



OPQRST

O: "as long as she can recall"

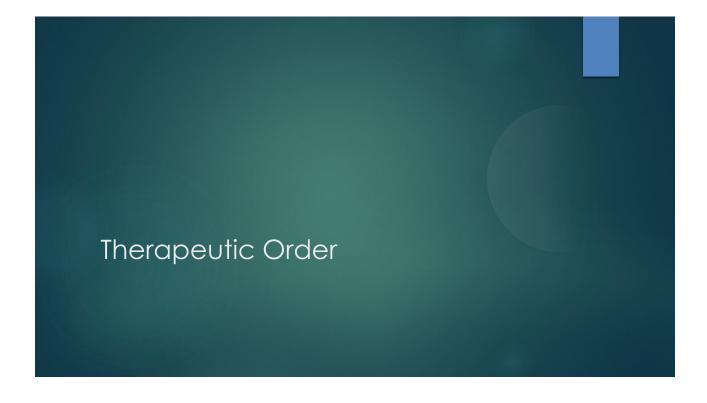
P: improved by feeling part of something she can believe in.

Q: loss of self, grief, empty, constant pull back and forth

S: 10/10 (10 being worst).

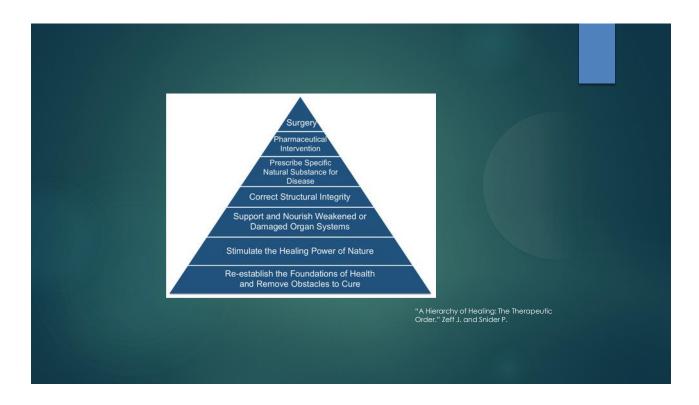
Past Medical History

11yo: Graves' dz 13yo: RAI Ablation 14yo: family issues



A Therapeutic Order

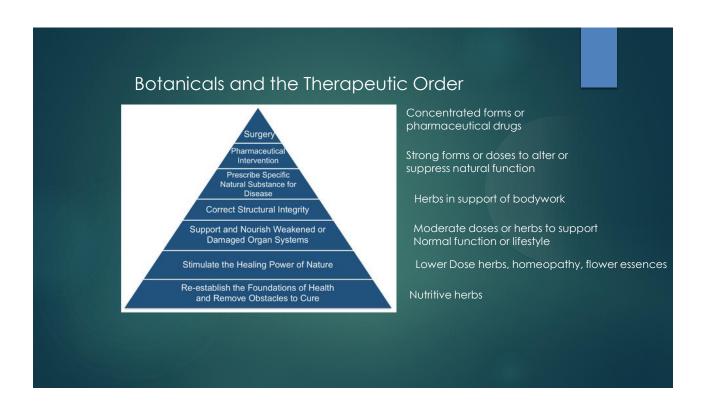
- ▶ A therapeutic strategy that seeks first to establish the normal determinants of health and life.
- ▶Strong treatments with suppressive effects may be used in a harm-reduction strategy if more basic intervention are not possible.
- ▶ Asclepias: "First the Word, then the Herb, and then the Knife"
- ▶Nei Jing: "Once you have resorted to needles and herbs you have already failed."
- ▶Baghdad Medical Exam (800 AD) "Anyone found to have used a strong herb when a mild herb would do, or a mild herb when dietetics would suffice, or dietetics when a lifestyle change would suffice, shall be disqualified from practicing medicine in the marketplace."

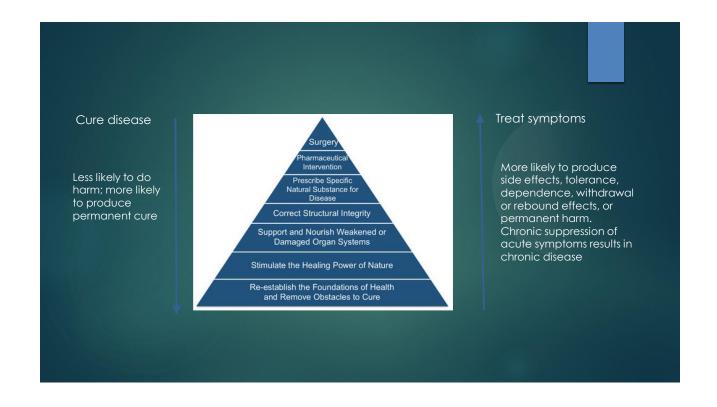










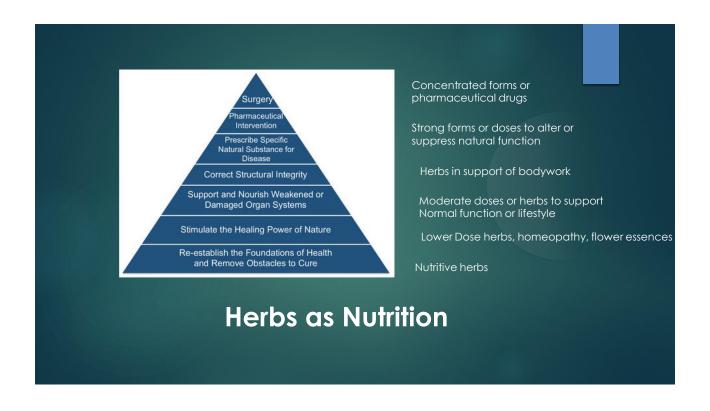


▶Edward Bach

"In correct healing nothing must be used that relieves the patient of their own responsibility, but such means only must be adopted that help them overcome their faults.

▶Henry Lindlahr:

Question: "Why don't more people use your methods if they work so well? Reply: "Because they require a degree of self-mastery and most people don't want that."



Experience at NAIMH clinics

- ▶Student experiences in first weeks of school
- ▶"Quart a day" herbal tea strategy
- ▶Ongoing NAIMH "style" over the years.
- ► May substitute for soft drinks.

Nutrition vs. herbs in healing

- ▶In every era of human history, except the past 150 years, an herbalist was first a dietician, and then an herbalist.
- Setting the basics of life in order, including the nutrition, is the foundation of healing (as opposed to treating by the book.)
- ▶ Using herbs for their *nutritive* role (as opposed to pharmacological) is a fundamental pillar of healing.

Nutrients and the role of herbs

- ▶Protein
- **▶**Fats
- ► Metabolic carbs
- ▶Non-metabolic carbs
- **▶** Vitamins
- **►**Macrominerals
- ▶Trace Elements
- ▶Flavonoid/antioxidant

- ▶No contribution
- ▶No contribution
- ▶No contribution
- ▶Roots of some herbs
- ▶Some food-like herbs
- ▶ Significant contribution
- ► Contribution significant to critical
- ▶ Significant contribution

Non-metabolic carbohydrates

- ▶Indigestible fibers provide food for microbiome.
- ▶Include starches, polysaccharides, inulin, pectin, mucilage
- ▶Microbiome metabolizes these to short-chain fatty acids (SFCA)
- ▶SFCA in humans provide about 10% of caloric needs.
- ▶SFCA also have regulating role on immunity, insulin resistance, glycemic control, etc.

Herbs containing Inulin

- ▶ Arctium lappa (Burdock) 50% of root weight
- ▶Inula helenium (Elecampane) 40% of weight
- ▶Taraxacum officinale (Dandelion) 25% weight
- ▶Of these, only *Arctium* is mild enough to consume as food without strong medicinal effects.
- ▶Japanese gobo root is a cultivated variety
- ▶ Arctium root powder is mildly sweet (not bitter). It can be consumed as a teaspoon to a tablespoon sprinkled on or in food at meals.
- ▶Specifically feeds a segment of friendly bacteria. Lactobacillus and Bifidobacter.

Minerals and Trace elements

- ▶ Critical roles in structures and also as rate-limiting enzymes for thousands of processes in the body. See examples:
- ▶ Copper and silicon are necessary for cross-linkages of collagen and elastin in connective tissue
- ▶Boron is essential to bone metabolism and insulin function
- ▶ Chromium essential to insulin function
- ▶Example: lithium essential to emotional balance.

21st Century crisis in mineral nutrition

The depletion of soil minerals

- ▶Primeval top soils are rich with minerals pulled from deep below & deposited on top.
- ▶ Agricultural foods draw the minerals up.
- ▶Plant material removed from the system removes the mineral content.
- ▶In the absence of remineralization of the soil through fertilizers, the average soil will not be able to produce food after about ten years.
- ▶Each crop over that ten years contains less mineral nutrition than the one before it.

- ▶Traditional farmers developed ways of recycling nutrients to the soil.
- ▶Wild plants, seaweeds, animal bones, etc, return the full spectrum of minerals and trace elements
- ▶Plant metabolism requires nitrogen (N) from the air, fixed into the soil by bacteria, or as manure/urine; It also requires Phosphorus (P) and Potassium (K). Most plants do not require the trace element spectrum.
- ▶ Synthetic NPK fertilizer has enabled sterile soils to produce food throughout the world especially since the 1960s.
- ▶The resulting food looks like food but is essentially remineralized.

Minerals in wild vs. cultivated greens

>		Nettle Leaf	Cabbage	Chang	е
►Calcium -95.13		966.67		47	
►Magnesium -94.76		286.67		15	
▶lron (mg)		1.40		0.59	-57.85
▶Potassium		583.33		246	-57.82
▶Manganese	0.26		0.159	-38.84	
▶Zinc		0.16			0.18
+14.89					

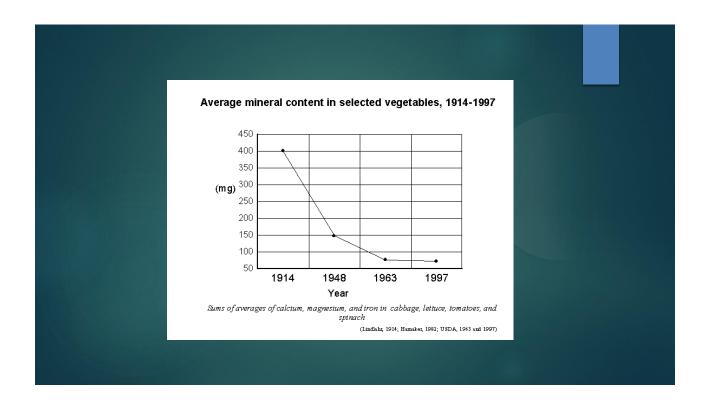
^{*} measurements in grams per ounce.

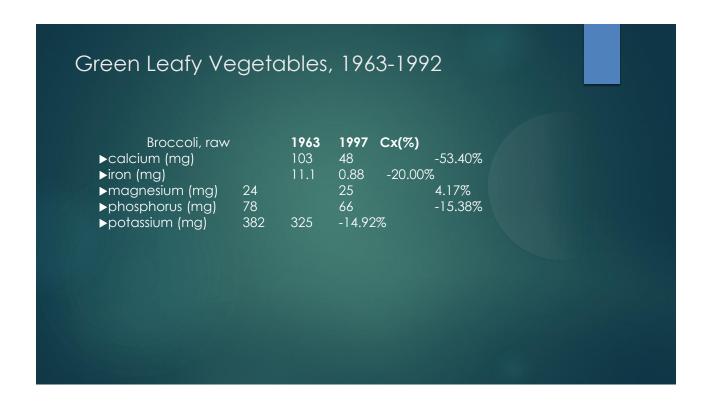
- ►Mineral content in a food or herb is entirely dependent on the minerals on the soil in which they have grown.
- ▶No food or herb has a specific amount of minerals.
- ▶Organic food do not necessarily contain more minerals to meet organic standards.
- ▶Only if the farmer takes specific steps to re-mineralize the soil will the food or herb have more minerals in it.



The Fedicamp organization in Nicaragua teaching rural farmers to make a mineral stew to replace depleted minerals in their fields

https://www.organic-center.org/hot-science/farmstoryometepenicaragua/

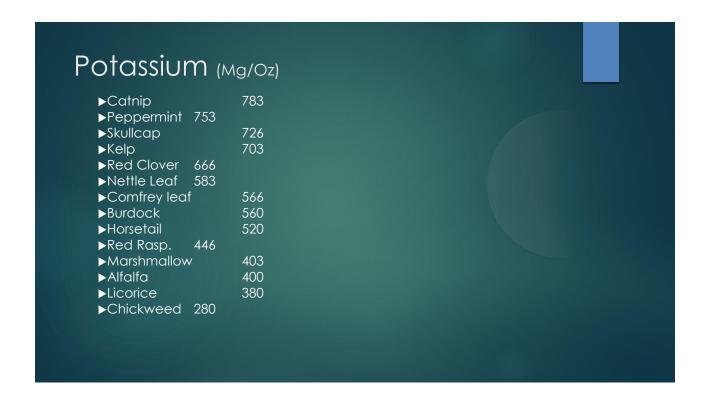




Significant and broad spectrum loss of minerals and trace elements All grains All beans All vegetables All fruits All meats

≻ Kelp	1013	Calc 289	Mag	
Nettle Leaf	966	286		
·Horsetail	630	145		
Comfrey leaf	600	23		
Peppermint	540	220		
•Oatstraw	476	400		
Red Clover	436	116		
Red Rasp.	403	106		
-Chickweed	403	176		
Alfalfa	299		76	
Licorice Marshmallow	292 272	172	321	
Maishinallow	2/2	1/2		

			Iron				
Chromi	ium	Mang	Sel	Sil			
Red Rasp.		3.3	0.04				
	0.08	0.04					
Catnip		4.6	0.09				
	0.41	0.00					
Nettle Leaf		1.4	0.13				
0.26	0.07	0.34					
-Kelp		0.5	0.02				
	0.06	0.03					
-Horsetail		4.1	0.01				
0.23	0.04	1.29					
►Red Clover		0.0	0.11				
0.20	0.03	0.04					
▶Burdock		4.9	0.01				
	0.05	0.75					
►Comfrey leaf		0.4	0.06				
N 19	0.04	0.30			1.4 3/4	HP7//	



Strong teas

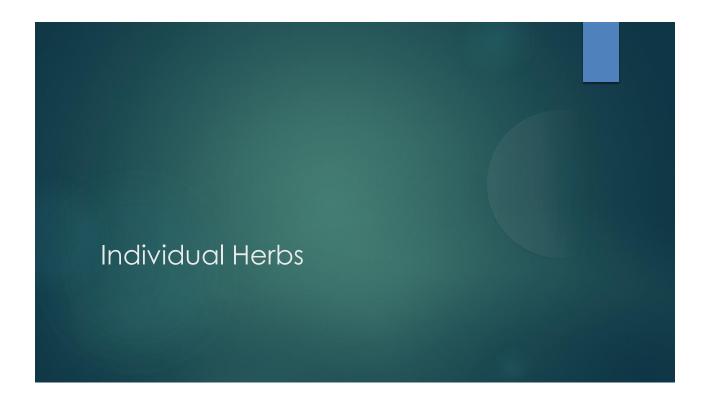
- ▶Overnight soak followed by standard decoction (30 minute simmer). A method of the British Physiomedicalists. Requires much lower dose of the final product.
- ▶Coffee pot/hot-plate method (de-fusion at lower heat)
- ▶ Canning Jar. Fill 1/5 with herbal material. Cover with boiling water, seal. Let stand overnight.
- ▶French Press
- ▶Add 1 T blackstrap molasses to enhance mineralization











Urtica spp Nettle

- ► May eat in food quantities
- ▶Do not eat "late nettles" after seeding.
- ► Make rich decoctions
- ▶ Combine with complementary nutritive herbs
- ▶Drying and diuretic in effects.
- ▶ Combine with moistening herbs (licorice, marshmallow)
- ▶ Medicinal effects; anti-inflammatory; anti-diabetic

Avena sativa Oat Straw

- ▶Differentiate oat seed, from straw, from preparations of "milk."
- ▶Straw contains high amounts of minerals and trace elements
- Straw has little humoral effect, it is not particularly hot, cold, drying, or moistening.
- ▶Thus is can be used to "juice" up other herbal decoctions with some nutrition, without otherwise much altering their flavor or medicinal effects.
- ▶Should be avoided in a gluten-free diet. We have often seen it to cause GI upset in people with gluten sensitivity.

Rubus spp. Raspberry leaf

- ▶ Highly nutritive
- ► May specifically concentrate manganese manganese deficiency may cause infertility
- ▶Used traditionally to produce "Rubus babies" in mothers who had been infertile.
- ▶ Very drying in nature, will dry up diarrhea.
- ▶Should be combined with other nutritive herbs plus demulcents to counter the dryness.

Rosa fruit Rose hips

- ▶ Contains a spectrum of flavonoid nutrition.
- ▶Contains vitamin C
- ► Moistening and demulcent in effects.
- ▶Seeds are an inconvenience; can purchased "seeded" rose hips, or powder.
- ▶See recipe for "flavonoid bomb"
- ▶ Can be consumed like jam, or spiced like chutney.

Equisetum spp. Horsetail

- ▶ A very powerful mineral concentrator
- ▶Used as nutritive "booster" in medicinal teas in the Andes mountains.
- ▶ Contains large amounts of water soluble silicic acid, a cofactor in connective tissue regeneration.
- ▶Decoct 1 ounce of the herb in 1 pint of water for several hours. 2-4 ounces of this greatly exceeds the RDA for silicon.
- ▶Medical effects: diuretic

Herbal "green drinks"

- ▶Combine powders of nutritive and flavorful herbs for "green drinks."
- ▶Example, using powdered herbs
 - ▶1 ounce nettle
 - ▶1 ounce oat straw
 - ▶1 ounce peppermint
 - ▶1 ounce raspberry
 - ▶1 ounce powdered marshmallow
 - ▶¼ ounce horsetail
- ▶Stir 1-2 Tbls into warm water and drink with the powder.



Sleep debt and fatigue

- ► Average hours of sleep per night in US in 1900: 9.0
- ► Average hours of sleep per night in US in 1963: 8.5
- ► Average hours of sleep per night in US in 2002: 5.9 on Sunday through Thursday, and 8.0 on Weekends.
- ► Average of 6.9 to 7.2 for week.
- ▶Symptoms of sleep debt: fatigue, cognitive decline, cortisol cycle disturbances, insulin resistance, immunodeficiency.
- ▶ Recovery dose: 10-12 hours bedrest with 9.5+ hours sleep for 3 nights.

Endocrine effects of short-term sleep debt

- ▶Thyroid hormone levels rise within 4 days.
- ▶Time of growth hormone secretion during sleep is reduced.
- ▶Afternoon cortisol become elevated.
- ▶ Cortisol suppression of ACTH is blunted
- ▶ Multiple effects on measures of insulin resistance

Sleep debt and insulin resistance

- ▶Glucose clearance reduced by 40% within 4 days.
- Impaired glucose tolerance in previously normal subjects within 4 days.
- ▶Increased incidence of obesity with chronic debt
- ▶ Abdominal pattern of obesity with long term debt
- ▶Increased tendency of blood to clot with long term debt.
- ▶Elevated triglycerides long term correlation

Cardiovascular effects

- ▶Elevated hypertension long term correlation.
- ▶Heart attack risk in increased 200-300% in men who get less than 5 hours of sleep 2 nights per week.
- ► Heart attack risk increased 82% in women sleeping less than 5 hours per night
- ▶ Heart attack risk increased 30% in women sleeping less than 6 hours per night.

Effects on brain functioning

- ▶Night-time problem solving activity is reduced
- ▶ Ability to incorporate new information in problem solving is reduced.
- ▶ Ability to modify unsuccessful problem solving strategies is completely curtailed in some studies.
- ▶ Consider implications for self-care and judgment in lifestyle.

See: Dreamland: Adventures in the Strange Science of Sleep. David K Randall

Interventions with bed rest

- ► May be therapeutic
- ▶May be diagnostic of level of fatigue/burnout
- ▶ Circadian rhythm bed rest prescription
- ▶Sleeping in nature prescription (camping without lights)
- ▶10-12 hour bed rest prescription
- ▶Weekend bed rest
- ▶Longer period of bed rest.

Pulsed dose of bedtime herbs

- ▶General stress management and formula during the day
- ▶Small to moderate dose of mild relaxant herbs after work.
- ▶Start 90 to 120 minutes before bedtime
- ▶Give 3 spaced doses, ending at bedtime, with steadily increasing doses
- ▶Bedtime formula components:

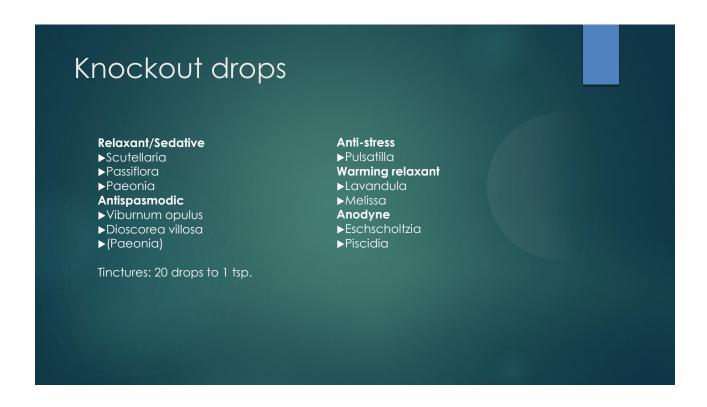
relaxants

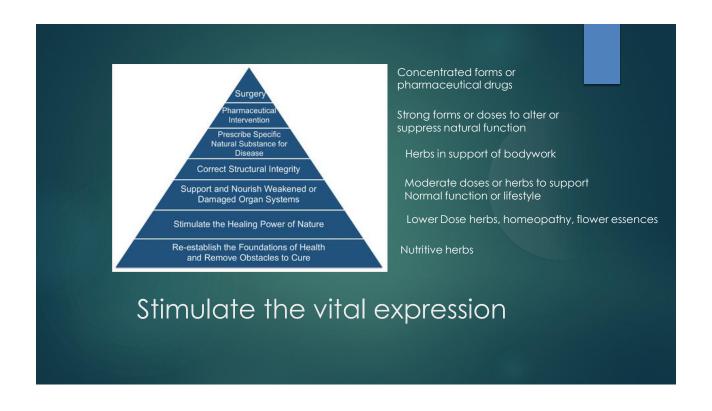
sedatives

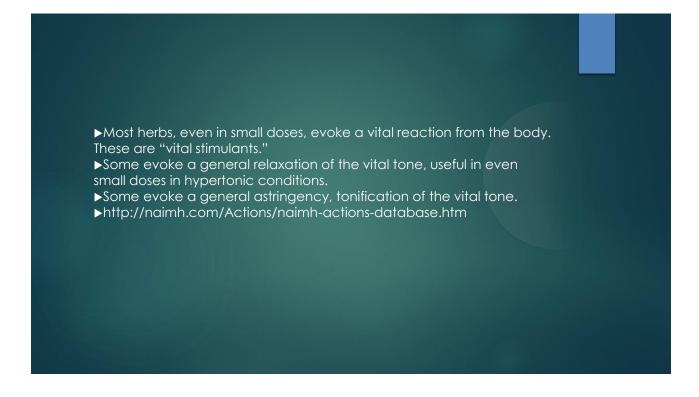
hypnotics

include antispasmodics

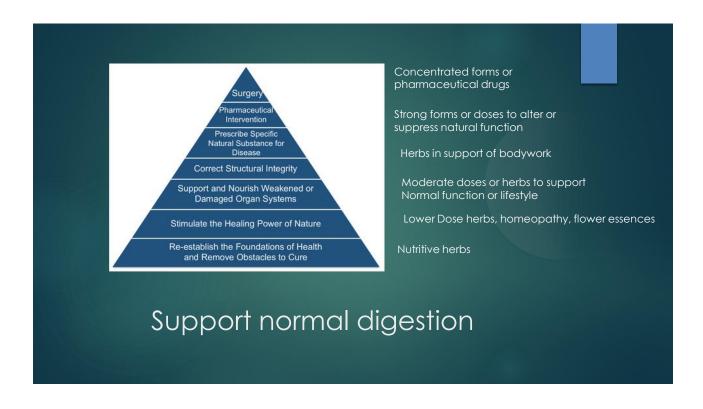
include anodynes











Support normal digestion to raise vitality

- ▶ "Food chi" in Chinese medicine = 70% of energy
- ▶ An initial course of digestive herbs will frequently remove the indications for tonics or adaptogens.
- ►Must be accompanied by appropriate dietary changes, primarily removal of immunogenic foods

Gut healing tea

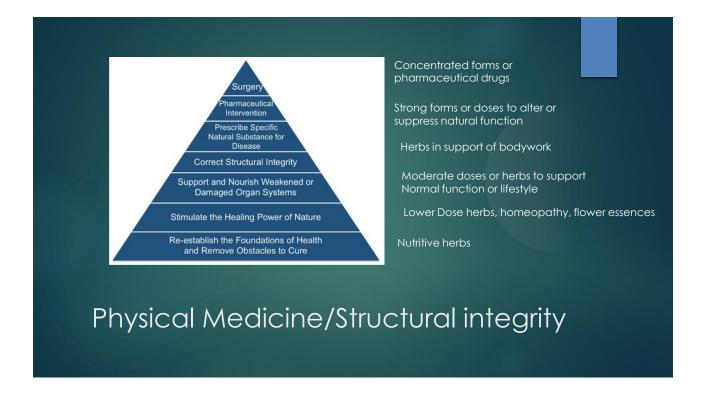
- ▶ Matricaria
- ▶ Mentha
- ▶ Foeniculum
- ▶Glycyrrhiza
- **▶**Calendula
- ▶ Plantago
- ▶Althaea

Balance parts according to dry or damp presentation of patient

Balance parts as appropriate to patient

Screen for contraindications, allergy, or distaste

Low temperature decoction, or powder. Take 2-3 8 oz cups on empty stomach, or sip throughout the day. Or 2-3 T in applesauce



Physical Medicine

- ▶Elements of structural integrity are at the base of the Therapeutic Order (Establish Fundamental Conditions for Health)
- ▶ Physical lesion may be permanent obstacle to cure until corrected.
- ▶In some cases, correcting the lesion alone will correct the problem.
- ▶In some cases, may work synergistically with homeopathy or botanical medicine.

Herbal adjuncts for body work

Lobelia liniment

Lobelia inflata acid tincture. 60% ETOH with 30% H2O and 10% vinegar.

Lobelia 1 pint

Oil of spearmint 10 ml

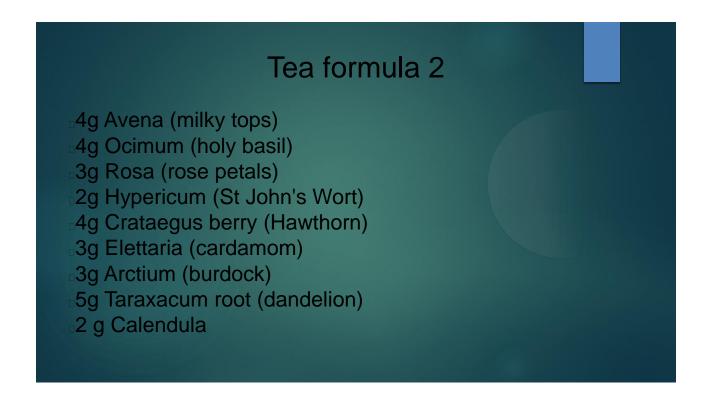
Oil of oregano 5 ml

May add capsicum, 1 ounce

Internal muscle relaxant Pedicularis spp 2 parts Viburnum opulus 2 parts Paeonia spp 2 parts Panemone pulsatilla 1 part 1 dropper repeated in ten minutes if necessary

Formula 1 4g Medicago (alfalfa) 4g Hypericum (St John's Wort) 2g Matricaria (Chamomile) 7g Avena (Wild Oats) 2g Ocimum Sanctum (Holy Basil) 2g Rosa (Rose petals) 3g Trifolim (Red Clover) 4g Turmera (Damiana)





Tea Formula 3 5g Hypericum (St John's Wort) 3g Avena (oats) 3g Crataegus (Hawthorn berry) 4g Matricaria (chamomile) 4g Lavandula (lavender) 3g Stachys (wood betony) 8g Stellaria (chickweed)