





A template for study

Accurate plant name(s)
Humoral/energetic properties
Definite clinical actions
Tissues affected
Uniqueness of the plant
Uses
Useful pairs and formulas
Safety considerations
Constituents/scientific trials if relevant.

Humoral/energetic properties

Hot or cold, with degree (very hot, hot, warm, slightly warm, neutral, slightly cool, cool, cold, very cold) etc.

Dry or moist, with degree as above

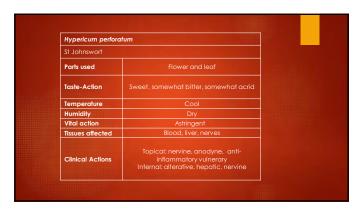
Tonic/astringent vs Relaxant

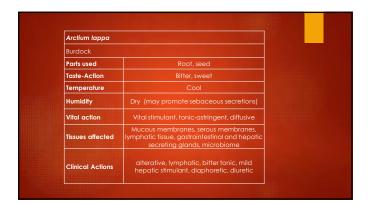
May add constitutional terminology from other systems

Clinical actions
Reliable and visible clinical effect to be expected

Ditrusive/Diaphoretic
Diuretic
Expectorant
Antispasmodic
Carminative
Laxative
Sedative
Anodyne
etc.







	Mentha pip	Melissa off	Thymus v.			
Temperature	warm/cooling diaphoretic	warm/cooling diaphoretic	warm/cooling diaphoretic			
Humidity	dry	dry	dry			
Tone	relaxant, diffusive	relaxant, diffusive	relaxant, diffusive			
Taste/action	pungent	pungent	pungent			
Tissues	mucous membranes, circulation, digestion	mucous membranes, circulation, digestion	mucous membranes, circulation, digestion			
Clinical actions	cooling diaphoretic, carminative, antispasmodic, emmenagogue, anti- inflammatory	cooling diaphoretic, carminative, antispasmodic, emmenagogue, anti- inflammatory	cooling diaphoretic, carminative, antispasmodic, emmenagogue, anti- inflammatory			

	Echinacea	Uses and combinations
Temperature	cool	With Myrrh for topical disinfectant effects
Humidity	slightly dry	or for general immune stimulation.
Tone	slightly tonic	
Taste/action	bitter, pungent,	With Sambucus and Eupatorium perfoliatum for viral infection or influenza.
Tissues	immune cells, lymphatics	With Ligusticum porteri for effects on the lung.
Clinical actions	immune enhancing alterative, topical vulnerary	With Arctostaphylos uva ursi for infection of the bladder or urethra.

	Echinacea	Myrrh	
Temperature	cool	warm	
Humidity	slightly dry	dry	
Tone	slightly tonic	tonic/astringent	
Taste/action	bitter, pungent,	bitter	
Tissues	immune cells, lymphatics	mucous membranes, capillaries, immune cells, lymphatics	
Clinical actions	topical vulnerary immune enhancing alterative,	topical disinfectant immune alterative, blood mover	





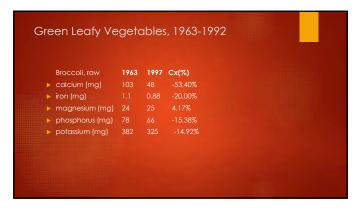
Nutrients and the role of herbs Protein Fats No contribution No contribution No contribution Non-metabolic carbs Non-metabolic carbs Vitamins Some food-like herbs Macrominerals Significant contribution Trace Elements Flavonoid/antioxidant Significant contribution Significant contribution



Differential: 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. Always include as a prebiotic when giving probiotics.

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 Lithium essential to emotional balance. Mn is essential in woman for fertility

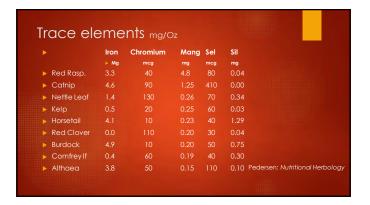




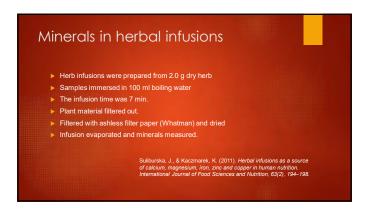


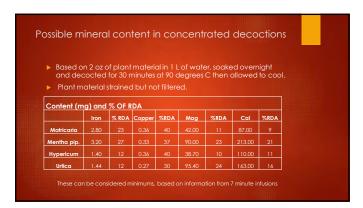














Herb	Form	Nutrition	Temp	Humidity	Tone	Flavor	
Urtica	long decoction	broad spectrum silicon		dry	astr	sl bit/sl sw	
Rubus	long decoction					sl bit/sl sw	
Avena	long decoction	gluten issues	neutral	sl dry	sl ton	sweet	
Symphytum	decoction (toxic) topical	silicon		moist	tonic	sl bit/sweet	
Althaea	long decoction				relaxant		
Equisetum	low dose, short	silion		dry	ton/astr	sl bit/sl sw	
Fucus	low dose, intermittent	high iodine		very dry	ton/astr	very salty	

Herb	Alterative	Demulcent	Diuretic	Nervine	Inflamm	Diabetes	
Urtica		astringent				tincture or food	
Rubus		astringent					
Avena				mild			
Symphytum							
Althaea		strong					
Equisetum		drying	mild				
Fucus	traditional	very dry					





Demulcents as constitutional remedies

 Acute effects on mucous membranes throughout the system is by reflex action

 Most demulcents also raise immune surveillance secondary to presence of polysaccharides.

 Taken persistently, demulcents can moisten a constitution made dry by disease process or environmental influence



Bitter demulcents

Predominant demulcent effects are corrective to mild bitter
Primary remedies for the hot dry patient (False fire, deficient yin)

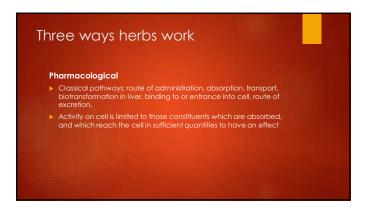
Viola odorata, tricolor cool (if) mild bitter, whole plant with roots is more bitter

Asparagus spp cold powerful endocrine and (Shatavari; Tian Men Dong) mild bitter, endocrine and reproductive restorative)

Polygonatum spp (Maianthemum rac) mild bitter, endocrine and reproductive restorative

Patient should have heat signs to receive Asparagus or Viola rt, or these may cause cold injury.

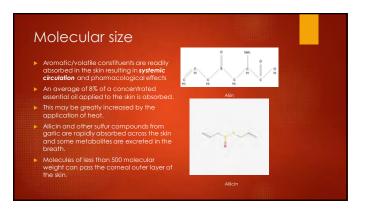
Topical differentials

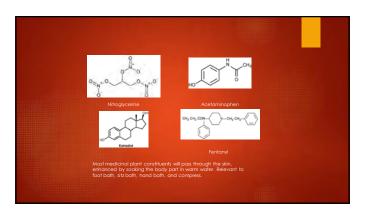






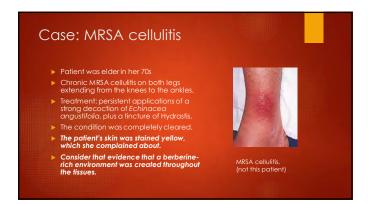
Cutaneous absorption of plant constituents

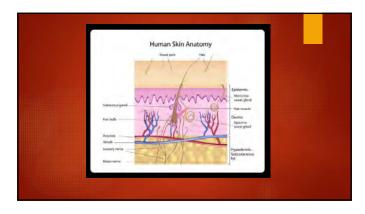


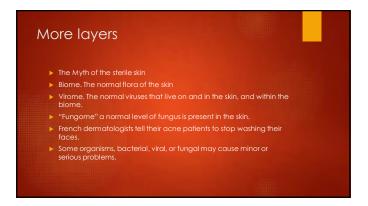


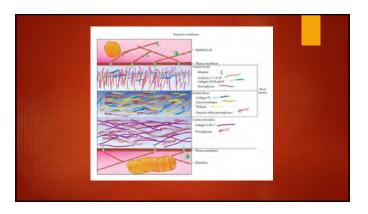


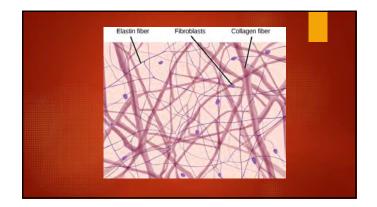


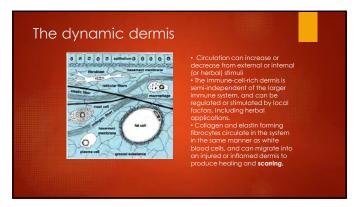




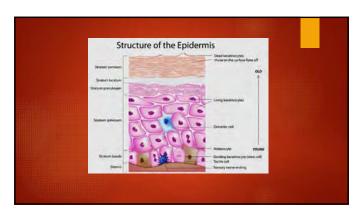


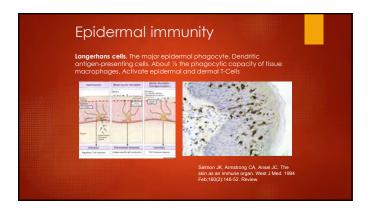






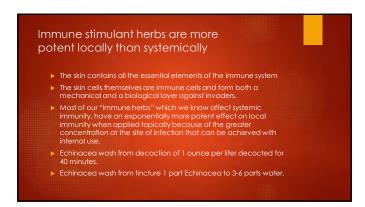
















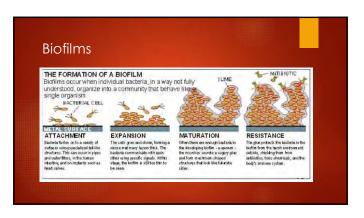
























	Temp	Stim	Anti-inflam	vulnerary	antiseptic	immune	biofilm
Commiphora	warm	х	х		х	х	yes
Capsicum	hot	xxx					
Echinacea	cool						
▶ "Rne	umaiic c	nops ic	aken intem	ully, topice	ii di ilisepiic,	throat spro	ау

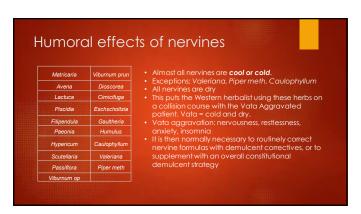


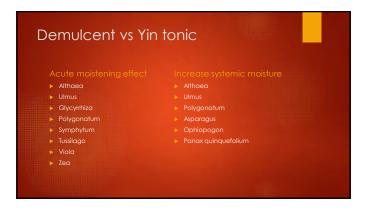






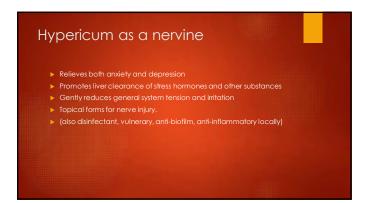








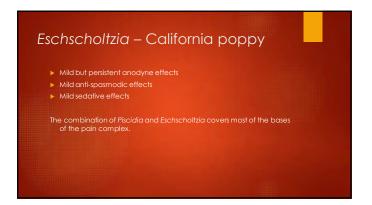






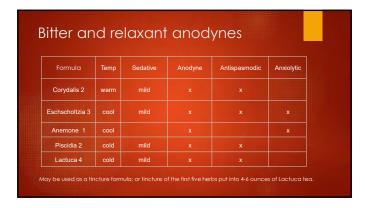


















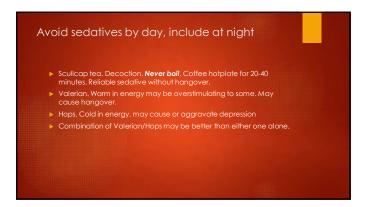


















		Actaea	Caulophyllum	
Т	emperature	cool	warm	
	Humidity	dry	dry	
	Tone	relaxant	relaxant	
T	aste/action	bitter, sweet, pungent	bitter, slightly pungent, sweet	
	Tissues	nerves, smooth and skeletal muscle, uterus mucous membranes, lungs, bronchial tract	nerves, smoothe and skeletal muscle, uterus, mucous membranes	
Cli	nical actions	antispasmodic, nervine tonic, expectorant, antidepressant, cough relaxant	antispasmodic, uterine tonic, cough relaxant	



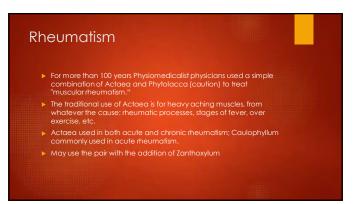


Traditional uses of the pair Antispasmodic for the uterus Tonic for the atonic uterus: add Leonurus Antispasmodic for rheumatism Partus preparator (see cautions) Parturient (see cautions)

Traditional native use of Blue cohosh to prepare for childbirth is a false claim attributed on the report of "Indian Doctor" Peter Smith of Cincinnati, a white Profestant preacher. The report was reproduced by famous botanist Constantine Rafinesague in 1828, and then persisted in medical literature and practice. The Physiomedicalists used Blue cohosh as part of the Mather's Cardial formula from 1826 onward to the present. Mitchella repens (Partridge berry), Caulophyllum thalictroides (Blue cohosh), Viburnum appulus (Cramp bark), and Chamaelirium luteum (False unicorn) Traditional use in obstetrics is as a relatively high dose of the tea, or a low dose of the tincture.



Actaea/Caulophylum in childbirth The combination can strengthen inefficient contractions Typically used for stalled labor in the exhausted mother Should never be used to induce contractions or initiate labor. Promotes contractions, but does not ripen the os or initiate full labor. The result is hours/days of inefficient contractions, followed inevitably by surgical birth.







Respiratory Both cohoshes are relaxant to the cough reflex Actaea is expectorant Caulophyllum is soothing to the irritable membranes Used for the spasmodic cough of Pertussis, asthma, or catarrhal cough, in combination as a pair with Lobelia Combine with herbs such as Aralia, Prunus, and or Lobelia. Wm Cook: 8 ounces of Actaea, 12 oz syrup simplex, 1 oz lobelia, for dry spasmodic cough T.J. Lyle: Caulophyllum and Lobelia 2 drams each in 4 ounces of syrup of Zingiber. 1/2 tsp per four hours for catarrhal cough.





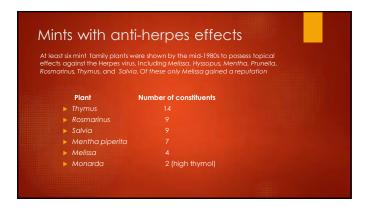




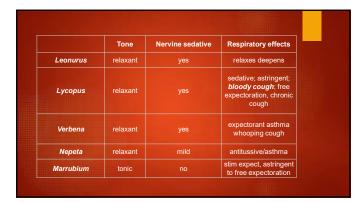


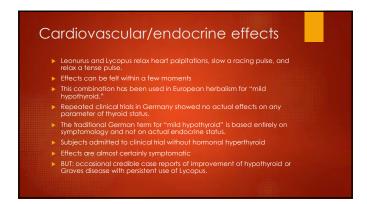




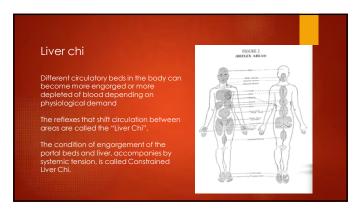






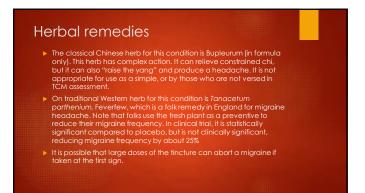










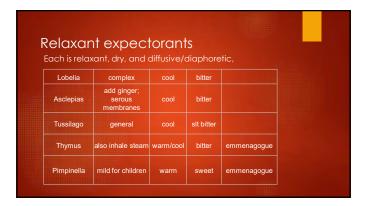


Mentha arvensis	Strong effect	cooling diaphoretic	1	
Mentha piperita If M. arv. Not available	moderate effect	cooling diaphoretic	2	
Rosmarinus	very hot	hot	1	
Lavandula	mild sedative	warm	4	
Foeniculum	antispasmodic (not diffusive or emmenagogue)	warm	2	
Paeonia	strong sedative antispasmodic (not diffusive)	cool	2	
Tanacetum parthenium	traditional for migraine	cooling bitter diaphoretic	2	

















		Anti-inflammatory	Antidiabetic	Aphrodisiac
Cinnamomum cassia	warm 2 dry 2	х	x	x
Cinnamomum zeylanicum, verum	warm 2 dry 2	х		x
Elettaria (Amomum)	Warm2, dry 2			
Boswellia	warm 2 dry 1	х	X	
Zingiber	warm 3 dry 1	x	х	
Curcuma	warm 3 dry 3	x	х	
Eugenia	warm 3 dry 3	x		x
Capsicum	warm 3 dry 3			

Synergists and Corrigents
 A large portion of medicinal herbs are cold in their energy.
An Ancient aphorism: "Cold herbs should not be taken persistently."
This may be modified by adding warming "corrigents" (correctors) to a formula.
 For instance: add a small portion of Capsicum to any tincture formula as an adjuvant to warm it up and promote circulation. Can easily overwhelm the formula.
 Consider also Zanthozylum (Pricky Ash) for the same purposes, not as hot but more stimulating.
 For less heating effect is a more fragile constitution, use Zingiber in the same manner.

Corrigent/synergists in U.S. National Formulary (1906) and USP (1870)

- Cinnamon and clove pair, or the Cinnamon, clove, and nutmeg triplet, used in many formulas as a warming aromatic

- Cinnamon 4, Eugenia 1, Myristica 1 as component of blackberry juice cordial
- Cinnamon 3, Eugenia 3, Myristica 2, and Foeniculum 6, 60 drops in 4 oz of glycyrrhiza tincture as synergist/corrigent Aromatic powder, USP 1870: Cinnamomum 2, Zingiber 2, Myrsitica 1, Cardamomum 1. Cinnamomum 5, Zingiber 2, Eugenia 1, Cardamom 1, Alpinia 1. Aromatic tincture, NF 1906

Exhilarant

- In Unani medicine, an exhilarant is an herb which lifts up the spiritual heart and stimulates the vital centers in the heart and brain. The concept seems to have originated with Ibn Sina.
- Of the herbs in this section, both Cinnamon species, as well as Cardamom and Boswellia are classical exhilirants.
- They combine well for this purpose with Ocimum spp, Coriandrum, Centella, Rose, Melissa and/or the mints.
- The use of corrigents and exhilarants may have passed to North American medical pharmacy by tradition, with the original meaning lost. Pharmacists in the NF and USP call these "flavoring agents."

Thomson's Composition Powder

Myrica 16 oz
Zingiber 8 oz
Cinnamon 2.5 oz.

► Pinus

Used for diaphoresis and systemic stimulation
Used as portion of larger formula, adding heat and stimulation to the formula

To warm cold patient

- Zingiber, dry

Use in larger or smaller portions of formula depending on constitutional heating effects (higher doses) or corrigent effects to the other herbs

In Chinese medicine, the three herbs are considered to warm the three "burners," metabolic centers in the chest, abdomen, and pelvis

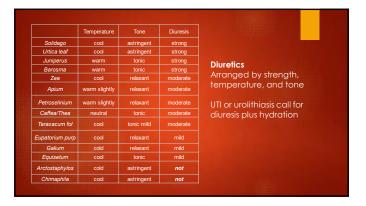
Anti-inflammatory compound

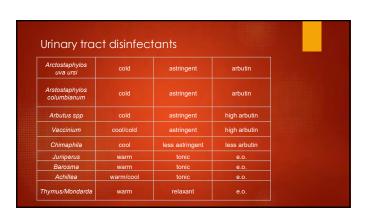
- 2 parts Curcuma



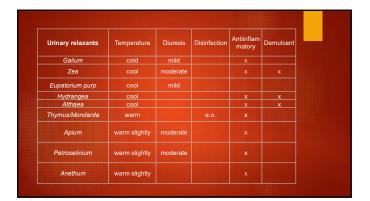








Urinary tonic/astringents	Temperature	Tone	Diuresis	Disinfection	Antiinflammator		
Arctostaphylos	cold	astringent		arbutin	100000		
Solidago	cool	astringent	strong		х		
Urtica leaf	cool	astringent	strong		х		
Chimaphila	cool	astringent		arbutin			
Capsella	cool	astringent					
Vaccinium	cool/cold	astringent		arbutin			
Urtica root	neutral	astringent			х		
Equisetum	cool	tonic	mild	1000			
Caffea/Thea	neutral	tonic	moderate				
Juniperus	warm	tonic	strong	e.o.	х		
Barosma	warm	tonic	strong	e.o.			
Achillea	warm/cool	tonic		e.o.	х		
Taraxacum fol	cool	tonic mild	moderate	Lanca.	х		







Humoral effects of the bitter taste

Cooling to cold
Drying
Draining
Tonic/astringent
Sinking
Chinese: for heat, stomach heat, other forms of heat
Western: heat with dampness.

The Cold Injury of Bitter Herbs

Culpeper: Life is warmth and cold is death, and that is why the Good Lord has placed so many warming herbs on the face of the Earth. And that is why cold herbs should not be persisted in.

A caution from the times of Hippocratic and Galenic medicine

A standard warming in Chinese medicine.

Caution with persistent, and especially habitual use.

A woman in her late teens came with digestive and skin issues. The presentation was hot, and the patient reported lifelong signs of a warm constitution.

An herbalist recommended a tincture of equal parts Taraxacum and Mathonia, 1-2 droppers 3-4 times a day. This was to be an initial short-term treatment.

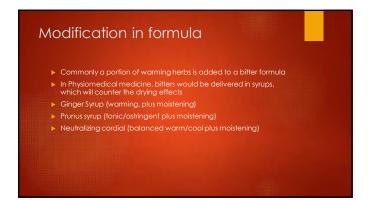
The patient did not return for follow-up, but refilled the tincture on her own.

Within six weeks, the woman's digestion was cold and deficient, and she has prominent signs of constitutional cold.

A restorative program for more than 2 months failed to correct her cold metabolism and digestion.

















Combine with Eupatorium perfoliatum and a small amount of Capsicum for more effect on the secreting glands of the intestine and liver.
 Combine with Eupatorium perfoliatum and a stronger laxative, such as Rheum, Aloe, or Cassia senna for more directed effects to the lower bowel.
 Combine with Hydrastis and Collinsonia to tonify the portal venous system, as indicated by hemorrhoids or varicosities.

Chief digestive indication: atonic conditions of the stomach, intestines, and lower bowel.

 Per John Uri Lloyd (Eclectic pharmacologist) Hydrastis with the alkaloids removed is "the most powerful astringent in our materia medica."

 With Gentiana and Cardamom for atonic digestive system

 With Filipendula and Matricaria for stomach conditions

 As bitter alterative, base formula on Hydrastis:Arctium 1:4

Populus spp

A primary bitter tonic/astringent of the Thomsonian/Phsylomedical schools.

Thomson: Spiced Bitters (modified). Indication: debility

Populus 14

Zingiber 4

Hydrastis 4

Cinnamomum 2

Eugenla 2

Zanthoxylum 1

Capsicum 1

18 parts bitter, 10 parts warming carminative; all parts are dry
Traditional to deliver as powder in equal parts of sugar, which corrects dryness

Milder bitters

Matricaria is a primary mild bitter, with mixed carminative, anti-inflammatory, and mild sedative effects

Filipendula is primary upper GI tract mild bitter.

Many other herbs presented here are mild.

Principle of vitalism: "Never use a strong herb when a mild herb will do."

The combination of Matricaria and Filipendula is standard in Physiomedicalist tradition, with the addition of a third stronger bitter such as Hydrastis, Artemisia, or Salvia













Berberis vulgaris. Bitter chologogues in general are laxative through effects of bile Rheum off. Cassia angustifolia Rhamnus purshiana/frangula (Cascara sagrada/buckthorn)

Rheum off. Combines stimulant laxative effects with bitter tonic/astringent effects. Laxative properties are due to anthraquinone glycosides, but unlike other anthraquinone laxatives, its astringency tonifies the bowels after purgation, and the bitter effects tonify and normalize secretions of the stomach, intestines, and liver. In both Chinese and Unani medicine, as well as the Western tradition, it is noted for its uses in both constipation and diarrhea. Use smaller doses for diarrhea. Large doses are contraindicated in weak or feeble individuals, and heat signs should be present for administration of full doses, unless corrected with warming herbs. Full cathoritic doses can induce a rebound constipation due to its astringency. This may also occur also with chronic use, so it is best suited for acute applications.

For full catharsis, combine with Disocorea and Zingiber (Priest)
 For functional dyspepsia, combine with Hydrastis (Priest, Ross)
 For constipation with heat, Combine with Taraxacum (Ross)
 Combine with Taraxacum to reinforce cooling effects and stimulation of digestive and hepatic secretions (NAIMH)
 Combine with Cinnamon to correct coldness, allows the herb to be given in a broader range of patients without distinct heat signs.
 Combine with Rhamnus purshiana for laxative purposes. (Ross) Both are laxative due to anthraquinone glycosides, but Rheum contributes astringency and Rhamnus and has broader bitter tonic effects.

Neutralizing Cordial

Rheum 4 oz

Mentha pip 8 oz

Hydrastis 1 oz

Cinnamomum 1 oz

Potassium bicarbonate 1.5 oz.

Macerate in 1 at of 40% alcohol, Add potassium after filtering. Add 4 lbs of sugar for basic simple syrup. Substitute Glycerine.
For variety of digestive complaints, with heat.
Use as delivery medium for stronger bitters.

Cassia ► Stronger than the other laxatives in this section ► Senna is better for one-time or short term use in acute constipation than for regular use in chronic conditions. ► After purgation, Senna leaves the bowels in a relaxed state. Compare to Rheum which has the opposite effect. For this reason if may be combined with bitter intestinal tonics, such as Gentlana or Eupatorium perfoliatum (Cook) or with Rheum and Mentha (Ellingwood). ► To correct the cold nature of this herb, various authors have combined with Coriandrum (Cook), Zingiber (Cook, Shook, Ellingwood), Capsicum (Ellingwood), or Piper nigrum (Ellingwood). ► In Unani medicine it is combined with Pimpinella and honey to modify the harsh cold and dry effects. ► The dryness of Cassia may also be corrected with Glycyrrhiza in an equal portion, then Foeniculum ½ part, in sugar, 6 parts. (Ellingwood).

Rhamnus purshiana, frangula Of benefit in digestive disorders generally, and influences stomach, liver, and gall-ducts, as well as the bowel. Tonifies the venous circulation in the intestines and is of use in hemorrhoids. In sub-laxative doses, combine with other bitters and/or carminatives as appropriate, Corlandrum or Betarria. A simple pair with Zingiber is classical in Physiomedicalism Whelan: combine with plenty of Foeniculum Zingiber for jaundice Clymer

















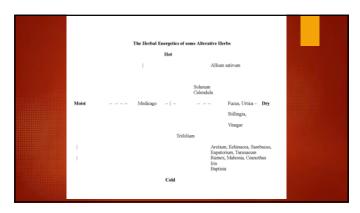
Alteratives affecting the liver Property Rumex crispus – cool and dry Mahonia aquifolium – cold and dry Taraxacum officinalis – cool and dry Ceanothus americana – cool and dry Calendula officinalis – neutral dry Arctium lappa – cool dry Stillingia sylvatica – acrid, dry







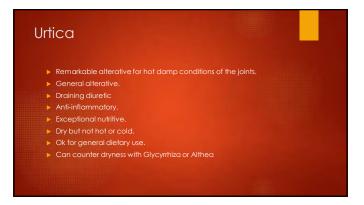








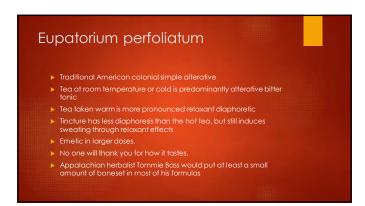








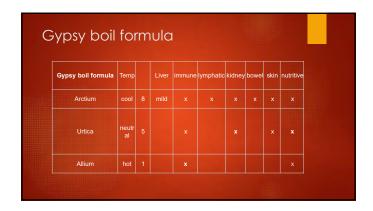
Not seen in older formulas Began to be mentioned as an alterative in the 1890s Used as such by Physiomedicalists, Eclectics, and N.D.s into the late twentieth century. Used as either fincture or tea. Tea form is very potent alterative through immune effects. Was not described as "immune stimulant" or a remedy for colds or flu until the 1980s

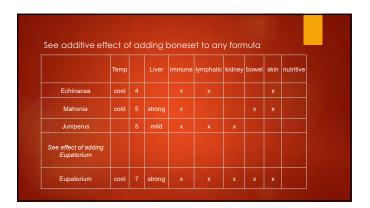














Trifolium compound Merrell Co ca 1898

Trifolium

Arctium

Stillingia

Mahonia

Phytolacca

Zanthoxylum

Potassium iodide

Cascara amarga

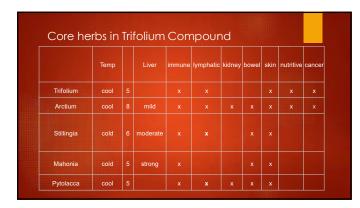
Podophyllum

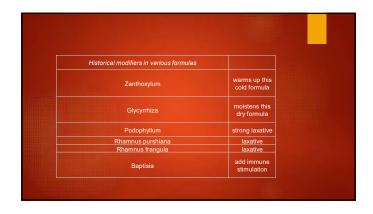
Trifolium compound Eli Lilly 18981942

Trifolium 4
Arctium 2
Stillingia 2
Mahonia 2
Phytolacca 2
Zanthoxylum 2
Potassium iodide 1







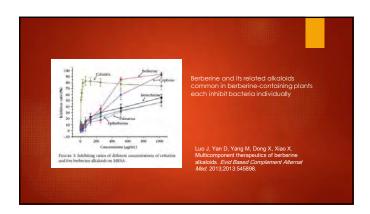




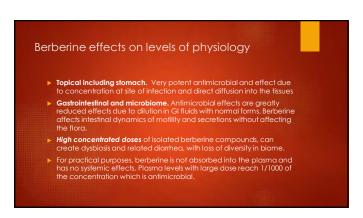
	Humoral	Berberine	Efflux pump inhibitor	Mucous membrane tonic	Family
Hydrastis rt	cold/dry	2-3%		+++	Ranunculaceae
Hydrastis leaf	cold/dry	0.4 to 0.6%	50%		Ranunculaceae
Mahonia rt	cold/dry	2-2.5%			Berberidaceae
Mahonia If	Cold/dry	0.0-0.6			Berberidaceae
Berberis	cold/dry	1.6 to 4.3%			Berberidaceae
Berberis leaf	cold/dry	<0.0-0.6%	100%*		Berberidaceae
Coptis	cold/dry	4-9%	+		Ranunculaceae
Xanthorhiza	cold/dry	1.2-1.3%			Ranunculaceae

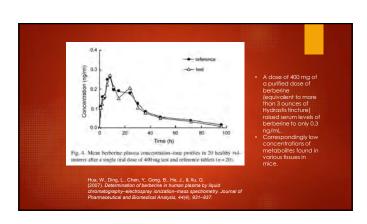


	Alkaloid	Hydrastis	Mahonia	Berberis	Coptis	Xanthoriza	
	Berberine	x	×	x	×	х	
soquinoline alkaloids	Berbamine		×	×			
in some berberine-	Berberastine	х			х	x	
containing plants.	Berberubine			х	×		
	Canadine	х					
Most of these alkaloids have anti-microbial or other pharmacological effects in scientific trials							
	Coptisine			х	×		
	Epiberberine						
The combination may have broader-spectrum or synergistic effects on microorganisms.	Hydrastine		×	х			
	Jatronhizine		×	x	x	x	
	Magnoflorine		×	×	х	х	
	Obamegine		×			х	
	Oxyacanthine		×	×		×	
	Palmatine		×	x	х	×	
	Tetrahydroberberastine						











An imprecise term The original Russian definition of an adaptogen is a stimulating herb (their term) which increases host resistance to acute or short-term stress. They were defined as mild and food-like, without rebound crash, but this was in comparison to the amphetamines which fueled both the Russian and German sides during World War II. The original definition said nothing about long term use or about restoring a person from burnout syndrome or facilitating persistent overreaching. It only addressed acute performance. Nearly all scientific research into the concept stopped by the 1990's expect for small trials sponsored by companies with proprietary adaptogen products.

The Adaptogen myth A plant medicine that gives energy at no cost to the system. That stimulates, but has no crash or rebound depression. That has few or no side effects. That increases tolerance of stress or prevents its ill effects. That can be taken long term with no ill effects. That can be given to almost anyone without consideration of constitutional pattern. That "supports adrenal function" or "nourishes the adrenals." That is "restorative" to endocrine function.

Tonic/adaptogens taken outside the context of a restorative lifestyle will invariably cause harm if taken long enough by facilitating over-reaching and burnout, this can occur within 7-10 days.
 Most of the supposed adaptogens have no demonstrated effect on immunity in humans.
 None of the supposed adrenal restoratives has been shown to beneficially affect adrenal status in humans. Neither major Panax species has been shown to affect adrenal hormones in humans.
 Several of the stimulating adaptogens (Eleutherococcus and Schisandra) have been shown to have harmful effect on adrenal status in humans, promoting burnout.



Eleuthero in the Russian Pharmacopoeia The plant is extracted in low alcohol, 30% to 70% water Vacuum technology is used to concentrate it to 1:1 (5 times the strength of a typical fincture) The dose of this concentrate is 2 mL to 15 mL in a day Standard 1:5 tinctures in 60% alcohol have no medical activity at typical doses. The HerbPharm company makes a product according to these specifications but further concentrated to 2:1 (10 times normal fincture strength) Proprietary concentrated forms in pills can have variable and unpredictable effects.

