act Sheet **Positive Result:**

Blood Spot Screen Result Notification

Minnesota Newborn Screening Program



Next Steps

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This week, you should take the following recommended actions:

- Consult with a CF specialist. Contact information for accredited CF centers can be found on the resource list provided.
- Contact family to notify them of the newborn screening result and assess symptoms.
- Evaluate infant (poor weight gain, absent stooling, abdominal pain, voracious appetite); arrange immediate referral if symptomatic.
- Arrange sweat testing as recommended by the CF specialist.

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.

False Positives

Unlikely since two variants were found on screening.

Differential Diagnosis

An elevated IRT with two CFTR variants (at least one of varying clinical consequence) is primarily associated with:

- CFTR-related metabolic syndrome (CRMS)
- Cystic fibrosis Incidence of 1 in 3,500

Clinical Summary

CF is an autosomal recessive disorder caused by specific cystic fibrosis transmembrane conductance regulator (CFTR) gene variants.

CFTR variants found by newborn screening can either be CF-causing variants or variants of varying clinical consequence.

Individuals with two CFTR variants where one or both are of varying clinical consequence can have CFTRrelated metabolic syndrome (CRMS) or cystic fibrosis.

Children with cystic fibrosis experience poor weight gain, absent stooling, abdominal pain, and need medical intervention as soon as possible.

However, this result is most often associated with CRMS. Individuals with CRMS have less severe CF symptoms, including mild respiratory problems, sinusitis, pancreatitis, or infertility. Many individuals are completely asymptomatic. Children with CRMS should have regular check-ups at a CF Center to monitor symptom development.



Newborn Screening Program, 601 Robert St. N., St. Paul, MN 55155 Phone (800) 664-7772, Fax (651) 215-6285

