Fatty Acid Oxidation Disorders

- Fatty acid oxidation disorders are a group of **inherited** (passed from parent to child) conditions that occur when the body is **unable to turn fat from food into energy**.

- Babies with fatty acid oxidation disorders may have vomiting, muscle weakness, and other health problems. Special diets and medications are available to prevent these health problems.

- Indiana's newborn screen tests for the following fatty acid oxidation disorders:
  - 2,3-Dienoyl-CoA reductase deficiency
  - Carnitine-acylcarnitine transferase deficiency (CAT)
  - Carnitine palmitoyltransferase deficiency I (CPT Type I)
  - Carnitine palmitoyltransferase deficiency II (CPT Type II)
  - Electron transfer flavoprotein (ETF) deficiency (Multiple acyl-CoA dehydrogenase deficiency
  - Electron transfer flavoprotein:QO deficiency
  - Medium chain acyl-CoA dehydrogenase deficiency (MCAD)
  - Primary carnitine deficiency (Carnitine uptake defect)
  - Short chain acyl-CoA dehydrogenase deficiency (SCAD)
  - Short chain hydroxyacyl-CoA dehydrogenase deficiency (SCHAD)
  - Trifunctional enzyme deficiency
  - Very long chain acyl-CoA dehydrogenase deficiency (VLCAD)
  - Very long chain hydroxyacyl-CoA dehydrogenase deficiency (VLCHAD)

- For more information about fatty acid oxidation disorders, please click on one of the links below.

  - Medline Plus Medical Encyclopedia

  - National Library of Medicine Genetics Home Reference

  - STAR-G (Screening, Technology, and Research in Genetics)