WHAT IS **PROTEIN**

Protein is incredibly important, and without it our body composition and health greatly suffer as a result.

Proteins are an essential nutrient and can be broken down into 20 building blocks known as amino acids. Out of these 20 amino acids, 9 are considered to be essential as the body cannot synthesize its own, meaning we must obtain these from animal and plant sources. The other 11 aminos can be synthesized by the body, making them non-essential.



When considering a protein source, one of the most popular methods is to classify

The biological value of a protein is based on its quantity of the essential amino acids. So a food with a high BV (also known as a complete protein) contains all 9

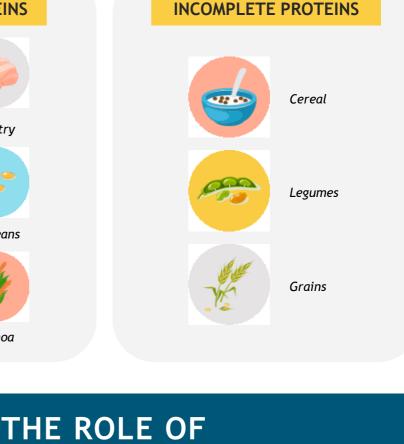
the food by its biological value (BV).

essential aminos. This is commonly seen in animal and dairy products.



tendons.

COMPLETE PROTEINS



When we do consume sufficient amounts of high quality and complete proteins, it has a whole host of benefits.

PROTEIN

Proteins provide building materials - amino acids - for growth and repair of body tissues.

Proteins facilitate numerous chemical reactions in the body; all enzymes are proteins.

hair, membranes, muscles, teeth, bones, organs, ligaments and

Some proteins act as chemical messengers, regulating body processes not all hormones are proteins. Proteins assist the body in maintaining its resistance to disease by

acting against foreign disease-causing substances.

concentrations in body fluids.

meet the body's energy needs.

- Proteins help regulate the quantity of fluids in body compartments. Proteins act as buffers, to maintain the normal acid and base
- Proteins move the required nutrients and other substances into and out of cells and around the body. Protein can be used to provide calories (4 calories per gram) to help
- HOW MUCH PROTEIN DO WE NEED

Proteins form vital parts of most body structures, such as skin, nails

THE AVERAGE INTAKE

For a healthy person of a healthy weight who is mainly sedentary and is not seeking changes in body composition - then an intake of 0.4 - 0.6 grams of

protein per pound bodyweight is sufficient.

Having a high protein intake during a calorie deficit is

The debate still continues on how much protein we need daily, but there appears to be a general agreement that active individuals need a higher intake than sedentary people.



also important, as it is very anabolic, meaning we are more likely to preserve lean body tissue in the process.

WHEN LOSING BODY FAT

WHEN BUILDING MUSCLE

The studies that look at muscle mass and protein intake tend to vary from 0.8-1.0+ gram per pound bodyweight, so it's safe to say a balanced approach would be most beneficial, so around 1g per pound bodyweight is highly effective.

The research shows a daily intake of 0.45-0.6 gram per pound bodyweight. Finally, those recovering from injuries may also benefit from a higher protein diet.

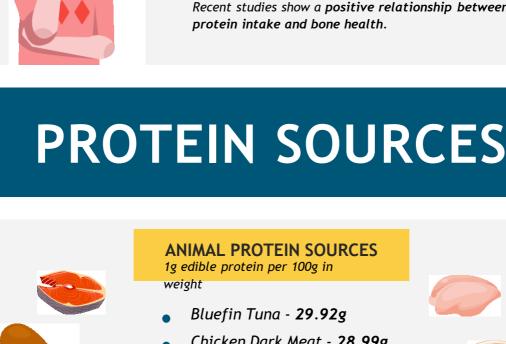


DANGERS OF A HIGH PROTEIN DIET

ELDERLY

and that it is linked to cardiovascular disease, dehydration, calcium loss and damaged liver and kidney function. The question that must be asked is - show us the accurate research.

HERE'S WHAT YOU NEED TO KNOW



There is **no link** to protein causing increased **risk of** coronary heart disease.

There is no link to protein causing liver or kidney damage in healthy subjects. Recent studies show a positive relationship between

protein intake and bone health.

ANIMAL PROTEIN SOURCES 1g edible protein per 100g in weight

Turkey White Meat - 28.48g Cooked Salmon - 25.56g Lamb Cooked - 24.52g

PLANT & DAIRY PROTEIN SOURCES

Chicken White Meat - 16.79g

Duck - 23.48g

Pork Chop - 21.91g

Bluefin Tuna - 29.92g

Chicken Dark Meat - 28.99g

weight Pumpkin Seeds - 32.47g Peanut Butter - 25.09g

1g edible protein per 100g in

Peanuts - 23.68g

Cheddar Cheese - 24.90g

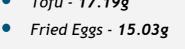
- Tofu 17.19g
 - Cottage Cheese 12.93g

Lima Beans - 7.80g















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