

RD Resources for Consumers:

Vegetarian Diets in Chronic Kidney Disease

Whether you are lacto-ovo vegetarian or vegan, your food choices can be adapted to a diet designed for kidney disease management.

Research shows that a plant-based diet may slow down some complications of chronic kidney disease such as heart disease, protein loss in urine and the progression of kidney damage.

Treatment for kidney disease includes a meal plan that will help lower the levels of protein, potassium, sodium, fluid and phosphorus in your body. Carefully following a meal plan that meets your individual needs will help keep nutrients in your blood at normal levels, lessen the amounts of fluids your body retains and prevent bone loss.

There is no one diet that is right for everyone with kidney disease. And, your individual meal plan will change over time. Your doctor and registered dietitian will determine the levels of protein, potassium, sodium fluid and phosphorus that your meal plan should provide. Your dietitian will explain your meal plan and provide food lists along with cooking and shopping information.

Nutrients of Special Concern

Protein

About two-thirds of protein in your meal plan should come from a variety of high quality protein sources. Below are the best sources of high quality plant proteins, including lactoovo choices. Choose a variety of three or more different protein choices each day. Soy protein has been shown to be beneficial with chronic kidney disease. Try to include at least one soy choice in your diet daily.

High Quality Protein Sources		
Lower Phosphorus	Higher Phosphorus	
Eggs	Cheese	
Cottage cheese*	Cooked, dried beans and peas	
leat analogues such as veggie burgers)*	Edamame Milk	
Seitan	Nut butters	
Unsalted natto (fermented soybeans)	Soy milk	
Tofu	Yogurt Unsalted nuts	

Source: Nutrition Care Manual

Phosphorus

Phosphorus often needs to be limited, even if blood phosphorus levels are normal. Some vegetarian options such as milk, cheese, yogurt, dried cooked beans and nuts are high in phosphorus. These foods should not exceed recommended amounts. Since phosphate additives found in dark carbonated beverages and commercial iced teas are highly absorbed, other beverage choices are recommended on a low phosphorus diet.

Potassium

Your doctor or dietitian will let you know if you need to avoid fruits and vegetables that are high in potassium. Listed below are some examples.

Examples of high potassium vegetables	Examples of high potassium fruits
Avocado	Apricots
Beets	Banana
Brussels sprouts	Honeydew melon
Greens (collard, beet, chard, etc.)	Nectarines
Potatoes	Orange
Pumpkin	Orange Juice
Spinach	Prune Juice
Sweet potatoes	
Tomatoes	
Tomato and vegetable juice	
Winter Squash	

Source: Nutrition Care Manual

Sodium

All foods contain sodium however, processed and canned foods have higher amounts. If you rely on processed vegetarian food, you may be consuming too much sodium.

Examples of High Sodium Foods

Convenience foods:

Canned or dried soups

Canned vegetables with

Frozen meals

Canned beans

Vegetable miso

Processed cheese

Salted snack foods

salt added

Veggie burgers Tofu hot dogs Frozen meal entrée

Condiments:

Soy and teriyaki sauces Salt, including sea salt Garlic, onion and seasoned salts

Meat analogues, examples:

Fluid

Fluid usually does not need to be restricted unless you are in end stage kidney disease. Fluid is defined as anything liquid at room temperature, such as water, tea, coffee, soda, gelatin, ice cream and sherbet. Follow your doctor's or dietitian's instructions regarding fluid intake.



Vitamins and Minerals

Discuss vitamin and mineral supplements with your doctor and dietitian. A vitamin, and possibly mineral, supplement may be beneficial when following a diet modified in potassium, phosphorus and protein.

An over the counter multivitamin may be adequate for your needs. Also, be sure to let your doctor and dietitian know about any dietary supplements or herbal products that you are taking.



More information

Consult with a Registered Dietitian (RD) for a personalized meal plan and nutrition guidance.



Visit **www.eatright.org** and click on **Find a Registered Dietitian** to find an RD in your area.

Resources

American Dietetic Association. Nutrition Care Manual[®]. http://nutritioncaremanual.org. Accessed February 10, 2010.

Avery-Grant, A. Eating Meatless on Dialysis: A Guide for the Adult Hemodialysis Patient, 1999

Hogan Brookhyser, Joan. Vegetarian Diet for Kidney Disease Treatment, 2009

Vegetarian Nutrition

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