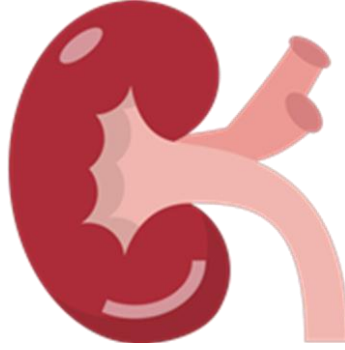




تجمع الرياض الصحي الثاني
Riyadh Second Health Cluster
شركة الصحة القابضة



Renal Diet Plan
(.....) Calories

Renal Function in the Human Body

The renal perform many vital functions, including:

Purifying the body from impurities resulting from the digestion of food.

Maintaining the balance of fluids and salts in the body.

Producing hormones that help in producing red blood cells, promoting bone health, and regulating blood pressure.

Why should we follow a diet?

When the kidneys are unable to perform their functions, they do not filter impurities from the blood properly, such may negatively affect the body, leading to:

- Fluid retention (edema) in the body.
- High levels of urea in the blood.
- An imbalance of body salts: sodium, potassium, phosphorus and calcium.

Sodium

A mineral found in most of the foods we eat, such as table salt, canned foods, sauces and fast food.

However, normal levels of sodium help balance body fluids.



Why should we pay attention to the amount of sodium?

Reducing sodium intake helps in:

- Preventing the body from retaining more fluids.
- Reducing the feeling of thirst.
- Controlling blood pressure.

Ways to Reduce Sodium in Food:

- Avoid adding salt when cooking.
- Use fresh meat instead of potted meat.
- Avoid processed and canned foods.
- Choose fresh fruits and vegetables or [salt-free](#) canned and frozen products.
- Use spices that do not contain “salt” (such as garlic instead of garlic salt).
- Limit total sodium content to [400 mg](#) per meal and [150 mg](#) per snack.
- Read the nutritional information label on canned products.

Daily Intake of Sodium.....mg

Some Foods and their Sodium Content

Type of Food	Quantity	Sodium/serving (mg)
Apple	1	0

Banana	1	1
Salt	A teaspoon (tsp)	2300
Frozen Vegetables	1 Cup	64
Canned Vegetables	1 Cup	243
Canned Tomato Sauce	1 Cup	1482
Salted Butter	A teaspoon (tsp)	116
Milk	1 Cup	122

Ghee	1 Tablespoon (Tbs)	134
Parmesan Cheese	¼ Cup	465
Cheddar Cheese	1 Cup	701
Orange Juice	1 Cup	2
Diet Coke	1 Can	75
Mustard	1 Tablespoon (Tbs)	129
Ketchup	1 Tablespoon (Tbs)	156

Unsalted Peanuts	1 Cup	22
Salted Peanuts	1 Cup	626
Oatmeal	1 Cup	2
Chicken Breast	90 gm	64
Canned Tuna	90 gm	468
Cooked Salmon	90 gm	55
Sausage	1	504

Potassium

A mineral found in most of the foods we eat, such as fruits and vegetables. Normal levels of potassium help regular heartbeat.

Why should we pay attention to the amount of potassium?

The inability of the kidneys to remove excess potassium leads to a buildup of potassium levels (Hyperkalemia) in the body, which may cause:

- Muscle weakness.
- Heart Rhythm Disorder (Arrhythmia).

Ways to Reduce Potassium in Foods:

- Limit the intake of foods that are high in potassium.
- Limit intake of milk and dairy product.
- Choose fresh fruits and vegetables low in potassium.

- Avoid spices that contain potassium.
- Read the nutritional information label on canned products and avoid potassium chloride.
- Peel the vegetables, cut them into cubes, then immerse them in a large amount of water for at least 4 hours (you may put them in the refrigerator overnight), then remove the water, wash the vegetables with new water, then cook them.

Daily Intake of Potassium.....mg

High Potassium Foods:

Type of Food	Quantity	Potassium/serving (mg)
Baked Potato	½ Cup	256
Fried Potato	½ Cup	209

Sweet Potato	½ Cup	210
White Canned Beans	½ Cup	211
Cooked Pumpkin	½ Cup	282
Broccoli	½ Cup	158
Spinach	½ Cup	159
Canned Tomato	½ Cup	160
Tomato	½ Cup	251-273
Tomato Juice	½ Cup	269
Carrot Juice	½ Cup	345
Avocado	½ Cup	549
Banana	1 Small piece	211-225

Raisins	1/3 Cup	363
Cantaloupe	½ Cup	364
Dried Peach	5 Pieces	797
Dried Figs	2 Pieces	258-266
Kiwi	1 Piece	252
Guava	1 Medium piece	253
Mango	1	254
Pomegranate	1 Medium piece	255
Apricot	1 Piece	256
Date	½ Piece	258

Moderate Potassium Foods:

Type of Food	Quantity	Potassium/ serving (mg)
Fresh Carrot	½ Cup	260
Cooked Carrot	½ Cup	261
Beetroot	½ Cup	259
Fresh Okra	½ Cup	264
Frozen Corn	½ Cup	265
Zucchini	½ Cup	173
Green leafy Vegetables	½ Cup	174
Fresh Celery	½ Cup	175
Frozen Cabbage	½ Cup	177

Green Turnip	½ Cup	146
Fresh Cauliflower	½ Cup	152-177
Fresh Orange	1 Piece	237
Plum	2 Pieces	208
Watermelon	1 Cup	186
Cherry	10 Pieces	187
Grapefruit	½ Piece	188
Pear	1 Piece	189
Pineapple Juice	1 Medium piece	190
Peach	½ Cup	191
Tangerine/Mandarin	1 Piece	192
Strawberry	1 Piece	193

Lemon Juice	½ Cup	194
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Low Potassium Foods:

Type of Food	Quantity	Potassium/ serving (mg)
Cucumber	½ Cup	84
Fresh Onion	½ Cup	85
Cooked Onion	½ Cup	86
Radish	4 Pieces	87
Green Beans	½ Cup	73-85
Cooked Cauliflower	½ Cup	88
Lettuce	½ Cup	89

Jew's Mallow (Molokhia Leaves)	½ Cup	45
Bell Pepper	½ Cup	113
Canned Peas	½ Cup	114
Fresh Peas	½ Cup	115
Fresh or Cooked Cabbage	½ Cup	72-86
Peeled Apple	½ Cup	62
Lemon	1 Piece	63
Fresh Pineapple	½ Cup	64
Canned Pineapple	2 Slices	65
Canned Pear	½ Cup	66

Grapes	10 Pieces	93-105
All types of Berries	½ Cup	65-94
Blue Berry Juice	½ Cup	31

Phosphorus

An essential mineral in the formation of bones and body organs and helps in muscle movement.

Why should we pay attention to the amount of phosphorus?

High levels of Phosphorus lead to:

- Pulling calcium from the bones, making them weak, thus leading to calcium deposits in the blood vessels, lungs, eyes, and heart.
- Itching on the whole body.

Ways to Reduce Phosphorus in Foods:

- Limit the intake of foods that are high in Phosphorus.
- Stick to the specified amount of protein, as Phosphorus is found in protein-rich foods.
- Eat fresh fruits and vegetables that are low in Phosphorus.
- Avoid packaged foods that contain added Phosphorus.
- Read the nutritional information label on canned foods and look for Phosphorus or for words that contain: **PHOS, PHOS.**

Daily Intake of Phosphorus.....mg

Some Foods and their Phosphorus Content

Type of Food	Quantity	Phosphorus/ serving (mg)
Meat	85 Grams	412

Chicken	145 Grams	286
Fish	½ Fillet	370-491
Tuna	1 Cup	365
Egg	1 Egg	100-115
Skimmed Milk	1 Cup	247
Full Fat Milk	1 Cup	205
Low Fat Milk	1 Cup	224-234
Skimmed Yogurt	1 Cup	356
Full Fat Yogurt	1 Cup	216
Low Fat Yogurt	1 Cup	327

Mozzarella and Cheddar Cheese	30 Grams	149
Chocolate Milk	40 Grams	108
Bran and Oat Cereals	1 Cup	690
Barley	1 Cup	442
Soybean	1 Cup	412
Lentils	1 Cup	356
Red and White Beans	1 Cup	233-262
Peas	1 Cup	117
Nuts	30 Grams	132-147

Protein

Protein is an essential nutrient in building many body tissues. It is found in a wide range of foods; but in varying amounts.

It is found in large amount in animal products such as: meat, chicken, fish, eggs, and dairy products, and some vegetarian products such as: legumes.

It is found in small amount in starches and vegetables.

Why should we pay attention to protein amounts?

When kidney function is affected, it loses its ability to remove protein waste that result from the process of

breaking down protein within the body, thus waste begins to accumulate in the blood.

The intake of protein varied from one person to another depending on weight and health condition, so consult a nutritionist to determine the amount of protein that is appropriate for you.

How do we calculate our protein intake from food?

Protein	30 grams of meat	Each alternative
Group	30 grams of chicken	contains
	30 grams of fish	7 grams of
	One egg	protein
Dairy	A cup of milk	Each alternative
Products	A cup of laban	contains
Group	A yogurt cup	8 grams of
		protein
Starches	A slice of toast	Each alternative
Group	A quarter loaf of	contains
	bread	

	One third cup of rice	2 grams of
	One third cup of	protein
	pasta	
	Half a cup of starchy	
	vegetables	
Vegetables	A cup of uncooked	Each alternative
Group	vegetables	contains
	Half a cup of cooked	2 grams of
	vegetables	protein

For Example:

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Fluids

The amount of fluids intake varied from one person to another, however, it should be determined by the treating physician.

Fluids include all drinks and foods that are liquid at room temperature, such as: water, tea, coffee, jelly, ice cream, ice, and soup.

Why should we pay attention to the amount of fluids intake?

If too much fluid accumulates in the body, it can have harmful effects such as:

- Swelling in the feet, ankles and wrist.

- Hypertension.
- Heart Rhythm Disorder (Arrhythmia).



Ways to Reduce Thirst:

Staying away from hot climates.

Reducing salt in food.

Eating allowed fruits cold.

Sucking on ice cubes.

Using mouthwash.

The Daily Intake of Fluids.....ml per day

Diet for Renal Patients (.....) Calories

Breakfast:

- Milk or laban full fat.
- white toast or white flat bread.
- grams low-fat, low-salt white cheese or cottage cheese.
-Fruit

Snack: •

Lunch:

- grams of chicken breast, meat or fish.
- cooked vegetables without fat.
- rice, pasta, or a flat white bread.
- olive oil.
-fruit

Snack: •

Dinner:

- grams of chicken breast, meat or fish.
- cooked vegetables without fat.
- rice, pasta, or a flat white bread.
- olive oil.

Snack: •

This diet contains approximately:

-Calories
- grams of protein
-grams of fat

Fruit Group

Medium apple

One tangerine/mandarin

Half a cup of pineapple

Half a cup of cranberries

Half a cup of strawberries

10-15 grapes

8-10 cherries

Half a cup of grape juice

Half a cup of apple juice

Vegetable Group

Half a cup of carrots

Half a cup of cauliflower

Half a cup of cucumber

Half a cup of eggplant

	Half a cup of garlic
	Half a cup of green beans
	A cup of all types of lettuce
	Half a cup of onions
	Half a cup of zucchini
	Half a cup of yellow squash
Dairy Products	Half a cup of full-fat milk
Group	Half a cup of full-fat laban
	Half a cup of full-fat yogurt
Protein Group	30 grams of meat without fat
	30grams of skinless chicken
	30grams of fish
	2 eggs whites

	30 grams of low-fat and low salt white cheese
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Starches Group

Half a cup of rice

Half a cup of pasta

One slice of toast

A quarter of flat bread

Half of a burger bun

Half a cup of mashed potatoes

Half a cup or 10 fingers of French
fries

Fat Group

A teaspoon of unsalted butter

A teaspoon of vegetable oil

A teaspoon of unsalted margarine

للأمن الواعي وقاية

إدارة التشخيص الصحي

Outpatient Clinical Nutrition
Department

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