Welcome

American Herbalists Guild
Professional Herbal Training
Webinars

An Association of Herbal Practitioners

PO Box 230741 Boston, MA 02123 857.350.3128 ahgoffice@earthlink.net AMERICAN HERBALISTS GUILD

Fibromyalgia Natural Methods and Novel Approaches

K. P. Khalsa August, 2011



Karta Purkh Singh Khalsa







Dietitian-Nutritionist Herbalist

President
American Herbalists
Guild

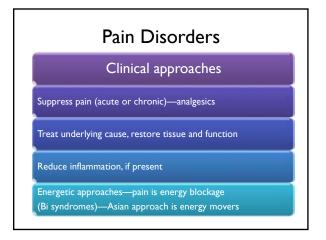




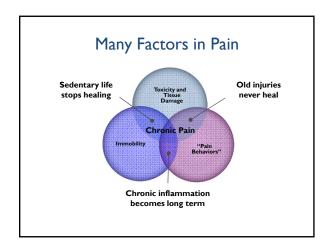
Pain is a serious disorder



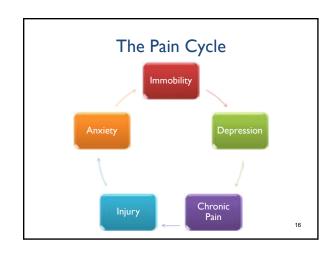


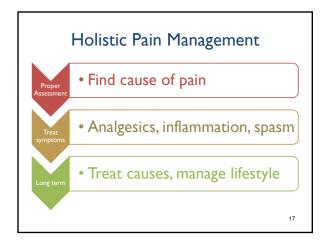














Food and Diet

Oligoantigenic (Challenge/elimination) diet

Lamb/Turkey

Pears

Rice

Cabbage

Olive oil

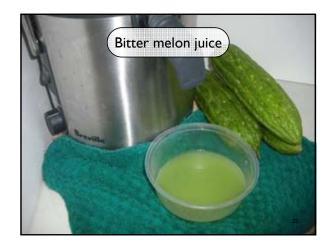






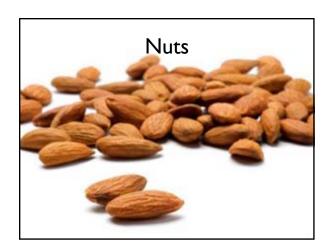










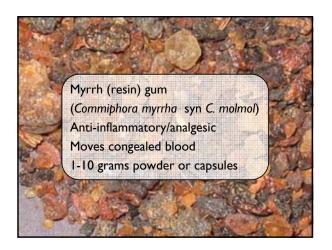




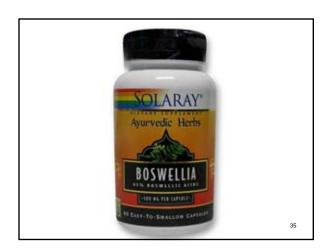


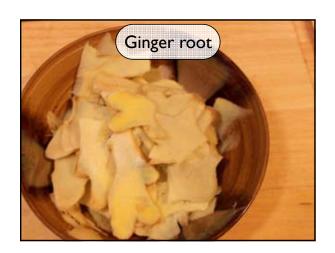












Ginger

Warming for cold joints and stiffness Especially cold (FMS) Tea, cooking, powder, capsules





Chinese Notopterygium Root

Upward moving, dispersing
Diaphoresis
Pacifying vata
Relieving pain
Unblock painful obstructed vata

40

Chinese Notopterygium Root

General vata pain
Cold damp joint pain
Affinity for upper part of body, shoulders
Caution with low ojas
3-12 grams





Salicylates

Aspirin category
NSAIDS
Contained in many plants



Willow bark

Willow bark (Salix alba, Salix spp.)
Cold, biter
Source of aspirin (salicylates)
Pain, fever, inflammation
I oz. as tea





Meadowsweet

Meadowsweet leaf (Filipendula ulmaria)
Salicylates
Easy on tummy
15-30+ ml as tincture





California poppy

Flower/leaf
Opioids
Pain, sleep, anxiety
Up to I oz. as tea
Tincture as needed



Corydalis

Warming
Opioids
Main Chinese medicine for pain
Moves blood and qi
Pain, sleep, anxiety
Up to I oz. as tea, capsules



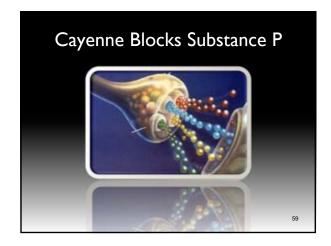
Poppy Seed

Opioids
Pain, sleep, anxiety
Up to I oz. as tea



Cayenne

Slow acting
Blocks Neurotransmitter
Substance P ("P" for Pain) in neurons
Gradually adjust dose to digestive tolerance





Asarum (wild ginger)

Asarum sieboldi Releases exterior Disperses cold Vata body, joint pain Powdered root 1-4 g qd

Mildly warming analgesics (vata)

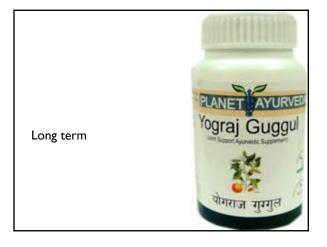


Guggul resin

Deep detoxification







Yograj Guggul

Vidanga Coriander Ushir (Vetiveria zizanoides) Triphala Devdaru (Cedrus deodara) Trikatu Ajwain Musta

Chavya (Piper chaba) Purified Guggul Cardamom Chitrak

Gokshura

68





Kaishore Guggul

Main ingredients: Triphala Guduchi Guggul

Trikatu (Ginger, Black pepper, Pippali)

Vaividanga Jaipal (Croton tiglium root) Nishotha (Indian turpeth root) Castor oil









Feverfew

Cold, bitter
Chronic pain- arthritis, etc.- 2-3 g per day
Begin with 125 mg qd
Titrate to dose that gives best prevention
Acute pain 5 g per day
Caution—digestive distress



Kava

Kava root
Sedating & antispasmodic
Extract, tincture, tea
250 mg total kavalactones per day
(can go much higher)







Hops Extract



Hops cones (Humulus lupulus)

Proprietary, standardized supercritical extract of hops



82

Alpha acid fractions inhibit inflammatory chemicals

Equiv NSAIDs (ibuprofen)

83

I,000 mg Perluxan = 400 mg ibuprofen (good GI tolerance)

Inhibits pro-inflammatory markers prostaglandin E2, COXI & 2, etc.

Mild carminatives gently increase digestive fire ψ vata in FMS



Avipattikar Churna

Ginger, Pipali, Triphala, Musta, Vid namak (salt), Vidanga, Cardamom, Cinnamon, Nishotra root (Operculina turpethum) (purgative), Rock sugar

3-5 g twice daily with milk or lukewarm water

36



Fibromyalgia

Low ojas (vitality)
High vata disease
Pain hypersensitivity
Cold, dry, aging
Triggering event
Basic approach is warmth, diet, rest
Total lifestyle makeover
Detoxify before rebuilding regime

. .

Fibromyalgia

Condition of widespread muscular pain & fatigue Diagnostic standard just lists of symptoms Syndromic diagnosis

Constellation of chronic symptoms Fibromyalgia

Deep aching in the muscles

Burning

Stabbing

Throbbing pains

Profound, draining fatigue, muscular weakness

All same syndrome

Fibromyalgia
Chronic Fatigue Immune Dysfunction Syndrome (CFIDS, Chronic fatigue)
Myalgic Encephalopathy (Europe)

91

Fibromyalgia

70% FMS patients symptoms consistent with diagnosis of IBS

Fibromyalgia

Bottom line:
History widespread pain
II of 18 tender point sites—digital palpation
(Not trigger points)

Syndrome

Signs & symptoms consistent between patients

Symptoms list so long, quite possible 2 different people share very few symptoms, yet both have diagnosis

Diagnostic standard just lists of symptoms

94

Background

3 to 6 million Americans living with FMS

- U.S. government

Background

FMS affects ~2% population in USA Some sources, including Dr. Andrew Weil, put prevalence at more like 5%

Background

Over 5% of patients in general medical practice

Population	Prevalence %
900 randomly selected individuals, 50-70 y.o.	1.0
Family practice clinic	2.1
200 consecutive general medical patients	5.0
General medical clinic	5.7
Hospitalized patients	7.5
Rheumatology clinic	14.0
Rheumatology clinic	20.0
	98

Background

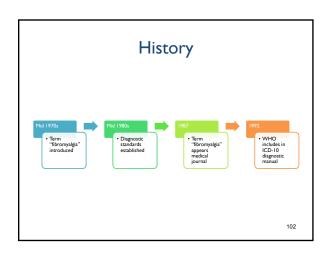
Prevalence much less every other part of world 1% Britain and Scandinavia 7-10 times more frequent in women than men

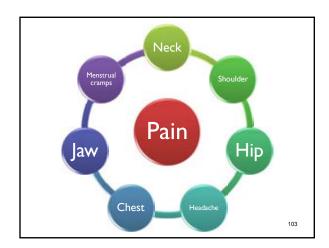
Background

10-30% rheumatology consultations N America

Background

Median age at onset 29 to 37 years Median age at diagnosis 34 to 53 years (10 year average gap)





But any part of the body can be affected!

104

Symptoms

Fatigue

Sleep & energy disturbances ~90% of patients Restless legs (twitchy, painful, cramping) Irritable bladder

Nocturnal myoclonus (jerky muscles)

Fibro-fog

confusion, memory lapse, word mix-ups, concentration difficulties

Signs and Symptoms	% of patien	ts
widespread pain	97.6	
tenderness in > 11/18 tender points	90.1	
fatigue	81.4	
morning stiffness	77.0	
sleep disturbance	74.6	
paresthesias	62.8	
headache	52.8	
anxiety	47.8	
dysmenorrhea history	40.6	
sicca symptoms	35.8	
prior depression	31.5	
irritable bowel syndrome	29.6	
urinary urgency	26.3	
Raynaud's phenomenon	16.7	10





Sleep

Sleep disorder (or sleep that is <u>not refreshing</u>) Exhausted, yet insomnia Awake at 3:00 A.M.

109

Normal Sleep

- 5 Stages:
- I. Alpha (Chatty mind)
- 2. Unconscious
- 3. Delta (Restock the shelves)
- 4. Deep Delta (Take out the trash)
- 5. Rapid Eye Movement (REM) (Dreams)

110

Sleep disturbances

Trouble falling or remaining asleep
Waken unrefreshed
Absence of Delta stage = ↓ healing hormones
Immune dysfunction
Pain
Body does not repair cells

111



Musculoskeletal

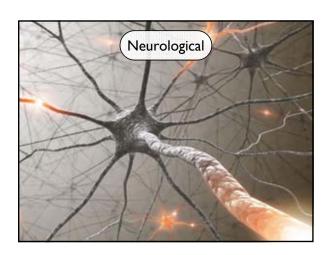
Myoclonus (restless legs)

Morning stiffness (waking up stiff and achy)

Joint aches

Post-exertional malaise and muscle pain

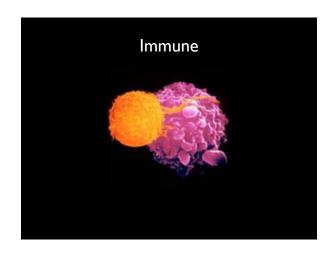
Feeling of joint swelling



Neurological

Chronic headaches (tension-type or migraines)
Jaw pain (including TMJ dysfunction)
Numbness & tingling sensations
Dizziness or lightheadedness

115



Sensitivities

Chemical

Odors

Bright light

Noise

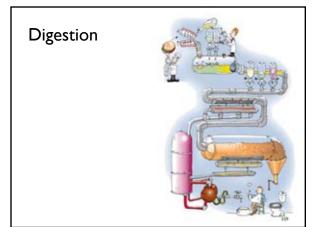
Food

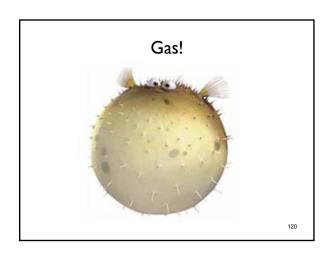
Weather changes

Medicines

Chronic "flu-like" symptoms

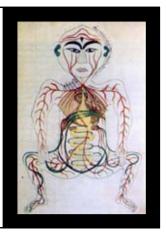






Digestive

Alternating constipation & diarrhea "Irritable Bowel"





Genitourinary

Bladder irritability, bladder pain
Urinary frequency with strong urging
(strongly comorbid w/ Interstitial Cystitis)
Vulvodynia

Pelvic pain, painful sexual intercourse

123



Cognitive

Confusion (Brain Fog) Memory impairment



Emotional

Anxiety

Depression

Symptoms, or Effects?

Associated Conditions

No one can agree on which conditions are:

Associated

Comorbid

Part of the syndrome

Associated Conditions

Reflections of underlying factors that cause

(etiological characteristics)

Or, might be exacerbating factors

Associated

Sleep disorder

Hypermobility Hyperventilation

Allergy/chemical sensitivity Depression Fatigue

Anxiety

Infections

Irritable bowel syndrome

Thyroid dysfunction and trauma (particularly whiplash) Tension headaches

Migraine

Premenstrual tension syndrome

Cold intolerance Restless leg syndrome

More

Raynaud's

Hyperventilation

Allergy

Chemical Sensitivity

Menstrual cramping

Hypoglycemia

Candida (Yeast overgrowth)

Leaky Gut

Interstitial cystitis

Typical Patient

Conventional

40 year old female, history of insomnia, recent

traumatic episode



Ayurveda

Vata constitution
Dry
Thin of frame
Not necessarily underweight
Often overweight, lack of
activity
Cold

Lifetime constipation



133

Alternative Medicine

Usually some underlying pathology, chronic virus, immune system deeply involved, caretakers







134

Causes

135

Causes

☆ Sleep disorders ☆

Biomechanical Trauma—physical Structural (hypermobility, postural, trauma) Functional (overuse hyperventilation)

120

Precipitating Events

Chronic sleep disturbance (care givers)

Flu-like illness

HIV infection

Lyme disease

Physical trauma (whiplash injury)

Emotional trauma

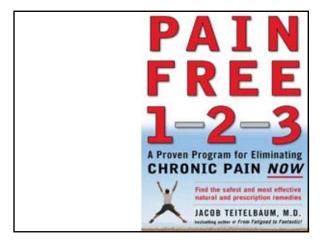
Medications, steroid withdrawal

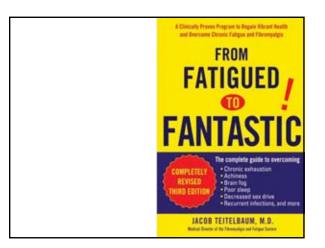
Persistent stress

Jacob Teitelbaum, M.D.

Internist
Medical Director of the
Fibromyalgia and Fatigue
Centers of America









Jacob Teitelbaum, M.D.

Research →mitochondrial, hypothalamic dysfunction common denominators

Marked hypothalamic disruption

(Hypothalamus as "circuit breaker")

Energy stores are depleted

Hypothalamic dysfunction occurs early on

142

Jacob Teitelbaum, M.D.

Resulting in:

disordered sleep autonomic dysfunction low body temperatures hormonal dysfunctions Jacob Teitelbaum, M.D.

Inadequate energy stores in muscle \rightarrow Muscle shortening (think rigor mortis) Pain, further \uparrow by loss of deep sleep

Jacob Teitelbaum, M.D.

Restoring adequate energy production, eliminating stresses that over-utilize energy

(e.g.-infections, situational stresses, etc.)

Restores function in

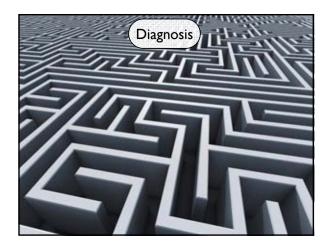
hypothalamic "circuit breaker" allows muscles to release allowing pain to resolve

145

Jacob Teitelbaum, M.D.

Placebo controlled study 91% of patients improve Average 90% improvement in quality of life 3 months, majority no longer qualified as FMS

146



FMS: Classification

American College of Rheumatology: 1990

Both criteria must be satisfied

History (>3 months)
widespread pain 2 of 4 quadrants
Left and right sided
Above and below waist
Axial skeletal pain (cervical spine or anterior chest or thoracic spine or low back) must be present
Pain (not tenderness) on digital (4 kg) palpation in
II of 18 tender points

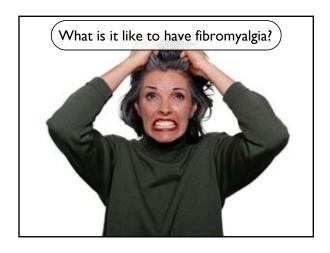
148



Physical Exam

Examine using thumb with force that just makes thumbnail blanch (4 kg, 9 lbs.)





What is it like to have Fibromyalgia?

"My body feels like it's screaming!"

"Imagine that last night you drink two glasses of wine more than you would have liked, but no water, and eaten no food. You went to bed late, and got up early. You are stiff, achy and tired—all the time."

- Chanchal Cabrera, AHG

152

Tender Points

Tender Point count/intensity can vary day to day
Degree tender point pain predicts
functional limitation
Correlation is very far from perfect
Individuals < I I of 18 may still have severe
functional limitations (Chronic Pain Syndrome)
Cut-off between "fibromyalgia" &
"chronic pain syndrome" is arbitrary

153

FMS: How is it treated?

Arthritis Foundation: 2003

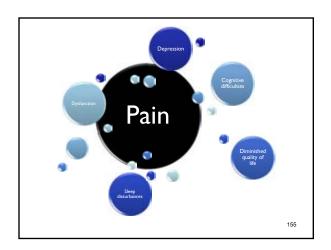
Education (understand and manage)

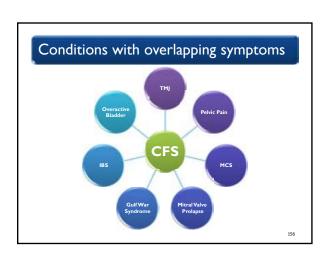
Relaxation (ease tension and anxiety)

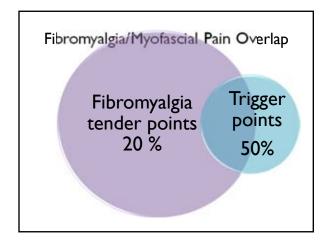
Exercise (flexibility and CV fitness)

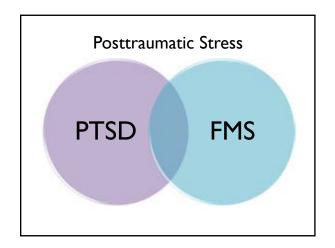
Drugs (decrease pain and improve sleep) Antidepressants (tricyclics, SSRIs)

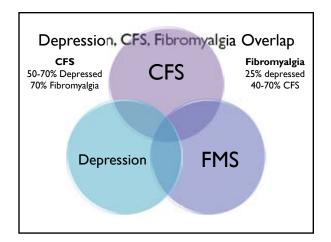
Benzodiazepines











Comparison of CFS and FMS			
	CFS	FMS	
Type of	Syndrome	Syndrome	
Disorder	Illness	Illness	
Prevalence	I million	3-6 million	
Women: Men	4:1	4:1	
Diagnosis	Case Definition	Tender Points	
	Dx of exclusion	Dx of exclusion	
		160	

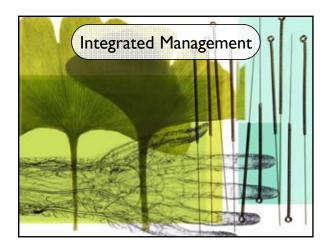
Comparison of CFS and FMS			
	CFS	FMS	
Major symptoms	Chronic fatigue Non-restorative sleep	Chronic pain Tender points	
Goal of Treatment	Manage symptoms	Manage symptoms	
Prognosis	Restore good health	Restore good health	

Mainstream primary care providers

Help patient reach improved level of functioning

Natural Healing Perspective

Help patient get well and resume a healthy life



Integrated Management

Many people have been cured Pain does not mean not to move Get good, long, deep sleep Holistic lifestyle support Multidisciplinary therapies-body, mind, spirit Incremental, gradual pace of improvement and change



Day to Day

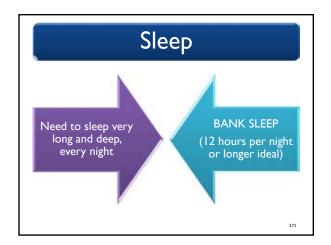
Expect Relapses (Exercise half capacity) Addressing "pain behavior"





















Ye Jiao Teng

Stem of Polygonum multiflorum
(Root is ho shou wu)
Exceptionally effective
Rapid acting
Well tolerated
Tea- 15 grams at bedtime

177





Nutmeg

Myristica fragans
Dried kernel of seed
1-5 grams at bedtime







Biofeedback

Decreases the number of tender points, overall pain intensity, and morning stiffness

Benefits last up to six months

Greater effect combined with relaxation training

104



Reduce Acute Immune Burden

FMS/CFS may be infectious in origin Some % of cases triggered by immune episode Opportunistic infections present

Reduce Acute Immune Burden

Treat current extant chronic & acute infections

Often history of excessive antibiotic use

187

Opportunistic infections in CFS/FMS

Yeast

Chronic URIs

Sinusitis

Bowel infections

Chronic, low-grade prostatitis

Fungus

188

Then, Reduce Chronic Immune Burden

Adaptogens
Slow acting immune enhancers
Bowel probiotics
Empiric trial of antifungal therapy

189



Nutritional Supplements

Assess for deficiencies Provide broad support as needed



Vitamin D

Strong association pain syndromes
Northern latitudes 10,000 IU per day +

193

Vitamin D Functions in Human Health

Is fibromyalgia just a vitamin D deficiency?
Autoimmune connection
Mood connection
Rickets accompanied by muscular weakness

194

Magnesium Annua Act Outate AK To Relaxing Universal Formulas UNIVERSAL FORMULAS

Magnesium

Fibromyalgia preventive
Co-factor over 350 biochemical reactions—
energy production, bone formation, muscle
function and relaxation, protein synthesis

196

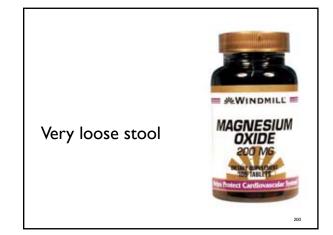
Magnesium

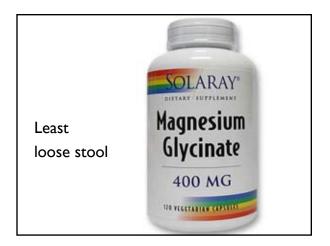
Magnesium

Studies- 90-95% of the U.S. population deficient Most American adults not get RDA 400-500 mg

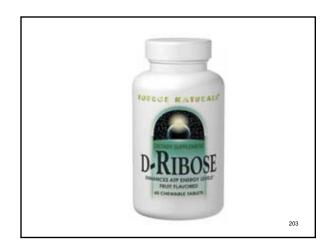








Magnesium Required by specific enzymes that produce Adenosine Triphosphate (ATP) Bowel tolerance dose (~1200 mg)



Ribose

Ribose (d-ribose)

Naturally occurring five-carbon sugar

Found in all living cells

Carbohydrate backbone, cells' energy molecules

Ribose

Teitelbaum—senior author very promising ribose study

41 FMS patient feasibility study

Patient age & gender corresponded to FMS population

5 grams ribose orally, tid, average 28 days

205

Ribose

12 days, 66 % significant improvement in energy, sleep, mental clarity, pain intensity, well being

44% average increase energy, 30% increase well-being

Averaged 25% improvement in quality of life

206

Ribose

3-5 g qd provides muscle cells adequate supply FMS—10 to 20 grams or more per day

Contemporary protocols (Teitelbaum)

Start 5 grams qd

Titrate dose ↑3-5 g qd →best subjective level

207

I-Tyrosine

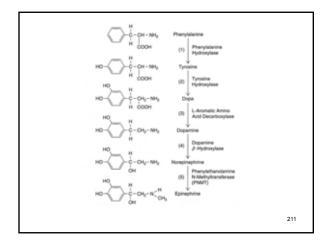


208

I-Tyrosine

Or, Phenylalanine Energizing Use in AM (not late, ad lib) 500-3,000 mg per day



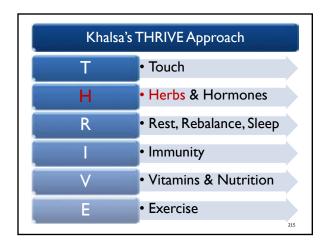






Supportive Treatment Activity is important to quality of life & recovery Highly individualized Avoid overexertion Balance—prevent "boom or bust" cycles Referral to physical therapist or occupational therapist

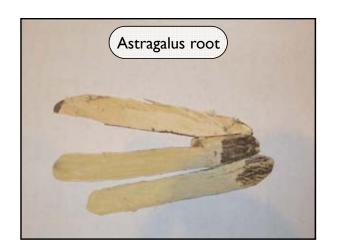
Paced



Tonic herbs build balanced health Guduchi Amla Licorice Punarnava root Vidarikand Pipali Bala Shankpushpi Shatavari Ashwaganda Brahmi



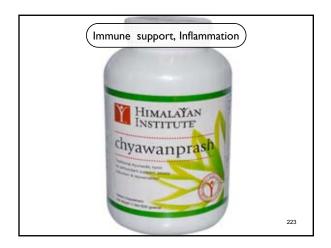
















Agastya Rasayanam Geriatric formula Shankapushpi



Narasimha Rasayanam

Antiaging, especially pitta wasting

Bringraj

Dashmula

Bala Pipalimul Chitrak Elecampane Ghee Pipali Haritaki Etc.

Triphala

Milk

Ghee

Shatavari

Etc.

228



Brahmi Ghritham

Ghee

Brahmi

Trivrit

Shankapushpi

Etc.

230





Dipsacus

Dipsacus root (Dipsacus asper)

(Xu Duan)

Chinese teasel

Pillar TCM joint therapy and traumatic injury

The "arnica of Chinese Medicine"

Broad benefit musculoskeletal, trauma, pain

15 grams per day as powder or tea



Nexrutine

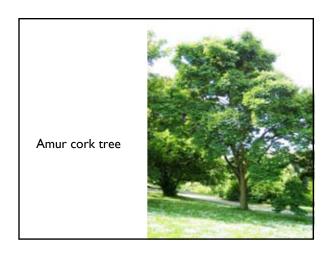
(Proprietary)
Extract Amur cork tree bark
(Phellodendron amurense)
Anti-inflammatory
Effect from berberine?

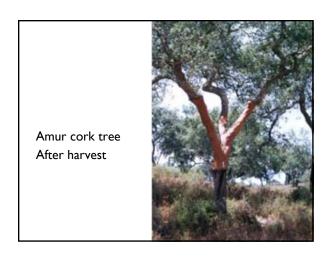


225

Nexrutine

Inhibits COX-2 gene expression w/o inhibit COX-I Broader inhibition pro-inflammatory processes











Nexrutine

Study- faster onset of analgesia than naproxen

370-person open trial 91% reported beneficial effects pain reduction &/or inflammation increase in mobility, flexibility

24

Blood Movers

Move blood, treat congealed blood, stop pain from blood stasis

Ligusticum (Szechuan lovage root, Osha)

Salvia root (Dan shen)

Motherwort

Red peony root

Three edge root (Sparganium)

Ox knee root (Achyranthis)

Artemisia (various)

243



Cham Dang Gui

Korean Giant Angelica (Angelica gigas Nakai)
Similar to dong quai (multipurpose blood mover)
Active decursinol, decursin (multiple manufacturers)
Decursin much high yield than dong quai
Study 70% subjects receiving decursinol
Significant improvement 14 days visual analog scores
(OA, blunt trauma pain)

245

Cham Dang Gui

Decursinol (polyphenol)
Chronic/blunt trauma pain
Antinociceptive action CNS
Possibly essentially anti-inflammatory)
Decursinol 250-1000 mg per day



Arnica flower

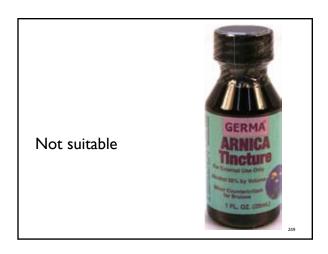
Internal much less toxic than often thought Must be suitable for internal consumption Tincture 1:10 (traditional pharmacopoeias) 1-100 drops (1:10) as needed

Titrate dose

Overdose

GI warmth, arrhythmia, nervous stimulation

48







Mineral Bath Therapy

Improvement all variables, short & middle term
Improvements in spa group superior to controls

Fibromyalgia Impact Questionnaire (until 6th month)

Pain (until 1st month)

Tender point count (until 1st month)

Patient's global assessment (end-of-treatment)

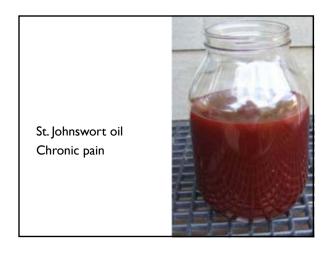
Fatigue (end-of-treatment evaluation)















Hormones

- I. Assess hormone status
- 2. Bioidentical hormones

260







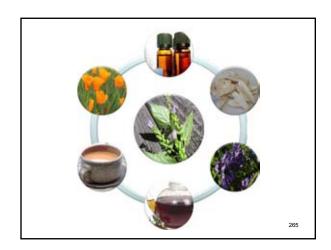
Questions

Please type your question into the box in your webinar console

Please limit your questions to the webinar topic

We will answer as many questions as possible





An Association of Herbal Practitioners

PO Box 230741 Boston, MA 02123 857.350.3128

ahgoffice@earthlink.net

