GENOMA®
Molecular Genetics Laboratories Group

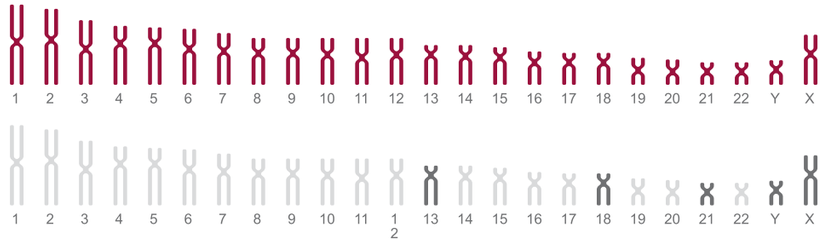
PrenatalSafe® KARYO

Noninvasive prenatal test (NIPT)
for genome-wide fetal chromosomal abnormalities

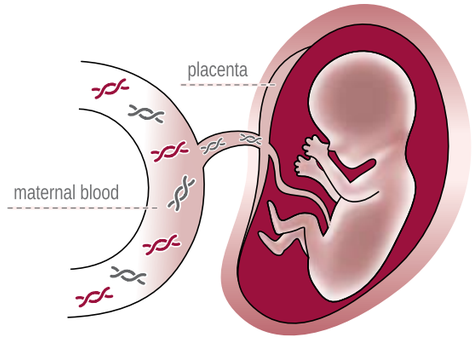
Cell-free fetal DNA analysis from maternal plasma
providing karyotype-level insight

PrenatalSafe® KARYO is a new non-invasive prenatal test (NIPT) that analyzes every chromosome in the fetal genome [1-3]

PrenatalSafe® KARYO test offers a novel capability of noninvasive testing, identifying genome-wide aneuploidies, deletions or duplications. This enables the most comprehensive fetal chromosomal test currently available noninvasively.



PrenatalSafe® KARYO test is **the most technologically advanced genome-wide NIPT**: through **cfDNA analysis**, it detects fetal aneuploidies and structural chromosomal aberrations, providing karyotype-level insight



PrenatalSafe® KARYO: the next generation non invasive prenatal test

PrenatalSafe® KARYO test couples leading technology with unparalleled insight to offer the most scientifically advanced information available from a noninvasive test

Common fetal chromosomal aneuploidies

Trisomy 21	Down Syndrome
Trisomy 18	Edwards Syndrome
Trisomy 13	Patau Syndrome
Monosomy X	Turner Syndrome
XXX	Trisomy X
XXY	Klinefelter Syndrome
XYY	Jacobs Syndrome

Other fetal chromosomal aneuploidies

Trisomy 1	Trisomy 9*
Trisomy 4	Trisomy 12
Trisomy 5	Trisomy 16
Trisomy 7	Trisomy 22*

PrenatalSafe® KARYO detects aneuploidies in every chromosome

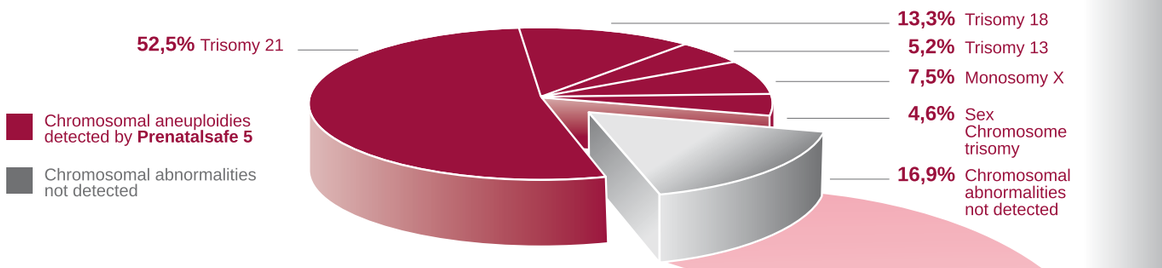
** More common*

Chromosomal gains and losses across the fetal genome

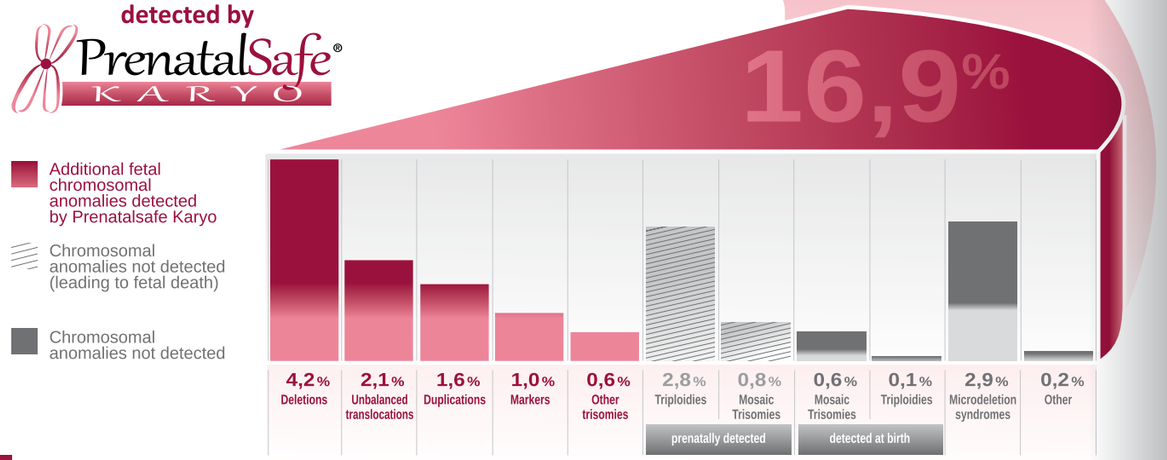
PrenatalSafe® KARYO detects 96.2% of chromosomal abnormalities observed at birth

96.2%

Prevalence of fetal chromosomal aneuploidies detected by PrenatalSafe® 5



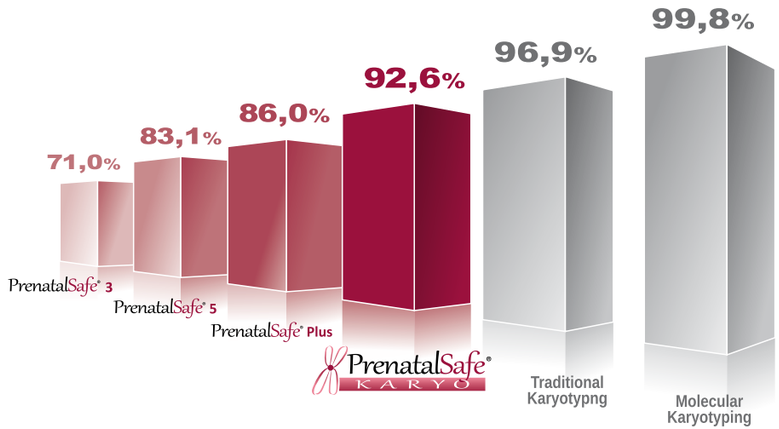
Prevalence of additional fetal chromosomal anomalies detected by PrenatalSafe® KARYO



PrenatalSafe® KARYO identifies 92.6% of chromosomal abnormalities prenatally detected [4]

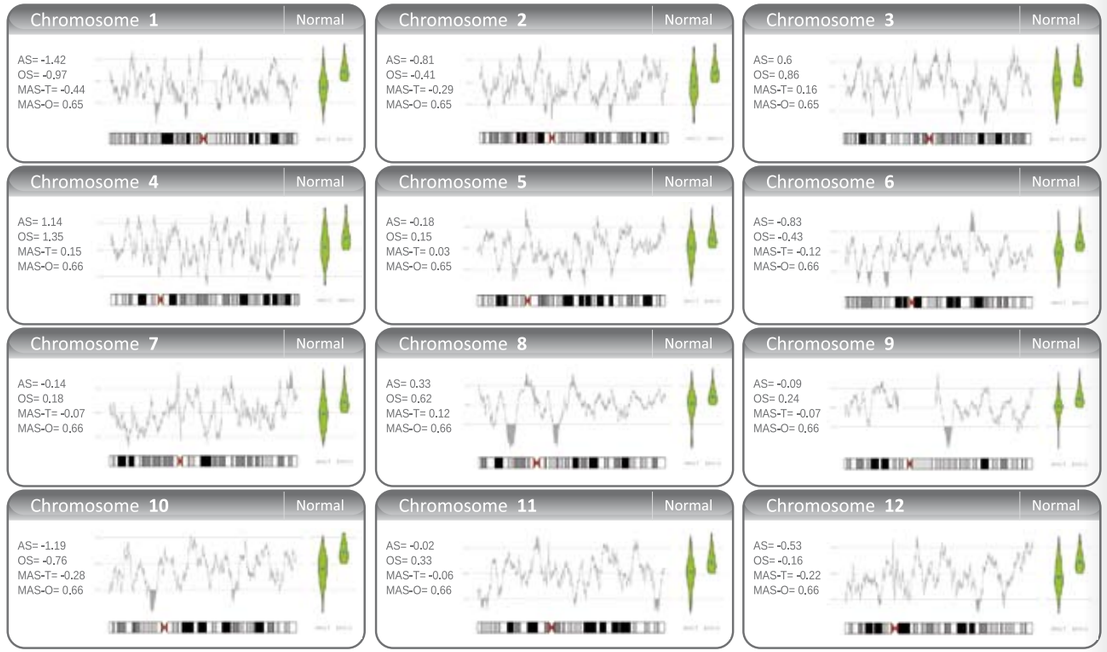
92.6%

Unlike any other noninvasive prenatal test available to date, Prenatalsafe Karyo offers a level of information previously only available from a fetal karyotype analysis, performed with invasive prenatal diagnosis procedures (amniocentesis and CVS)



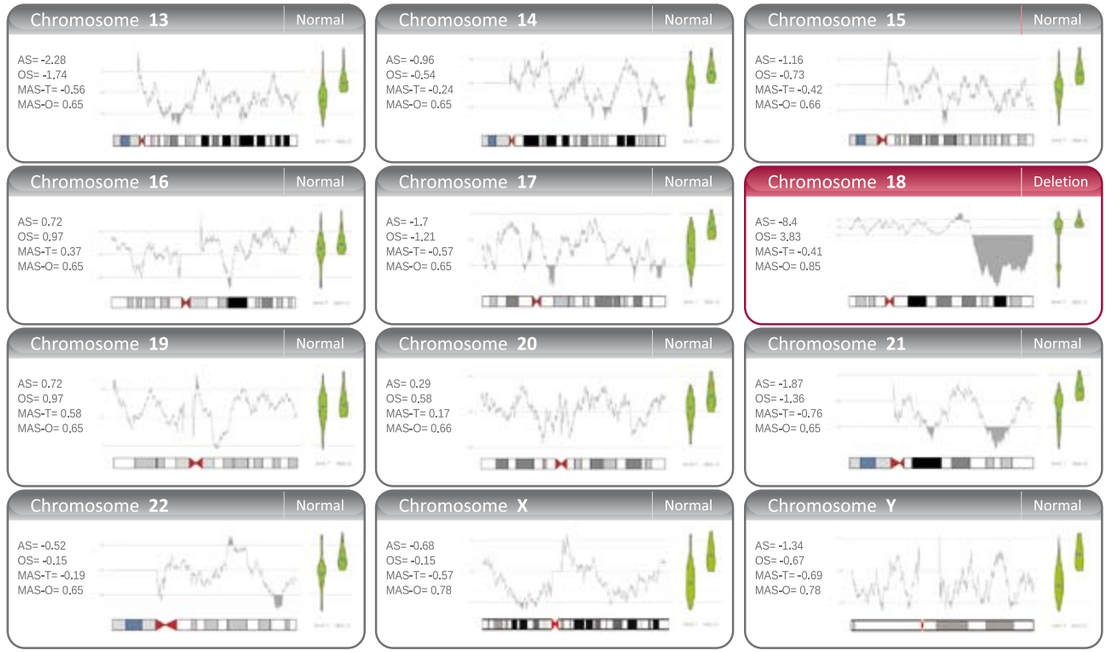
	Traditional Karyotyping	PrenatalSafe® KARYO
Analyzes every chromosome	✓	✓
Requires an invasive procedure	✗	✓
Detects large, unbalanced translocations	✓	✓
Detects chromosome gains or losses	✓	✓
Detects mosaic trisomies	✓	✗
Detects marker chromosomes	✓	✓
Detects microdeletion syndromes	✗	✗
Detects Triploidy	✓	✗
Considered diagnostic	✓	✗

PrenatalSafe® KARYO detects aneuploidies and structural chromosome aberrations across the fetal genome, offering a level of information previously only available from a karyotype analysis



Warning:
PrenatalSafe® KARYO is a screening test, it is not a diagnostic test

PrenatalSafe® KARYO has demonstrated excellent performance, with sensitivity and specificity >99% [1-2]



Bibliography

1. Bayindir et al., Eur J Hum Genet 2015; 23:1286-1293
2. Chen et al. Prenat Diagn 2013; 33:584-590
3. Yu et al. PLoS One 2013 17;8(4):e60968
4. Wellesley et al. European Journal of Human Genetics 2012; 20:521–526

PrenatalSafe® KARYO: free services supplied

- **RhSafe test**
  for pregnant women Rh(D) positive and partners Rh(D) negative
- **Shipper kits with Streck™ BCT Tubes**
- **Genetic counseling pre- and post-test**
- **Follow-up**
  follow-up of anbormal results, performed with both traditional and molecular karyotyping

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