

## Nutrition and HIV <sup>[1]</sup>

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## Table of Contents

- [Nutrition and HIV](#)
- [How Is Nutrition Measured?](#)
- [Diet and HIV](#)
- [Women Living with HIV and Nutrition](#)
- [Ways to Improve Nutritional Status](#)
- [Taking Care of Yourself](#)

## Nutrition and HIV

Good nutrition is very important for long-term health and well-being. Studies have found that people living with HIV (HIV+) who have a healthy diet and good nutritional status can better tolerate HIV drugs, maintain a healthy weight, and feel better overall.

Nutrients are things like fats, protein, carbohydrates, vitamins, minerals, and other important chemicals. You need proper levels of different nutrients in order to build and repair cells, keep hormones regulated, fight infection, and maintain energy levels. For the most part, we cannot make nutrients. We get what we need from food and when that is not possible, [dietary supplements](#) [2].

Good nutrition depends on many things, including:

- What type of food you eat and how much
- How you digest and absorb nutrients
- How different parts of your body use these nutrients

HIV-related changes in any of these factors can affect your nutritional status. Over time, this can lead to a variety of nutritional problems, including:

- Weight loss
- Muscle wasting (loss of muscle)
- High levels of fats and sugars in the blood
- Not enough vitamins and minerals

Many of these HIV-related problems can be avoided, or managed, by eating the right foods.

## How Is Nutrition Measured?

Nutritional status can be assessed in many ways, including:

- Weight and other measurements of body fat and muscle mass
- Hemoglobin or hematocrit counts, which measure iron in the blood (hemoglobin helps your red blood cells carry oxygen, which gives you energy)
- Other [blood tests](#) [3] to check levels of important fats ([cholesterol and triglycerides](#) [4]), proteins (such as albumin), vitamins (B-12, Vitamin D), and minerals (sodium, potassium)

## Diet and HIV

A healthy diet is a key part of any HIV treatment plan. A diet is simply any food and drink that you consume regularly. Your diet should give you the nutrients you need to:

- Fight weight and muscle loss
- Keep energy levels high
- Help you get what you need from medications you take
- Minimize the negative impact of HIV drugs

What kind of diet you should follow depends on your weight and your nutritional status (cholesterol, blood sugar, vitamin levels, etc.). A nutritionist or registered dietician can help figure out what type of diet makes the most sense for you. AIDS service organizations and healthcare clinics sometimes have nutritionists on staff.

## Women Living with HIV and Nutrition

Nutritional guidelines such as the US Recommended Dietary Allowance (RDA) are set by the government to let people know how much of each nutrient they need each day to maintain good health. However, the RDA does not take into account that HIV infection increases these needs. One study showed that people living with HIV needed between six and 25 times the RDA of some nutrients.

Due to dieting (restrictive eating), eating unhealthy foods, lack of time, and other pressures, some women in the US do not eat what they need to meet even the basic RDA requirements for many nutrients. This puts women, especially women living with HIV, at particular risk for not getting enough nutrients to maintain their health.

However, this does not mean that women living with HIV are necessarily underweight. In fact, in some resource-rich countries like the US, more women living with HIV are overweight or obese than women in the general population. Weight gain is a common side effect [5] of some HIV drugs. Although HIV drugs greatly reduce AIDS-related illnesses and help people live longer, healthier lives, recent research shows that weight gain associated with HIV drugs can increase a woman's risk of diabetes [6]. Since being obese can increase the chances of getting conditions already common for many people living with HIV (e.g., heart disease [7], cancer [8], high blood pressure, high cholesterol), it is important to maintain a healthy weight.

## Ways to Improve Nutritional Status

### Maintain a Healthy Weight

With a chronic infection like HIV, your body burns more energy (calories). If you are using more than you are bringing in, you may lose weight. It is also possible to eat more calories than you are using, and thus gain weight. Either way, if you are not eating healthy foods, you can suffer from malnutrition and hurt your health.

Some people living with HIV need a higher daily calorie intake to prevent weight loss. Hunger is not always a reliable guide, because you can feel nauseous or turned off by food, even

when you need it. If this is the case, speak to your health care provider about ways to manage your [nausea](#) [9] or stimulate your appetite.

## **Eat More Complex Carbohydrates**

Carbohydrates are a good source of energy, but can be a problem if you have [diabetes](#) [6]. They are found in foods like:

- Bread
- Pasta
- Rice
- Cereal
- Potatoes

Carbohydrates come in different forms. Simple carbohydrates are more easily digested, but can cause your blood sugar to rise sharply. Simple carbohydrates include sugar (as found in sweets, soft drinks), white rice, and white flour. They also occur naturally in fruits and milk.

Complex carbohydrates (also called starches) take longer for your body to digest, and often contain more fiber and other nutrients than simple carbohydrates. Complex carbohydrates include whole grains, beans (legumes), starchy vegetables like corn and potatoes, and brown rice. Because they take longer to digest, complex carbohydrates do not cause blood sugar to rise as sharply as simple carbohydrates and are therefore recommended for people with diabetes.

## **Eat More Protein to Fight Muscle Loss**

Protein (along with [physical activity](#) [10]) helps your body build and maintain muscles. During times of infection, protein stored in muscles can get burned as a fuel source. This can lead to loss of muscle, also called muscle wasting.

It is important to try to eat at least three servings of protein every day. A good estimate of a 'serving' is the amount of food the size of your fist. Foods high in protein include:

- Lean meats, including beef, chicken, and pork
- Fish
- Cottage cheese and yogurt
- Eggs
- Beans, chickpeas, soybeans, and nuts

Some animal sources of protein can be high in saturated fats, and should be used in moderation?especially if you have elevated cholesterol or you are at risk for heart disease.

## **Fiber, Water, Fruits, and Vegetables for Gut Health**

A healthy gut is necessary in order for your body to get what it needs from foods, supplements, and medications. Foods high in fiber can help keep your bowel movements regular and support gut health. These include:

- Oats
- Whole grain bread
- Lentils

- Chickpeas
- Beans
- Fruits and vegetables
- Prunes and apricots

Water (8-10 8-oz cups a day, or about two liters), juices, fresh fruits, and vegetables can help you digest and eliminate waste. Drinking more water can help you avoid dehydration and constipation, and reduce the side effects <sup>[5]</sup> of medications.

Animal fat, especially dairy, can make diarrhea worse. If diarrhea is a problem, you may need to cut back on animal fat, fried foods, and sugary foods. It is important to know that juices often contain large amounts of sugar. Sometimes the sugar is natural (from the fruit), and sometimes there is sugar added to the juice (e.g., cane sugar, corn syrup). Either way, juices tend to have more sugar and less fiber than fresh fruit. As a result, juices can make diarrhea worse and people who have diabetes or pre-diabetes <sup>[6]</sup> are advised to drink juices sparingly.

## **Include Foods to Reduce Inflammation**

Because the immune system of a person living with HIV is always struggling to get rid of the virus, the immune system of people living with HIV is always activated, or "turned on." An activated immune system produces inflammation. Ongoing inflammation appears to be related to many conditions, including heart disease and cancer.

The good news is there are several foods that can help to reduce inflammation. These include:

- Green leafy vegetables like chard, collards, kale, and spinach
- Bok choy (Chinese cabbage)
- Broccoli
- Beets
- Celery
- Certain fish, like mackerel, salmon, sardines, and tuna
- Certain fruits, like blueberries, cherries, pineapple, and strawberries
- Certain nuts, like almonds and walnuts
- Certain oils, like olive oil and coconut oil
- Certain seeds, like chia seeds and flax seeds
- Certain spices, like turmeric and ginger
- Tomatoes

## **Supplements**

People living with HIV need more vitamins to build and repair tissue. It may not always be possible to get all the micronutrients <sup>[2]</sup> (vitamins and minerals) from foods you eat. Not getting enough micronutrients can cause problems such as anemia <sup>[11]</sup>.

While supplements do not replace a well-balanced diet, they can help you get the additional micronutrients you need. Many people living with HIV take a general multivitamin, and some take additional supplementation as needed for specific micronutrients (such as calcium pills for women who do not get enough from their diet). Because several studies have shown that taking a general multivitamin can have health benefits for people living with HIV, many health care providers regularly recommend that their patients living with HIV take multivitamins.

Speak to your health care provider and see a registered dietician for a nutritional evaluation. They can help you determine what combination of dietary changes and supplementation can correct any micronutrient shortages you have.

## Practice Food Safety

It is very important to protect yourself against infections that can be carried by food or water:

- Wash your hands before preparing or eating food
- Wash all fruits and vegetables carefully
- Do not eat raw or undercooked eggs or meat
- Use bottled water if the public water supply is not totally safe

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## Taking Care of Yourself

It is not always easy to stick to a well-balanced and healthy diet. However, the benefits of good nutrition are clear. Well-nourished people have a healthier immune system [12] and are better prepared to fight off infections. In addition, many people living with HIV use food and supplements to manage a variety of complications and side effects [5].

Your diet and supplements are key parts of your total strategy to fight HIV and stay healthy. Although there are no US nutritional guidelines with specific recommendations for people living with HIV, a well-balanced and varied diet that includes all vitamins and minerals seems to be the best way to go. Work with your health care provider and a dietician or nutritionist on a regular basis to develop the best plan for you.

## Tags:

- [Nutrition and HIV](#) [13]
- [Nutrition](#) [14]
- [healthy diet](#) [15]
- [diet](#) [16]
- [balanced diet](#) [17]
- [diet and hiv](#) [18]
- [weight](#) [19]
- [weight loss](#) [20]
- [maintaining weight](#) [21]
- [supplements](#) [22]
- [vitamins](#) [23]

## Additional Resources

Select the links below for additional material related to nutrition.

[Diet, Nutrition and HIV \(The Body\)](#) [24]

[Healthy Eating \(AIDSmap\)](#) [25]

[Superfoods \(CATIE\)](#) [26]

[Nutrition and HIV/AIDS \(Unicef\)](#) [27]

[8 Carbs You Should Be Eating \(Huffington Post\)](#) [28]

[A Practical Guide to Nutrition for People Living with HIV \(CATIE\)](#) [29]

[Nutrition and HIV/AIDS \(WebMD\)](#) [30]

[Nutrition \(AIDSmap\)](#) [31]

[Managing Symptoms and Side Effects \(CATIE\)](#) [32]

[Nutrition and Food Safety \(AIDS.gov\)](#) [33]

[The Best Protein You Can Eat, According to Nutritionists \(Huffington Post\)](#) [34]

[Dietary Fats: Know Which Types to Choose \(Mayo Clinic\)](#) [35]

[Foods That Fight Inflammation \(Harvard Health\)](#) [36]

- [Sign Up / Login](#)
- [My Account](#)
- [HIV Information](#)
- [A Girl Like Me](#)
- [Partners](#)
- [Who We Are](#)
- [Terms](#)
- [Privacy](#)
- [Contact](#)



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**Links:**

- [1] <http://www.thewellproject.org/hiv-information/nutrition-and-hiv>
- [2] <http://www.thewellproject.org/hiv-information/vitamins-and-supplements>
- [3] <http://www.thewellproject.org/hiv-information/understanding-lab-tests-i-complete-blood-count-and-blood-chemistry>
- [4] <http://www.thewellproject.org/hiv-information/hyperlipidemia-high-cholesterol-and-triglycerides>
- [5] <http://www.thewellproject.org/hiv-information/side-effects>
- [6] <http://www.thewellproject.org/hiv-information/diabetes>
- [7] <http://www.thewellproject.org/hiv-information/caring-your-heart>
- [8] <http://www.thewellproject.org/hiv-information/cancers>
- [9] <http://www.thewellproject.org/hiv-information/caring-your-gut-dealing-diarrhea-nausea-and-other-stomach-problems>
- [10] <http://www.thewellproject.org/hiv-information/physical-activity-exercise-and-hiv>
- [11] <http://www.thewellproject.org/hiv-information/anemia-and-women>
- [12] <http://www.thewellproject.org/hiv-information/understanding-immune-system>
- [13] <http://www.thewellproject.org/tags/nutrition-and-hiv>
- [14] <http://www.thewellproject.org/tags/nutrition>
- [15] <http://www.thewellproject.org/tags/healthy-diet>
- [16] <http://www.thewellproject.org/tags/diet>
- [17] <http://www.thewellproject.org/tags/balanced-diet>
- [18] <http://www.thewellproject.org/tags/diet-and-hiv>
- [19] <http://www.thewellproject.org/tags/weight>
- [20] <http://www.thewellproject.org/tags/weight-loss>
- [21] <http://www.thewellproject.org/tags/maintaining-weight>
- [22] <http://www.thewellproject.org/tags/supplements>
- [23] <http://www.thewellproject.org/tags/vitamins>
- [24] <http://www.thebody.com/dietnut.html>
- [25] <http://www.aidsmap.com/Healthy-eating/page/2029215/>
- [26] <http://www.catie.ca/en/positiveside/winter-2014/superfoods>
- [27] [http://www.unicef.org/nutrition/index\\_HIV.html](http://www.unicef.org/nutrition/index_HIV.html)
- [28] [http://www.huffingtonpost.com/2014/10/19/best-good-carbs-eat-more\\_n\\_5773480.html](http://www.huffingtonpost.com/2014/10/19/best-good-carbs-eat-more_n_5773480.html)
- [29] <http://www.catie.ca/en/practical-guides/nutrition>
- [30] <http://www.webmd.com/hiv-aids/guide/nutrition-hiv-aids-enhancing-quality-life>
- [31] <http://www.aidsmap.com/resources/living-with-hiv/Nutrition/page/1254864/>
- [32] <http://www.catie.ca/en/practical-guides/nutrition/2-a-la-carte/2-3>
- [33] <http://www.aids.gov/hiv-aids-basics/staying-healthy-with-hiv-aids/taking-care-of-yourself/nutrition-and-food-safety/>
- [34] [http://www.huffingtonpost.com/entry/the-best-protein-you-can-eat\\_55ccbcfee4b064d5910aae11](http://www.huffingtonpost.com/entry/the-best-protein-you-can-eat_55ccbcfee4b064d5910aae11)
- [35] <http://www.mayoclinic.org/healthy-lifestyle/nutrition-and-healthy-eating/in-depth/fat/art-20045550>
- [36] <http://www.health.harvard.edu/staying-healthy/foods-that-fight-inflammation>