

# NEW HAMPSHIRE NEWBORN SCREENING PROGRAM

## Your Baby Has Hemoglobin Variant Trait *For Parents*

All infants born in New Hampshire are screened for a panel of conditions at birth. A small amount of blood was collected from your baby's heel and sent to the laboratory for testing. One of the tests looked at the hemoglobin in your baby's blood.

Your baby's test found that your baby has hemoglobin variant trait. There are more than 500 types of hemoglobin. A hemoglobin variant is when the newborn screening test has found a hemoglobin type that the test cannot identify. **Hemoglobin variant trait is common and does not cause health problems. Hemoglobin variant trait will never develop to disease.**

### What is hemoglobin?

Hemoglobin is the part of the blood that carries oxygen to all parts of the body. There are different types of hemoglobin. The type of hemoglobin we have is determined from genes that we inherit from our parents. Genes are the instructions for how our body develops and functions. We have two copies of each gene; one copy is inherited from our mother and one copy is inherited from our father.

### What is hemoglobin variant trait?

The normal, and most common, type of hemoglobin is called hemoglobin A. Hemoglobin variant trait is when a baby inherited one gene for hemoglobin A from one parent and one gene for a hemoglobin variant from the other parent. People with hemoglobin variant trait are not sick.

### Why do I need to know my baby has hemoglobin variant trait?

This information can be important for family members that are planning to have children. There are many different types of hemoglobin. Some hemoglobin types can cause a more serious disease. It is possible that future children in your family or other family members may be at risk for a hemoglobin disease.

### What do I do now?

You and your partner may want to consider blood tests to look at your hemoglobin type. This testing would help to provide you with information about your chances to have a future child with a hemoglobin disease. If you are interested in seeing a genetic counselor, your baby's pediatrician can help schedule the appointment for you.

It is also important for your baby to know that he/she has hemoglobin variant trait when he/she is older and wants to have children. His/her partner may want to have testing to find out more about their chances to have a child with a hemoglobin disease.

*We also recommend that you share this information with the rest of the family.  
They also may be interested in having their blood tested.*