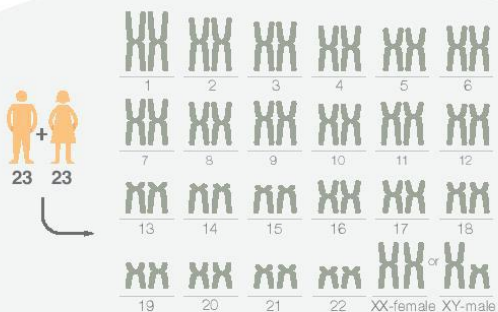


WHAT ARE CHROMOSOMES?

Chromosomes are packages of genetic material which are the instructions for how a baby develops. Most healthy people have 46 chromosomes that are in 23 pairs. The first 22 pairs are the same in men and women, and the last pair determine the sex of the baby.



HOW DO CHROMOSOME ABNORMALITIES AFFECT THE HEALTH OF A BABY?

Sometimes a baby can have too many or too few chromosomes called "aneuploidies" which can cause health and learning problems in a baby. Three copies of a chromosome, instead of two, is known as a "trisomy"; one copy of a chromosome is known as "monosomy". Some of the most common chromosome aneuploidies that you may have previously heard of are trisomy 21, 18 and 13.



Trisomy 21

Down syndrome

- Mild/moderate mental retardation
- Risk of birth defects such as heart defects



Trisomy 18

Edwards syndrome

- Severe mental retardation
- Risk of multiple birth defects



Trisomy 13

Patau syndrome

- Severe mental retardation
- Risk of multiple birth defects

For more information about these conditions, visit www.asia-genomics.com



Singapore Diagnostics

4F Sterling Centre, 131 Dela Rosa cor. Ormaza Sts.,
Legaspi Village, Makati City 1229

Home service available!

Phone: (+632) 845- 0655
Mobile: (+63) 917-566-4137

Email: customercare@singaporediagnostics.com

www.singaporediagnostics.com

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DCT:

VERIFI[®] PRENATAL TEST

What you need to know



verifi[™]
prenatal test



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WHAT IS THE VERIFI® PRENATAL TEST?

Verifi® is a Non-invasive prenatal test (NIPT) which screens for some of the most common chromosome aneuploidies that can affect the health and development of your baby. The test can be done as early as 10 weeks, and does not have the risk of invasive testing options. It only requires one blood sample drawn from the mother. This blood sample contains cell free DNA from both mother and baby, which our advanced technology can analyze to determine if there are any abnormal changes, such as too many or too few of these chromosomes in your baby.

WHY AM I BEING OFFERED PRENATAL SCREENING OR TESTING?

Common reasons women are offered prenatal screening or testing include if you fit any of the following:

- Considered advanced maternal age (35 years or older for a single pregnancy; 32 years or older for a twin pregnancy)
- Had another abnormal prenatal screen
- A concern or abnormality was found on ultrasound
- Have a personal or family history of chromosome trisomy 21, 18, 13 or sex chromosome abnormality

HOW IS THE TEST DONE?

Verifi® Prenatal Test is a blood test. Your doctor collects one tube of blood from the mother, and ships it to our laboratory. Your doctor usually receives the results within 2 weeks.



WHAT ARE THE ADVANTAGES OF NIPT OVER OTHER TESTING OPTIONS?



Non-invasive and does not put the pregnancy at risk



One simple blood draw from the mother



Can be done as early as 10 weeks into the pregnancy

WHAT DOES NIPT TEST FOR?

You can choose how much information you learn from the testing. Below are the testing options you can choose:

Testing option	What this option tests for	Availability
<input type="checkbox"/> Common Aneuploidies	Monosomy or trisomy of chromosomes 21, 18, 13 (also known as Down syndrome, Edwards syndrome, and Patau syndrome)	Singletons Twins
<input type="checkbox"/> Sex Chromosomes	Determines the sex of the baby and if there are too few or too many sex chromosomes (such as Turner syndrome or Klinefelter syndrome)	Singletons Y chromosome detection only for twin pregnancies
<input type="checkbox"/> Additional Aneuploidies	Trisomies 9 and 16	Singletons
<input type="checkbox"/> Microdeletion Panel	Common small chromosome deletions causing birth defects and learning difficulties: 22q11 deletion (DiGeorge); 15q11 deletion (Angelman/Prader-Willi); 1p36 deletion, 4p- (Wolf-Hirschhorn); 5p- (Cri-du-chat)	Singletons

WHAT CAN I EXPECT FROM MY NIPT RESULTS?

Your doctor will receive the results and discuss them with you. For each of the test options you choose, the report will include one of three possible results:

Aneuploidy detected

Too many or too few chromosomes

Aneuploidy suspected

Abnormal number of chromosomes but additional testing may be recommended

No aneuploidy detected

Normal number of chromosomes

HOW ACCURATE IS THE VERIFI® PRENATAL TEST?

Verifi® Prenatal Test can provide more accurate information about your baby, earlier and easier than other screening and testing options. However, there is always a small possibility of a false positive or false negative test. There may be additional testing options for your pregnancy or genetic counseling about the results available.

WHAT DOES NIPT NOT TEST FOR?

No test can completely guarantee the health of a baby. Currently NIPT cannot test for all possible chromosome and genetic problems, but it can give you important information about some of the most common problems with chromosomes. NIPT also cannot provide information about specific birth defects such as neural tube disorders (e.g spina bifida). Ultrasounds and maternal serum screening would be able to provide you with information about these conditions.

WHAT SHOULD I DO NEXT?

There are many different tests and screens available during pregnancy. It is important for you to decide what information you want to know about you and your baby, and consider how you would use this information.

If you are interested in the Verifi® Prenatal Test or have more questions about your options, speak with your doctor.

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