

# KENTUCKY NEWBORN SCREENING PROGRAM

## PARENT TEACHING SHEET

Kentucky Newborn Screening Program, 275 East Main Street, Frankfort, KY 40621, Phone (502) 564-3756, Fax (502) 564-1510

### **3-Methylglutaconic Aciduria (3MGA)**

#### **CAUSE**

3MGA is the name for a group of five different inherited conditions. All of these conditions affect the body's mitochondria, the part of a human cell that produces energy. The causes, symptoms, and treatment of the five different types of 3MGA vary. However, all types of 3MGA are classified as organic acid conditions because they can result in a build-up of harmful amounts of organic acids and toxins in the body.

#### **SYMPTOMS**

The signs of 3MGA differ depending on type but they all begin in utero or at birth. Because the harmful effects of untreated 3MGA can occur with days after birth, follow-up testing must be completed as soon as possible to determine whether or not your baby has the condition.

Children with 3MGA may develop:

- Delays in reaching developmental milestones (Such as speech or motor skills).
- Irregular, uncontrolled muscle movements
- Muscle spasms and weakness in the arms and legs
- Frequent infections
- Delayed growth
- Vision loss
- Enlarged weak heart

#### **TREATMENT OPTIONS**

The best way to care for your baby is to monitor your baby's heart for any cardiac complications by regularly visiting a cardiologist. A cardiologist can identify changes in your baby's heart and decide if any additional treatments are necessary. It is also important to immediately treat infections. Contact your child's doctor immediately at the start of any illness.

