NUTRITIONAL BENEFITS OF PULSES

ONE OF THE FIVE MESSAGES THAT FAO AIMS TO HIGHLIGHT DURING THE INTERNATIONAL YEAR OF PULSES IN 2016 - ARE THE NUTRITIONAL BENEFITS OF PULSES AND ENCOURAGE A PARADIGM SHIFT TOWARDS INCLUDING MORE OF THIS NUTRITIONAL POWERHOUSE IN DIETS ALL OVER THE WORLD.

Malnutrition is one of the important contributors to many types of illnesses and, in some cases, lead to death. Malnutrition is a result of eating too little, too much or eating an unbalanced diet that does not contain the right quantity and quality of nutrients to be healthy.

Pulses typically contain about twice the amount of protein found in whole grain cereals such as wheat, which for most populations in developing countries they constitute a major source of protein.

Pulses are an excellent complementary food for infants and young children to meet their daily nutritional needs. They can be incorporated into children’s diets through family diets and school meal programmes in both developed and developing countries. Their high nutrient content also make pulses ideal for vegetarians and vegans to ensure adequate intakes of protein, minerals and vitamins.

When combined with food high in vitamin C, pulses’ high iron content makes them a potent food for replenishing iron stores, particularly for women of reproductive age, who are more at risk for iron deficiency anaemia.

Older people can also benefit from eating pulses.

WHAT ARE PULSES?

PULSES, a subgroup of legumes, are plant foods from the Leguminosae family (commonly known as the pea family). The edible seeds of pulses are eaten by humans and animals.

FAO calls pulses only legumes with dry, edible seeds, with low fat content, are classified as pulses. FAO does not consider pulses legume species used as vegetables (e.g., green peas, green beans), for oil extraction (e.g., soybean, groundnut) and for sowing purposes (e.g., clover, alfalfa).

Worldwide, commonly eaten pulses include kidney beans, navy beans (Phaseolus vulgaris L.), faba beans (Vicia faba L.), chickpeas (Cicer arietinum L.), dried or split peas (Pisum sativum L.), mung beans (Vigna radiata L.) cowpeas, black-eyed peas (Vigna unguiculata (L.) Walp.) and several varieties of lentils (Lens culinaris Medik.). There are also many less well-known species of pulses such as lupines (e.g., Lupinus albus L., Lupinus mutabilis Sweet) and bambara beans (Vigna subterranea L.).
GETTING THE MOST FROM YOUR PULSES

In many cultures, pulses are considered as ‘protein for the poor’. There are a number of reasons why they are underestimated. The most common ones are: they can cause bloating, flatulence, and, unless they are soaked for hours, pulses take a long time to cook. Pulses contain some anti-nutrients, which are substances that reduce the body’s ability to absorb the various minerals that pulses contain.

Fortunately, many of these issues (bloating, flatulence, anti-nutrients and length of cooking time) can be overcome using traditional cooking techniques, such as soaking, germination (sprouting), fermentation and pounding. Traditional methods can also help to reduce the content of the anti-nutrients.

When other foods are combined with pulses, the nutritional value of pulses is further enhanced, as other foods help to ensure that the body is able to better absorb all the nutrients found in pulses. Here are a few examples:

1. When beans are eaten with other foods such as grains, the nutritional value of pulses is even greater as the body is better able to absorb iron and other minerals found in pulses.

2. Another way of increasing the body’s ability to absorb iron is to combine pulses with vitamin C rich foods (a good example is to sprinkle some lemon juice on lentil curry).

3. Drinking tea or coffee with meals, on the other hand, has the opposite effect.

There are so many ways to eat pulses. They can be eaten at any meal. In some Asian countries, boiled chickpeas, mung beans and butter beans are a common sight at breakfast. They are also a favorite snack. In other parts of the world, bean burgers or falafel, made from ground chickpeas or fava beans or both, are eaten for lunch. Pulses, especially beans, can be added to soups, salads, and pasta sauces. In some parts of Italy, boiled beans and tuna fish is a common second course. Even children as young as six months can enjoy a puree of boiled pulses with other foods.