## Renal Diet: Be Friendly To Your Kidneys

Our kidneys keep our body fluid levels normal. When kidneys no longer work well, your diet can be changed to help keep these levels normal. Your diet order is:

#### Five Nutrients of Concern:



Protein

Sodium

Phosphorus

Potassium

Fluid



## Serving Sizes

1/4 cup = Golf Ball

1/2 cup = tennis ball



1 cup = 1 fist

1 Small Fruit = Baseball





1 Pancake = Compact Disk

1 Potato = computer mouse



## Protein

Protein is important to help build and maintain muscle mass and build the immune system. Too much protein can cause nausea, vomiting, and more damage to the kidneys. Usually, protein is limited with renal failure. However, protein is added back when hemodialysis is started. You may have \_\_\_\_ grams of protein per day.

Vegetables, grains, meats, fish, poultry, and legumes (beans/peas) have protein. The majority of the protein we eat should come from meats, fish, poultry and legumes. Use the list below to plan meals.

1oz cooked meat, fish, poultry = 7 grams



1 large egg = 7 grams

½ cup cooked dried beans, peas, lentils = 8 grams

1/2 cup tofu = 7 grams

2 Tbsp peanut butter = 7 grams



1 cup milk, soy milk, or yogurt = 8 grams

½ cup pudding or custard = 4 grams

1 slice or 1 inch cube cheese = 7 grams

1/4 cup cottage or ricotta cheese = 7 grams

2 Tbsp Parmesan cheese = 7 grams

#### Sodium

Sodium makes us thirsty and want to drink more. As we drink more fluids, our blood pressure rises and we retain fluid. Avoiding foods high in salt and sodium can help control fluid. You may eat 2000 milligrams (mg) of sodium a day. Table Salt: Contains sodium and chloride; 1 tsp salt = 2 grams sodium. Salt Substitute: Do not contain sodium; Usually made from potassium; Consult your doctor.



#### Foods to Avoid

- Canned Vegetables and Soups
- Packaged Seasonings and Meal Starters
- Ham, Bacon, Sausage
- Chips, Pretzels, Nuts
- Pickled Meats and Vegetables
- Butter, Garlic Salt, Season Salt
- BBQ, Soy Sauce, Ketchup, Mustard
- Processed Cheeses and Cheese Foods

## Tips to Lowering Sodium in Your Diet

- Leave salt shaker in cabinet (out of site-out of mind).
- Season with herbs and spices: Garlic, Onion, Sage, Rosemary, Thyme, Lemon Juice, Fruit
- Read medication labels and consult doctor
  - Beware of Medications that contain sodium such as antacids and laxatives
- Dining out: Request meals not to be made using salt or MSG (Monosodium Glutamate)
- Choose fresh or frozen Vegetables
- Read food labels:
  - Choose foods with less than 200 mg of sodium per serving
  - Avoid foods with salt or sodium listed as one of the first 4 ingredients

## Phosphorus

Phosphorus comes in most foods. Excess amounts of phosphorus can cause calcium to come out of bones, making bones brittle. Your doctor may prescribe a phosphorus-binding medicine that will reduce the amount of phosphorus in your body.

Most people with kidney failure should eat **no more than <u>800-900 mg</u>** of phosphorus each day. It is recommended that you limit or avoid the following foods:

Baking Powder

Beer

Bran cereals

Breads raised with Baking Powder

Caramels

Cheese (except cottage cheese)

Chocolate

Dark cola beverages

Dried beans

Dried peas

Milk

Nuts

Peanuts and peanut butter

Whole wheat bread



#### Potassium

Potassium helps muscles (including the heart muscle) to contract and relax. Too much potassium can cause your heart to beat irregularly or even stop. You may eat 2000 mg of potassium each day. The following list will help you with lower potassium options. Choose foods from the Medium and Low Potassium Groups.

#### LOW POTASSIUM FOODS (< 150 mg per serving)

Apples **Applesauce** Bean sprouts Bell pepper Black/green olives Blueberries. Brewed tea

Cottage cheese Cranberry juice Diced turnips Frozen peas Grapes Green beans

Instant coffee

Lemonade Onion Parmesan cheese Pear/papaya nectar Pineapple Radishes

Raspberries

Raw cucumber Sliced cheddar/swiss Sour cream Strawberries Summer squash

Tangerine

## MEDIUM POTASSIUM FOODS (150-300 mg per serving)

Apple Juice Asparagus Beets Brewed coffee Broccoli Carrots Cauliflower

Celery Corn Dates (4) Eggplant Grape juice Grapefruit (1/2) Grapefruit juice

Hot cocoa Ice cream (1/2 cup) Kiwi Milk (1/2 cup) Mushrooms Okra Peaches

Pears Pineapple juice Plums Raw cabbage Ricotta cheese Turnip/mustard greens Zucchini squash

## HIGH POTASSIUM FOODS (>300 mg per serving)

Apricots Avocado Banana Bran cereal Buttermilk Chard Dried beans/peas

Figs

Honeydew melon Milk (1 cup) Molasses Nectarine Orange juice Oranges Papaya Potatoes

Prune Juice Prunes Pumpkins Raisins Salt substitutes Spinach Sunflower seeds Sweet potatoes

Tofu Tomato juice Tomato sauce Tomatoes Vegetable juice Watermelon Winter squash Yogurt

#### DIALYZING VEGETABLES

Some vegetables can be prepared a certain way to reduce sodium and potassium levels. This is called Dialyzing Vegetables. Follow these directions exactly. Be sure your doctors know you are using these methods.

<ol> <li>Use fresh potatoes, carrots, beets, rutabagas</li> </ol>	Rinse under warm water
2. Peel and eye, place in cold water	<ol><li>Cook for 5 minutes in 5 times the amount of water to the vegetables</li></ol>
3. Slice 1/8 inch thick slices	7. Serve only 1 portion
<ol> <li>Soak in warm water for 2 hours. Use 10 times amount water than vegetables</li> </ol>	8. You may freeze

# Fluid Monitoring

Fluid restrictions are off doctor's orders, you can				ccording to you	r	
Fluid Formulas 1500 mL = 50 ounces = 6 1000 mL = 33 ounces = 4 300 mL = 10 ounces = 1 240 mL = 8 ounces = 1 120 mL = 4 ounces = 1	1/4 cups cups 1/4 cup cup		anything that is liqu	uid at room tem	perature	
		Juice	* Ice Cubes	* Water	* Milk	
		Gelatin	* Liquid Meds	* Pudding	* Soups	
		Ice Cream	* Popsicles	* Beverages		
This table shows how to save enough flo	o break up your flu		es throughout the		er er	
Total Daily Fluid	Breakfast	Lunch Dinner		Other		
Another way to keep tr prescribed by your doo	ack to fluid intake tor.		with water to the	amount of fluid		
<ol> <li>Measure each item you eat or drink that counts as liquid</li> <li>For each item, remove the same amount of water from the jar</li> <li>Once the jar is empty, you are finished with your fluid for the day</li> </ol>						
Once the jar is	empty, you are iii	isned with y	our fluid for the da		_	
	Contact	for Questio	ns			
Your Renal Doctor:		Your Dia	ysis Clinic:			
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