

The MaterniT[®] GENOME laboratory-developed test screens all 23 pairs of chromosomes in the entire genome, with high sensitivity, specificity, and proven commercial reliability. It is designed to detect whole chromosome abnormalities, sex chromosome aneuploidies (SCAs), subchromosomal copy number variants (CNVs) \geq 7 Mb, and select microdeletions.

When should you use the MaterniT GENOME test?

Based on peer experience, look for complex cases beyond AMA





What will you see with the MaterniT GENOME test?¹

Summary of the 1,957 positive results



* Sensitivity estimated from the samples in the published clinical validation study² and across the observed range of fetal fractions.

Actual sensitivity may also be influenced by other factors such as the size of the event, total sequence counts, amplification bias, or sequence bias.

** Per test requisition





Key points^{1,3}

- Genome-wide screening 23 pairs of chromosomes
- Analyzes events ≥7 Mb, select microdeletions <7 Mb
- August 2015 November 2017
- n = 41,634
- Leading reasons for referral beyond AMA
 - 18% Ultrasound findings
 - 11% Average risk
 - 8% Multiple indications
- Positive results were observed for every chromosome
 - 4.7% of all tests positive (n=1,957)

Abnormal findings identified in the genome³

8

Average risk positive cases (n = 114)

35

30

25

20

15

10

5

2 3 4 5 6

GENETICS

LabCorp Specialty Testing Group

- 3 5 calendar days TAT from receipt of sample
- Positive/negative reporting
- The average risk cohort is growing, with a statistically significant increase in cohort size
 - Lower proportion of age-related trisomies
 - Higher proportion of sex chromosome aneuploidies and microdeletions reported
 - CNV proportional with larger screening population

MaterniT GENOME clinical experience finds up to 30% more chromosomal information than traditional NIPT as test adoption continues.⁴

Abnormal findings identified across the entire genome¹

All positive cases (n = 1,957)



ANUEPLOIDY SUBCHROMOSOMAL MICRODELETIONS

Entire cohort

ANUEPLOIDY SUBCHROMOSOMAL

MICRODELETIONS

Average risk cohort

*Positive findings not found for chromosomes 5, 12, 15, and 19

Results from case studies are not predictive of results in other cases. Results in other cases may vary.

© 2019 Laboratory Corporation of America® Holdings. All rights reserved. | rep-1247-v1-0419 | L19809-0419-1

9 10 11 12 13 14 15 16 17 18 19 20 21 22 X/Y

 Boomer T, Caldwell S, Almasri E, et al. Genome-wide cfDNA screening: Trends and lessons from >40,000 samples. Poster presenter at: 2018 American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting; April, 2018; Charlotte, NC.
Lefkowitz RB, Tynan JA, Liu T, et al. Clinical validation of a noninvasive prenatal test for genomewide detection of

Letkowitz RB, Tynan JA, Liu T, et al. Clinical validation of a noninvasive prenatal test for genomewide detection o fetal copy number variants. Am J Obstet Gynecol. 2016 Aug; 215(2):227.e1-227.e16. doi: 10.1016/j.ajog.2016.02.036

3. Internal c

 Enrich M, Tynan J, Mazloom A, et al. Genome-wide cfDNA screening: clinical laboratory experience with the first 10,000 cases. Genet Med. 2017;19(12):1332-1337.