# KIDNEY PAJIEN EDUCATORS PROVIDE EDUCATION FOR YOU

### THE MAJOR PARTS OF THE RENAL DIET

The most important foods to control are those containing protein, potassium, sodium, phosphorus and fluid. Your dietitian will help you set up a meal plan which will contain the right amount of these nutrients for you, depending on body size, type of dialysis and medical condition.

### Protein

Protein is needed by the body to keep your body tissue healthy and replace old damaged tissue. Each day protein must be included in the diet for you to stay healthy. As your body breaks down protein foods, waste products are formed. Too much protein can lead to an excess of these substances in the blood. This may cause tiredness, nausea, headaches, and a bad taste in your mouth; however, if you have too little protein you may lose muscle and weight, lack energy, and have difficulty fighting infections. There are two kinds of protein found in foods.

# ❖ High Quality Protein or animal protein These come from milk, meat, fish, poultry and eggs and contain all the needed ingredients for tissue growth.

### ❖ Low Quality Protein or plant protein

These come from vegetables, breads, and cereals and are lacking in some of the ingredients tissues need to grow. You need both kinds of proteins. Your dietitian will figure out your dietary prescription to include a mix of the proteins.

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Phosphorus

Phosphorus is a mineral which combines with calcium in the body to keep your bones strong and healthy. When the kidneys start to fail, the body is unable to use calcium very well, or remove phosphorus from the blood. The body tries to correct for this by taking calcium from the bones. This can make your bones weak and brittle. It is important to avoid certain foods high in phosphorus. Your doctor may also prescribe a medicine called a phosphate binder. These medicines will bind with the phosphorus in your intestine, and will pass in your stool.

#### References:

National Kidney Foundation, Phosphorus and Renal Diet, Publication No. 04-11NN, Nutrition Series, 1993 National Kidney Foundation, Sodium and Renal Diet, Publication No. 04-14NN, Nutrition Series, 1994 National Kidney Foundation, Potassium and Renal Diet, Publication No. 04-10NN, Nutrition Series, 1998 National Kidney Foundation, Making Lives Better, Los Angeles, CA

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## KIDNEY PATIENT EDUCATORS

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### **POTASSIUM TIPS**

	VEGETABLES	FRUITS	OTHER
Low (5-150 mg)	Alfalfa sprouts, ½ cup Bean sprouts, ½ cup Cabbage, ½ cup Cauliflower, ½ cup Celery, 1 stalk, 7-1/2" Cucumber, ½ cup Eggplant, ½ cup Green beans, ½ cup Wax beans, ½ cup Lettuce, 1 cup Onions, ½ cup Peas, ½ cup Radishes, ½ cup Sweet peppers	Apple, 1 small Applesauce, ½ cup Blackberries, ½ cup Blueberries, 1 cup Cranberries, ½ cup Cherries, ½ cup Fruit cocktail, ½ cup Grapes, ½ cup Lemon, 1 Lime, 1 Passion fruit, 1 Peaches, can or frozen, ½ cup Pineapple, fresh or can, ½ cup Plums, 1 fresh Raspberries, ½ cup Tangerine, 1 small	Juices ½ cup: Cranberry Cran-mixes Lemonade Peach nectar Pear nectar  Bagel, 1 plain Bread, 2 white Oatmeal, ¾ cup Pasta, 1 cup plain Rice, 1 cup white Cream cheese, 1 ounce Cheese, 1 ounce Pudding pops, 1 Non-dairy creamer, ½ cup Non-dairy whipped topping, 1-2 tablespoons
Medium (150-250 mg)	Asparagus, 6 spears Beets, ½ cup Broccoli, ½ cup Brussel sprouts, ½ cup Carrots, ½ cup Corn, can/frozen, ½ cup Mustard greens, ½ cup cooked Turnip greens, ½ cup cooked Mushrooms, ½ cup Okra, ½ cup Turnips, ½ cup Zucchini, ½ cup Summer squash, ½ cup Corn, 1/2 cup fresh	Apricots, 2 canned Grapefruit, ½ small Mandarin oranges Peach, fresh 1 medium Pear, fresh/can 1 medium Strawberries, ½ cup Watermelon, 1 cup	Juices ½ cup: Apple Apricot nectar Grape Pineapple  Pumpernickel bread, 1 Chickpeas, ½ cup cooked Tortillas, 4 small corn Brown sugar Molasses Catsup Chili sauce Barbecue sauce Steak sauce Cottage cheese, ½ cup Custard, ½ cup lce cream, ½ cup Pudding, ½ cup

### ❖ Foods and Beverages High in Potassium Fruits and juices:

**Apricots** 

Casaba melons

Mangos Oranges

Prune juice

Watermelon

Avocados

Dried fruit

Tangerines Orange juice

Pumpkin

Grapefruit

Honeydew melons

Tomato juice Persimmons

Rhubarb

Vegetables:

Artichokes

Spinach Lentils

Raw celery Tomatoes

Collard greens

Mustard greens

Beet greens

Squash

Split peas

Water chestnuts

Potatoes

Bamboo shoots

Broccoli Raw carrots

Swiss chard Zucchini

Tomato (sauce &

paste)

Brussel sprouts

Black-eyed peas

Sweet potatoes/yams

Beans (white, kidney, black, lima, soy, garbanzo, etc.)

Other:

Bran

Bran cereals

Molasses Salt substitutes (potassium chloride) Unsweetened baking chocolate

Coconut

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### Foods High in Phosphorus

Vegetables and Fruits:

Artichokes

Avocados

Brussel sprouts

Lima beans

Lentils Broccoli

Split peas

Vegetables in cream

or cheese sauce

Asparagus

Mushrooms Peas

Dried beans (kidney,

Pinto, navy, etc.)

Dairy:

Milk Cream Yogurt

Ice cream

Pudding

Cheese

Breads, cereals, and starches:

Whole wheat bread

Bran cereals

Oatmeal

Pumpernickel bread Ready to eat wheat

and oat cereals

Miscellaneous:

Cream soups

Corn bread

Nuts

Bean, pea, split pea soups

Cola beverages

Chocolate

National Kidney Foundation, Sodium and Renal Diet, Publication No. 04-14NN, Nutrition Series, 1994 National Kidney Foundation, Potassium and Renal Diet, Publication No. 04-10NN, Nutrition Series, 1998 National Kidney Foundation, Phosphorus and Renal Diet, Publication No. 04-11NN, Nutrition Series, 1993 National Kidney Foundation, Making Lives Better, Los Angeles, CA

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### KIDNEY PATIEN EDUCATORS

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### **KIDNEYS**

### ❖ Kidneys

- Most people are born with two kidneys
- They are about the size of your fist
- Located on either side of the backbone, just above the small of the backbone, just above the small of the back

### Kidneys Functions

- Remove extra fluid
- Remove waste products
- Control blood pressure
- Control red blood cells

### Causes of Kidney Damage

- Diabetes
- High blood pressure
- Glomerulonephritis
- Inherited diseases
- Chronic infection
- Drug abuse

### Symptoms of Kidney Damage

Some people experience:

- Feeling tired or weak
- Swelling
- Shortness of breath
- Loss of appetite
- Bad taste in mouth
- Anemia
- Itching
- Nausea
- Feeling cold

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### FLUID/FLUID CONTROL

- ❖ Kidneys help control the amount of fluid that leaves your body. If you have problems with your kidneys, this balance becomes harder for your kidneys to maintain. You may need to limit the amount of fluids that you take in each day in order to prevent too much fluid building up in your body.
- ❖ Your doctor may tell you that you need to limit your fluid intake. Remember, fluids are considered to be anything that is liquid or anything that melts into a liquid. Examples are:
  - Ice cream, sherbert, sorbet
  - Soup
  - Ice cubes
  - Popsicles
  - Gelatin
  - All juices, soda, coffee, tea, milk
  - Water used to take medicines
- Measuring your fluids before you drink them will help you keep an accurate record of your fluid intake. You are allowed \_\_\_\_\_ amount of fluid each day.



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### **SODIUM TIPS**



FOOD GROUPS	AVOID	CHOOSE
Dairy	Buttermilk, cottage cheese,	2% or skim milk, lowfat
<u> </u>	regular cheese	yogurt, low sodium cheeses
Meats	Processed meats (bacon,	Fresh, lean beef, chicken,
	sausage, spam, hotdogs,	turkey, pork or fish
	lunch meats, pepperoni)	Frozen lean beef, chicken,
	Breaded or fried meats	turkey, pork or fish (not
ottors—Zedili.	(chicken, fish, pork, or beef)	breaded)
•	Canned meats in oil (tuna,	Low sodium water packed
	sardines, salmon)	tuna
Starches	Salted crackers or bread	Fresh breads, most
	Pretzels and chips	commercial breads
g <sub>e</sub> g).	Instant mashed potatoes	Unsalted chips, crackers,
	Mixes (muffins, pancake,	pretzels
	potatoes, noodles, bread)	Read labels for dry cereals
	Some dry cereals	
Vegetables	Canned vegetables	All plain fresh and frozen
_	Pickled (pickles, olives,	vegetables
ai 🚳 🛚	sauerkraut)	Low sodium canned
	Frozen vegetables with	vegetables
	cheese or cream sauces	Low sodium tomato sauces
Fruits	None	All
Condiments	Salt substitute, catsup,	Only use small amounts of
	mustard, salad dressings, soy	condiments
	sauce, teriyaki sauce,	Ask for condiments on the
	worcestershire sauce, hot	side when eating out
·	sauce, tobasco and relish	
Other	Fast foods (2-3 times more	Request for no salt on food
	salt than the same foods	when eating out
P. C.	made at home)	Low sodium frozen dinners
	Most canned soups and	and soup
	frozen dinners	Low sodium cheeses on
	Most Chinese, Mexican and	casseroles and pizza
	Pizza restaurants	

References:

National Kidney Foundation, Sodium and Renal Diet, Publication No. 04-14NN, Nutrition Series, 1994

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### KIDNEY PAJIEN EDUCATORS

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### **PHOSPHORUS FOODS**

Foods with <u>high</u> phosphorus content that you may need to <u>limit</u>:







Dairy	Starches	Beans and Lentils
Cheese Milk Ice Cream Yogurt Cream soups Custard and pudding	Whole wheat bread Oatmeal Biscuits Corn bread Pancakes, mix or frozen	Garbanzo Pinto Refried Kidney Lima
Fruits and Vegetables	Miscellaneous	Beverages
Corn Peas Mushrooms Dried fruit	Chocolate Caramel	Beer Milk











### Meat, Poultry and Eggs

portions are 3 ounces fresh and coaked unless otherwise stated



#### To 21.0 grams

Beef, ground, lean, 21 0
Beef, ground, reputar, 20 5
Dock, domestic roasted, 20.5
Egg Substitut, 11.0
Egg white, 1 large, 3.5
Egg whole, 1 large, 5 3
Egg Yolk, 1 large, 2.8
Veal, rib, 20.4

#### HIGHER PROTEIN From 21.1 to 25.1 grams

Profit 21,1 to 25.1 grams
Beet, ground, extra lean, 21.6
Beet, nb. lean, 23.2
Beef round, eye, lean, 24.6
Chicken, dark meat, 24.4
Lamb, leg, domestic, lean, cooked, 24.1
Lamb, nb, domestic, lean, cooked, 22.2
Pork leg, fresh, lean, 25.0
Pork roast, fresh, lean, roasted, 24.4
Pork, spareribs, fresh, braised, 24.7
Turkey, dark, 24.0

### HIGHEST PROTEIN

### Seafood

portions are 3 ounces fresh and cooked unless otherwise stated



#### To 17.0 grams

Clams, must species, raw, 16.9 Grab, Alaska King, cooked, 16.5 Cyster, cooked, 7.5 Oyster, raw, 5 medium, 5.9 Scallop, cooked, 8 large, 16.8 Shrimp, 5 large, 9.6

#### From 17.1 to 21 grams

Cod. cooked, 19.5 Crab. blue, cooked, 17.2 Flounder, cooked, 20.5 Haddicck, cooked, 20.5 Lobster, cuoked, 17.4 Cosan Parch, cooked, 20.3 Foliock, cooked, 20.9 Sala, cooked, 20.5

### 21.1 or more grades Hallout cooked, 22.7

21.1 Or more grams
halbut, cooked, 22.2
Samior, 23.2
Secretish, cooked, 21.8
Ture saled, (orp. 32.9
Ture, light canner in oit, 21.5
Ture, relicenth (pocked, 25.5)



portions as stated



#### To 7.9 grams

To 7.9 grams
Buttermik 1/2 cup. 4.1
Cheese, blue, 1 oz. 6.6
Cheese, cheadar, 1 oz. 7.0
Cheese, cheadar, 1 oz. 7.0
Cheese, cream, 1 flush 1.1
Cheese, cream, 1 flush 1.1
Cheese, cream, 1 flush 1.2
Cheese, cream, 1 oz. 7.3
Cheese, parmasan, grafied, 1 flush 2.1
Cheese, parmasan, grafied, 1 flush 2.1
Cheese, providine, 1 oz. 7.3
Ide-cream, vanilla, 1/2 cup. 2.3
ice-cream, vanilla, 1/2 cup. 2.5
Sherbert, erange, 1 cup. 1.6
Vogurt, frozen vanilla, 1/2 cup. 2.9
Vogurt, frozen vanilla, 1/2 cup. 2.9
Vogurt, plain, whole, 1 cup. 7.9

#### From 8 to 12 grams

Cheese, swiss, 1 oz 8.1 Milk, 1%, 1 cup, 8.0 Milk, 2%, 1 cup, 8.1 Milk, 2%, 1 cup, 8.1 Milk, evap crated, nonfat, 1.2 cup 9 F Milk, Milk, 1 cup, 8.4 Milk, whole, 1 cup, 8.0 Yogurt, plain, low fat, 1 cup, 11.3

#### 12.1 or more grams

12.1 or more grams
Cheese, cottage, creamed, 1 cup. 26.0
Cheese, cottage, low fat (2% mikhat).
1 cup. 31.0
Cheese, cottage, non-fat, 1 cup. 25.0
Cheese, citotta, part skim mikh 1 cup. 28.0
Cheese, ricutta, whole mikh 1 cup. 27.7
Mikk, condensed, sweetened, 1/2 cup. 12.1
Mikk, dry, nontat instant, 1/2 cup. 12.2
Yogurt, plain, skim, 1 cup. 13.0

### Legumes and Nuts



#### To 7.9 grams

Beans, black, bolled, 7.6
Beans, black, bolled, 7.6
Beans, lima, 7.3
Beans, lima, 7.3
Beans, navy, bolled, 7.9
Beans, navy, bolled, 7.9
Beans, retnett, 6.9
Chickpeas, bolled, 7.3
Choopeas, conked from raw drawed, 2.4
Per

#### From 8 to 12 grams

From 8 to 12 gradis

Beans, white, 95
Cashews, oil roasted, 2 oz, 8.7
Cashews, oil roasted, 2 oz, 8.7
Cashews, oil roasted, 2 oz, 9.5
Chestwits, Exiopean, 2 oz, 9.5
Peanut Butter, 2 Tosp. 8.0
Peans spin, 8.2
Soy hamburger path, 2.3 oz, 12.0
Tofp, säken, raw, 4 oz, 9.5
Tofp, säken, 2 oz, 3.8

#### 12.1 or more grams

12.1 or more grams
Almonds 2 st. 12.1
Beans, squ. scoked, 14.3
Lensils, cocked, 17.9
Pranuts, dry roasted, 2 oz. 13.4
Peanuts, or roasted, 2 oz. 14.9
Pian nuts, drived, 2 oz. 13.5
Pistobios, dry roasted, 2 oz. 12.1
Sey chicken patry, 2.5 oz. 13.0
Totu firm raw, 4 oz. 13.0

### Grains and Cereals

portions are 1 cup or 1 slice unless otherwise stated





#### To 2.9 grams

40 2.5 grams
Bread, Irenot. 1/21 size 3.2
Bread, Injum. 1.8
Bread, oatmeal, 2.3
Bread, wheat, 2.7
Cereal, crispy rice. 2.1
Cereal corn flakes, 1.3
Cereal corn squares, 2.2
Cereal, rice squares, 2.2
Cereal, rice squares, 1.9
Doughaut, plain, 2.4
Rolls, dinner (british and parva), 1.50.1.2.4

### From 3 to 6 grams

Profit 3 to bigrams
Sincuta, plan, 2 1/21, 4.2
Essat, pra, white, 6 1/291 pita, 5.5
Cateal, cream of wheat, regular, 3.8
Croissants, buffer, 1 croissant 4.2
Croissants, seasoned, 4.3
English Murtin, 1 whole, 4.4
Murtin, blieberry, premade, 1 million, 3.1
Catrieal plain instant 1 packet, 4.4
Rice, brown, socked, 5.0
Rice, white, cooked, 4.3
Rolls, bot dog or hamburger, 1 sink 3.7
Rolls, kaiser, 1 roll, 5.6

#### 6.1 or more grams

Bagel egg, 3 (2" 7.5 Bread crumps seasoned, 17.0 Bread stuffing, from mix, 6.4 Couscous, dry, 22.1 Macaroni, cooked, 6.7 Noodles, egg, booked, 7.6 Rice, with, cooked, 6.5 Snaphetts, cooked, 6.7 Wheat frour, white 12.9 Wheat flour, white 12.9 Wheat flour, white 12.9

#### Foods high in phosphorus. Foods high in polassium

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