Integrative Health Center Optimal Health Class Series

MEETING # 2 – PLANT BASED DIETS





What is a plant-based diet?

...Plant-based focus on whole foods primarily from plants.



... Processed food veggie diet



What is a plant-based diet?

Types of plant-based diets:

- Vegan
- Vegetarian
- Ovo-tarian
- Pescatarian
- Flexitarian/Nutritarian

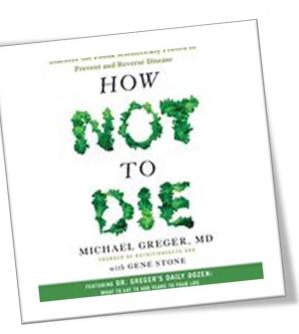




What is the Healthiest Diet?



https://nutritionfacts.org/video/what-is-the-healthiest-diet







Whole food Vegan diets...

1. Provide more fiber, antioxidants & beneficial plant compounds

2. Higher in many micronutrients: K, Mg, Vitamins A, C, E

3. Promote weight loss & maintenance

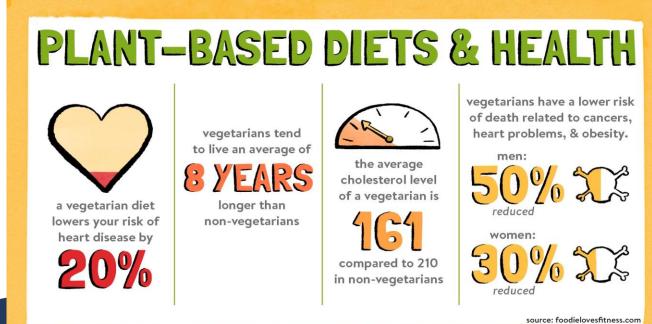


Why go Vegan?... Health!

Whole food Vegan diets...

- 4. Can lower blood sugar, insulin resistance & improve kidney function.
- 5. Protect against many cancers, lower the risk of renal disease &

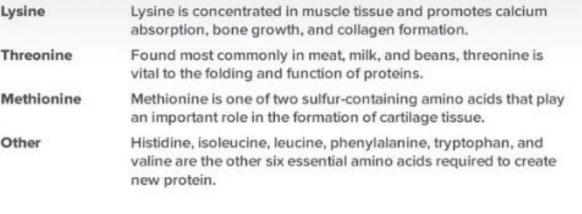
reduces inflammation.



Plant Based Proteins

...9 essential amino acids

- Most plant-based proteins are inadequate in at least one
- Eating a balanced plant-based diet can easily meet these needs
- Other new protein. Plant sources of complete protein: quinoa, buckwheat, soy, But how much protein do I need?? seitan, Ezekiel bread 0.8g/kg weight= 150# person needs 55g/day





FOOD	AMOUNT	PROTEIN (GM)	PROTEIN (GM/100 cal)	FOOD	AMOUNT	PROTEIN (GM)	PROTEIN (GM/100 cal)
Tempeh	1 cup	34	10.6	Soy milk,	1 cup	7-9	6.6
Soybeans cooked	1 cup	31	10.6	commercial plain			
Lentils, cooked	1 cup	18	7.8	Spaghetti, cooked	1 cup	7	3.7
Black, kidney & pinto beans &	1 cup	15	5.4-6.8	Almond butter	2 Tbsp	7	3.4
chickpeas cooked				Soy yogurt, plain	8 ounces	6	4.0
Tofu, regular	4 ounces	10	10.7	Bulgur, cooked	1 cup	6	3.7
				Sunflower seeds	1/4 cup	6	3.3
Quinoa, cooked	1 cup	8	3.7	Cashews	1/4 cup	5	2.9
Peanut butter	2 Tbsp	8	4.1	Spinach, cooked	1 cup	5	13.0
Almonds	1/4 cup	8	3.7	Broccoli, cooked	1 cup	4	6.7
Whole wheat bread	2 slices	8	5.4	Kale, raw	1 cup, chopped	2.9	8.7

Plant Based Fats

Best fat choices...

- Omega 3 sources: Walnut, flax, pumpkin, & chia seeds, winter squash
- Omega 6 sources: Avocado, olive oil, peanut butter, & tofu

Fats to limit/ avoid...

Saturated & highly processed fats: Corn/vegetable oil, palm oil, margarine er, Vite а

A note on soy....

- Health benefits
 - Reduces risk of heart disease
 - May help with blood sugar, blood pressure, and inflammation
- Health issues
 - Food allergy to soy is common
 - Rarely a woman will be sensitive to the natural plant estrogens in soy
 - Non-organic soy contain pesticide residues (glycophosphates)





Poll!: Who has had chia pudding?

3-Ingredient Chia Pudding

This 3-Ingredient Chia Pudding is made with almond milk, chia seeds & sweetener of choice; it's a healthy snack loaded with protein, fiber and healthy fats!

🗞 Course	Snack
Solution Cuisine	American
🐓 Prep Time	5 minutes
Stotal Time	5 minutes
Servings	1 serving
 Calories 	155kcal
n Author	<u>Yumna Jawad</u>

Ingredients

- 2 tablespoon chia seeds
- · 1/2 cup almond milk or milk of choice
- 1 teaspoon honey or other sweetener, optional
- · Strawberries or other fruits for topping

Instructions

 Pour ingredients into a jar and mix well. Let settle for 2-3 minutes then mix again very well until you see no clumping.



4.96 from 485 votes

Nutrition Calories: 155kcal | Carbs: 16g |Protein: 4g Fat: 8g | K: 97mg | Fiber: 8g | Sugar: 5g | Calcium: 301mg | Iron: 1.9mg

~4g Omega-3 !!

C. Yes, a balanced, whole foods vegan diet easily offers adequate protein









Micronutrient: Vitamin B12

Functions: RBC production, DNA synthesis, nervous system protection

- Supplementation (important!):
- ✓ 50 mcg daily or 2,000mcg weekly
- ✓ Over 65/ breastfeeding : 1,000mcg daily (nutritionfacts.org)

- Mostly only consumed by animal sources
- Plant food sources: some nutritional yeast, fortified foods (milk, drinks, cereal), tempeh



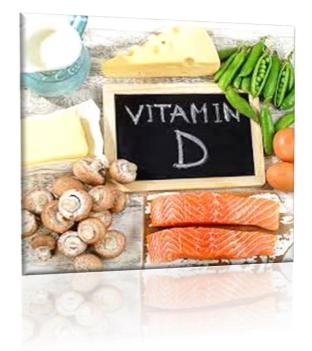




Micronutrient: Vitamin D

Functions: Ca & phosphorus absorption for bones/teeth, function of immune system, protection from diabetes & cancer

- Fat Soluble vitamin
- Deficiencies: osteoporosis, fractures, increased risk for CAD & cancers



 Plant food sources: shiitake mushrooms, almond milk, fortified juices & cereals





Micronutrient: Calcium



- Can be bound by oxalates (Spinach)
- Deficiencies cause osteoporosis, muscle problems





 Plant food sources: tofu, leafy green vegetables, most beans



Calcium Absorption & Oxalates

Found in foods as...

- Bound oxalates (Ca oxalate)
- Free oxalates
- Effect of cooking
 - Decreases oxalate content
 - Effect on calcium not clear

High oxalate foods

- Spinach
 - 4X > oxalates than calcium
 - Only 5% calcium absorbable
- Beet/ greens, rhubarb, Swiss chard, endive, cocoa powder, sweet potatoes





Micronutrient: Iron





- Functions: a part of hemoglobin (transferring O2 in blood), energy metabolism, muscle function.
- Adding vitamin C to iron foods can improve bioavailability
- Deficiency: anemia & its symptoms, restless legs, & hair loss

- Plant food sources: most beans & nuts, dried fruit, fortified cereal
 - Cast-iron skillet & molasses







Micronutrient: Zinc

Functions: cell growth, immune system function/ wound healing, sexual maturation, night vision, co-enzyme

 Deficiencies: change in taste & smell, sexual maturation, growth retardation, increased infection



 Plant food sources: wholegrains, nuts, legumes, mushrooms, pumpkin, soybeans



In Summary...



Plant based diets can include vegan, vegetarian, and omnivore diets...*Eat food, not too much, and mostly plants.*



A plant-based diet has been proven to promote optimal health & prevent diseases



A vegan diet can meet all nutritional needs while increasing intake of fiber, EFAs, vitamins and minerals



Food is distinguished from "food like substances" which is most of what Americans eat.



Time for activities!

- 1. Grab any vegan item from your kitchen
- 2. Share your item with the group... discuss
 - Why you chose/ bought this item?
 - Does it contain all essential amino acids?
 - Do you think the item is missing any essential nutrients? (vitamins/ minerals, etc.)
 - Would you consider this item healthy?

3. Can we make a balanced meal/ snack using everyone's items?
4. Procentor to share findings with the group

4. Presenter to share findings with the group.