

### **What is NIPT?**

NIPT is a non-invasive prenatal test which analyzes cell-free DNA in the mother's blood to identify genetic conditions such as trisomies and sex chromosome aneuploidies in the fetus.

### **What is VERACITY?**

VERACITY is a non-invasive prenatal test that analyses cell-free DNA extracted from the mother's blood to detect fetal genetic disorders. VERACITY can accurately detect Down syndrome, Edwards syndrome and Patau syndrome. VERACITY also tests for syndromes caused by sex chromosome aneuploidies and microdeletions, and provides the option to know the gender of the baby. VERACITY is a robust, reliable, non-invasive prenatal test that has been validated for singleton and twin pregnancies, and can also be used in IVF pregnancies.

### **What are Down syndrome, Edwards syndrome and Patau syndrome?**

Down syndrome, Edwards syndrome and Patau syndrome are genetic disorders caused by chromosomal trisomies. Down syndrome is caused by an extra copy of chromosome 21 whereas Edwards syndrome and Patau syndrome are caused by an extra copy of chromosome 18 and chromosome 13, respectively. Down syndrome is characterized by intellectual impairment and congenital abnormalities. Down syndrome occurs approximately in 1 in 700 pregnancies but is more frequent in pregnancies in women over 35. Edwards syndrome and Patau syndrome are less common occurring in 1 in 5000 and 1 in 16000 pregnancies, respectively. Edwards and Patau syndromes are characterized by severe congenital abnormalities and rarely survive past the first year of life.

### **What are sex chromosome aneuploidies?**

Sex chromosome aneuploidies are genetic disorders caused by the presence or absence of a sex chromosome. The 23rd pair of chromosomes determine the gender of an individual. Women have two X chromosomes and men have one X and one Y chromosome. VERACITY tests for the following sex chromosome aneuploidies:

- Turner syndrome, characterized by the presence of a single X chromosome.
- Triple X syndrome, characterized by the presence of three X chromosomes.
- Klinefelter syndrome, characterized by the presence of two X chromosomes and one Y chromosome.
- Jacob syndrome, characterized by the presence of one X chromosome and two Y chromosomes.
- XYY syndrome, characterized by the presence of two X chromosomes and two Y chromosomes.

### **What are microdeletions?**

Microdeletions are genetic conditions caused by the loss of a part of a chromosome. Microdeletions are characterized by congenital abnormalities and intellectual impairment. The severity of the symptoms varies depending on the size and location of the microdeletion. The most common microdeletion syndrome is DiGeorge syndrome which occurs approximately once in 1000 pregnancies. The prevalence of DiGeorge

syndrome increases to 1 in 100 in pregnancies with major structural anomalies such as congenital heart disease.

### **Why should I choose VERACITY?**

VERACITY is a new generation non-invasive prenatal test with unparalleled accuracy. VERACITY can be done for all pregnancies after the 10th week of pregnancy and pregnancies conceived through in-vitro fertilization (IVF).

The high accuracy of VERACITY has been demonstrated in several clinical validation studies using thousands of samples. VERACITY is fast, providing results to your doctor in a few days upon sample receipt to our laboratory. VERACITY is a safe test for both the mother and the fetus because it is performed using a simple blood draw.

### **How is the VERACITY test done?**

VERACITY requires a blood draw which is performed by your doctor or healthcare provider. The blood sample is sent to our laboratory and the results are provided to your doctor in few days. Your doctor or healthcare provider will discuss your VERACITY results and provide counselling if needed.

### **How much does VERACITY cost?**

VERACITY is a new generation targeted non-invasive prenatal test. Its unique state-of-the-art design that confers unparalleled accuracy also makes it a highly affordable test for the detection of fetal chromosomal aneuploidies. Please contact your healthcare provider regarding the cost of VERACITY and payment options in your country.