VDH VIRGINIA DEPARTMENT OF HEALTH

Division of Child and Family Health- Newborn Screening Follow-Up Program

Citrullinemia (CIT) / Argininosuccinic Aciduria (ASA)

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(s) Indicated: Citrullinemia (CIT) and Argininosuccinic Aciduria (ASA) 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. Ammonia is a very toxic product which can cause irreversible harm to the brain within hours.

If left untreated, CIT/ASA could cause brain damage, coma, or death. However, if the condition is detected early and treatment is begun, individuals can have healthy growth and development.

Incidence	CIT: 1 in every 57,000 newborns.	ASA: 1 in every 70,000 newborns.
Signs and Symptoms *Please note: these findings may not be present in young infants or in milder forms of the disease*	When a child has Citrullinemia, you may see symptoms including: • Sleeping longer or more often • Tiredness • Poor appetite • Vomiting • Seizures (epilepsy) • Irritability • Delayed growth.	When a child has Argininosuccinic Aciduria, you may see symptoms including: • Poor appetite • Sleeping longer or more often • Tiredness • Irritability • Vomiting • Trouble breathing • Seizures (epilepsy) • Involuntary body movements • Delayed growth
	Symptoms can be triggered or exacerbated by periods of fasting, illness, or infections	
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/* National Urea Cycle Disorders Foundation *http://www.nucdf.org/*	

Educational content adapted from www.babysfirsttest.org

Virginia Newborn Screening Services
Keeping Virginia's Babies Healthy – One Foot at a Time

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