

Provider and Family Fact Sheets: What Do Healthcare Providers Really Need?

PROBLEM IDENTIFIED

Upon the notification of an abnormal newborn screening result, the Minnesota Department of Health Newborn Screening Program faxes both a provider and family fact sheet to the child's primary care provider (PCP). However, we are unaware if the child's PCP actually receives or uses the fact sheets. Additionally, when the fact sheets were first created, assumptions were made regarding what information providers and families would find useful.

GOAL

We sought to better understand PCP usage of the fact sheets and the content they found important, with the goal of revising these fact sheets to better serve the needs of our PCPs.

METHOD

We developed an electronic survey to email to PCPs. Providers who had a patient with a positive newborn screening result in the past six months were invited to participate in the survey. These PCPs consisted of MDs, DOs, and NPs. Provider emails were obtained from the Minnesota Board of Medical Practice and Board of Nursing. As a reminder to the survey participants, the survey included examples of our current provider and family fact sheets. We chose to use our cystic fibrosis fact sheet since it accounted for the majority of the results these providers had experienced. The survey was opened on June 10, 2016 and closed on July 15, 2016.

QUICK FACTS

The survey was emailed to **103** primary care providers and **20** completed the survey (**19.4%**) response rate). Respondents had been practicing for a median of **16** years.

15 respondents recalled receiving the provider fact sheet and **100%** found it useful overall.

For the family fact sheet, **17** respondents recalled receiving it, 8 actually provided it to the family, 2 did not provide it, and 7 could not recall.

18 respondents preferred to receive the fact sheets by fax (even when offered the option of integration into their EMR system).

When asked if they'd prefer the American College of Medical Genetics ACTion (ACT) Sheets, 15 indicated they were unfamiliar with them.

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WHAT DID WE LEARN?



NEXT STEPS

Very Important or Important

Somewhat or Not Important



OF NOTE:

No major changes to the following elements: clinical summary, treatment, and expected outcomes as it confirmed their utility.

The majority of surveyed providers felt they did not need a reminder of what newborn screening is in order to help them in their discussion with the family.

60%









expected outcomes, and





BEYOND THE SURVEY

While revising the fact sheets, MDH genetic counselors identified other opportunities for change detailed below and included those in the revisions.

Historically, we did not have a fact sheet for every possible result; only the most common ones. Some of our fact sheets were multi-purposed, for example, a sickle cell disease fact sheet was used anytime S hemoglobin was present in a disease state.

Another example of this is a positive cystic fibrosis result, the same fact sheet was utilized even when the number of mutations and follow-up timeline were not the same. In reality, the follow-up on a one mutation result is very different than a two mutation result. Additionally, the implications of a one mutation result can be very different depending on the immunoreactive trypsinogen level. Thus, we developed fact sheets that better suited the result and the message conveyed to the provider with regards to clinical expectations and how quickly to follow-up on the result.



Browing Positive Result: Blood Spot Screen Result Notification Elevated Immunoreactive Trypsinogen (IRT) and 1 CFTR Mutation Identified *The Minnesota Newborn Screening Progra only screens for a panel of the most commo Positive Result: munoreactive Trypsinogen (IRT) ≥100 ng/mL and 1 *CFTR* Mutation Identified nsult with cystic fibrosis (CF) specialist. ntact information for accredited CF centers a be found on the resource list provided ntact family to notify them of the newborn eening 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 CF ave questions about the newborn screening r your next steps, an on-call Newborn ing Program genetic counselor is available a **Review with Family** Discuss this result with the family as MDH has **not** notified them. Share your follow-up plan with them Since newborn screening only tests for certain mutations, explain the importance of pursuing a sweat chloride test to confirm or rule out a diagnos Educate family about signs, symptoms, and when urgent treatment may be needed.

*The Minnesota Newborn Screening Program only screens for a panel of the most common C mutations.

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In addition to this change, we restructured the fact sheets in a more meaningful way. The biggest change was switching the title of the fact sheet from disorder-based to analyte-based. Having an analyte-based fact sheet allows for a discussion of potential differentials and in turn reinforces the fact that this is a screening result and not diagnostic.

False Positives

Most infants with only one CFTR mutation found screening are unaffected carriers.

Last, while re-writing the content for the family fact sheet, we were mindful to use plain language as much as possible for ease of understanding.