

Elevated Organic Acid: C3 propionylcarnitine

Parent Fact Sheet

A newborn screening test is a **screen** and not diagnostic testing. An “abnormal” result on a newborn screen indicates the baby may be at a higher risk of having a disorder; however, it does not diagnose your baby with the condition. Many babies who receive abnormal results do not have the condition. Follow-up with your provider is **very important** to determine if your baby has the disorder indicated.

Disorder Indicated: Multiple Carboxylase Deficiency (MCD), Methylmalonic Acidemia due to Mutase Deficiency (MUT), Methylmalonic Acidemia Cbl A and Cbl B forms (Cbl A,B), and Propionic Acidemia (PROP) are multiple organic acid disorders that could be identified through the elevation of the organic acid C3. These disorders are conditions in which the body does not have sufficient enzymes to remove ammonia from the body. Ammonia is accumulated through the breakdown of protein or amino acids. If left untreated, these disorders could cause brain damage, coma, or death. However, if the conditions are detected early and treatment is begun, individuals can have healthy growth and development.

Incidence	Varies by disorder, average 1 in every 50,000 newborns.
Signs and Symptoms <i>Please note: these findings may not be present in young infants or in milder forms of the disease</i>	When a child has an organic acid disorder, you may see symptoms including: <ul style="list-style-type: none"> • Poor feeding/appetite • Vomiting • Hypotonia • Tiredness • Sleeping longer or more often • Difficulty breathing <p style="text-align: center;"><i>Symptoms can be triggered or exacerbated by periods of fasting, illness, or infections.</i></p>
Next Steps may include:	Follow up with your child’s pediatric provider Clinical assessment Laboratory Testing
Treatment (if indicated)	Restricted diet (follow up with your child’s pediatric provider)
Additional Resources	VDH Newborn Screening http://vdhlivewell.com/newbornscreening Baby’s First Test www.babysfirsttest.org Genetics Home Reference https://ghr.nlm.nih.gov/ Organic Acidemia Association http://www.oaanews.org/

Educational content adapted from www.babysfirsttest.org

