Sema4 Elements™

Meaningful insight into your baby's health

Sema4 Noninvasive Prenatal Select is a simple blood test that can detect chromosomal abnormalities as early as 9 weeks into pregnancy.

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What is noninvasive prenatal testing?

NIPT (or noninvasive prenatal testing) is a blood test offered during pregnancy.

It screens for genetic conditions caused by abnormalities in a developing baby's chromosomes. NIPT analyzes fragments of fetal DNA (called cell-free DNA) found in the mother's blood using advanced DNA sequencing technology. This test can help you learn more about your chance of having a child with a chromosomal abnormality, such as Down syndrome.

What is a chromosomal abnormality?

Genetic material is organized into structures called chromosomes. Most babies have 46 chromosomes that come in 23 pairs – half are inherited from the mother and half from the father.

The first 22 pairs of chromosomes are referred to as autosomes. The last pair of chromosomes are referred to as the sex chromosomes and will differ in males and females. Females typically have two copies of a chromosome called the X chromosome (XX), while males typically have an X chromosome and a Y chromosome (XY).

In rare cases, a baby will have an extra or missing chromosome or part of a chromosome. An extra chromosome is referred to as a trisomy. A missing chromosome is referred to as a monosomy. This usually happens randomly at the time of conception. Missing or extra chromosomal material can lead to pregnancy loss or genetic conditions associated with physical or intellectual disabilities.

What tests can detect chromosomal abnormalities?

There are two ways that chromosomal abnormalities can be detected during pregnancy – screening tests and diagnostic tests.

- **Screening tests,** like Sema4 Noninvasive Prenatal Select, can help you understand whether there is an increased risk that your baby has a certain chromosomal abnormality. Screening tests are available as early as 9 weeks into pregnancy and typically are noninvasive, meaning they should not pose any risk to your pregnancy. This type of test will not give you a definitive 'yes' or 'no' answer
- **Diagnostic tests** with amniocentesis or chorionic villus sampling (CVS) can detect whether your baby has a certain chromosomal abnormality. While these types of tests offer more definitive answers, they are invasive procedures that are also associated with a small risk of miscarriage

Because of the small risk associated with diagnostic tests, some women prefer to start with a screening test, such as Sema4 Noninvasive Prenatal Select. If the results of a screening test show an increased risk of a chromosomal abnormality, genetic counseling is recommended. Your healthcare provider may also recommend diagnostic testing to confirm the result. Not all women who screen positive will have an affected child.

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The information you need to decide what comes next

Because there is a small risk associated with diagnostic tests, some women prefer to start with a noninvasive screening test first.

The results of Sema4 Noninvasive Prenatal Select can help inform decisions about diagnostic testing. If this screening shows an increased risk of a chromosomal abnormality, amniocentesis or chorionic villi sampling (CVS) may be recommended to confirm the result.

Meaningful insight into your baby's health as early as 9 weeks into pregnancy

Noninvasive Prenatal Select screens for chromosomal abnormalities associated with common genetic conditions, such as Down syndrome. In addition, it may also test for other chromosomal abnormalities. To view a full list of conditions this test screens for, please visit **sema4.com/PrenatalSelect.**

Noninvasive
Only a simple blood draw is required for testing, so it's safer for you and your baby

Accurate
Noninvasive Prenatal Select detects the most common chromosomal abnormalities with >99% accuracy

Personalized
Understand your unique risk, based on your age and your pregnancy

Fast
Get answers in about one week

How does it work?

To get started, talk to your healthcare provider about ordering Noninvasive Prenatal Select.

Your blood will be drawn and sent to our lab for analysis.

Check your email for an invitation to create a Sema4 account. With a Sema4 account you can track the status of your test, watch educational videos and view your results.

We analyze your DNA sample using state-of-the-art sequencing technologies. This usually takes about one week from the time your sample arrives at our lab.

Once testing is complete, your healthcare provider or a genetic counselor from Sema4 may contact you to explain your results and answer any questions you have. You can access your results at any time through your Sema4 account.

To learn more about Noninvasive Prenatal Select, please visit **sema4.com/PrenatalSelect**.

Track your test, view your results, and more with a Sema4 account

Track your tests

Easily keep track of the status of your test through your Sema4 account. From the moment your sample is received to when your results are ready, you'll be in the know.

Watch educational videos

Interested in learning more about what your results may mean for you and your pregnancy? Your Sema4 account has educational videos that can help you understand testing with Noninvasive Prenatal Select.

Discover the sex of your baby

If you opt to learn the sex of your baby, we want that milestone to be memorable for you. We've created a special video to deliver the exciting news!

View your results

Get direct access to your health information. When your results are ready, simply log into your account to view and download your report.

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Billing and insurance

Noninvasive prenatal testing is covered by most insurance plans, however, copays, co-insurance, and/or deductibles may vary by health plan.

To determine what your out-of-pocket expenses may be, please contact our billing specialists at **800-298-6470** or your insurance provider by calling the number on the back of your insurance card.

If you need help covering the cost of Sema4 Noninvasive Prenatal Select, please contact our billing specialists to learn more about our financial assistance options and payment plans.

Sema4 Elements™ offers a portfolio of information-driven genomic solutions, digital tools for patients and providers, and services that enable providers to treat patients holistically during their reproductive and generational health journey.

Learn more at **sema4.com/Elements**

A negative test result does not ensure an unaffected pregnancy. Sema4 Noninvasive Prenatal Select is only intended to screen for specific chromosomal abnormalities.

Noninvasive Prenatal Select is a screening test that comes with a risk of false positives. All positive results should be confirmed by chorionic villus sampling (CVS) or amniocentesis. Pregnancy management decisions should not be based on the results of cell-free DNA screening alone.

If test results are not reported, inconclusive, or can't be interpreted, patients should receive genetic counseling and be offered further evaluation and diagnostic testing.

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