

QNatal™ Advanced

Noninvasive Prenatal Screening

Noninvasive prenatal
screen for pregnancy



Information for your peace of mind.

Your pregnancy should be a joyous event. However, if your physician has determined any risk to your pregnancy due to your age or other factors, it's natural to have concerns. By providing timely information about your fetus' chromosomal makeup, prenatal testing can help you make decisions with your healthcare provider about your health and the health of your family.

What is QNatal™ Advanced Noninvasive Prenatal Screening?

The QNatal Advanced prenatal screen is a noninvasive test that provides a high degree of accuracy for screening certain chromosomal abnormalities, without the risk of miscarriage associated with an invasive procedure. Since your fetus' genetic information is present in your blood, the test can be performed with a simple blood draw as early as 10 weeks into your pregnancy. Results are reported simply as a positive or negative for certain abnormalities. About 97% of women have a normal test result.

What are chromosomes and chromosomal abnormalities?

Chromosomes are structures inside cells. They contain genes passed down from a person's father and mother. These genes tell the body how to grow and develop. They also determine sex. Females typically have two X chromosomes. Males have one X and one Y chromosome. Most people have 23 pairs of chromosomes. Some people are born with an extra or missing chromosome. They have a chromosomal abnormality. Having an extra chromosome (called a trisomy) can cause a birth defect. Having an extra or missing X chromosome can also cause a birth defect. Some chromosomal abnormalities are passed down from the parents. Some result from an error when the chromosomal pairs are split up. Certain factors can increase the chance of a chromosomal abnormality in your fetus, for example, if you are 35 or older.

Which disorders can be detected by QNatal Advanced?

The test can detect the conditions described below. Other conditions can be detected too, but they are much rarer.

Down syndrome (trisomy 21) is caused by an extra copy of chromosome number 21. Babies with Down syndrome have a distinct physical appearance and mild to moderate intellectual disability. They also have an increased chance of other health problems, such as heart defects.

About 1 in every 700 babies is born with Down syndrome.

Edwards syndrome (trisomy 18) is caused by an extra copy of chromosome number 18. Babies with Edwards syndrome have severe intellectual disability. They often have other birth defects. Many babies don't survive past the first few months of life.

About 1 in every 6,000 babies is born with Edwards syndrome.

Patau syndrome (trisomy 13) is caused by an extra copy of chromosome number 13. It is similar to Edwards syndrome in the amount and severity of birth defects.

About 1 in every 7,000 to 1 in every 33,000 babies is born with Patau syndrome.

Turner syndrome (or monosomy X) is caused by the loss of an X chromosome. It only occurs in girls. Girls with Turner syndrome are usually shorter than average. Some have other birth defects. Most cannot have babies of their own when they grow up.

About 1 in every 2,500 girls is born with Turner syndrome.

Klinefelter syndrome (XXY) is caused by two X chromosomes and one Y. It occurs only in boys. Boys with Klinefelter syndrome are usually taller than average. Some have other birth defects. Many cannot father children of their own when they grow up.

As many as 1 in 500 boys is born with Klinefelter syndrome.

Triple X and XYY syndromes are both caused by an extra chromosome. Children are usually taller than average. They may have learning or behavioral problems.

About 1 in every 1,000 girls is born with Triple X syndrome; about 1 in every 1,000 boys is born with XYY syndrome.

Why would my doctor order this test?

Most often, QNatal Advanced is ordered for pregnant women who are considered high risk and have a higher chance of having a baby with one of these conditions. They include women who:

- Are 35 years or older at time of delivery
- Have had an abnormal ultrasound
- Have had a previous pregnancy with, or a family history of, one of these conditions
- Have a positive maternal serum screening test

Your doctor may also recommend this screening as a choice for you to consider for an early, highly accurate, reliable result as noninvasive prenatal screening provides greater accuracy than traditional maternal serum screening.

The test can be used for women who are carrying more than one fetus (e.g., twins or triplets). The test cannot tell which fetus is affected. Women who used another woman's egg to get pregnant can also be tested.

How and when can I get this screening test?

Talk with your doctor about the QNatal Advanced screen. Once your doctor orders this screening test, you can take the test as early as your 10th week of pregnancy. You can have your blood collected at your doctor's office or a Quest Diagnostics Patient Service Center.

Is this the only screening test I need?

This test is very accurate; however, a screening test is not diagnostic. That is why, if your result is positive, your doctor will want to follow up with further testing to confirm the result. In addition, your doctor will also order additional screening tests for conditions that can affect spinal cord development. If your result is negative, it does not guarantee the birth of a healthy baby.



QNatal Advanced: a good choice for many reasons.

Featuring the latest technology, the QNatal Advanced screen is a low-risk way to learn more about the health of your fetus and the risk of certain birth defects.

- **Safe**—A noninvasive screening test based on a maternal blood draw
- **Accurate**—Reports on a full range of identified chromosomal abnormalities
- **Timely**—Can be performed as early as week 10 of your pregnancy
- **Trusted**—Developed and performed by Quest Diagnostics, a leader in genetic testing

Ask your doctor about QNatal Advanced



Quality you can trust from Quest Diagnostics—a leader in genetic testing.

We help moms plan for the future. We do this by delivering timely, accurate test information. Since the 1970s, we've been providing state-of-the-art genetic tests. Doctors and patients look to Quest today for a wide range of testing options, spanning more than 700 genetic tests.

What if I need financial assistance?

Quest Diagnostics offers a financial assistance program for those who need help with noninvasive prenatal screening. Patients that meet income requirements, based on the federal poverty level, may apply for financial assistance. For those patients who fall at or below the federal poverty level, testing is free. For those who fall between 100% and 400%, the maximum out-of-pocket charge is \$200. This program is available to all patients, regardless of whether or not they have insurance coverage.

The application for financial assistance can be found at **QuestDiagnostics.com/financialassistance**. The form should be completed and mailed to the address listed on your invoice, or you may call the Customer Service phone number listed on your invoice.

Ask your doctor about prenatal testing from Quest Diagnostics or visit **QuestDiagnostics.com/prenataltest**.

Other helpful resources

March of Dimes—**marchofdimes.com**

National Down Syndrome Society—**ndss.org**

Support Organization for Trisomy (SOFT)—**trisomy.org**

Trisomy 18 Foundation (Edwards Syndrome)—**trisomy18.org**

QNatal Advanced noninvasive prenatal screen is a laboratory-developed test, developed and performed exclusively by Quest Diagnostics. It has not been cleared or approved by the U.S. Food and Drug Administration (FDA). Although laboratory-developed tests to date have not been subject to U.S. FDA regulation, certification of the laboratory is required under CLIA to ensure the quality and validity of the tests. QNatal Advanced is performed exclusively by Quest Diagnostics.

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