7 Habits of Happy, Healthy Vegans

A VegFest Presentation by GINNY MESSINA, MPH, RD TheVeganRD.com

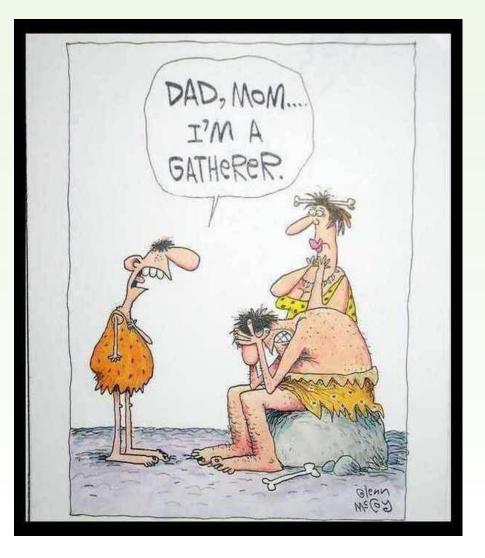








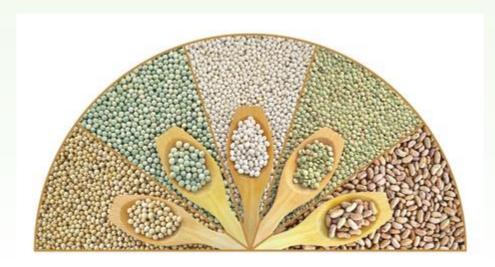
Vegan Diets: No Cultural or Historical Habits



7 Habits of Happy, Healthy Vegans

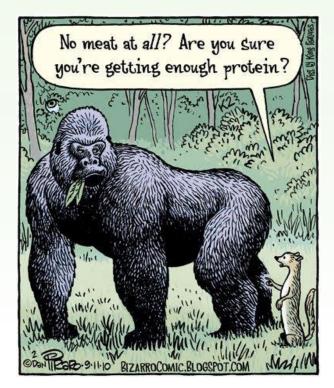
- 1. Eat legumes
- 2. Choose healthy fats
- 3. Identify important supplements
- 4. Eat a rainbow
- 5. Get adequate calcium
- 6. Enjoy vegan foods
- 7. Celebrate veganism

1. Eat Legumes



Where do you get your protein?

Grains Vegetables Nuts Seeds Legumes



Amino Acids

- Building blocks of protein
- 9 are "essential" & must come from food
- Grains, legumes, vegetables, nuts, and seeds provide all 9 essential amino acids, but are low in one or more

Vegan Protein: Importance of Legumes

Legumes are the only good plant sources of the essential amino acid lysine





3 Daily Servings of Legumes

- ¹/₂ cup cooked beans, tofu, tempeh
- ¹/₄ cup soy nuts, peanuts
- 2 tbsp peanut butter
- 1 cup soymilk
- 1 oz veggie meat

Pistachios and Quinoa

(honorary legumes)





3 Daily Servings of Legumes

- ½ cup cooked beans, tofu, tempeh
- ¹/₄ cup soy nuts, peanuts
- 2 tbsp peanut butter
- 1 cup soymilk
- 1 oz veggie meat
- ¼ cup pistachios
- 1 cup quinoa

A Serving of Legumes

- > PB& J sandwich
- Scrambled tofu
- > Veggie burger
- > Barbecued tempeh
- > Hummus wrap
- Lentil soup
- > Quinoa pilaf

- > Trail mix with pistachios
- > Vegetables with peanut sauce
- Salad with soynuts
- > Bean burrito
- Taco with veggie "ground beef"

2. Choose Healthy Fats



Essential Omega-3 Fatty Acid Alpha-linolenic acid (ALA)

- Ground flaxseed (1 tbsp)
- Flaxseed oil (1 tsp)
- Walnuts (4 halves)
- Walnut, hempseed, soy or canola oil (1 tbsp)
- Chia seeds (2 tsp)

DHA & EPA: Omega-3 Fats



Found in fatty fish

May lower risk for heart disease, dementia, depression

DHA & EPA can be synthesized from ALA

Conversion is poor

Vegans typically have low blood and tissue levels



Fish Get DHA and EPA from Algae....We Can, Too



Vegan Omega-3 Fats from Algae

200-300 mg DHA + EPA 2-3 times per week



Healthy Sources of Fats

- Nuts
- Seeds
- Avocado
- Olives
- Vegetable oils



Benefits of High-Fat Plant Foods

- Nuts and seeds provide zinc
- Nuts reduce risk for heart disease
- Nuts/monounsaturated fats helpful in controlling diabetes
- Replacing carbs with plant fats
 improves cholesterol profiles

Vegan Diet with Healthy Fats

Breakfast

Miso soup w/ ½ C tofu, 1 C vegetables ½ C brown rice 1 C honey dew melon

<u>Lunch</u>

Raw vegetable salad Vinaigrette (1 tsp oil) 1 ½ C lentil soup + tomatoes 2 slices whole grain bread Banana

<u>Dinner</u>

1 C quinoa

1 C black beans

1 ¹/₂ C greens in 2 tsp oil

<u>Snacks:</u>

1 C fruit topped w/ ¼ C walnuts Air popped popcorn

> Total calories: 1800 Saturated fat: <3% 0 grams cholesterol

3. Take the Right Supplements

- Vitamin D
- Vitamin B12



Sub-optimal vitamins D and B12



Poor concentration

Vague aches

Fatigue

Food sources of vitamin D

FishFortified foods



Factors that reduce vitamin D synthesis

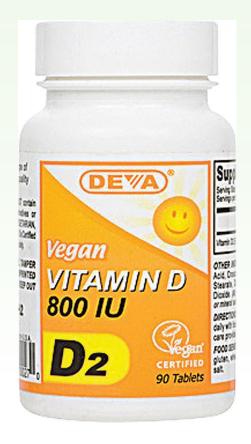
- Smog, clouds
- Sunscreen
- Darker skin
- Age
- Weak sunlight (northern latitudes in winter)



Two Forms of Vitamin D

- D3: Cholecalciferol is animalderived (fish, sheep's wool)
- D2: Ergocalciferol is plantderived (yeast)

600 IU per day



Vitamin B12

Made by bacteria

Does not occur naturally in plants



Vitamin B12 Analogues

Similar structure to B12, but no vitamin activity * Fermented soyfoods

- Sourdough bread
- * Sea vegetables
- Shiitake mushrooms

Can we get adequate B12 from unwashed organic produce?



Endogenous B12 Production



Recommendations for B12 Supplements (cyanocobalamin)

• 2 fortified foods per day; at least 1.5 micrograms each or

- 25-100 micrograms daily or
- 1,000 micrograms 2-3x per week

4. Eat a Rainbow



Iron Content of Selected Foods

Food	mg
Milk, 1 C	0.07
Salmon, 3 oz	0.6
Chicken, 1/2 breast	0.6
Beef, 3 oz	1.3
Soymilk, 1 C	1.6
Black-eyed peas, 1/2 C	2.2
Tofu, 3 oz	3.0
Lentils, 1/2 C cooked	3.3
Dark chocolate, 1 oz	3.9

Phytates, Iron and Vitamin C

Phytates bind iron in whole grains and legumes

Vitamin C breaks bond between phytate and iron if it's present at the same time as the iron

Iron and Vitamin C

IRON SOURCES

- Legumes
- Whole and enriched grains

VITAMIN C SOURCES

- Citrus fruits
- Strawberries
- Green leafy vegetables
- Peppers
- Cauliflower
- Cabbage

Iron + Vitamin C

- Oatmeal with orange juice
- Brown rice topped with steamed broccoli
- Stir-fried tofu with red peppers



Fruits and Vegetables for Vitamin A



Fruits and Vegetables for Calcium



5. Get Adequate Calcium

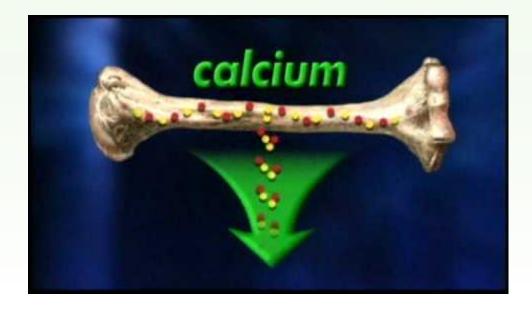


Excess protein

Calcium loss from bones

Poor bone health

Vegan diets are more moderate in protein...so do vegans need less calcium?



Protein protects bone health

- Improves calcium absorption
- Contributes to bone structure
- Promotes muscle strength

Adventist Health Study





More Protein-rich Foods = Better Bone Health

EPIC-Oxford 2007 Findings

Vegans were 30% more likely to fracture a bone than meateaters or lacto-ovo vegetarians



Calcium Intake in the EPIC-Oxford

	Intake (mg/d)	
Omnivores	1,057	
Lacto-ovo	1,087	
Vegan	610	

Public Health Nutrition: 6(3), 259-268

Calcium without cows



Wild greens supplied abundant calcium to early humans

Calcium-Rich Foods for Vegans

Collards, kale, turnip greens (not spinach or chard)

Fortified plant milks, tofu made with calcium sulfate, soybeans

Almonds, tahini, figs, naval oranges

6. Enjoy Vegan Foods



What vegans really eat

What people think vegans eat

Granola

Tofu Grass

cookies' kiwi lasagne* lettuce wraps mac'n' cheese* mandarin oranges artichokes asparagus avocados bacon' bagels bañanas beans beef mangos marshmallows* beets biscuits" mashed potatoes melons Mexican food* bread nachos' noodles brocceli brownies" Brussels sprouts buffalo wings* onion rings oranges paelta* pasta burnitos" cake" carrots peaches peanut butter Carrots peas colery cheese steak sandwickepeppers pies" cheesecake piase cherrise chill cheese fries polatoes chill chill cheese fries public chill cheese fries public chill cheese fries public chill cheese fries public

kale raspberries rice salsa samosas sandwiches seitan soul food soup soup soy milk spring rolls' stir-fry' strawberries sushi* sweet potato fries taboull tacos' tempeh Thai food" Tofurky tofu scramble tomatoes tortilla chips veggie tempura veggie wraps everything else*

coconut coconut curry coconut milk cookies* kiwi kawi lasagne" lettuce wraps mac'n' cheese' mandarin oranges mangos marshmallows* mashed potatoes melons Mexican food* nachos" noodles onion rings oranges paeila* pasta peaches peanut butter peas pipeppers pineapple pizza' potato skins' potatoes pumpkin



"vegan version













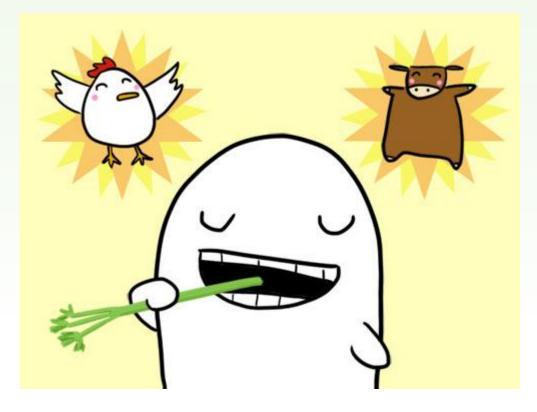








7. Celebrate Veganism



Findings from EPIC/Oxford

	Meat eaters	Vegan
Total fat intake	34%	30%
Saturated fat intake	12%	5%
Blood Cholesterol	191	158







Vegan = Compassion, Guaranteed



1. Eat Legumes

3 or more servings per day of beans, peanuts/peanut butter, soyfoods, quinoa, pistachios









2. Choose Healthy Fats



- Omega-3 fats from flaxseeds, walnuts, flax, walnut or canola oil, chia seeds
- DHA/EPA? 200-300 milligrams



 Moderate use of higher fat foods like nuts, seeds, avocado and vegetable oils



3. Take Appropriate Supplements

- 600 to 1,000 IUs of vitamin D (if sun exposure isn't adequate)
- 25-100 micrograms of vitamin B12



4. Eat a Rainbow

- Vitamin C
- Vitamin A
- Calcium



5. Choose Calcium-Rich Foods

Kale, collards, turnip greens Fortified plant milks and tofu Figs, almond butter, tahini, navel oranges





6. Enjoy Vegan Foods

Emphasize whole plant foods but no foods are off limits



7. Celebrate Veganism

Vegan diets always deliver on their promise of compassion

> Health benefits vary among individuals and are a wonderful bonus



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