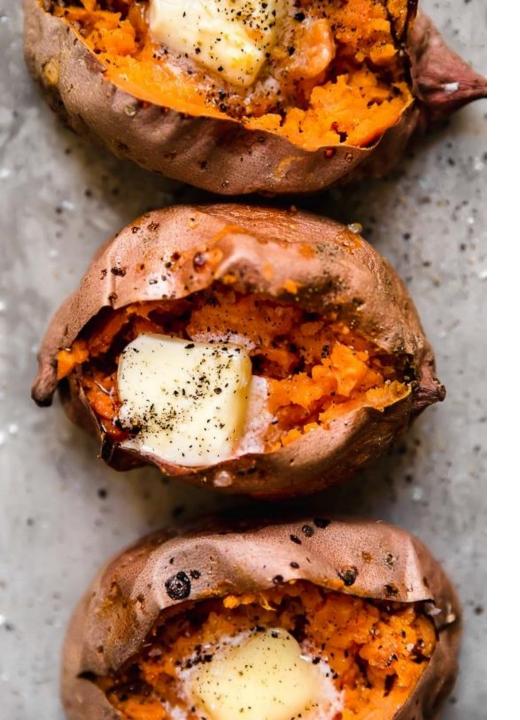
Macronutrients=Food Groups

Macronutrients





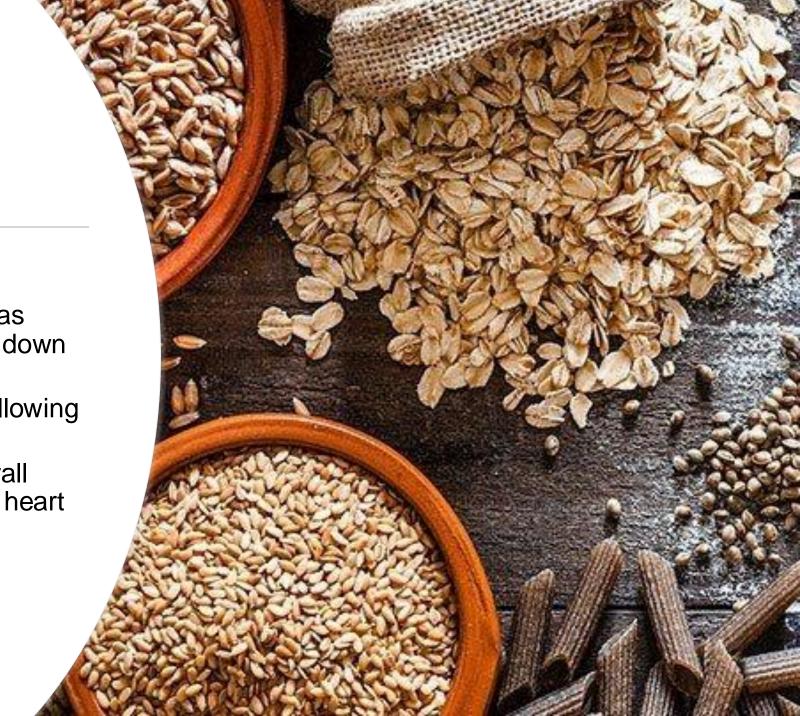
Carbohydrates

- The body's preferred source of energy.
- Carbohydrates are digested as glucose that is then converted to energy or stored if there is excess.
- Generally recommended for 40% of caloric intake to consist of carbohydrates.
 - Example: Based on a 2,000-calorie intake=200 grams of carbohydrates

Complex VS Simple

Complex Carbohydrates:

- Provide nutrient density, such as fiber and protein, thus slowing down digestion.
- Manage blood sugar spikes following meals.
- Aid in the maintenance of overall health; controlling your risk for heart disease, Type II diabetes, and unhealthy weight gain.



Complex VS Simple



Simple Carbohydrates:

- Fast digesting
- Minimal to no nutrient density
- Spikes blood sugar
- Provides no satiety
- Causes inflammation

Protein

 Every cell in the human body contains protein. Protein found in hair, bones, skin, and muscle. Cells need protein to grow, heal, and reproduce.

• As the body digests protein it converts the protein into amino acids, also known as "building blocks".

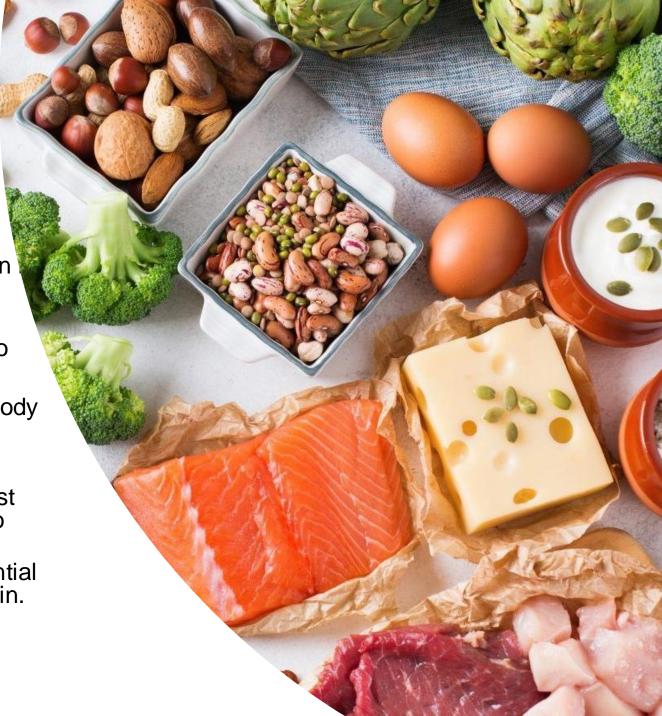
 Protein is made up of 20 different amino acids. The body does not store amino acids.

Amino acids are categorized into 3 groups;

 Essential: Cannot be made by the body, and must be supplied by food. There are 9 essential amino acids.

• Non-essential: Are made by the body from essential amino acids or in the normal breakdown of protein.

· Conditional: Needed in times of illness or stress.



Protein

- Protein creates satiety, supports and builds muscle mass.
- Adequate protein intake ranges from 10%-35% of caloric intake depending on lifestyle. Commonly, protein intake can range from .6 grams-1.2 grams per pound.
- Example: 2,000 calorie intake at 30% protein intake=
 150 grams (~.7 grams per pound)
- Healthy protein choices are key. When we eat foods for protein content, consider the other nutrients that come along with it. Choose quality protein sources when possible.





Fat

- Fats are essential for energy, supporting cell growth, regulating body temperature, absorbing certain nutrients, protecting vital organs, and producing hormones.
- 65% of the human brain is made of fat.
- Your body can make it's own fat from taking in excess calories.
- Generally, ~30% of caloric intake should be fat.
- Example: 2,000 caloric intake =67 grams/day

Fat

Healthy Fats:

- Unsaturated fats (liquid at room temperature)
 - Olive oil, nuts, avocado oil
 - Benefits: Promote weight-loss, reduce inflammation, and lower the risk of heart disease.
- Some saturated fats (solid at room temperature)
 - Whole food sources: Coconut oil, grass-fed butter, ghee, grass-fed meats, full fat organic dairy products (Organic, grassfed, grass finished animal products)

Benefits: Boost brain health, increases HDL cholesterol, forms the foundation of cell membranes

- Omega 3 fatty acids (Polyunsaturated fat):
 - Salmon, grass-fed and pasture raised meats, eggs, flax seeds, chia seeds, mackerel, sardines

Unhealthy Fats:

- Industrialized polyunsaturated fats =damaged and oxidized fats
 - Canola oil, soybean oil, peanut oil, corn oil, vegetable oil, seed oils
- Artificial Trans Fats: (hydrogenation in which food manufacturers add hydrogen molecules to liquid vegetable oils to extend shelf life, enhance flavor and create a more solid texture in foods.)
 - Peanut butter, cookies, crackers, cakes, etc....

