Sample retention and privacy protection

Personal information collected during the screening process, and blood and urine samples, are kept strictly confidential. Some personal information may be shared with healthcare professionals so that they can provide the child with the necessary care or for quality assurance purposes. Samples yielding normal test results are kept for five years by the laboratory that conducted the tests. Samples yielding abnormal results are kept for a longer time.

For information on the tests

Blood screening

CHU de Québec - Université Laval 1855654-2103 (toll free)

Urine screening

CIUSSS Estrie-Centre hospitalier universitaire de Sherbrooke 1855 905-5253 (toll free)

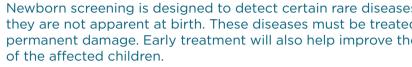
For more information

Talk to your health professional or go to Québec.ca/screening

Newborn

blood and urine

screening



Blood and urine screening tests are available to all newborns

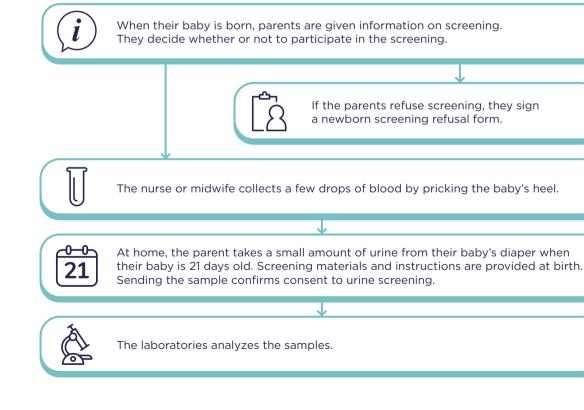
Newborn screening is recommended but voluntary.

If you are unsure about blood screening, talk to your healthcare professional.

Screening tests

Two simple and safe tests are required for full screening. A blo help detect different diseases. These two tests are complement

The screening process includes the following steps:





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If the parents refuse screening, they sign a newborn screening refusal form.

Screened diseases

Between the months of October and December 2023, screening for spinal muscular atrophy and severe combined immunodeficiency will be gradually introduced into the program. By participating in the Program during this period, your child **could be screened** for these two conditions. The healthcare professional who will collect the blood sample will inform you if screening has started at the center where you gave birth.

Newborn screening is designed to detect rare diseases. If left untreated, these diseases prevent the body from functioning normally and may lead to significant organ, including the brain. Some may even be life-threatening.

Metabolic diseases:

These diseases prevent the normal use of fats, alucose or proteins provided by food and cause toxic waste to build up in the body. These diseases can lead to problems affecting the brain. liver or heart, and can threaten the child's life.

Congenital hypothyroidism:

This disease prevents hormones from functioning normally and causes slow growth or intellectual disabilities.

Hemoglobin diseases:

These diseases cause abnormally shaped red blood cells and prevent normal blood flow. This may lead to pain crises and a greater risk for infection.

Cystic fibrosis:

This disease produces thick, sticky secretions that prevent the lungs and pancreas from functioning normally. This can cause repeated infections and poor food absorption, which slows the child's arowth.

Spinal muscular atrophy:

This disease affects the nerve cells that control voluntary muscle movement, hindering the child's ability to hold up their head, sit, walk, eat, and eventually to breathe. This disease can be lifethreatening.

Severe combined immunodeficiency (SCID):

This disease affects the immune system, which is responsible for defending the body against infections. The body is unable to effectively fight off germs (bacteria, viruses and fungi), which can be life-threatening.

Test results

No news is good news!

Newborn screening is designed to detect rare diseases. Most newborn screening test results are normal. In this case, you will not be contacted.

You may be contacted if another sample is required because the first was not usable or the results need to be double-checked. There is no need to worry; just follow the instructions that you are given to collect a new sample right away.

If your child's test results indicate they may have one of the screened diseases, you will be contacted within a few weeks. You will be quickly referred to a specialist for further testing. If these test results confirm that your child has the disease, they will receive the care they need.

Sometimes, a disease not targeted by the screening is found in a child. If this happens, the child will be referred to the right resource for medical care.

Care and treatments

Early screening for these diseases ensures that newborns receive treatment soon after birth. While these treatments do not generally cure the disease. they improve the health and quality of life of most of the affected children.

These treatments may include:

- a special diet:
- medications or vitamins:
- a specific therapy for the identified disease;
- specialized medical care.

To obtain this information, fill out the form available on the website Québec.ca/sickle-cell-anemia You can also request the information from your doctor.

Screening limitations and drawbacks

While highly effective, screening does have its limitations. Although rare, the following situations may occur:

• Treatment may be started as a preventive measure, pending the results of further testing. If the tests show that your child does not have the disease, the treatment will be stopped:

• The diagnosis may be difficult to confirm and doctors may need to see your child several times to conduct other tests before confirming whether or not they have the disease:

• Your child may still experience some effects of the disease despite the screening and the treatment offered.

• Your child may have one of the screened diseases but it may not be detected during screening.

Furthermore, the screening process may cause you to worry about your child's health. Throughout the screening process, the care team will be there to answer your questions and offer you any support you may need.

Carriers of faulty genes associated with certain diseases

For hemoglobin diseases (such as sickle cell anemia), information about your child's carrier status is available upon request. Carriers are not sick and are not at risk of developing the disease.