Importance of Minerals

D.1 Human Nutrition

Why do we need minerals?

> Required in daily diet in small quantity

> Lacking minerals from a diet can cause deficiency diseases

Important for building strong bones and teeth, blood, skin, hair, nerve function, muscle and for metabolic processes

Calcium deficiency

- Calcium can stabilise blood pressure and build strong bones and teeth
- > Food rich in calcium: milk, cheese
- Increases the risk of developing diseases like osteoporosis and Hypocalcemia
- Consequences: bones (and nails) become brittle and fragile from loss of tissue, easy fracturing of bones, muscle cramps,

Iron Deficiency

> Iron is critical for producing hemoglobins
> Food rich in iron: red meat, beans

- > May cause anemia
 - Consequences: shortness of breath, chest pain, fatigue, headache, dizziness

Iodine Deficiency

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- > Food rich in Iodine: cranberries, strawberries
- > May cause iodine deficiency disorder (IDD)
 - Pregnant women with IDD may give birth to children with permanent brain damage
 - For children after birth, it may affect their mental development and impaired intelligence