

NUTRITION AND DIET PLAN FOR FOOTBALL PLAYERS

Ashwani Yadav¹ Assistant Teacher
(Physical Education) V.B.S.N. Inter College Hardoi, U.P.

Suman kushwaha²Research Scholar,
Department of Physical Education, University of Lucknow.

Abstract: The purpose of the study was to find out the Nutrients and diet to enhance fitness of Football players. As a science, nutrition is concerned with the study of food and effect on Football players. Football is a sport that consists of a variety of exercise intensities ranging from sprinting to standing still. Fuel from the bursts of intense activity is provided predominantly by carbohydrate and fat used during the less intense parts of the game. Football is a power sport and requires both strength and endurance. As a consequence a Football player's requirements are 1.4-1.7g of protein per kg body weight. Football players need fats because active muscles quickly burn through carbohydrates and need fats for long-lasting energy. Vitamins and minerals have no caloric value. Although they are required only in small amounts, they are essential for body functioning. Water is the most basic of all the nutrients-it is necessary to sustain life. A pre match meal should be eaten 2-4 hours before training or a match. The meal should be high carbohydrate, low in fat and low to moderate in protein. Post-match food Effective recovery from training and replacement of the glycogen stores used during training or games is essential. These five components of diet (Nutrients) are being used by the body to sustain vital processes such as repair and regulation of cellular functions and the production of energy.

Key words: Balanced Diet and Nutrition: Macro and Micro Nutrients, Pre match food, Post match food.

Balance diet: It is never generalized and suitable for all individual. It is individual specific. Variety is the key to a balanced diet. There is no perfect food or supplement that can supply the 40-plus nutrients the body needs for top performance. A daily diet should be made up of a selection of foods from each of the five food groups. A basic food plan for one day should have: Breakfast 35%, Lunch 27%, Snacks 15%, Dinner 23%.

Nutrition: - It is the process of obtaining and consuming food or breaking down food and substances taken in by the mouth to use for energy in the body.

Nutrients: The energetic food in our diet consists of various types of essential chemicals for our body termed as nutrients:-Protein, Fat, Carbohydrates, vitamins and Minerals

Components of Diet Nutrients:

Micro
Macro
Carbohydrates
Vitamins
Minerals
Proteins
Fats

A balanced diet will provide you with enough energy and nutrients to stay healthy feel good and perform well in training and competition. Athletes have different requirements to the general population but essentially the diet should still be made up of the five basic food groups with greater proportions of some of the food groups e.g. Carbohydrates and protein.

CARBOHYDRATES: Carbohydrates have one major function in the body-to provide energy for fuel. In fact, the brain, nervous system and red blood cells must have a constant supply of carbohydrates to keep working.

Football is a sport that consists of a variety of exercise intensities ranging from sprinting to standing still. Fuel from the bursts of intense activity is provided predominantly by carbohydrate and fat used during the less intense parts of the game. Fatigue in Football is often caused by a depletion of muscle glycogen (the carbohydrate stored in muscle). Also if blood glucose levels drop during a game this may lead to loss of concentration and tactical skills. This is why carbohydrates are so important for Football players. Carbohydrates are stored in the body as glycogen in the muscle and liver, therefore it is essential to pay attention to the amount of carbohydrate you eat on a regular basis.

Nutrition experts advise people to choose whole grains (such as brown rice, oatmeal, whole wheat bread) more often than processed carbohydrates (such as white bread, cakes, crumpets). Whole grains both provide the energy athletes need to perform and the fibre and other nutrients they need to be healthy. The amount of carbohydrate that you need to eat each day depends on the amount of training you do on a daily basis. On average Football players would require 5-8g carbohydrate per kg body weight.

Protein: Protein is required throughout life to create, maintain and renew our body cells. Protein is essential for the growth and repair of all body tissues including muscle and bone. It is not difficult to meet protein needs if eating a balanced diet with a variety of foods. However athletes have slightly higher protein needs than the average person due to the wear and tear on their bodies.

Football is a power sport and requires both strength and endurance. As a consequence a Football player's requirements are 1.4- 1.7g of protein per kg body weight. If performing more strength training aim for the upper end of that range i.e. 1.7g protein/kg. *Animal protein sources include:* meat, chicken, fish, milk, yogurt and eggs.
Vegetable protein sources include: beans, lentils, tofu, nuts and seeds.

Fat: Fats are oily or waxy substances made up of fatty acids and glycerol. Like carbohydrate and protein, fat is essential for health but does pose a problem if you do not exercise enough. Excess fat contributes to weight gain, heart disease, and other health problems. Even for athletes who burn off the extra energy fat supplies, there is an increased risk of adverse effects later in life.

Football players need fats because active muscles quickly burn through carbohydrates and need fats for long-lasting energy. Experts advise athletes to concentrate on healthier fats, such as unsaturated fats found in most vegetable oils. Fatty foods can slow digestion, so it's a good idea to avoid eating these foods for a few hours before and after exercising. As an example, a male Football player requiring 3200kcal per day could eat 90g fat per day, which would equate to 25% to total energy intake.

A female Football player requiring 2500kcal per day could eat 70g fat per day, which would also equate to 25% of total energy intake.

Vitamins and Minerals: Vitamins and minerals have no caloric value. Although they are required only in small amounts, they are essential to body functioning. Vitamins are needed for normal growth and development. Vitamins do not provide energy from the foods that are consumed. Minerals are essential for the regulation and performance of such body functions as the maintenance of water balance and skeletal muscle contraction. Vitamins are classified according to their solubility. Water soluble:-B1, B2, B12, Niacin and folic acid. Fat soluble:-A, D, E, K

Water: Water is the most basic of all the nutrients-it is necessary to sustain life. The most abundant of all the nutrients in the body, water accounts for approximately 60% of the chemical process performed by the body. It is essential for such functions as energy production, digestion, temperature regulation, and elimination of the by-products of metabolism.

Pre Match Food: A pre match meal should be eaten 2-4 hours before training or a match. The meal should be high carbohydrate, low in fat and low to moderate in protein. It is also important to note that large meals take a long time to be digested and absorbed. Large meals eaten the day before an athletic event would be acceptable; however, large meals should not be consumed on the day of an event, before the competition. Suitable foods for a pre match meal Pasta with tomato based sauces with chicken and vegetables or other low fat sauce. Fried noodles or rice with vegetables and meat .Cereal and milk/yogurt. Toast/muffins/crumpets with honey jam. Rolls or sandwiches with meat. Suitable foods for pre match snacks. Fresh or dried fruits, Cereal bars, Fruit buns, flavored milk, Low fat yogurt, Rice.

Post-Match Food: Effective recovery from training and replacement of the glycogen stores used during training or games is essential. When you exercise, you should aim to have carbohydrate rich food or drink within 30 minutes as the muscle can store carbohydrate more efficiently during this time.

Mealtime For Games for Football Players 08:30 am Game

Breakfast	6.00pm-7.00am
Game	8.30am
Post-Game snack	10.30am
Lunch	12.30am
Afternoon snack	3.30pm
Evening meal	6.30pm
Supper	9.00pm

10:30am Game

Breakfast	7.00pm-8.00am
Game	10.30am
Post-Game	12.30am
Lunch	2.30am
Afternoon snack	5.30pm
Evening meal	7.00pm
Supper	9.00pm

01:00pm Game

Breakfast	7.00am
Pre Match	10.00am - 11.am
Game	1.00pm
Post-Game	3.00pm
Afternoon snack	5.00pm
Evening meal	7.00pm
Supper	9.00pm

Evening Game

Breakfast	8.00am
Morning Tea	10.00am
Lunch	12.00pm
Pre Match	3.00pm
Game	6.00pm
Recovery	8.00pm
Evening meal	10.00pm

Conclusion: Dietary planning requires the thoughtful application of nutritional knowledge to ensure that the diet is adequate and balanced. Player's conditions and factors such as age, sex, weight, environment and level of physical activities must be considered in dietary planning. Because of the significant impact of the nutritional practice on health, the production of energy for physical activities and the regulation of body composition, attaining and maintaining desirable level of health fitness requires careful attention to nutritional practices.

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