

Phosphorus: foods, functions, how much do you need & more

11 January 2021

Phosphorus is well-known for its importance in healthy and fertile soil, but just like plants, our bodies also need this mineral to thrive!

What is phosphorus?

Phosphorus is one of the major minerals, which our bodies need in relatively larger amounts to keep healthy. We can find phosphorus in a variety of foods, particularly those rich in protein.

What are the functions of phosphorus?

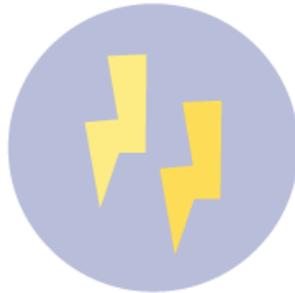
Phosphorus is one of the most abundant minerals in our bodies and we can find 85% of it in our bones and teeth. In fact, one of the key functions of phosphorus, together with calcium, is to form and keep our bones and teeth healthy. The remaining 15% is used in many other important functions, such as to help our bodies produce energy, keep a balanced pH, form our genetic material (DNA and RNA) and to help deliver oxygen from the red blood cells to the body. Phosphorus is also needed for the production of phospholipids, an important type of fats that make up the structure of our cells' membranes and play a key role in the good functioning of our nerve cells and brain.

functions of phosphorus

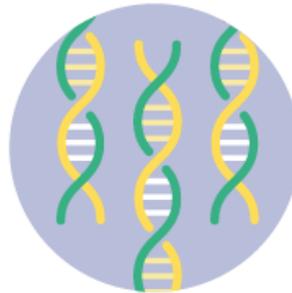
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forms and
keeps strong
bones and teeth



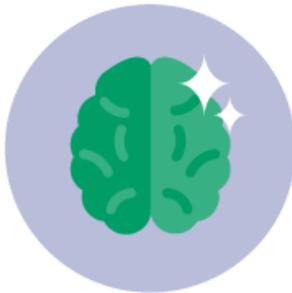
helps maintain
our energy levels



forms our genetic
material (DNA & RNA)



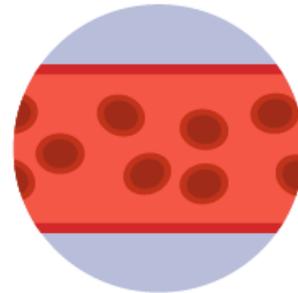
helps form
the membranes
of our cells



keeps the healthy
function of our brain
& nervous system



helps to maintain
normal acid-
balance (pH)



helps oxygen
delivery in the body

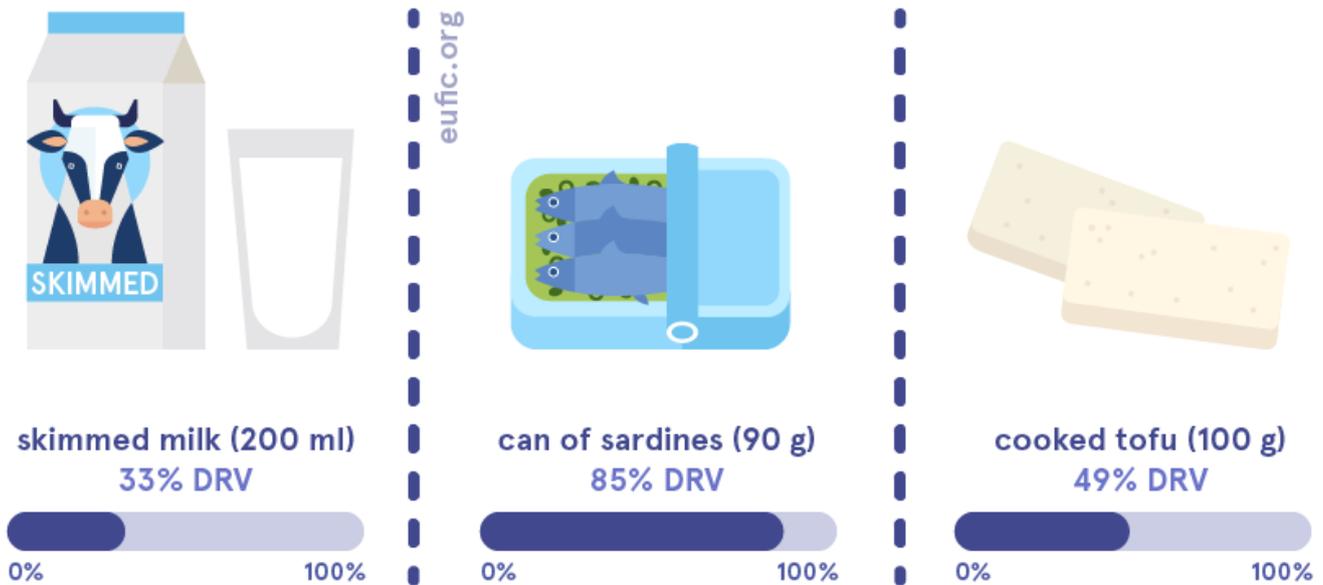
How much phosphorus do I need per day?

How much phosphorus you need per day changes according to your age, sex and life-stage.

The dietary reference value (DRV)* for healthy adults (over the age of 18), including during pregnancy and lactation, is 550 mg of phosphorus per day.

We can get enough phosphorus from our diets by eating a variety of foods. Following your [country's dietary guidelines](#) on a healthy and balanced diet will help you meet your needs for phosphorus.

how much phosphorus is in these foods



* These values are based on the adequate intake (AI) estimates from the European Food Safety Authority (EFSA). They should not be interpreted as nutrient goals. To know more about DRVs in Europe [click here.](#)

What foods contain phosphorus?

Phosphorus is found in many foods, particularly those rich in protein, such as:

- milk and dairy
- meat and poultry
- fish
- grain products
- legumes.

Phosphorus is also added to foods through food additives, usually in the form of phosphate or phosphoric acid. These can be found in a variety of processed foods from baked goods to processed meat and soft drinks.

What happens if I have too much phosphorus?

Phosphorus from foods is not considered harmful since it's very unlikely that we get too much of it through our diets alone.

High intakes of phosphorus are mainly dangerous for people who have kidney disease, as it causes the accumulation of phosphorus in the blood. Over time, this can lead to serious health consequences such as secondary hyperparathyroidism, bone loss and the accumulation of calcium in our soft tissues (such as organs, muscles and blood vessels) and consequent damage.

When should I pay extra attention to my phosphorus intake?

Phosphorus deficiency is not a risk for the general population, since most people can get the recommended amounts of phosphorus from a varied and balanced diet.