Support basic tissues and function
Plan for the future
Anti-aging

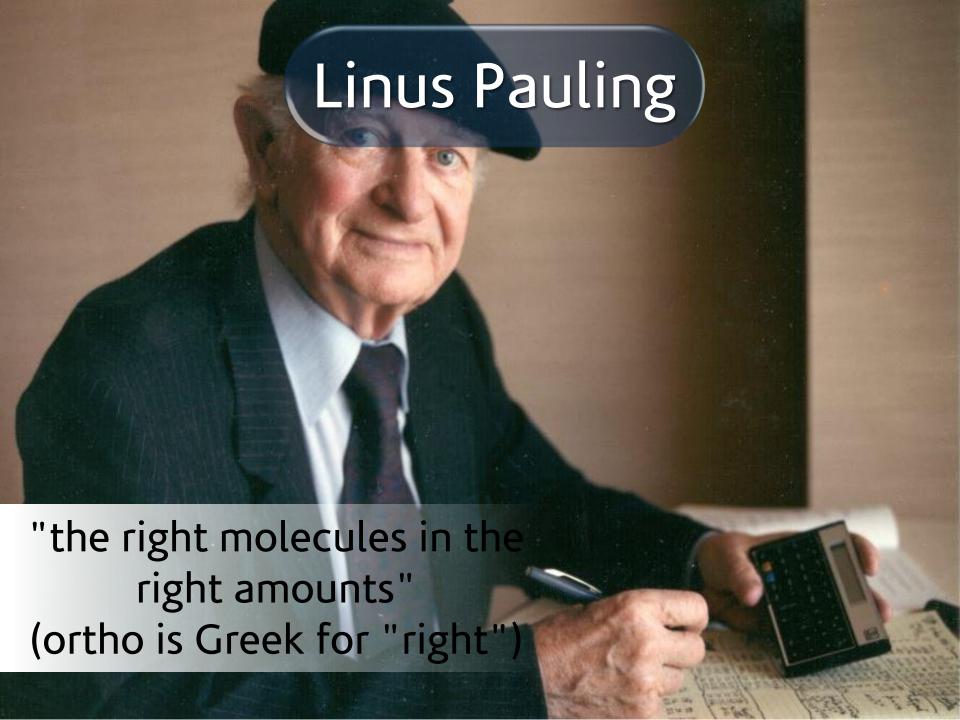




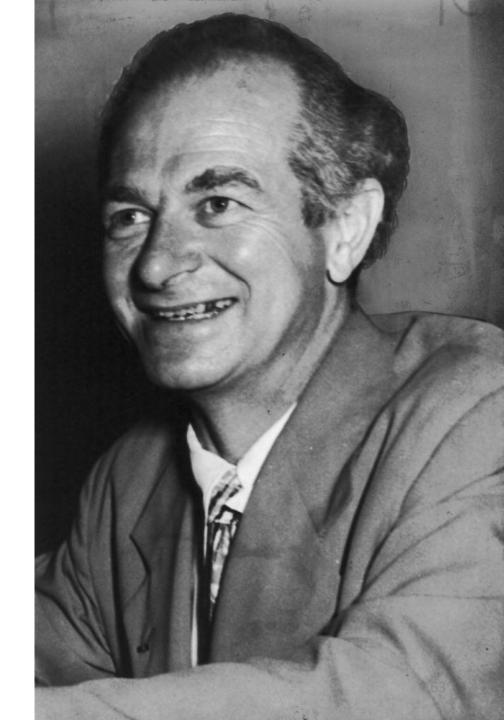
Also known as...

Orthomolecular medicine
Orthomolecular psychiatry
"ortho" = correct ("orthodox")





Linus Pauling Born in Portland, OR





Orthomolecular medicine

Form of CAM

Maintain health & prevent or treat disease by optimizing nutritional intake and/or supplements

Also called megavitamin therapy

Doses of vitamins/minerals many much higher than Dietary Reference Intake

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Also:
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Dietary adjustment

Megadoses of non-vitamin nutrients (ex. Lipoic acid)

Drugs

Non-optimal nutrient levels cause health issues beyond simple deficiency

Involves:

individual biochemical variation inborn errors of metabolism

Orthomolecular psychiatry

Orthomolecular medicine for mental illness

1950s Psychiatrist Abram Hoffer

acute schizophrenic episodes high doses of niacin



ORTHOMOLECULAR MEDICINE FOR EVERYONE

Megavitamin Therapeutics for Families and Physicians

- The basics of orthomolecular medicine explained
 - · 5 simple rules for healthy eating
 - How to take vitamins, minerals, and other nutrients in optimum doses
- Megavitamin therapy for arthritis, cancer, behavioral problems, and many other conditions

Abram Hoffer, MD, PhD, and Andrew W. Saul, PhD

Carl Pfeiffer

Carl Curt Pfeiffer, M.D., Ph.D. (1908–1988) **Biochemist** Chair, Pharmacology Dept Emory University Researched schizophrenia, allergies interested in trace element & mineral metabolism, amino acids Schizophrenia, bipolar disorder

Functional medicine

Identify and address the root causes of disease

Functional medicine

Treatments and drugs that may not have clinical research evidence

homeopathy

orthomolecular medicine

detoxification

Functional medicine

"Diet, nutrition, and exposure to environmental toxins play central roles in functional medicine because they may predispose to illness, provoke symptoms, and modulate the activity of biochemical mediators through a complex and diverse set of mechanisms."



Jeffrey Bland, PhD Institute for Functional Medicine

GENETIC OUTRITIONEERING

How You Can Modify Inherited Traits and Live a Longer, Healthier Life

- Is All Disease Inherited?
- How Can Food and Nutrients Improve Gene Expression?
 - Can We Reprogram Our Genes?

JEFFREY S. BLAND, Ph.D.

WITH SARA H. BENUM, M.A



(Vitamin D

Deficiency Nutrient **Optimal** Wellness **Symptoms** Pharmacology 100 ng/ml 75 ng/ml 2 ng/ml Physiological Cancer **Rickets**

Level

Autism

Death

Optimal health

Diagnosed pathology Clinical disease

Defined disease Early stages Nonspecific functional defects Chronic complaints
Reduced function
Impairment of biochemical functions

Some loss of function
Age-related decline
Subclinical insufficiency

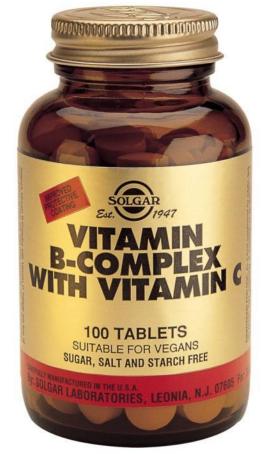
Optimal tissue levels

Nutrient Pharmacology

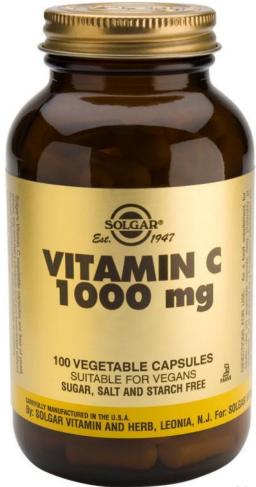
For Disease

Vitamin A Crusadian Nutritional Opti Vitamin A A Dietary Supplement 5,025 I.U./Drop 1 FL. OZ. (30 ML)

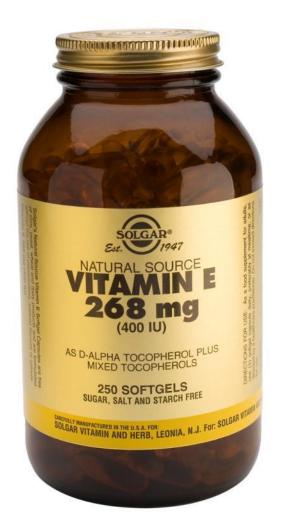
Psoriasis Warts Vitamin B, individual and complex almost all applications



Vitamin C detox, immune, asthma



Vitamin E burns, injuries, scars



Lysine Virus



Tryptophan Sleep



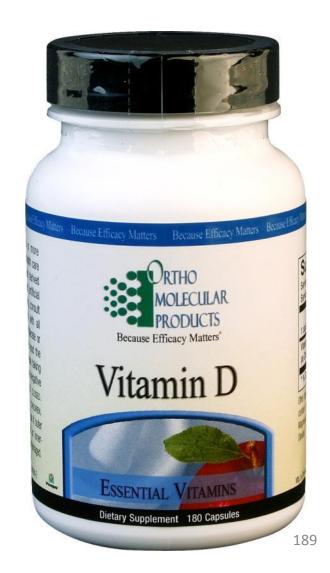


Fatigue

Quercetin Inflammation



Vitamin D What is proper level?





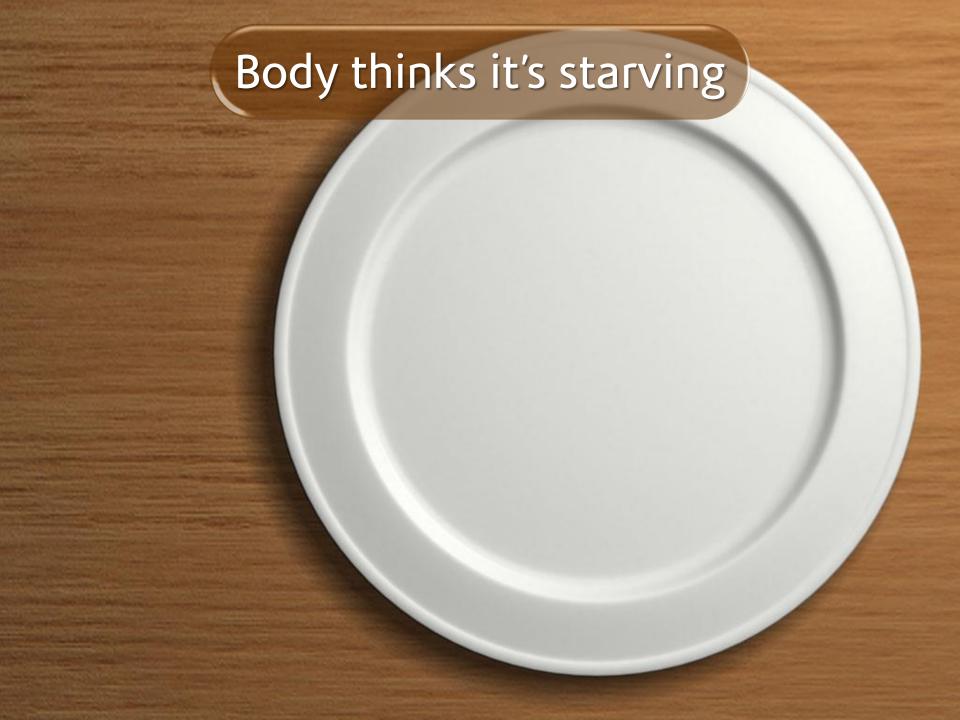
Food therapy

- 1. Aggressive targeted
- 2. Long-term lifestyle diet











Reduces complications Allows digestion to rest



Monodiets

Less stressful
than water fasting
Gives digestion a break
Adjust for condition of patient

Monodiets

Still provides some calories for energy
Vegetables better than fruit (blood sugar)
Easy to manage
Boring

Types

Mung beans and rice
Vegetables and rice
Raw green vegetables
Melons



Water Lemon/Honey, etc.

















THE TONIC LIFE

The Tonic Life

Building Balancing Broad spectrum Energy Sexual function Immune

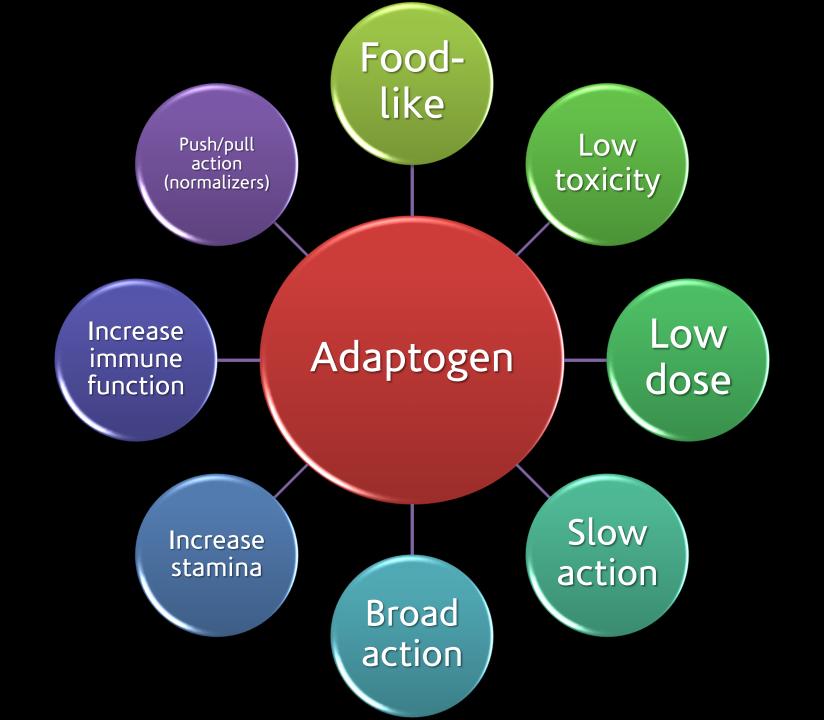
The Tonic Life

Tonic Herbs Tonic Food **Tonic Supplements** Tonic Sleep Tonic Exercise





TONIC = ADAPTOGEN



Adaptogens

Food-like

Low toxicity

Low dose

Slow action

Broad action for every system

Increase stamina

Increase immune function

Push/pull action (normalizers)









Rely on



