

# The role different vitamins play

A nutritious diet is a vital component of a healthy lifestyle. When it's part of a health regimen that includes routine exercise, a healthy diet that's rich in fruits and vegetables can help people reduce their risk for various illnesses, including chronic diseases like heart disease, cancer and diabetes.

Many adults have known about the value of fruits and vegetables since they were youngsters and their parents repeatedly told them how important it was to eat healthy foods. Despite those early lessons, the Centers for Disease Control and Prevention reports that less than 10 percent of adults and adolescents eat enough fruits and vegetables. That's unfortunate, as fruits and vegetables are loaded with vitamins that benefit the body in myriad ways.

The U.S. National Library of Medicine notes that vitamin deficiency occurs when people do not get enough of certain vitamins. Recognizing the many functions vitamins serve may compel adults and adolescents to include more fruits and vegetables in their diets.

- Vitamin A: The USNLM notes that vi-

tamin A helps form and maintain healthy teeth, bones, soft tissue, mucous membranes, and skin. According to the World Health Organization, vitamin A deficiency is the leading cause of preventable blindness in children and increases the risk of disease and death from severe infections.

- Vitamin B6: Vitamin B6 helps form red blood cells and maintain brain function. Though the National Institutes of Health notes that isolated vitamin B6 deficiency is uncommon, a deficiency has been associated with various conditions, including a weakened immune system and dermatitis cheilitis, a condition marked by scaling on the lips and cracks at the corners of the mouth.

- Vitamin C: Vitamin C is an antioxidant that promotes healthy teeth and gums, helps the body absorb iron and maintains healthy tissue. In addition, vitamin C plays an integral role in helping wounds heal. Vitamin C deficiency impairs bone function, and Merck notes that in children that impairment can cause bone lesions and contribute to poor bone growth.

- Vitamin D: The USNLM notes that

10 to 15 minutes of sunshine three times per week is enough to produce the body's vitamin D requirement for people at most latitudes. It's hard to rely on food to supply ample vitamin D, which helps the body absorb calcium that is necessary for the development and maintenance of healthy teeth and bones.

- Vitamin E: Vitamin E helps the body form red blood cells and utilize vitamin K. Green, leafy vegetables like spinach and broccoli are good sources of vitamin E. The Office of Dietary Supplements notes that a vitamin E deficiency can cause nerve and muscle damage, potentially leading to muscle weakness and vision problems.

- Vitamin K: Vitamin K helps to make certain proteins that are needed for blood clotting and the building of bones. The T.H. Chan School of Public Health at Harvard notes that the main type of vitamin K is found in green leafy vegetables like collard greens, kale and spinach. Vitamin K deficiency is rare, but it can lead to bleeding, hemorrhaging or osteoporosis.

Vitamins are crucial to human beings' overall health. Eating



ample amounts of fruits and vegetables is a great and delicious way to avoid vitamin deficiency.

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