# act Sheet **Positive Result:**

**Blood Spot Screen Result Notification** 



# Absent/Reduced Galactose-1-Phosphate Uridyltransferase (GALT)

#### **Next Steps**

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Today, you should take the following recommended actions:

- **Consult** with a metabolic specialist. Contact information for the metabolic specialists can be found on the resource list provided.
- Contact family to notify them of the newborn screening result and assess symptoms.
- Evaluate infant (jaundice, abnormal bleeding); arrange immediate referral if symptomatic.
- Arrange referral to a metabolic specialist for further diagnostic work-up.

If you have questions about the newborn screening result or your next steps, an on-call Newborn Screening Program genetic counselor is available at (651) 201-3548.

## **Review with Family**

Discuss this result with the family as MDH has **not** notified them. Share the follow-up plan with them. Educate family about signs, symptoms, and need for urgent treatment. If advised by metabolic specialist, stop breast or milk-based formula feedings immediately and initiate non-lactose (soy formula) feedings.

## **False Positives**

Screening result can be impacted by transfusion and environmental factors such as heat and humidity.

#### **Differential Diagnosis**

Absent/reduced GALT is primarily associated with:

Classic galactosemia — Incidence of 1 in 50,000

Other disorders to consider:

- Duarte galactosemia (milder variant)
- Glucose-6-phosphate dehydrogenase deficiency (G6PD)

## Clinical Summary

Classic galactosemia is a disorder of galactose metabolism. It is caused by a deficiency in the enzyme, GALT. As a result of this deficiency, consumption of food containing lactose or galactose (including breast milk) causes toxicity.

An affected neonate can develop life-threatening complications within a few days of life. Complications include poor feeding, lethargy, jaundice, vomiting, and abnormal bleeding. Other serious complications include liver disease and *E. coli* sepsis, which can be fatal. Concern is heightened if the neonate has nonresolving hyperbilirubinemia.

Treatment for classic galactosemia requires the immediate and life-long exclusion of lactose and galactose from the diet. In infancy, this is often accomplished by switching to a soy-based formula. If treated early, liver failure, sepsis, and neonatal death are prevented. However, affected individuals remain at increased risk for developmental delays, speech problems, and abnormalities of motor function.

DEPARTMENT OF HEALTH

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