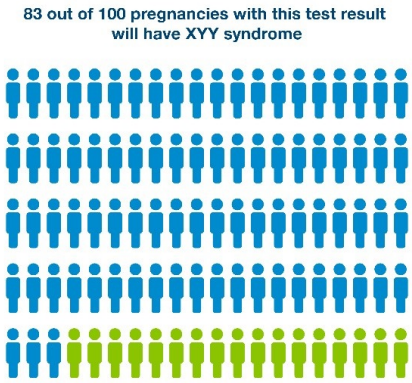
natera™ | Panorama™ Next-generation NIPT

# Understanding Your Results

## Suggestive of XYY syndrome

### What do my results mean?

Your results show that your pregnancy has a high risk for XYY syndrome (also known as Jacobs syndrome). **This result *does not mean* that your baby has XYY syndrome.** The chance that your baby has XYY syndrome is 83%, and that chance that your baby does not have XYY syndrome is 17%. To know for sure whether your baby has XYY syndrome, you would need to have additional testing. You should not make decisions about your pregnancy based only on this Panorama result, as it is not certain that your baby has XYY syndrome.

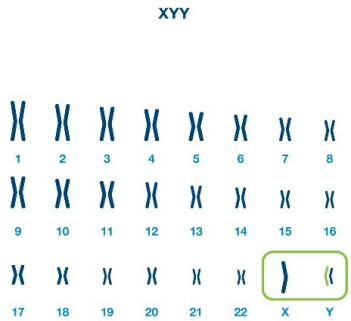



### What is XYY syndrome?

XYY syndrome is a genetic condition that about 1 in 1000 males are born with. People with XYY syndrome are usually born healthy and without birth defects. They are expected to live a normal lifespan and usually have normal intelligence. Some children with XYY syndrome have low muscle tone (hypotonia), learning problems, and behavioral or emotional problems. People with XYY syndrome can also have hand tremors, seizures, and physical differences, like a curved spine (scoliosis) or a large head (macrocephaly). Most people with XYY syndrome will be taller than average.[1]

### What causes XYY syndrome?

XYY syndrome usually happens by chance. Parents cannot cause XYY syndrome to happen by anything they do before or during a pregnancy. XYY syndrome happens when a person has an extra sex chromosome. Chromosomes are tiny structures inside our cells that hold our genes and genetic material. Most people have 46 chromosomes that come in 23 pairs in every cell of their bodies. Sex chromosomes are labeled either X or Y. Most people have two X chromosomes or one X and one Y chromosome. People with XYY syndrome have one X chromosome and two Y chromosomes.



## What can I do next?

You should talk to your healthcare provider about these results. They usually will refer you to a genetic counselor and/or a maternal-fetal medicine specialist to talk about your options for further testing.

If you want to find out if your baby has XYY syndrome during pregnancy, you can have a test called a CVS (chorionic villus sampling) or an amniocentesis. These tests are diagnostic and will tell you for sure if your baby has XYY syndrome or not. Both tests have a small risk of miscarriage.

If you do not want these tests during pregnancy, the baby can be tested after birth using blood from the umbilical cord. This testing is also diagnostic and will tell you for sure if your baby has XYY syndrome.

It is important to have diagnostic testing either during pregnancy or when the baby is born to know for sure if the baby has XYY syndrome. Changes to medical care and early intervention services can often improve the health and development of a child with XYY syndrome.

## Where can I find more information?

- The Focus Foundation thefocusfoundation.org
- Association for X and Y Chromosome Variations genetic.org
- MedlinePlus medlineplus.gov/genetics/condition/47xyy-syndrome
- CVS marchofdimes.org/find-support/topics/planning-baby/chorionic-villus-sampling
- Amniocentesis marchofdimes.org/find-support/topics/planning-baby/amniocentesis

**NEVA is always available to help you learn about your results. You can connect with Natera's Educational Virtual Assistant (NEVA) by logging into the patient portal at my.natera.com.**

If you would like to discuss your results with a Natera genetic counselor, you can schedule a free information session at naterasession.com, by texting SESSION to 636363, or by calling 1.877.476.4743. Please select **Panorama Non-Invasive Prenatal Chromosome Screening Post-Test** as the appointment type.

You can find a local genetic counselor through the National Society of Genetic Counselors at findageneticcounselor.nsgc.org.

1. MedlinePlus [Internet]. Bethesda (MD): National Library of Medicine (US); [updated 2022 Jan 19]. 47,XYY syndrome; [updated 2020 Sept 8; reviewed 2018 Nov 1; cited 2022 Jan 31]; [about 5 p.]. Available from: medlineplus.gov/genetics/condition/47xyy-syndrome

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