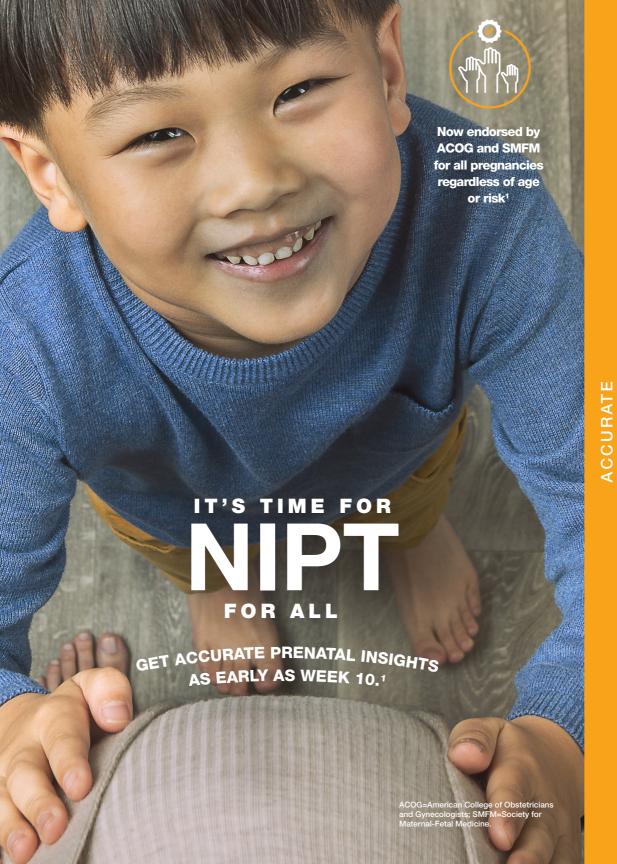


NONINVASIVE





## Accurate insights. Recommended to I be offered to all.1

In updated October 2020 guidelines, **ACOG/SMFM** endorsed NIPT screening for all pregnancies.1

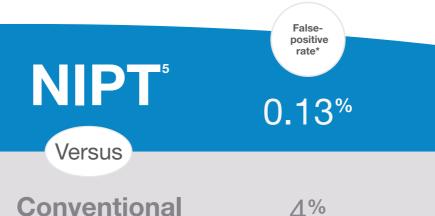
### **HIGHER DETECTION RATES**

Down **Edwards** Patau syndrome syndrome syndrome T21 T13

99.0% 99.7% 97.9%

90.0% 97.0% 92.0% NIPT is a more accurate prenatal aneuploidy screening option than conventional prenatal serum screening, and available for all pregnant patients. 1,6,7

### LOWER FALSE-POSITIVE RATES



Conventional screening<sup>8</sup>

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.5

Serum screening data from a prospective validation study screening for trisomies 21, 18, and 13 in 108,982 singleton pregnancies undergoing routine care in 3 hospitals. Subjects were screened using a combination of maternal age, fetal nuchal translucency, fetal heart rate, serum-free B-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.8

CCURATE

EARLY

NONINVASIVE

**PREGNANCIES** 

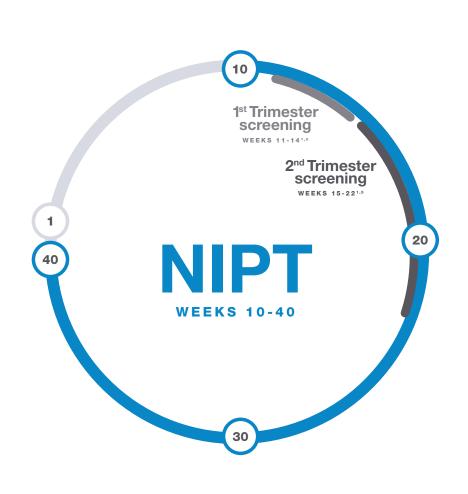
ALL

OR

<sup>\*</sup>False-positive rate shown is a combined rate for trisomies 21, 18, and 13.

EARLY







## Fewer invasive tests mean less maternal and fetal risk.

NIPT reduces the number of invasive confirmatory procedures performed in unaffected pregnancies 2,5,9-12

NUMBER OF UNNECESSARY **INVASIVE PROCEDURES FOR T21, T18, AND T13 OUT** OF 1,000 PREGNANCIES

## **NIPT** rate: 0.13%<sup>5</sup>

UNNECESSARY INVASIVE **PROCEDURE** 



# Conventional screening

False-positive rate: 4%8

INVASIVE **PROCEDURES** 

**PREGNANCIES** 

ALL

OR

NONINVASIVE



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.



## ACOG/SMFM endorse NIPT for all pregnancies<sup>1</sup>

Cell-free DNA [NIPT] is the most sensitive and specific screening test for the common fetal aneuploidies (trisomies 21, 13, and 18) and can be performed at any time after 9-10 weeks of gestation.1

**—ACOG/SMFM** clinical management guidelines for obstetricians and gynecologists

OFFER NIPT TO ALL OF YOUR **EXPECTING PATIENTS** REGARDLESS OF AGE OR RISK<sup>1</sup>

### Society guidelines endorse NIPT for all

"NIPT is the most accurate screening test for the common autosomal aneuploidies in unselected singleton populations and those at known increased probability."

-International Society for Prenatal Diagnosis 6

The systematic evidence review "demonstrated consistently superior performance of NIP[T]" and showed that NIPT outperforms other aneuploidy screening options "in all parameters and across all studies in general-risk populations" of singleton pregnancies.

-American College of Medical Genetics and Genomics (ACMG)7

**PREGNANCIES** 

ALL

0





### Endorsed by ACOG/SMFM for all pregnancies<sup>1</sup>



Screen for the presence of T21, T18, and T13 with the most accurate prenatal aneuploidy screening test available 1,2,5,6,9



Gain insights into prenatal genetic health risks as early as week 10<sup>1</sup>



Reduce the number of invasive procedures in unaffected pregnancies 2,5,9-11

#### **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 singlegene 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.

This material is intended for healthcare professional audiences only.