ANTI-INFLAMMATORY DIET

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ACUTE VS. CHRONIC INFLAMMATION

Acute inflammation:

Positive signal that the body is working to heal itself Symptoms include redness, swelling and pain Happens quickly and subsides as the tissue heals

Chronic Inflammation:

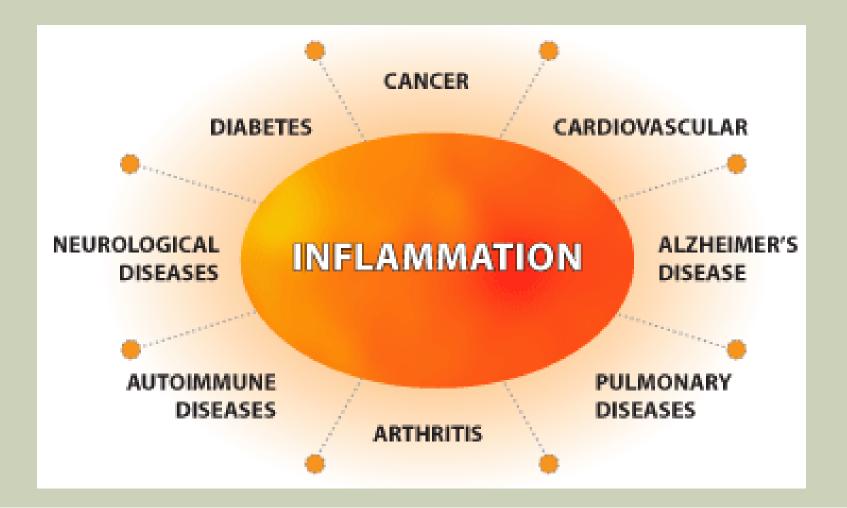
- Happens over days, months, years
- Signs are less obvious

Persistent and leads to severe and progressive tissue damage and inflammatory diseases

SYMPTOMS OF CHRONIC INFLAMMATION

- Digestive problems
- Chronic fatigue
- Moodiness/depression
- Food cravings
- Insulin resistance/blood sugar issues
- Rashes/skin issues
- Weight gain
- Headaches
- Allergies

DISEASES LINKED TO INFLAMMATION



ROOT OF INFLAMMATION

Gut: Intestinal permeability/leaky gut

Digestive system contains immune cells that prevent toxins and pathogens from entering the bloodstream. Modern invaders – smoking, lack of exercise, high fat meals, high calorie meals, sugar, trans fats – irritate the innate immune system

Digestive lining should be woven tightly. If it becomes too permeable, undigested nutrient particles, toxins or bacteria can get into your bloodstream. This triggers the immune system and lead to inflammation

Even "healthy" food not digested properly can be a cause of inflammation

REPAIRING THE GUT

- Elimination diet—common inflammatory foods that activate the immune system: gluten, dairy, sugar, and alcohol
- Proper nutrients
- Probiotics
- L Glutamine—healing for lining of digestive tract
- Fish Oil or Flax Oil (Omega 3 source)
- Vitamin D-5000 works like a hormone in the body regulating calcium absorption and inflammation levels

MINDFUL EATING

- Chewing food really well can aid in the digestive process and make nutrients more available
- Body can attack food as a foreign invader if it is not digested properly and enters the blood stream
- Fights fatigue and leads to eating less and enjoying food more
- Mindless eating disrupts our digestive abilities by eliciting stress hormones. This can cause inflammation and weight gain

PRACTICE MINDFUL EATING

Pay attention: make an active choice about what you are eating Plan ahead and prepare Make a choice that prioritizes your health goals: traveling/guest, etc.

Questions to ask:

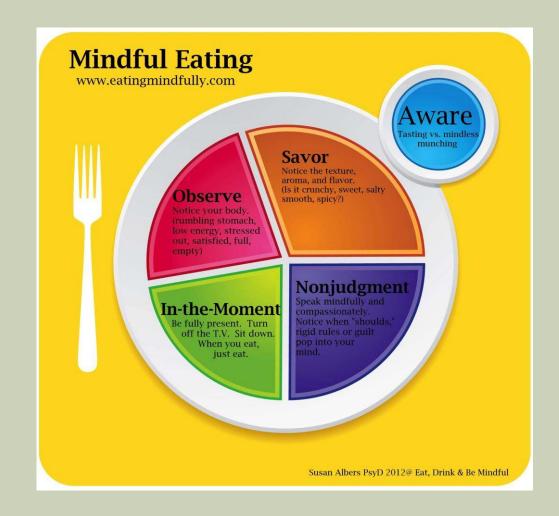
- Why? am I eating now: Am I hungry?
- What? Will this choice serve my wellness in the long run. Is this treat worth how I will feel later. Nothing tastes as good as healthy feels.
- How? Am I fully present eating or am I doing other things?

Try expressing gratitude: for food and farmers

Chew, chew, chew and then chew some more...

Digestion begins in the mouth. Chewing helps enzymes in saliva do their job so we can effectively absorb nutrients.

MINDFUL EATING



PRO-INFLAMMATORY FOODS

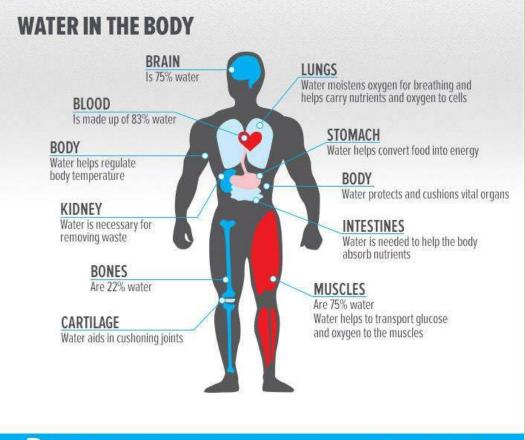
S.A.D. Diet

- Refined and Processed Food
- Grain Fed meats and eggs
- Refined grains/over consumption of whole grains
- Sugars
- Inflammatory fats/cooking oils: vegetable oil, canola oil, soy oil or corn oil (high omega-6 content and very low omega-3 content)
- Sodas and alcohol
- Artificial sweeteners
- Additives
- Food Dye
- Anything your body may not recognize as food (chemicals)

HYDRATION

- Crucial for proper cellular function. Dehydration slows down nutrients absorption and metabolism. Affects the operation of every organ in body.
- Signs of dehydration: fatigue, foggy thinking, depression, joint pain, hunger, cravings, and weight gain.
- Formula for hydration: ¹/₂ body weight in ounces per day.

HYDRATION



SUGAR

Addiction: hard to address, but important to remove

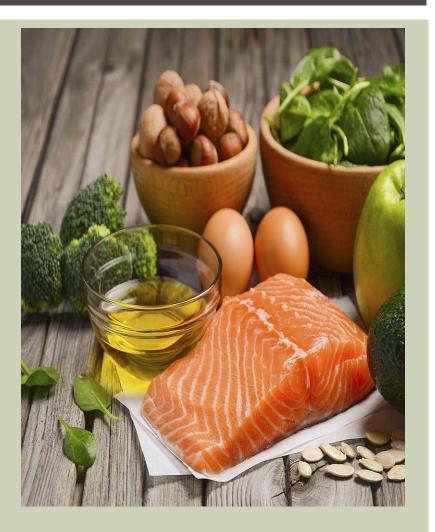
Increases inflammation—when blood sugar is high, the body produces more free radicals that trigger the immune system and damage cells and cause inflammation in the blood vessels.

Alters the hormone insulin (responsible for fat storage)increase in insulin = inflammation.



ANTI-INFLAMMATORY DIET

- Not a diet, but a lifestyle change
- Avoid super food and nutrient isolation
- Real/Whole Foods that exist in nature and have not been chemically altered
- 85/15 or 90/10 way of eating



ANTI-INFLAMMATORY FOODS

Plant Based Whole Foods Diet Fats Mostly from Whole Foods

- Vegetables
- Fruits
- Nuts and Seeds
- Meats and Eggs
- Healthy Fats
- Water
- Spices and Herbs
- Herbal Teas
- Whole grains
- Spices
- Mushrooms
- Antioxidants
- Phytonutrients



ANTI-INFLAMMATORY DIET

Supports the body by providing the proper vitamins, minerals, essential fatty acids, dietary fiber, protective antioxidants and phytonutrients. Provides steady energy by stabilizing blood sugar.

People do tend to lose weight on it, but it is not intended as a weight loss plan.

Choosing and preparing foods based on how those foods will support optimal health.

Eating to thrive, not survive.

PROTEINS

Meat: Organic, Grass Fed, Hormone Free, Antibiotic Free

Bison

Beef

Chicken

Duck

Lamb

Turkey

Venison

Elk

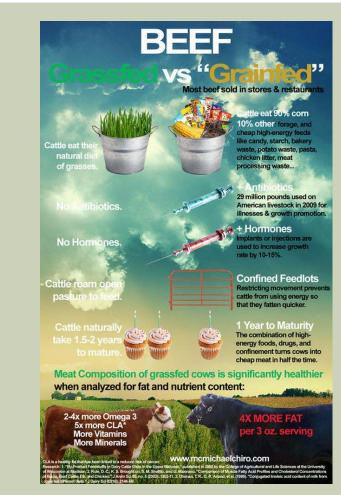
Eggs (pastured)





Tempeh-Fermented Soy

GRASSFED VS GRAINFED



PROTEINS

Fish (Wild Caught is Best) Canned Fish Should be in water and Mercury and BPA Free Trout Salmon **Sardines** Farmed wild Cod Tilapia Haddock Halibut Tuna Grouper Sea Bass Mackerel Mahi Mahi

Red Snapper

Walleye

DAIRY AND "DAIRY PRODUCTS"

Dairy (Organic or Raw is Best) Almond Milk (unsweetened) **Coconut Milk (unsweetened) Organic Cow's Milk (raw) Organic Cow's Cheese (raw) Organic Greek Yogurt (plain)** Goat Milk **Goat Cheese** Goat Yogurt (plain) **Kefir** Sheep Cheese Sheep Yogurt (plain)

Nutritional differences of raw milk vs. processed "Raw Milk is Whole"

raw milk has:	benefit:	in pasteurized milk:
phosphatase	essential for the absorption of calcium	destroyed
lipase	enzyme that aids in the digestion of fats	destroyed
immunoglobulin	helps improve asthma	destroyed
lactase producing bacteria	enzyme that helps digest lactose	destroyed
probiotic bacteria	strengthens immune system	destroyed
delicate proteins	tissue repair; muscle/bone strength	denatured
vitamins A, D & B-12	improve health	diminished
calcium	prevents osteoporosis; strengthens bones; helps weight-loss	inhibited
phosphorous	healthy teeth/bones	diminished

CARBOHYDRATES

Artichoke Arugula Asparagus Beets **Bell Peppers Bok Choy** Broccoli **Brussels Sprouts** Cabbage Carrots Celery Collards **Cucumbers** Eggplant Garlic **Green Beans** Kale **Mushrooms Mustard Greens**

Onions Okra Romaine Lettuce Parsnips Peas Peppers (All) Pumpkin Radish Spinach Squash Tomatoes Turnip Greens Watercress

CARBOHYDRATES

- Whole Grains in moderation
- Whole grain products instead of whole wheat
- Quinoa
- Brown Rice
- Wild Rice
- Beans (protein and carb)
- Whole Oats



CARBOHYDRATES

Fruits

Preferred: lower on the glycemic index
All Berries
Apple
Orange
Pears
Lemon
Lime

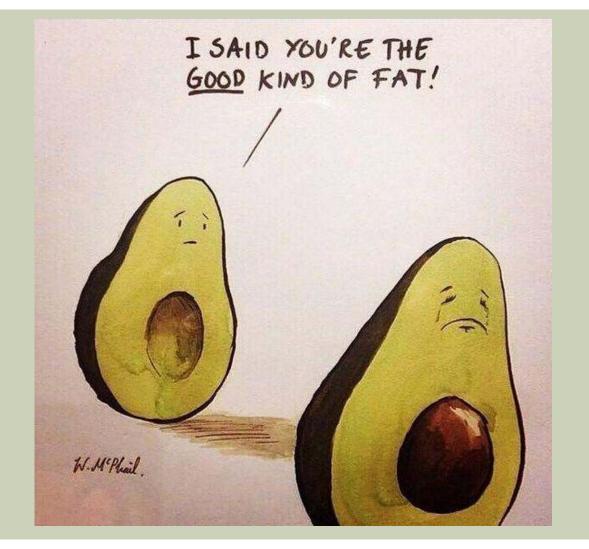
Moderation: higher on the glycemic index Apricot Banana Cantaloupe Cherries Coconut Figs Grapefruit Grapes Mango Nectarine

- Papaya Peaches Pineapple Plums Pomegranate Watermelon All other fruits
- Look up the the EWG dirty dozen list for most important foods to buy organic

https://www.ewg.org/foodnews/summ ary.php

HEALTHY FATS

Almonds **Brazil Nuts** Cashews **Chia Seeds Hemp Seeds** Hazelnuts Macadamia Nuts Pecans **Pumpkin Seeds Sesame Seeds Sunflower Seeds Nut/Seed Butters** Avocado Olives



HEALTHY FATS

Best to get fats from whole foods

Oils to be used in moderation:

Avocado Oil Almond Oil Butter (Grass Fed) Coconut Oil Ghee Flax Oil Macadamia Oil Olive Oil Sesame Oil Walnut Oil



HERBS AND SPICES

Basil Black Pepper Cayenne Pepper Chili Pepper (capsaicin) Cilantro Cinnamon Cloves Cumin Dill Fennel Garlic Thyme

Mustard Seed Nutmeg Oregano Paprika Parsley **Peppermint** Rosemary Sage Tarragon Thyme Turmeric (curcumin)

CONDIMENTS

Apple Cider Vinegar

Guacamole

Hummus

Mustard

Mayo (Olive Oil, Avocado Oil, or Sunflower Oil based)

Organic Salad Dressings made with healthy oils (listed above)

Salsa- no sugar added

Sea Salt

Cultured- yogurt, sauerkraut, kimchi, and other cultured vegetables

BEVERAGES

Water (filtered is best)

"Spa" water Broths- Homemade bone broth or veggie broth Almond, Cashew, Hemp, Sunflower, Coconut, Pumpkin Seed Milk (best to make at home to avoid the additives)

Organic Low-Acid Coffee

Herbal Teas

Kombucha

Raw Vegetable Juices

Sparkling Water- unsweetened and in moderation

Green Tea- polyphenolic compounds

SWEETENERS AND TREATS

- Honey or Molasses
- Stevia
- Dark Chocolate- 72% or higher
- Dry Wine
- Dry Cider



COOKING METHODS

- An important, but overlooked component of nutrition is how food is cooked.
- Avoid modified proteins and fats called advanced glycation end products (AGEs).
- High levels of AGEs fire up inflammation leading to heart disease, obesity and arthritis. AGEs can also contribute to aging
- AGEs develop when food is cooked on high or grilled
- Best methods: Slow and low. Stew, poach, braise. Marinate if grilling. Liquid helps prevent AGEs.

BEANS

Starchy: consume in moderation.

Preparation techniques:

To avoid lectins, phytic acids and enzyme inhibitors: Soak for 12 hours, change the water and cook thoroughly on high heat, not low and slow.

Lectins: Proteins that bind to cell membranes and can cause damage to intestinal tissue if consumed in large amounts or in undercooked beans or grains.

Phytic acids bind minerals in the digestive tract, preventing their absorption.

Enzyme inhibitors- block enzymes that help break down food

GRAINS

Refined grains can cause the same inflammatory response as sugar. Use whole grain products: bran, germ and endosperm

Soak grains to get rid of phytic acid

Gluten: The gut can interpret gluten proteins as a threat to the body. The body launches and immune response that attacks the intestines, causes the malabsorption of nutrients.

Eating to many grains=eating less micro nutrients from other foods

LABEL READING

Ideally: eating only foods that exist in nature

Realistically: plan to read some labels

Things to focus on:

- Look at ingredients not just nutrients
- Organic does not equal healthy
- Sugar amount: 4 grams= 1 teaspoon
- Sugar goes by many names so look out for any word ending in "ose," e.g.
- Types of oils
- Additives
- "Natural" terms
- Heart healthy: green washing



EATING OUT

Can stay on healthy eating lifestyle and eat out/not a free pass for "cheating"

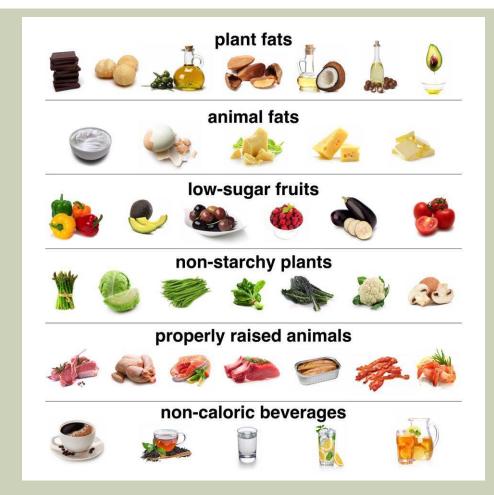
Ask about oils: hard to avoid bad quality oils in restaurants

Ask about quality/origin of food

If you would like to see something different at your favorite restaurant ask for it!

Seek out restaurants that support local foods and healthy community. There are plenty in Asheville.

ANTI-INFLAMMATORY IN A NUT SHELL



RESOURCES

Anti Inflammatory Foods and Food Pyramid: <u>www.Dr.Weil.com</u>

Glycemic Index http://www.health.harvard.edu/diseases-and-conditions/glycemicindex-and-glycemic-load-for-100-foods

www.health.hardvard.edu

Anti Inflammatory Shopping Listhttps://drasa.com/images/anti-inflammatory-diet.pdf

Dirty Dozen List- <u>https://www.ewg.org/foodnews/dirty_dozen_list.php</u>

General Consumer Information <u>www.ewg.org</u>