IT’S TIME FOR
NIPT

GET ACCURATE PREGNATAL INSIGHTS
AS EARLY AS WEEK 10.¹
NIPT data from a meta-analysis of the performance of NIPT screening for aneuploidies. Thirty-five studies conducted from January 2011 through December 2016 were included. The meta-analysis included peer-reviewed studies reporting on clinical validation or implementation of NIPT aneuploidy screening, in which data on pregnancy outcome were provided for >85% of the study population. These studies reported NIPT results in relation to fetal karyotype from invasive testing or clinical outcomes.8

Serum screening data from a prospective validation study screening for trisomies 21, 18, and 13 in 108,982 singleton pregnancies undergoing routine care in three hospitals. Subjects were screened using a combination of maternal age, fetal nuchal translucency, fetal heart rate, serum-free β-human chorionic gonadotropin, and pregnancy-associated plasma protein-A between 11 weeks 0 days and 13 weeks 6 days gestation. The detection rate and false-positive rate at estimated risk cut-offs from 1 in 2 to 1 in 1000 were determined. Rates shown are for risk cut-off of 1 in 100. The proportions of trisomies detected were compared to their expected values in different risk groups.9

The accuracy of NIPT can reduce patient anxiety about false positives.2-4

NIPT is a more accurate prenatal aneuploidy screening option than conventional prenatal serum screening, and is available for all pregnant women1,2,5-7

NIPT Versus Conventional screening

<table>
<thead>
<tr>
<th>Trisomy</th>
<th>NIPT</th>
<th>Conventional screening</th>
</tr>
</thead>
<tbody>
<tr>
<td>T21</td>
<td>99.7%</td>
<td>90.0%</td>
</tr>
<tr>
<td>T18</td>
<td>97.9%</td>
<td>97.0%</td>
</tr>
<tr>
<td>T13</td>
<td>99.0%</td>
<td>92.0%</td>
</tr>
<tr>
<td></td>
<td>0.13%</td>
<td>4%</td>
</tr>
</tbody>
</table>

*False-positive rate shown is a combined rate for trisomies 21, 18, and 13.
NIPT can be used at any time in pregnancy, beginning as early as week 10.1,6

Insights earlier than ever before.

NIPT has the broadest screening window of any prenatal aneuploidy screening test.1,6
Fewer invasive tests mean less maternal and fetal risk.

NIPT reduces the number of invasive confirmatory procedures performed in unaffected pregnancies.²,₇,₈,₁₀,₁¹

**NUMBER OF UNNECESSARY INVASIVE PROCEDURES FOR T21, T18, AND T13 OUT OF 1000 PREGNANCIES**

**NIPT**
False-positive rate: 0.13%³

**Conventional screening**
False-positive rate: 4%³

40 UNNECESSARY INVASIVE PROCEDURES

Figures shown derived for a hypothetical population of 1000 pregnant women who would receive a false-positive result with each respective test, necessitating confirmatory diagnostic testing.
Limitations of Test
NIPT (noninvasive prenatal testing) based on cell-free DNA analysis from maternal blood is a screening test; it is not diagnostic. False-positive and false-negative results do occur. Test results must not be used as the sole basis for diagnosis. Further confirmatory testing is necessary prior to making any irreversible pregnancy decision. A negative result does not eliminate the possibility that the pregnancy has a chromosomal or subchromosomal abnormality. This test does not screen for birth defects such as open neural tube defects, or other conditions, such as autism. Some NIPT tests do not screen for polyploidy (eg, triploidy) or single-gene disorders. There is a small possibility that the test results might not reflect the chromosomal status of the fetus, but may instead reflect chromosomal changes in the placenta (ie, confined placental mosaicism [CPM]) or in the mother that may or may not have clinical significance.