## Nutrition

## Therapyfor

## Cardiovascular

 Disease
## Heart-Healthy Diet

A heart-healthy diet is recommended to reduce unhealthy cholesterol levels, manage high blood pressure, and lower your risk for disease-related complications. The heart-healthy diet is low in sodium (salt) and unhealthy fats, but rich in lean protein, low-fat dairy products, fruits, vegetables, whole grains, and nuts. Read below to learn about how you can modify your food choices to better reflect a heart-healthy diet!

## Sodium

Your body needs a little sodium, but too much sodium can cause your body to hold onto extra water. This extra water will raise your blood pressure and can cause damage to your heart, kidneys, or liver as they are forced to work harder. Sometimes you can see how the extra fluid affects you because your hands, legs, or belly swell. You may also hold water around your heart and lungs, which makes it hard to breathe. Even if you take medication for blood pressure or a water pill (diuretic) to remove fluid, it is still important to have less salt in your diet.

It is generally recommended to limit your sodium intake to less than 2,300 milligrams per day, which is equivalent to just $\mathbf{1}$ teaspoon of table salt!

Salt is hidden in many food items. Some foods that are high in sodium don't even taste salty! It's important to read food labels to find out how much sodium is in 1 serving of the foods you're eating.

Aim to select foods with 140 mg of sodium or less per serving. Avoid foods with more than $\mathbf{3 0 0} \mathbf{~ m g}$ of sodium per serving.

Make sure you are checking the serving sizes. If you eat more than 1 serving, you will be consuming more sodium than the amount listed.

Compare food labels of alike packaged food items while grocery shopping. Choose products with the least amount of sodium per serving.


## Tips for Limiting Sodium in Diet:

## Avoid processed foods.

(1) Choose fresh or frozen fruits and vegetables without added juices or sauces.
(1) Choose fresh meats. These foods are lower in sodium than processed meats, such as bacon, sausage, and hot dogs. Read the nutrition label to help you find fresh meat that is low in sodium.
(1) Cook foods from scratch instead of eating prepared foods, fast foods, frozen dinners, and canned foods.
(1) Rinse canned vegetables, beans, meats, and fish with water to remove extra sodium.

## Do not add salt while preparing and/or eating meals.

- Season foods with other herbs and spices such as basil, bay leaf, dill, rosemary, parsley, sage, dry mustard, nutmeg, thyme, paprika, black pepper, red pepper flakes, cayenne pepper, etc.
(3) Try adding lemon juice, lime juice, fruit juice, or vinegar.


## Be a smart shopper. Choose food packages that include the following claims

(1) Food packages that say "Salt-free", sodium-free", "very low sodium," and "low sodium" have less than 140 milligrams of sodium per serving.
(1) Beware of products identified as "Unsalted," "No Salt Added," "Reduced Sodium," or "Lower Sodium." These items may still be high in sodium. You should always check the nutrition label.

## Choose foods carefully when you eat outside your home.

(1) Many restaurants provide nutrition facts on their website or upon request.
(1) Request that your food be prepared without salt.
(1) Ask for your salad dressings and sauces to come on the side

|  | Foods that are HIGHER in sodium | Foods that are LOWER in sodium |
| :--- | :--- | :--- |
| FRUITS | Dried fruits preserved with sodium-con- <br> taining additives. | Fresh, canned, or dried fruits |
| VEGETABLES | Canned vegetables that are high in <br> sodium Frozen vegetables with <br> seasoning and sauces <br> Sauerkraut, pickles, and other pickled <br> vegetables such as kimchi | Fresh and frozen vegetables without <br> added sauces, salt, or sodium <br> Low-sodium or sodium-free canned <br> vegetables |
| French fries and onion rings that contain |  |  |
| sodium |  |  |$\quad$| Breads or crackers topped with salt |
| :--- |$\quad$| Breads with less than 80 mg sodium per |
| :--- |
| slice |



## PROTEIN FOODS



## CONDIMENTS

Salted butter or margarine
Olives

Salt, sea salt, kosher salt
Onion and/or garlic salt
Seasoning mixes containing salt (lemon pepper or bouillon cubes)
Catsup or ketchup
BBQ sauce
Worcestershire sauce
olive, peanut, and canola oils
Vegetable oil-based margarine and spreads

Low-sodium salad dressing and mayon-
naise made from unsaturated vegetable oils
Simple salad dressings (vinegar and oil) Unsalted butter and margarine
Oats, grits, cream of wheat
Pasta, noodles, quinoa, rice
Unsalted popcorn, pretzels, and crackers

Fresh meats, poultry, and fish
Eggs or egg beaters (if less than 200 mg per serving)
Turkey bacon (if not packaged in a sodium solution)

Low-sodium/no salt added canned or packed tuna (no more than 4 ounces at 1 serving)
Unsalted beans, lentils, or peas
Soy foods such as tofu, tempeh, or unsalted soy nuts
Unsalted nuts or nut butter

Milk or milk powder
Fortified soy milk
Yogurt, including Greek and soy yogurt
Small amounts of natural reduced-sodium cheese (Swiss, ricotta, and fresh mozzarella are lower in sodium than others)

Cream cheese
Low-sodium cottage cheese

Unsaturated vegetable oils, including

Fresh or dried herbs
Low-sodium ketchup
Vinegar
Lemon or lime juice

## Pepper

Salt-free seasoning mixes and marinades (salt-free seasoning blend)

|  | Foods that are HIGHER in sodium | Foods that are LOWER in sodium |
| :--- | :--- | :--- |
| CONDIMENTS | Salsa <br> Pickles <br> Relish <br> Salad dressings: ranch, blue cheese, <br> Italian, and French <br> Soy sauce | Salt-free sauces |
| OTHER | Canned or dried soups (that are not salt <br> free or low sodium) | Homemade soups (salt-free or <br> low-sodium) |
| Frozen meals that have more than 600 <br> milligrams sodium <br> Regular potato chips and other salty <br> snack foods | Frozen meals that have less than 600 <br> milligrams sodium <br> Unsalted chips |  |
| Regular bouillon cubes |  |  |$\quad$| Sodium-free bouillon cubes |
| :--- |

## Dietary Fats

Eating the right types of fat and avoiding the unhealthy ones helps to reduce the buildup of plaque in your blood vessels, which lowers your risk for strokes or heart attacks.

Unhealthy Fats: raise cholesterol levels
(1) Saturated fats: found in animal products

- Solid at room temperature
(1) Tran fats: found in stick margarine, shortening, processed sweets, baked goods, and packaged foods made with partially hydrogenated oils


Healthy Fats: improve blood cholesterol levels, ease inflammation, stabilize heart rhythms, and play a number of other beneficial roles

- Unsaturated fats: found in fish, avocados, nuts, seeds, and vegetable oils
- Liquid at room temperature
-2 types: polyunsaturated fats and monounsaturated fats


Swapping foods that do not contain large amounts of unhealthy fats to replace foods high in unhealthy fats will help improve your cholesterol levels. Try these easy swaps:

## Instead of

(2) Whole milk or full-fat cheese, yogurt, and ice cream
() Fatty, marbled beef, and pork
(2) Poultry with skin
(2) Butter, stick margarine, or solid shortening
(2) Coconut oil or palm oil
(1) Chips, crackers, cookies, and other junk foods

## Try

() Skim or $1 \%$ milk, low-fat cheese, non-fat yogurt, and low-fat ice cream
(2) Lean cuts of beef or pork without much marbling or external fat. Examples of lean cuts of meat include round steak, tenderloin, and sirloin tips.
() Poultry without skin, fish and seafood
() Reduced-fat, whipped, or liquid spreads
(2) Liquid vegetable oils: corn, olive, soybean, and safflower oils
(1) Raw or unsalted nuts and seeds like almonds, walnuts, pumpkin seeds, etc.
(1) Vegetables with hummus
() Avocado on toast

## Other Tips for Limiting Intake of Unhealthy Fats:

- Remove the fatty parts of meat and poultry before cooking
- Bake, broil, roast, stew, or stir-fry lean meat, fish, and poultry
( Drain fat after cooking ground meat or poultry
- When making stews or soups, refrigerate the broth and skim off the fat with a spoon before reheating and serving
- When cooking foods on a griddle or a frying pan, brush the pan with cooking oil just to coat it. Or, use a nonstick spray of vegetable oil or a nonstick pan that requires no greasing
(1) Eat fish regularly. Try different ways to cook it so that you'll enjoy it more:
- Grill salmon on skewers
- Dip tilapia in $1 \%$ or skim milk and egg whites, then dip in bread crumbs and saute in a pan sprayed with oil
- Bake white fish and vegetables sealed in foil
- Poach white fish in $1 \%$ or skim milk, water, or juice
- Broil tuna and then squeeze lemon juice on it
- Marinate white fish for 15 minutes in Italian dressing, then bake
- Get protein from plant foods or egg whites instead of meat
- Add tofu or pea protein crumbles to chili and spaghetti sauce
- Use tofu or tempeh in a stir-fry with lots of vegetables
- Make soups with edamame, lentils, split peas or dried beans
- Make an omelet with green peppers, tomatoes, and onions
- Add nuts and seeds to salads and vegetables
(1) Avoid processed foods, fried foods, fast foods, convenience foods, and sweets
(1) Read food labels

Aim to choose foods with less than $\mathbf{5}$ grams of total fat, less than $\mathbf{2}$ grams of saturated fat, and $\mathbf{0}$ grams of trans fat.

Note: Food labels can claim the amount of trans fat as $0 g$ if the product has less than 0.5 g of trans fat per serving. Check the ingredients list (under the food label) and avoid any foods with "hydrogenated oil" listed.


## Carbohydrates

Along with proteins and fats, carbohydrates are one of the three main nutrients found in foods and drinks. There are three types of carbohydrates: starches, sugar, and fiber.

Foods that are high in carbohydrates include:
(0) Grains (bread, crackers, rice, pasta, cereals)

- Starchy vegetables (potatoes, corn, peas)
- Beans and legumes
- Milk, soy milk, and yogurt
(1) Fruit and fruit juice
- Sweets (cakes, cookies, ice cream, jam, and jelly)

(1) Sugars or grains that have been processed and stripped of its natural ingredients like fiber, vitamins, and minerals.
(1) Can raise triglyceride levels when eaten in excess. High triglyceride levels are associated with coronary heart disease, diabetes, and fatty liver.
() White bread
(1) White flour
() White rice
- Regular pasta
(1) Pizza dough
- Sugar: white sugar, Corn syrup, brown sugar, high fructose corn syrup, etc
(1) Cakes, biscuits, pastries, pies
(1) Sugar-coated breakfast cereals
(1) Beverages sweetened with sugar
(1) Candy
() Fiber is a type of carbohydrate that cannot be broken down into sugar, unlike other carbohydrates. Fiber instead, passes through the body undigested.

Found in plant foods like whole grains, fruits, vegetables, and legumesRegulates blood sugarPrevents constipationLowers cholesterol levelsKeeps you fuller for longerWheat flourWhole grain or whole wheat breadBrown riceQuinoaWhole wheat pastaOatmealBarleyFarroBran cerealBeans and legumes: black beans, pinto beans, white beans, chickpeas, lentils, etc.Nuts and seeds: almonds, walnuts, peanuts, chia seeds, flax seeds, etc.
() Fruits: apples, berries, apricots, mangos, pears, avocados, oranges, prunes etc.
(2) Vegetables: asparagus, broccoli, Brussels sprouts, sweet potatoes, leafy greens, carrots, cauliflower, cabbage, eggplant, etc.

Tips to increase your daily fiber intake: aim for 25-30 grams of fiber per day

- Make at least $50 \%$ of the grains you consume come from whole-grain products, like brown rice, quinoa, oats, and whole-wheat bread or pasta.
(1) Fill half your plate with colorful fruits and vegetables at meal times. Examples of high-fiber fruits and vegetables include apples, berries, bananas, broccoli, carrots, cauliflower, Brussels sprouts, pears, prunes, and leafy greens.
(1) Incorporate legumes, nuts, and seeds into your diet by
- Adding almonds or walnuts to a salad
- Including dried beans in soup
- Mixing ground flax seeds or chia seeds in a smoothie
- Dipping vegetables in bean dip or hummus for a snack
- Snacking on unsalted nuts like almonds, walnuts, peanuts, etc.
- Spreading peanut butter or another nut butter on whole grain bread
- Snacking on edamame
(1) Eat whole fruit rather than drinking fruit juice


# THE <br> MEDITERREANEAN DIET PYRAMID 



## DAILY PHYSICAL ACTVIITY AND WALKING

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