Table of Fat Soluble Vitamins

| Vitamin | Major Dietary Sources | Some Major Functions in the Body | Possible Symptoms of Deficiency or Extreme Excess |
|---------------------------|---|---|--|
| Fat-Soluble Vitamins | | | |
| Vitamin A (retinol) | Provitamin A (beta-carotene) in deep green and orange vegetables and fruits; retinol in dairy products | Component of visual pigments; needed for maintenance of epithelial tissues; antioxidant; helps prevent damage to lipids of cell membranes | Vision problems; dry, scaling skin Headache, irritability, vomiting, hair loss, blurred vision, liver and bone damage |
| Vitamin D | Dairy products, egg yolk (also made in human skin in presence of sunlight) | Aids in absorption and use of calcium and phosphorus; promotes bone growth | Rickets (bone deformities) in children, bone softening in adults Brain, cardiovascular, and kidney damage |
| Vitamin E (tocopherol) | Vegetable oils, nuts, seeds | Antioxidant; helps prevent damage to lipids of cell membranes | None well documented in humans; possibly anemia |
| Vitamin K (phylloquinone) | Green vegetables, tea (also made by colon bacteria) | Important in blood clotting | Defective blood clotting Liver damage and anemia |
| INULUUL | | | |

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