

Pain Management with Nutrition and Herbs

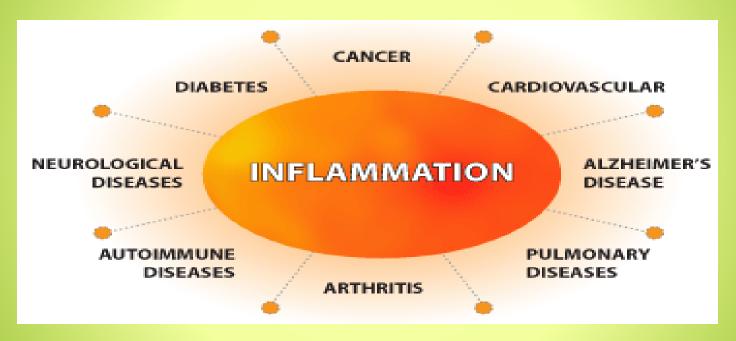
Charles George VA Medical Center
Veteran Pain Management Class
Sherry McCulley-Hall MSN RN ANCC-BC

Inflammatory Response

- Pain: Chemicals that stimulate nerve endings are released, increasing sensitivity.
- Redness: increased blood flow to site
- Immobility: loss of function
- Swelling: caused by accumulation of fluid
- Heat: increased blood to area makes it feel warm to the touch

Inflammation

 Acid state results from inflammation and oxidation. Humans need to be more Alkaline.



 Chronic inflammation is linked to metabolic syndrome, insulin physiology and other digestive and pain related conditions

Pain and Inflammation

- Pain and inflammation are normal body self-protection processes.
- Inflammation normally aids in providing the body with a protective process to aid in healing.
- Chronic inflammation causes further inflammation and becomes selfperpetuating causing damage to our body.

www.medicalnewstoday.com



The Mindset of Pain

- How we think about pain provides the basis of our cycle of pain responses. (Pain Pathways)
- Depression, anxiety, stress and anger increases our pain sensitivity and pain responses.
- How we think about nutrition and our dietary choices affects the cycle of inflammation and pain. (requires a change in life style)
- Exercise and natural endorphins (in the brain) change our response to pain.

Weight: Pain and Inflammation

- Weight puts extra stress on joints, muscles, ligaments and increases wear and tear.
- Every pound of weight you lose equates to <u>four pounds</u> less stress and pressure on your knees.
- Body fat is not inert, it is living tissue which can produce hormones and chemicals which increases inflammation and pain.



"Every time you eat or drink, you are either feeding disease or fighting it."

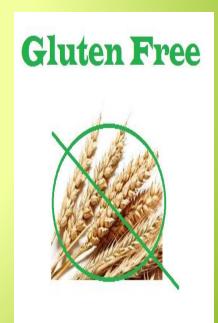
- Heather Morgan, MS, NLC

Digestive System

- Normal GI Flora: Bacteria in our GI system is a key component of our immune system and the inflammatory response.
- Hormones, antibiotics and GMOs in our food chain can kill normal flora.
- Candida (yeast) overgrowth
- Carbohydrates feed yeast
- Pro-biotics to replace and maintain the GI floral. Kefir, Yogurt, Kimchi, Sauerkraut, Pickled Vegetables, or Pill Supplements.

Gluten? and Your Pain

- Wheat, Barley and Rye products have gluten.
- Seek whole grains (to reduce Gluten)
- Use long cooking grains and whole grains
- Alternatives to Wheat include:
 Quinoa, Buck Wheat, Rice,
 Oats, Corn, Millet, Amaranth, etc.
- Try one month of being gluten free to see if your pain is reduced.



Chia: Ancient Super-Seed

The ancient seeds of the Aztecs and Mayans have been used since 3500 BC. Chia comes from the Mayan word for "strength".
 Considered magical for increasing stamina and energy over a long period of time.



Chia: Ancient Super-Seed

- More calcium than milk, one ounce provides 18% of your daily calcium needs.
- More omega-3 fatty acids than salmon
- Provides 42% of daily fiber needs in one ounce, and provides supplemental protein (3g per Tbsp.)
- Delivers maximum amount of nutrients with minimum calories (at least 1 ounce daily)
- Adds in weigh loss (1 tbsp. in 8 oz. fluid-let stand 10-15minutes before meals), hydration, and is high in antioxidants to reduce inflammation.

www.doctoroz.com

Turmeric (Curcumin) + Black Pepper (Piperine)

- A spice common in Indian cooking
- Suppresses inflammatory process
- Related to ginger, another anti-inflammatory.
- Potent anti-inflammatory, antioxidant, and perhaps has anticancer properties.
- Backed by 2000+ studies for effectiveness



Turmeric (Curcumin) Benefits

- Improves Brain Function and nerve conduction
- Lowers cholesterol and lipids
- Helps to regulate blood sugar, blood pressure
- Heart disease by decreasing blood vessel damage.
- Decreases blood clotting (use with caution with Coumadin or blood thinners)
- Reverses and serves to protect the liver from damage, cirrhosis.

www.webmd.com

Vitamin D3

- Low levels linked with increased levels of chronic pain.
- People with chronic opioid use have been found to need twice the dose of medication.
- Benefits the heart, memory, bones, joints, muscles, skin, inflammatory
 bowel (Crohn's), fibromyalgia,
 nerve pain, nervous system.

www.ncbi.nlm.nih.gov



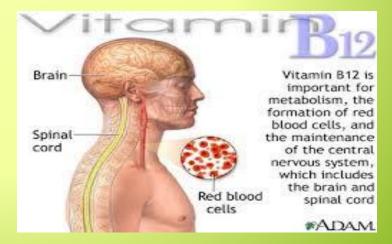
VitB-12 and B Complex

- Decreases inflammation
- Effective for neuropathic pain (neuropathy)
- Effective for joint pain, bursitis
- Avoid overuse (200 to 500mg per day)
- Excess dosing can cause liver damage.

Seek as Cyanocobalmin-methlcobalamin form for

Vit-B12

Inhibits pain pathways



www.progressivehealth.com

Cinnamomum Cassia



Cinnamon 1000mg daily, or one teaspoon

Omega-3 Fatty Acids

- Back pain, headaches, nerve pain, autoimmune conditions.
- Potent in decreasing inflammation
- Suppresses the production of cytokines and enzymes that erode cartilage.
- Sources: Chia seeds, fish oil supplements, salmon, herring, sardines, rainbow trout, omega-3 fortified eggs, ground flax seed, walnuts, soybeans, flax seed oil.

www.today.com

(Has blood thinning properties, affects blood sugar)

Magnesium (Malate)

- Involved in over 300 chemical processes in our body.
- Treatment for leg cramps and restless leg
- Deficiency feeds the fire of inflammation.
- Shown to remove Aluminum from the brain.

DIETARY SUPPLEMENT

MAGNESIUM

MALATE

VIELDING 833 MG MALIC ACID

www.drsircus.com

Glucosamine / MSM / Herbs

- Glucosamine supplements have some of the best data for joint pain, osteoarthritis
- Combined with chondroitin for added benefit
- MSM reduces osteoarthritis
- Beneflex / Instaflex (new)



Serving Size 3 Capsules Servings Per Container30	
Amount Per Serving	% DV
Glucosamine Sulfate	1500mg †
MSM (Methylsulfonylmethane)	500mg †
White Willow Bark Extract	250mg †
(Standardized To 15% Salicin)	
Ginger Root Extract 4:1	250mg †
Boswellia Serrata Extract	125mg †
(Standardized To 65% Boswellic	
Acid)	
Turmeric Extract 25:1	50mg †
(Standardized To 95%	
Curcuminoids)	
Cayenne 40M H.U.	50mg †
Hyaluronic Acid	4mg †
† US RDA not established	

Anti-inflammatory Properties

- Bromelain: an enzyme which occurs in pineapple
- Green Tea: anti-inflammatory, antioxidant, natural fluoride
- R-Alpha-lipoic Stabilized Acid: Diabetic neuropathy, nerve pain, potent nerve antioxidant, decreases blood sugar levels (use with caution)

Anti-inflammatory Properties

- Blueberries: Anti-inflammatory, reduces joint swelling and osteoarthritis gout pain
- Extra Virgin Olive Oil:
 "good" monounsaturated
 fat, works like an NSAID
- Capsaicin: Derived from chili peppers, soothes pain



Apple Cider Vinegar with Mother

- Reduces and regulate blood sugar, adds in weights loss. (1-2 tbsp. daily diluted/honey)
- Decreases cholesterol and blood pressure.
- Treatment for leg cramps, restless leg pain
- Fights infections, and reduces yeast overgrowth (human alkaline state)



- Good for acid reflux and heartburn pain.
- Approved for treatment of arthritis and other joint pain by the National Arthritis Foundation

www.arthritis.org

Foods To Avoid

- <u>Saturated Fats</u>: Fats from animal sources and from some animal products
- Coconut oil, palm oil, palm kernel oil,
- Choose organic dairy products, lean cuts of meats and avoid Nitrates
- <u>Trans Fats</u>: check labels (avoid word hydrolyzed) FDA allows 0.5mg per serving
- Simple and Refined carbohydrates (Sugar) causes an increased process of inflammation

www.webmd.com

Sweeteners

- Avoid: <u>Aspartame (Amino Sweet)</u> converts methanol to formaldehyde and formic acid in our body, <u>Splenda</u> discovered from pesticide research.
- Avoid: High Fructose syrup (read labels)
- Use: Stevia, Monk Fruit, Agave, Honey, Raw

Sugar







High Fructose Corn Syrup

- Significant Risk of Weight Gain and Obesity
- Increased risk of Diabetes Type 2
- Hypertension and Elevated "Bad" Cholesterol
- High Fructose Corn Syrup and Liver Damage
- Unregulated exposure to Mercury

The dangers of high fructose corn syrup are numerous and severe.

www.globalhealingcenter.com

Generic Measureless Method

How to judge quantities.

- 1 Fist, clenched = 8 OZ
- 2 Hands, cupped = 1 cup
- 1 Hand, cupped = $\frac{1}{2}$ cup
 - 1 Palm of hand = 3 OZ
- 2 Thumbs together = 1 Tablespoon

Read Labels Most Valuable Consumer Tool

- Caution with ONE word labeling "fat free", "sugar free"
- If you cannot define a word, neither can your body "chemicals listed on labels".
- Preservatives are good for shelf life not bodies.
- Substitutes for sugar / fat are not more healthy
- Avoid "hydrogenated or hydrolyzed" products.

Closing Comments

"Pain Management with Nutrition and Herbs"

Contents of this presentation are intended for information purposes only! You are encouraged to make informed choices about your nutrition / diet, and the use of herbs and vitamin supplements. Always inform your health care providers of your use of vitamins and herbal supplements which can interact with your RX or have an effect like your RX medications. Overuse or improper use of vitamins and supplements can have undesired health outcomes!

Your Choice



versus

