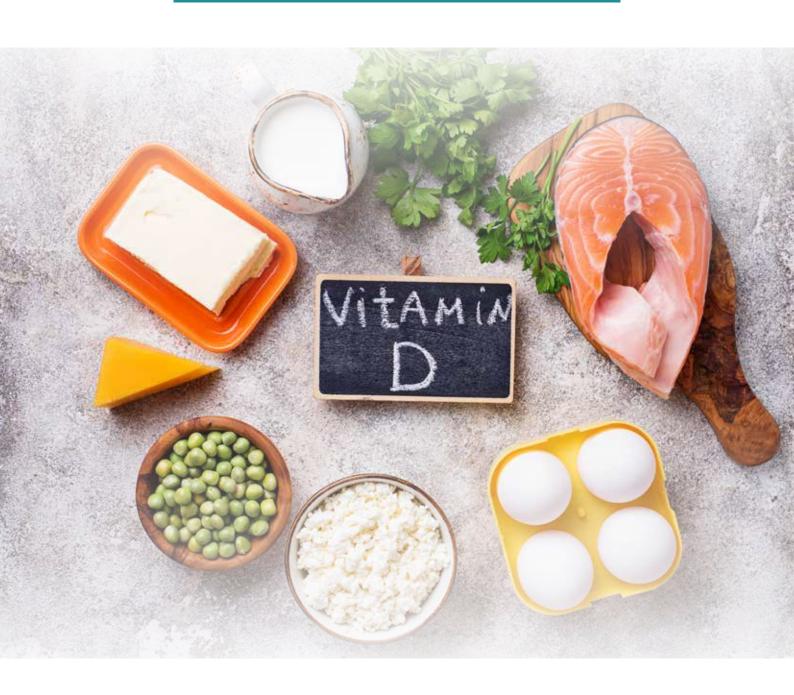




Vitamin D

























Vitamin D:

One of the fat-soluble vitamins that the body produces when exposed to UV sunshine. It is considered the main source of vitamin D synthesis through the skin. In addition, it can be obtained from food sources; however, the amount of vitamin D in these foods is relatively low. And vitamin D can also be consumed as a food supplement.

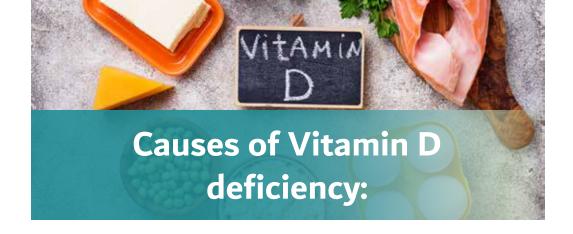
Synthesizing Vitamin D:

It is synthesized under the skin by exposure to sunlight (UV) and stored; the degree of synthesis depends on several factors: the skin's color (the dark color obscures part of the rays), the nature of the environment, and the availability of rays.)

Must expose hands, face, and arms to sunlight for at least 15 minutes, three times a week while avoiding sun exposure during peak hours.



- Boosts bone health.
- Maintains the body's immune system.
- Resists to cancer cell activity.
- Regulates insulin in the blood.
- Helps maintain blood pressure.
- Promotes children's health.



- Insufficient exposure to sunlight.
- Ageing reduces the essential substance consisting of vitamin D in the skin.
- Lack absorption of vitamin D in the small intestine due to the intestinal diseases.
- Liver disease.
- Kidney disease.
- Malnutrition.
- Take some medications.
- Some genetic diseases in children.

Symptoms of Vitamin D Deficiency:

- Rickets disease in children.
- Osteoporosis.
- Arthritis.
- Increases risk of having heart disease and high blood pressure.
- Chronic fatigue.

Excessive Vitamin D Causes:

- Kidney problems.
- Calcium build-up in the body.
- Digestive disorders.
- Atherosclerosis and tissues.
- Irregular heartbeat.



Yes. Your doctor can request a blood test to see if you have enough vitamin D.

Doctors measure vitamin D levels in people at risk of vitamin D deficiency. These include persons who:

- Spend most or all of their time indoors and are not exposed to sunlight.
- They have medical problems (such as digestion dysfunction) that prevent the absorption of vitamin D.
- They have osteoporosis, which makes the bones weak.
- Suffer from some chronic diseases such as kidney failure.



Sunlight is one of the main sources that helps produce vitamin D in the body, preferably it is good to get sun exposure for (15-30) minutes 3 days a week during off peak hours.

Food sources:

- Fortified milk and its derivatives.
- Whale liver oil.
- Egg yolks.
- Liver.
- Fish such as salmon, tuna, and sardines.
- Fortified foods.
- Fortified breakfast cereal.
- Soymilk.

Required amounts of vitamin D:

- Newborns: the age of 1 year and 400 IU
- O Children: 3-1 years of age and 600 IU
- Teens: 18-14 years of age and 600 IU
- Adults: 70-19 years of age and 600 IU
- Seniors: Age 71 and over 800 IU

With exposure to the sun, and in the case of non-dose exposures up to 1,000 IU.