

CAPSULE 2019-20

BHARATI VIDYAPEETH (Deemed to be University)

POONA COLLEGE OF PHARMACY

Accredited by NBA (6 yrs.), NACC (A+ GRADE), ISO Certified, NIRF (22 Rank 2020)

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TO INCLUDE OR NOT TO INCLUDE IS THE QUESTION More Jayshree D.

The list of Vitamins below gives us information of how particular different types of vitamins work in our body, how much of each nutrient we need every day, what types of food to eat to ensure that we are getting

we need every day, what types an adequate supply. The recommendations in this vitamins chart are based largely on the guidelines from the Institute of Medicine.

As we know, VITAMINS the only elements our body DO NOT produce, we need to take



- I. RETINOIDS and CAROTENE (Vitamin A includes retinol, retinal,
- retinoic acid are also referred as "performed Vitamin,".)

 Benefits Essential for vision, keeps tissues and skin healthy, plays an important role in bone growth and in immune system. Carotenoids acts as antioxidants. Foods rich in the carotenoids lutein and zeaxanthin may protect against cataracts.
- Recommended Amount Men- 900 mcg / Women- 700 mcg
- Good food Sources Beef liver, eggs, shrimps, fish, butter, cheese
- Low amounts result in Nyctalopia (Night blindness), diminishes the ability to fight infections, Liver disorders
- · High amounts result in Dizziness, nausea, he

2. THIAMIN (Vitamin B1)

- Benefits Helps convert food into energy. Needed for healthy skin, hair, muscles, and brain and is critical for nerve function.
- Recommended Amount Men-1.2 mg / Women 1.1 mg
- Good food Sources Pork chops, brown rice, ham, soymilk,
- Low amounts result in Loss of appetite, Reduced reflexes, tingl sensations in arms and legs, muscle weakness, blurry vision, changes in heart rate.
- High amounts result in Thiamin is water soluble and excess of it is excreted through urine. Therefore, high levels normally do not cause any side effects.

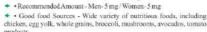
3. RIBOFLAVIN (vitamin B2)

- · Benefits Helps convert food into energy. Needed for healthy skin, bair, blood, and brain
- ◆ Recommended Amount Men- 1.3 mg / Women- 1.1 mg
- Good food Sources Milk, eggs, yogurt, cheese, meats, green leafy vegetables, whole and enriched grains and cereals.
- + Low amounts result in Dry skin, cracked lips, Mouth ulcers, Inflammation of the lining of the mouth, inflammation of tongue, sore throat, red lips, Iron deficiency aner
- High amounts result in Diarrhea, increased urination, yellow orange color urine

4. NIACIN (vitamin B3, nicotinic acid)

- Benefits Helps convert food into energy. Essential for healthy skin, blood cells, brain, and nervous system
- Recommended Amount Men- 16 mg / Women-14 mg
- Good food Sources Meat, poultry, fish, fortified and whole grains, mushrooms, potatoes, peanut butter
- Low amounts result in Pellagra disease, indigestion, fatigue, canker sores, headaches, inflammation of skin, memory loss High amounts result in Liver problems, gout, ulcers of the digestive tract, loss of vision, high blood sugar, irregular heartbeats
- 5. PANTOTHENICACID (vitamin B5)

Benefits - Helps convert food into energy. Helps make lipids (fats),



- Low amounts result in Fatigue, vomiting, insomnia, depression, irritability, stomach pain, burning feet, upper respiratory infections
- High amounts result in Rapid heartbeats, itching, nausea vomiting, gout, abdominal pain, liver damage
- 6. PYRIDOXINE (vitamin B6, pyridoxal, pyridoxine, pyridoxau
- Benefits Aids in lowering homocysteine levels and may reduce the risk of heart disease, helps convert tryptophan to niacin and serotonin, a neurotransmitter that plays key roles in sleep, appetite, and moods. Helps make red blood cells. Influences cognitive abilities and immune function
- Recommended Amount 31-50 years old: Men-1.3 mg, Women-1.3 mg / 51+ years old: Men-1.7 mg, Women-1.5 mg
- Good food Sources Meat, fish, poultry, legumes, tofu and other soy products, potatoes, non-citrus fruits such as bananas and watermelon
- · Low amounts result in Peripheral neuropathy, pellagra like with seborrheic dermatitis, glossitis, depres

7. COBALAMIN (vitamin B12)

- · Benefits Aids in lowering he risk of heart disease. Assists in making new cells and breaking down some fatty acids and amino acids. Protects nerve cells and encourages their normal growth Helps make red blood cells and DNA
- Recommended Amount Men- 2.4 mcg / Women- 2.4 mcg
- Good food Sources Meat, poultry, fish, milk, cheese, eggs, fortified cereals, fortified soymilk
- . Low amounts result in Pale skin, weakness, sensations of pins needles, changes to mobility, mouth ulcers, breathlessness, disturbed vision, mood changes, high temperature
- · High amounts result in Liver diseases, myeloproliferative 8. Biotir

Benefits - Helps convert food into energy and synthesize glucose. Helps make and break down some fatty acids. Needed for healthy bones

- mended Amount Men- 30 mcg / Women- 30 mcg
- Good food Sources Many foods, including whole grains, organ meats, egg yolks, soybeans, and fish
- . Low amounts result in Thinn ng of hairs, loss of body hairs, rash around the eyes, nose, mouth, and anal area, pinkeye, high levels of acid in blood and urine, brittle nails
- High amounts result in Skin rashes, digestive upset, problems with sulin release, kidney problems, unhealthy hairs and nails 9. ASCORBIC ACID (vitamin C)

◆ Benefits - Foods rich in vitamin C may lower the risk for some Benchts - Foods rich in vitamin C may fower the risk for some cancers, including those of the mouth, oesophagus, stomach, and breast. Long-term use of supplemental vitamin C may protect against cataracts. Helps make collagen, a connective tissue that knits together wounds and supports blood vessel walls. Helps make the neurotransmitters serotonin and norepinephrine Acts as an antioxidant, neutralizing unstable molecules that can damage cells. Bolsters the immune system

- Recommended Amount Men- 90 mg / Women- 75 mg / Smokers-
- Good food Sources Fruits and fruit juices (especially citrus), potatoes, broccoli, bell peppers, spinach, strawberries, tomatoes, Brussels sprouts

माँ प्यारी माँ



हर पल तुने ही संभाला मुझको, सपनों की बनाई छावनी।

है तू ही संसार भी।। इस जग में जो हूं आयी माँ में,

त ही तो है अंबर मेरा.

ना उर है मुझे इस दुनिया का,

जो त है मेरे पास ही।।

Poetry



पलको से बहता आंसुओं का समंदर है नजरें फेरो तो हर तरफ मीत का मंजर है ये कैसी महामारी है खुदा - (२) जिसमें मानव ही दाल और मानव ही खंजर है.

> अपने ही घर में नजरबंद हो जाओ ना करो फिक्र तुम अपनी दुकानों की खुदा खुद गहरा दे रहा है बाहर - (२)

तुम बस सफाई रखी अपने मकानों की. फिक होती है उन जवानों की जो पूप भी सह रहे हैं. और कुछ तो दबा करो उन डॉक्टर्स की जो आप के दर्द को पी रहे हैं

बो पत्थर भी खुद से लड़े होंगे... जो डॉक्टर्स पे पड़े होंगे दावा मेरा नहीं है थे... उस खुदा का है - (२) फेकने बाते नर्क में सर झुकाए खड़े होंगे

हमें छोड़ो, माँ की कोख को भी उनपर पिकार है

- Low amounts result in Scurvy, severe mental illness, bright red hair follicles, spoon shaped fingernails with red spots or lines, easy bruising, slow wound healing, swollen joints, weak bones, poor immunity
- High amounts result in Nausea, vomiting, diarrhea, heartburn.

- Benefits Helps maintain normal blood levels of calcium and phosphorus, which strengthen bones. Helps form teeth and bones.
 Supplements can reduce the number of non-spinal fractures
- Recommended Amount 31-70: 15 mcg (600 IU) / 71+: 20 mcg (800 IU)
- Good food Sources Fortified milk or margarine, fortified cereals fatty fish
- Low amounts result in Getting sick or infected often, bone and back pain, depression, impaired wound healing, bone loss, hair loss, muscle
- High amounts result in Nausea, vomiting, weakness, frequent prination, bone pain, kidney problems like formation of calcium stones urination, bone pain, kidney problems like for H. ALPHA-TOCOPHEROL (vitamin E)
- Benefits Acts as an antioxidant, neutralizing unstable molecules that can damage cells. Protects vitamin A and certain lipids from damage. Diets rich in vitamin E may help prevent Alzheimer's disease.
- Recommended Amount Men-15 mg / Women 15 mg (15 mg equals about 22 IU from natural sources of vitamin E and 33 IU from synthetic vitamin E)
- Good food Sources Wide variety of foods, including vegetable oils, salad dressings and margarines made with vegetable oils, wheat germ, leafy green vegetables, whole grains, nuts
- · Low amounts result in Chronic pancreatitis, cholestasis, cystic is, Crohn's disease
- High amounts result in Risk of bleeding (by reducing the blood's ability to form clots after a cut or injury), bleeding in the brain 12. FOLIC ACID (vitamin B9, folate, folacin)

- Benefits Vital for new cell creation. Helps prevent brain and spine birth defects when taken early in pregnancy; should be taken regularly by all women of child-bearing age since women may not know they are pregnant in the first weeks of pregnancy. Can lower levels of bomocysteine and may reduce heart disease risk. May reduce risk for colon cancer. Offsets breast cancer risk among women who consume alcohol
- nended Amount Men- 400 meg / Women- 400 meg
- Good food Sources Fortified grains and cereals, asparagus, okra, spinach, turnip greens, broccoli, legumes like black-eyed peas and chickpeas, orange juice, tomato juice
- · Low amounts result in Fatigue, gray hairs, mouth sores, tongue swelling, growth problems
- igh amounts result in Bad taste in mouth, loss of appetite, nation, irritability

13. PHYLLOOUINONE, MENADIONE (vitamin K)

- · Benefits Activates proteins and calcium essential to blood clotting. May help prevent hip fractures
- Recommended Amount Men- 120 mcg / Wom
- Good food Sources Cabbage, liver, eggs, milk, spinach, broccoli, sprouts, kale, collards, and other green vegetables
- · Low amounts result in Excessive bleeding, insufficient dietary intake, inadequate absorption and decreased storage of the vitamins due to liver diseases
- High amounts result in Jaundice, hyper bilirubinemia, hemolytic