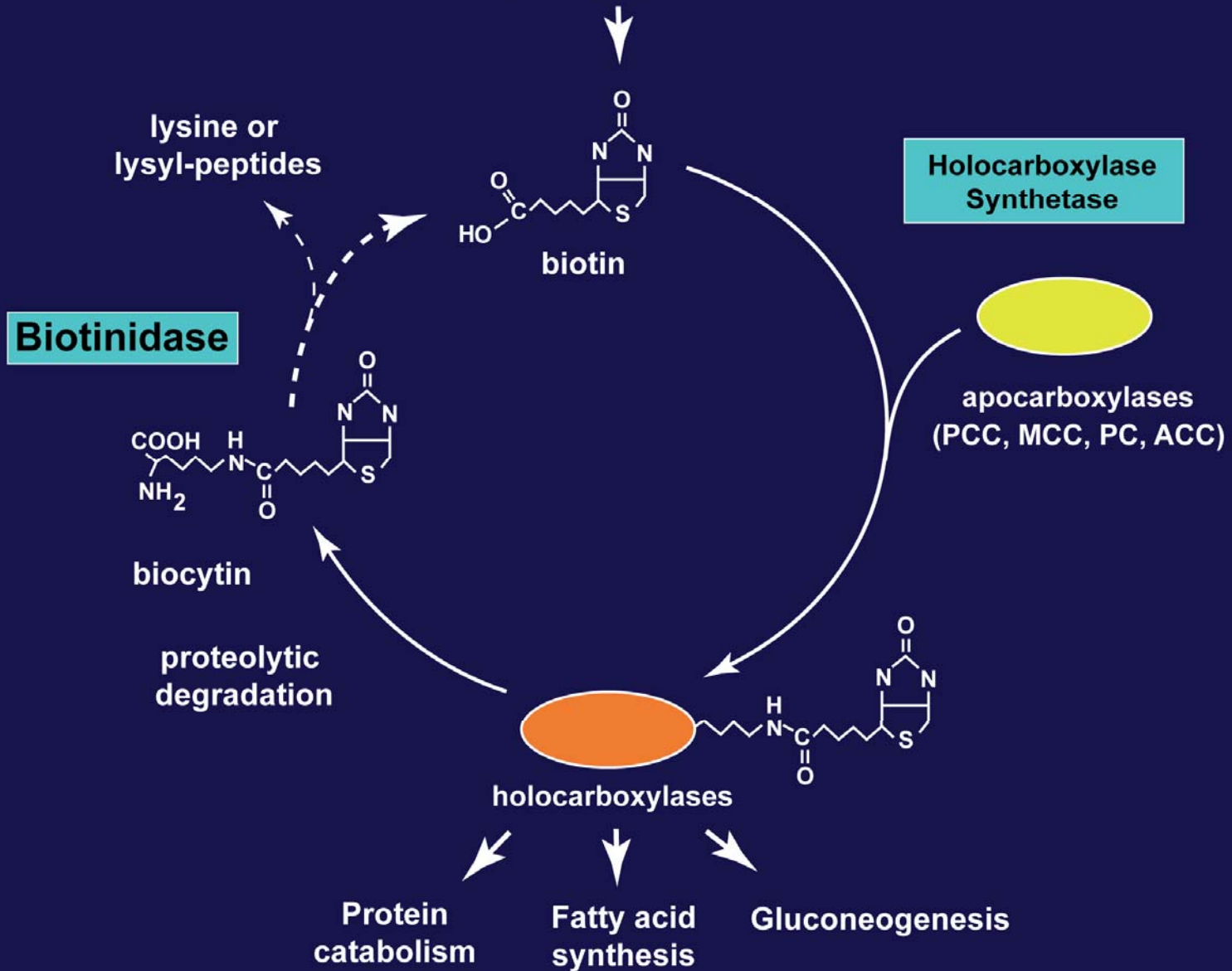


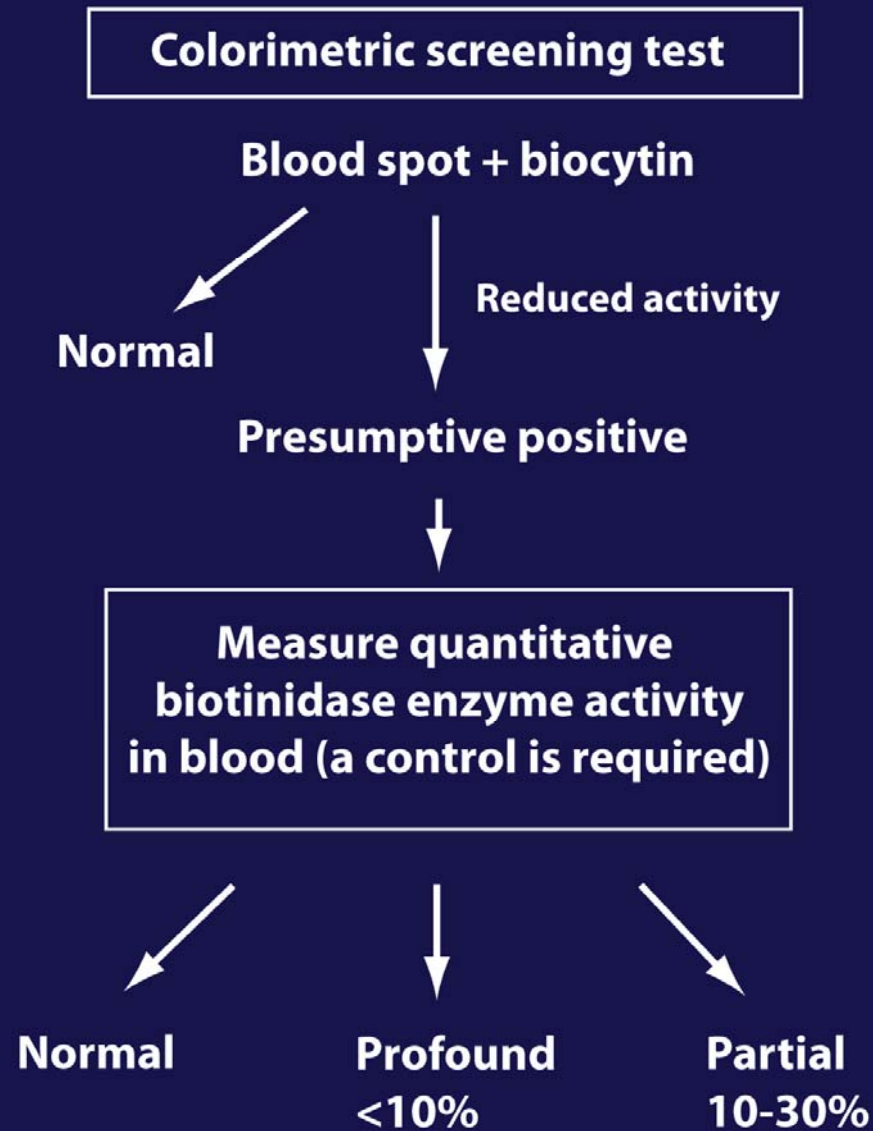
# Biotinidase Deficiency

- Impairment of:
  - Fatty acid and glucose synthesis
  - Amino acid catabolism
- Untreated: seizures, hypotonia, ataxia
- Two types:
  - Profound <10%
  - Partial 10% - 30%
- Incidence of 1/61,000 births
- Autosomal recessive
  - Parents are carriers
  - 25% recurrence risk

# Dietary supply of biotin



# Newborn Screening Approach



# Treatment

- **Profound deficiency**
  - 5-10 mg/day oral biotin supplement
- **Partial: controversial**
  - 5-10 mg/day biotin
  - Supplement with biotin only during illness or stress
- **Carriers do not need treatment**