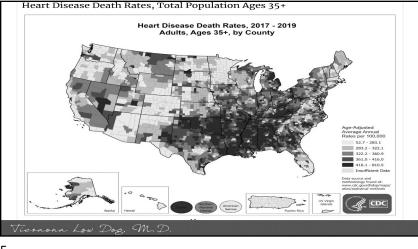
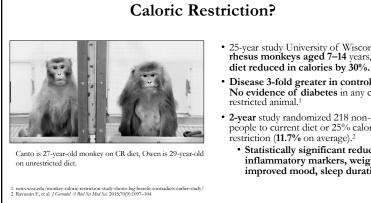


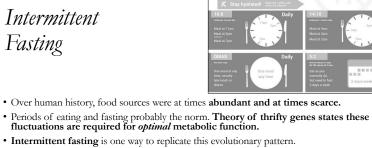
Dishotochtlachtml# Click "County Data" tak at ton and coloct "icraona Low Dog, M.D.







- 25-year study University of Wisconsin: 76 rhesus monkeys aged 7–14 years, fed
- Disease 3-fold greater in control group. No evidence of diabetes in any caloric-
- 2-year study randomized 218 non-obese people to current diet or 25% caloric restriction (11.7% on average).2
- Statistically significant reduction in inflammatory markers, weight loss, improved mood, sleep duration, etc.



Here are some of the more popular intermittent fasting methods/sched

· Bodies respond to intermittent fasting in ways that protect us from diseases of aging by improving cardiovascular and cognitive function, and risk factors for developing metabolic diseases.

Varady KA, et al. Alternate-day fasting and chronic disease prevention: a review of human and animal trials. Am J Clin Nutr 2007; 86(1): 7-13

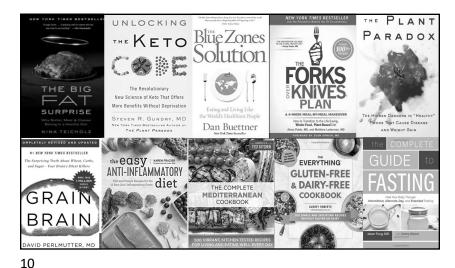
NEJM Review

Dozens of animal and human studies reviewed to explain how fasting improves **metabolism, lowering blood sugar; lessens inflammation,** which improves range of issues from pain and heart disease to asthma; helps remove toxins and damaged cells, lowering risk for cancer and improving brain function.



deCabo R, et al. Effects of Intermittent Fasting on Health, Aging, and Disease. N Engl J Med 2019; 381:2541-2551

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- Individuals with highest vs. lowest intake of ultra-processed foods had a 31% increased likelihood of death after adjusting for confounders.¹
- In US: 57% of total calories for adults² and 67% of total calories for children³ come from these foods.

Kim H, et al. Public Health Nutr 2019; 22(10):1777-1785.
 Juul F, et al. Am J Clin Nutr 2022; 115(1):211-221
 Wang L, et al. JAMA 2021; 326(6):519-530

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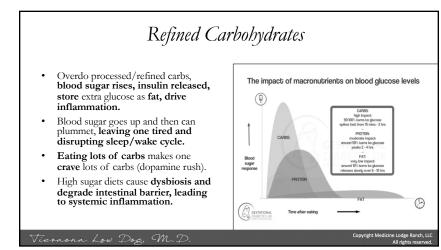
Plant Based Diets

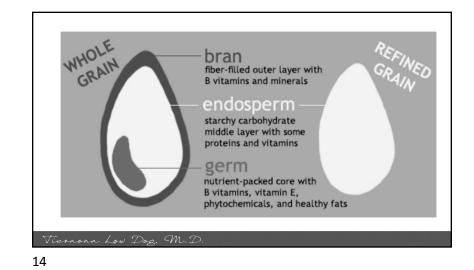
- Let's be more specific. Many not so healthy "plant based" foods: white rice, doughnuts, French fries, white bread, cookies, etc. Many high in refined starch/sugar, representing ~42% of all calories in US compared to ~5% of calories from unprocessed red meats.¹
- Poultry and eggs neutral, dairy may have beneficial metabolic benefits, especially reducing body fat and type 2 diabetes; seafood linked to several health benefits.²
- Plant based meats? Genetically engineered yeasts; new proteins; Impossible adds "heme" iron; many high in saturated fat, sodium, ultra processed.
- Most diet-related diseases are caused by **NOT EATING ENOUGH** fruits, nuts, seeds, beans, vegetables, whole grains, plant oils, seafood, and yogurt **AND TOO MUCH** ultra-processed foods high in salt, refined starch, or added sugar.

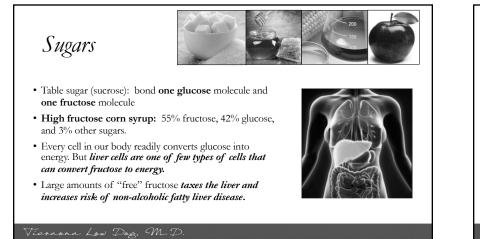
1. Shan Z, et al. JAMA 2019; 322(12):1178-1187 2. Mozaffarian D. Circulation 2016; 133(2): 187-225.

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Carbohydrates and Dental Caries Relationship between caries and carbohydrates well understood; dental hard tissues demineralized by acidic by-products produced by bacteria in biofilm (dental plaque) via fermentation of dietary carbohydrates.

- Rapid fall in biofilm pH (5.5 or below) after carbohydrates are ingested. This lower pH affects balance of microbes leading to higher proportion of acidic biofilm species, compounding tooth demineralization.
- Sucrose most cariogenic sugar, causes most dramatic drop in pH. Lactose is a sugar but less cariogenic because its fermentation produces smaller drop in pH.
- Higher glycemic load foods produce greater acute pH decreases and larger overall
 postprandial glucose responses compared to lower GL foods.

Tinanoff N, et al. Int J Pateliatr Deut 2019;29(3):238-48; Sheiham A et al. J Deut Res 2015;94(10):1341-7.
Palacios C, et al. Carries Res 2016;50(6):560-70; Atkinson FS, et al. Nutrients 2021 Aug 6;13(8):2711.

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Frequency of Consumption

- Frequent sucrose consumption associated with decreased species diversity and increased abundance of *Streptococcus spp.* in the oral biofilm and is more predictive of caries risk that simply total sugar consumption.
- Takes approximately 30 minutes for pH to drop after sugar intake, so additional sugar intake *within* that 30-minute period less harmful than additional intake *after* 30 minutes.

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van Loveren C. Sugar Restriction for Caries Prevention: Amount and Frequency: Which Is More Important? Caries Res 2019;55(2):(68-75). Billera AE, et al. Destary catholythesis inslates associated with the subgingival plaque oral microbiome abundance and diversity in a cohort of postmenopausal women. Scientific Repure 2022; 1: 2643

Sugar Substitutes: Better?



Nettleton JE, et al. Reshaping the gut microbiota: Impact of low calorie sweeteners and the link to insulin resistance? *Physiol Behav* 2016;164(Pt B):488-93.

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18

20

- Sugar substitutes frequently *1,000 times sweeter* than sucrose.
- Despite GRAS status by regulatory agencies, sugar substitutes can have negative effects on gut microbiota.
- Sucralose and saccharin disrupt balance and diversity of gut microbiota. Sucralose increases bacterial pro-inflammatory genes.
- Xylitol, erythritol neutral effect.

Glycemic Index/Load

- Glycemic load is measurement of impact of carbohydrates on *blood* sugar/insulin.
- International consensus conference concluded that given *consistency of scientific evidence*, diets low in glycemic index/load should be promoted in the prevention and management of *diabetes* and coronary heart disease; are particularly important in individuals with insulin resistance.

Augustin LS, et al. Glycernic index, glycernic load and glycernic response: An International Scientific Consensus Summit from the International Carbohydrate Quality Consortium (ICQC). Nutr Metab Cardinvase Di: 2015 Sep;25(9):795-815.

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Glycemic Index Calculation

Food containing 50 g carbohydrate is given

- +200 g of spaghetti = 50 grams of carbs
- ◆ Blood samples every 15 minutes for first hour then every 30 minutes and graphed
- ◆ Response compared to reference values found with 50 g of pure glucose (GI of 100)
- Retested 3 occasions and averaged with 8-10 other volunteers

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Accounts for both GI and serving size		
 GI x amount of carbohydrate (g)/100 = GL One teaspoon jam = 5 grams and has GI 51 	Low	0–10
 GL = (5 x 51) / 100 = 2.5 Foods that slow digestion lower the GL Presence of fiber or fat Presence of acid Lemon, lime juice, vinegar 	Moderate	11–19
	High	20 +

Grapefruit ½ large 3 Spaghetti 1 cup 38 Apple 1 medium 6 Brown rice 1 cup 23 14 White rice 33 Banana 1 large 1 cup Raisins 1 small box 20 White bread 1 slice 10 8 Whole grain bread 5 Watermelon 1 cup 1 slice Carrots 1 large 5 Bagel, cinnamon raisin 1 3.5 inch 24 1 medium 6 Pumpernickel bread 1 slice 6 Orange Sweet potato 1 cup 17 Macaroni and cheese 1 cup prepared 31 Baked potato 1 medium 28 Chocolate doughnut 1 doughnut (80 g) 25 French fries 1 medium serving 26 12 Glazed doughnut 1 doughnut (80 g) Snickers 1 bar 35 Kellogg's Frosted Flakes 20 Reese's cup 1 miniature 2 ¾ cup 14 White table wine Kellogg's Special K 1 cup 5 ounces 1 Red table wine 5 ounces 1 Post Bran Flakes ¾ cup 12 12 Post Raisin Bran 25 Grape juice 6 ounces 1 cup Copyright Medicine Lodge Ranch, LLC All rights reserved

Food

Serving Size

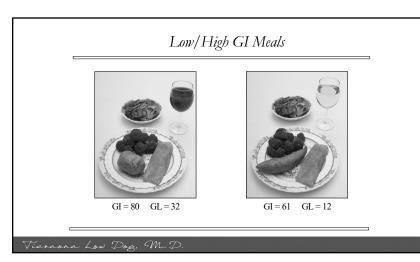
Glycemic Load

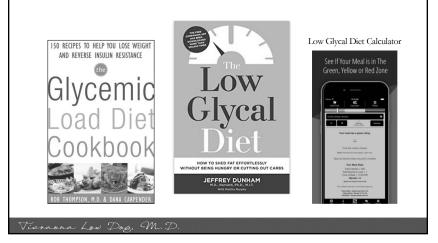
Glycemic Load

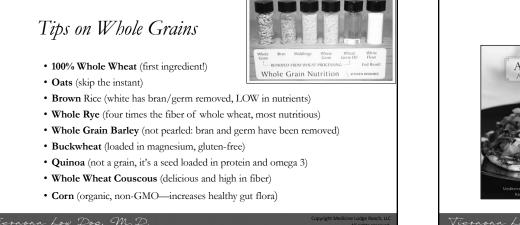
Serving Size

22

Food







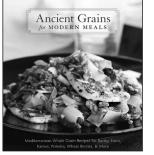
Consider Ancient Grains

3%

0% 5%

11% 13% 52%

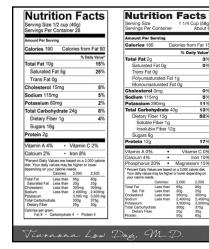
179



- Teff, einkorn, emmer, amaranth, millet, quinoa, black rice, black barley, and spelt.
- Generally, have more protein, fiber, and vitamins than modern grains.
- Those italicized are gluten free. Those with wheat intolerance can often consume ancient grains.

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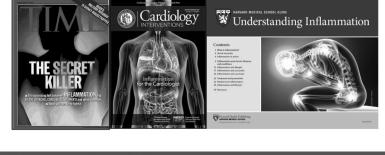


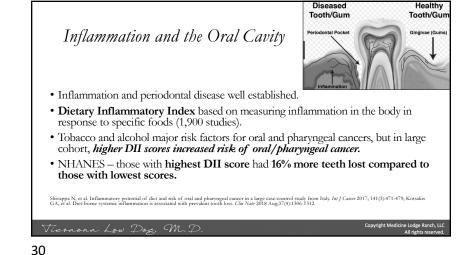


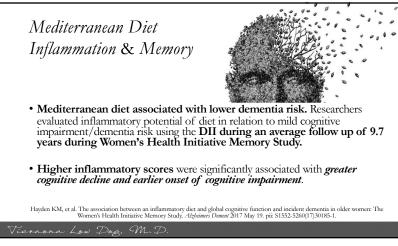
Carbs to Fiber Ratio

- Total carbs to dietary fiber
- Corn flakes far left, Kashi GoRise cereal right.
 - >10:1 is poor
 - <10:1 is good
 - <6:1 is great

INFLAMMATION...

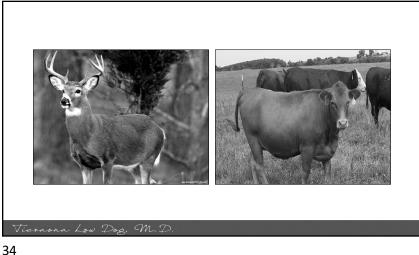






Inflammatory Food		FOOD	SERVING SIZE	SERVING SIZE (GRAMS)	IF RATING
		AGAVE NECTAR	1 TBSP	21	-74
Katin	Ratings		¼ CUP	64	100
		CHEESE,	1 OUNCE	28.35	-20
200 or higher	Strongly anti-inflammatory	CHEDDAR			
101 to 200	Moderately anti-inflammatory	CHICKEN BREAST, RSTD	3 OUNCES	85	-19
		MILK, WHOLE	1 CUP	246	-46
0 to 100	Mildly anti-inflammatory	OLIVE OIL	1 TBSP	14	74
-1 to -100	Mildly inflammatory	ONIONS, COOKED	½ CUP	105	240
-101 to 200	Moderately inflammatory	RICE, WHITE	1 CUP	158	-153
-201 or lower	Strongly inflammatory	SPINACH	1 CUP	30	75
-2010110We1	Scongly in termatory	SALMON, SOHO BAKED	3 OUNCES	85	450
		TURMERIC	½ TSP	1.5	338
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- From Greek protos, "first." Build new cells, maintain tissues (e.g., muscles, hair, nails), create enzymes, make hemoglobin, lipoproteins to transport cholesterol; present in membrane of every living cell.
- Protein depravation studies: breakdown of periodontal ligaments, degeneration of gingival tissues, and resorption of alveolar bone. Danish study: inverse relationship high protein intake and periodontitis.
- Sources: meat, poultry, seafood, eggs, soy products, nuts, nut butters, beans, peas, and seeds.
 - Choose seafood 2 x weekly (low in mercury, high in omega 3s, sustainable).
 - Include beans and peas often in your diet, as a side or main dish.
 - Chicken and poultry regularly, red meat 10 ounces per week. Avoid processed red meats.

Adegboye AR, et al. Calcium, vitamin D, casein and whey protein intakes and periodontitis among Danish adults. Public Haldh Nutr. 2016; 19:503–51

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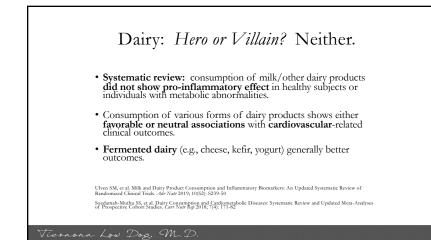
Protein Maintains Healthy Bones

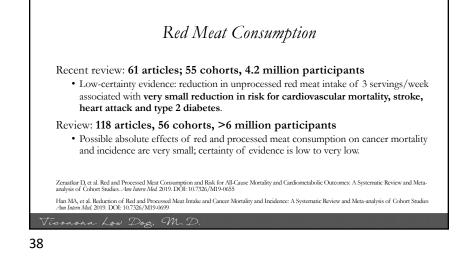
- Framingham Osteoporosis Study: higher protein intakes (60–83g/d versus 46g/d) in men/women (mean 75 years) associated with 37% decreased risk of hip fracture.
- Systematic review 29 studies: protein intakes above current RDA have beneficial role in preventing hip fractures and BMD loss.

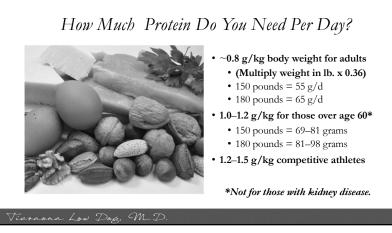


Misra D, et al. Outoporosis Int 2011; 22(1):345-349. Beasley JM, et al. Am J Cân Nutr 2014; 99(4):934-940. Calvez J, et al. Eur J Cân Nutr. 2012;66(3):281-295. Wallace TC, et al. J Am Coll Nutr 2017; 36(6):481-496

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Protein Rich Foods

Food	Portion Size	Protein (g) (approximate)
Meat, fish, or poultry	75g (2 ½ oz) / 125 mL (½ cup)	21
Firm tofu	150g / 175 mL (¾ cup)	21
Egg, chicken	2 large	13
Cheese	50 g (1 ½ oz)	12
Fortified soy beverage	250 mL (1 cup)	6-8.5
Cooked dried beans, peas, or lentils	175 mL (¾ cup)	12
Cow's milk	250 mL (1 cup)	9
Yogurt	175 mL (¾ cup)	8
Peanut butter or other nut spread	30 mL (2 Tbsp)	8
Nuts or seeds	60 mL (¼ cup)	7
Bread	1 slice (35g)	3
Cereals, cold	30 g	3
Cereals, hot	175 mL (¾ cup)	3
Pasta or rice	125 mL (½ cup)	3
Vegetables	125 mL (½ cup) or 250 mL (1 cup) lettuce	2
Fruit	1 fruit or 125 mL (½ cup)	1

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Protein Powders

- Whey protein hydrosolate: digested quickly after workout.
- Casein: "time-release protein" take before bee for muscle recovery.
- Egg white: no fat, equal to whey. Allergy.
- Soy: complete protein, no carbs/fiber, high absorbed. Allergy.
- Hemp: omega 3, fiber, less protein. (All the above are "complete proteins")
- Brown Rice hypoallergenic
- Pea see next page

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У					
bed	Per 20g serving	Soy*	Rice**	Pea*	Hemp*
	Calories (kcal)	80	88	72	77
	Protein (g)	17	15.3	15.5	9
hly	Fat (g)	1	1.2	1.1	1.9
	Carbs (g)	0	2.4	1.5	6.5 (5.2g fiber)
1	Sodium (mg)	190	0	192	0
	Cost (per 100g) In USD	2.3	4.32	3.96	2.82

Pea Protein

	Pea protein	Whey protein	 Good choice for those w
Calories	120	118	allergies or who are
Protein	22.5 grams	27 grams	vegan/vegetarian
Carbs	1.5 grams	1 gram	
Fat	2.25 grams	less than 1 gram	 Much higher in iron, making it a good choice f
Cholesterol	0 grams	0.011 grams	
Fiber	1.5 grams	0 grams	menstruating or pregna women
Sugar	0 grams	0 grams	women
Sodium	15% of the Daily Value (DV)	2% of the DV	No methionine
Calcium	7% of the DV	10% of the DV	
Potassium	1% of the DV	4% of the DV	Usually made from yell
Iron	42% of the DV	0% of the DV	• Usually made from yell split peas, not if you ha

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Favorite Protein Bars

- **RX Bar** (12 g protein, O g added sugar, 5 g fiber)
- Aloha Plant Based (14 g protein, 13 g fiber)
- Layers Protein Bar (15 g protein, 3 g added sugar)
- Epic Meat Bars (9-15 g protein, 0 added sugar)
- Clif Bar Whey Protein (14 g prot, 3 g fiber, 5 g sugar)
- Kind Protein (12 g protein, 5 g fiber, 6 g sugar)
- Naked Nutrition Peanut Butter (15 g protein, 6 grams fiber, 13 grams sugar)



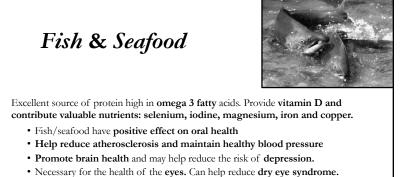
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Acts grow base
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Healthy Fats

- Most concentrated source of energy—more than twice carbohydrates or proteins.
- Acts as messengers in reactions that help **control** growth, immune function, reproduction, and basic metabolism.
- Makes foods flavorful and help us feel full.
- · Include a variety of healthy fats in the diet:
 - Extra virgin olive, sunflower, avocado, peanut oils
- Avocados
- Nuts
- Fish and seafood (omega-3 fatty acids)



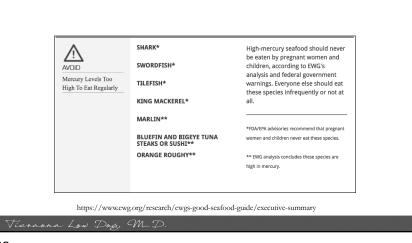


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- Crucial for health pregnancy and childhood development.
- Quells inflammation

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High Omega-3s, Low 25 percent of the weekly RSKS ADD UP children. How much you can safely recommended on your ace, weight	EWGS BEST BETSI Very High Omega-3s, Low Mercury, Sustainable	WILD SALMON SARDINES MUSSELS RAINBOW TROUT ATLANTIC MACKEREL	One or two four-sunce servings a week of these fish have little mercary and optimum levels of onega 3 largy acids for preparation marking survement and prople with heart disease.	LOW MERCURY But Aliso Low Omega-3s	SHRIMP CATEISH TILAPIA CLAMS SCALLOPS PANGASIUS (BASA, SWAI, OR TRA)	These varieties can be healthy sources of protein and other nutrients, but an adult would have to cat five to 20 four-ounce portions to meet the onega-3 recommendation for program women and people with heart disease.
	GODD CHOICES High Omega-3s, Low Mercury	ANCHOVIES POLLOCK/IMITATION CRAB	concentrations of omega-3 fats. One four-ounce serving provides at least 25 percent of the weekly recommended omega-3 consumption. A pregnant woman of average weight could eat three four- ounce servings per week without ingesting too much mercury. These species do not necessarily come	RISKS ADD UP Pregnant Women And Children Should Limit	TUNA HALIBUT LOBSTER MAHI MAHI	mercury to be part of the regular diet of pregnant women and children. How much you can safely eat depends on your age, weight and health status. Use EWG's Seafood Calculator to gauge how often you can eat them and to find



Name of Oil	Smoke Point	Other
Avocado	520/420 F	Refined/unrefined. Good for deep frying, mild flavor
Rice bran oil	490 F	Good for stir-fries, light taste
Ghee	480 F	Nutty flavor,
Canola oil, high oleic	475 F	Light taste, high in omega 3 fatty acids
Olive oil	468/375 F	Regular/Extra Virgin
Coconut oil	450/350 F	Refined/Virgin
Sunflower oil	440/225 F	Refined/unrefined: Sauté, baking, light flavor, versatile
Peanut oil	440/320 F	Refined/unrefined. Neutral taste.
Grapeseed oil	420 F	Light, good for frying and baking
Almond oil	420 F	Clean flavor, stir fries/sauteeing.
Hazelnut/Macadamia oil	430/413 F	Baking, nutty flavor
Sesame oil	410/350 F	Refined /unrefined. Stir frying, salads
Butter	350 F	Highly versatile, watch smoke point.



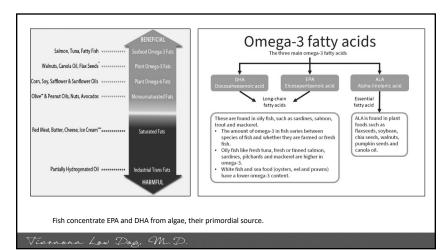
- Must be produced entirely by mechanical means without the use of any solvents, and under temperatures that will not degrade the oil.
- Olive oil should be kept refrigerated for optimal shelf life.
- To find top olive oils that meet rigorous quality standards: www.bestoliveoils.com

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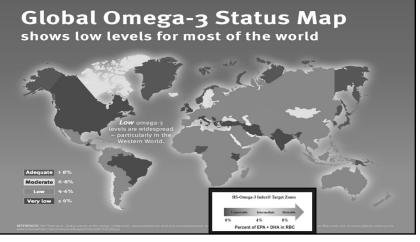




Saturated Fat Debate Three large meta-analyses (21 studies, 12 studies, and 76 studies) failed to show significant evidence that saturated fat increases risk for heart disease. Failed to find significant evidence that increasing polyunsaturated fats and decreasing saturated fats lowers heart risk. Note: high saturated fat diets increase intestinal permeability and can drive inflammation.

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Siri-Tarino, Amer J Clin Nutr 2010; 91 (3): 535–46. Schwingshacki L, et al. ABUJ Oper 2014; 4(4):e004487. Chowdhury R, et al. Am Intern Mad 2014; 16(4):398-406. Copyright Medicine Lodge Ranch, I



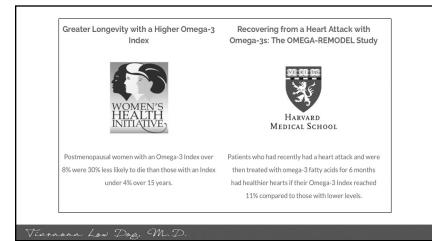
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EPA & DHA Health Benefits

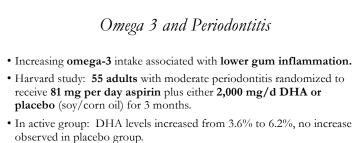
- Crucial for brain/eye development of baby first 1,000 days of life
- Lower triglycerides (but non-LDL-C)
- Mildly lower blood pressure
- Reduces inflammation
- Reduces risk of heart disease
- May improve cognitive function, depression, and ADHD

Mohan D, et al. JAMA Intern Med 2021 May 1;181(5):631-649.

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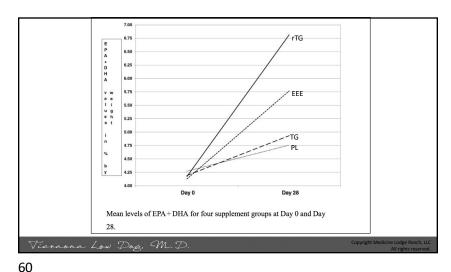
• Improvements noted in **pocket depth and gingival index**, as well as reduction in **CRP and IL-1-beta in the oral cavity**.

Naqvi AZ, et al. Docosahexaenoic acid and periodontitis in adults: a randomized controlled trial. J Dent Res 2014 Aug;93(8):767-73.

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TRT	Product	EPA & DHA per capsule*	Tested values	Label use: caps/day	Daily dosage of EPA + DE
rTG	Nordic Naturals ProOmega®	325 mg EPA	329.6 mg EPA	2	EPA: 650 mg
	Triglyceride	225 mg DHA	226.0 mg DHA		DHA: 450 mg
EE	Minami MorEPA®	756 mg EPA	774.2 mg EPA	1	EPA: 756 mg
	Platinum Ethyl Ester	228 mg DHA	233.7 mg DHA		DHA: 228 mg
PL	Source Naturals ArcticPure®	75 mg EPA	78.0 mg EPA	2	EPA: 150 mg
	Krill Oil Phospholipid	45 mg DHA.	46.7 mg DHA.		DHA: 90 mg
тG	New Chapter				
	Wholemega [®] Salmon	90 mg EPA	96.4 mg EPA	2	EPA: 180 mg
	Oil Triglyceride	110 mg DHA	109.5 mg DHA		DHA: 220 mg



Fish Oil: What Type is Best?

· Supplementation is an alternative to eating fish; however, not all

• Randomized, crossover study of 35 healthy individuals compared four

· Concentrated triglyceride (rTG) - Nordic Naturals ProOmega

• Triglyceride salmon oil (TG) - New Chapter Whole Mega Salmon

Laidlaw M, et al. Lipids Health Dis 2014; 13:99

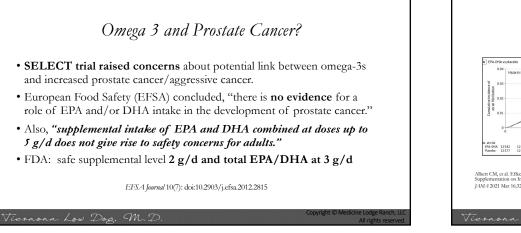
• Phospholipid krill oil (PL) - Source Natural Arctic Pure

supplements are equal.

58

popular brands/types of omega 3 fatty acids:

• Ethyl ester (EE) - Minami MorEPA



Current adequate intake recommendations for choline.

IOM-1998

AI (mg/day)

Iales Femal

375

9-13 year

UL (mg/day)

Eggs Primary Source of Choline

· Choline water soluble nutrient in B-

vitamin family. Without adequate

synthesis, triglycerides accumulate,

associated with permanent changes in

intelligence, memory, mood regulation,

brain function that negatively impact

which leads to non-alcoholic fatty liver.

choline for phosphatidylcholine

• Deficiency in pregnancy may be

and stress response in baby.

Heart Arrythmias?

arrythmias.

• Omega 3's have been said to reduce

and increase the risk of heart

• Randomized clinical trial 25,119

vitamin D, or combo.

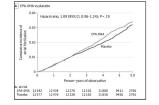
women/men aged 50 years or

older without cardiovascular disease,

effect (positive or negative) with 1

gram/d marine omega 3, 2000 IU

cancer, or AF failed to show any



Albert CM, et al. Effect of Marine Omega-3 Fatty Acid and Vitamin D Supplementation on Incident Atrial Fibrillation: A Randomized Clinical Trial JAMA 2021 Mar 16;325(11):1061-107

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Choline

- American Congress of Obstetricians and Gynecologists, American Academy of Pediatrics, Europe Food Safety Authority, WHO: choline as *crucially important* during pregnancy.¹
- Choline key nutrient in early neurodevelopment and for lifelong mental health.¹
- Pregnant women need 450 mg/d, lactating women need 550 mg/d.
- Review 38 animal 16 human studies: supplementing over first 1,000 days of life could:
 - Support normal brain development
 - Protect against neural and metabolic insults, particularly when the fetus is exposed to alcohol
 - Improve neural and cognitive functioning.²

1. Schwarzenberg SJ. Pediatrics. 2018:141. doi: 10.1542/peds.2017-3716. 2. Derbyshire E, et al. Nutrients 2020 Jun 10;12(6):1731

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EFSA-2016 2

120

160

140

250

340

15-17 year 400

400

480

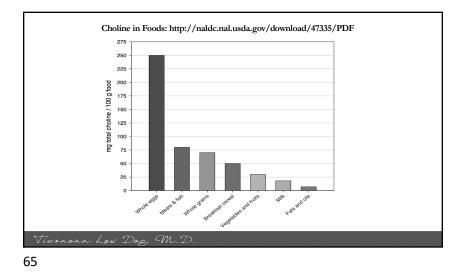
520

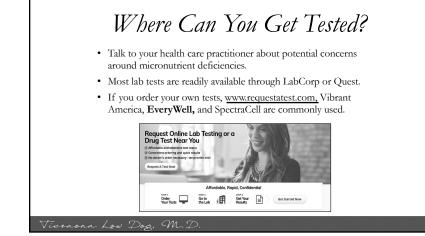
Age AI (mg/day

1-3 year

4-6 year 170

7-10 year





Beverages

- Your primary beverage of HYDRATION should be water.
- Add fruit, cucumbers, mint leavesMake your own "bubbly"
- **Coffee and tea** are fine (3–4 cups/d). Watch caffeine if *sensitive* to its effects.
- Herbal tisanes lovely addition for an afternoon or evening beverage
 - *Traditional Medicinals* and *Yogi* have many excellent offerings
- Alcohol: limit 1 serving/d if you drink

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	Brand	рН	
	Simple Truth	5.0	
	Le Bleu	5.0	
	Dasani	5.0	
	Aquafina	5.0	
	Tap Water	6.5	
	The Mountain Valley	6.5	
	Spring Time	6.5	
	S. Pellegrino	6.5	
	Just Water	6.5	
	Icelandic Glacial	6.5	Independent testing of
	Voss	7.0	various bottled waters.
	Smart Water	7.0	hater / (manager at a time hiter a
	LifeWater	7.0	https://watertestingkits.c. om/7-facts-about-ph-of-
	Kroger	7.0	bottled-water/
	Hydrogen Water	7.0	
	Fiji	7.0	
	Aqua Panna	7.0	
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Resources

- Fortify Your Life and Guide to Medicinal Herbs with National Geographic
- Dietary Supplement Label Database: dsld.nlm.nih.gov
- NIH National Center for Complementary & Integrative Health (NCCIH): nccih.nih.gov
- Office of Dietary Supplements: ods.od.nih.gov
- Linus Pauling Institute: lpi.oregonstate.edu
- Consumer Labs: www.ConsumerLabs.com
- Natural Medicines Research Collaboration https://naturalmedicines.therapeuticresearch.com

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