





IMPORTANCE OF VITAMINS

VITAMINS	FUNCTION
B1, B2, B3, B5, B 6, B7, B9, B12, C, K	COENZYME
B1, B2, B3, B5, B6, B7	METABOLISM OF ENERGY YIELDING NUTRIENTS
B 6, B 9, B12	RED BLOOD CELL SYNTHESIS
B6, B9, B12	AMINO ACID METABOLISM
B 7, B 5, B 3	FATTY ACID SYNTHESIS
С,Е	ANTIOXODENT PROTECTION
B1, B6, B12	NERVE TRANSMISSION
A, D	GENE EXPRESSION













































































DEFICIENCY OF NIACIN

- Pellagra: dermatitis
- Muscular weakness
- Anorexia
- Indigestion
- Skin eruptions
- Diarrhea























DEFICIENCY OF BIOTIN

- Skin rash
- Neurological disorders
- Impaired growth
- Hair loss
- Fatigue
- Muscle pain

























