variantyx

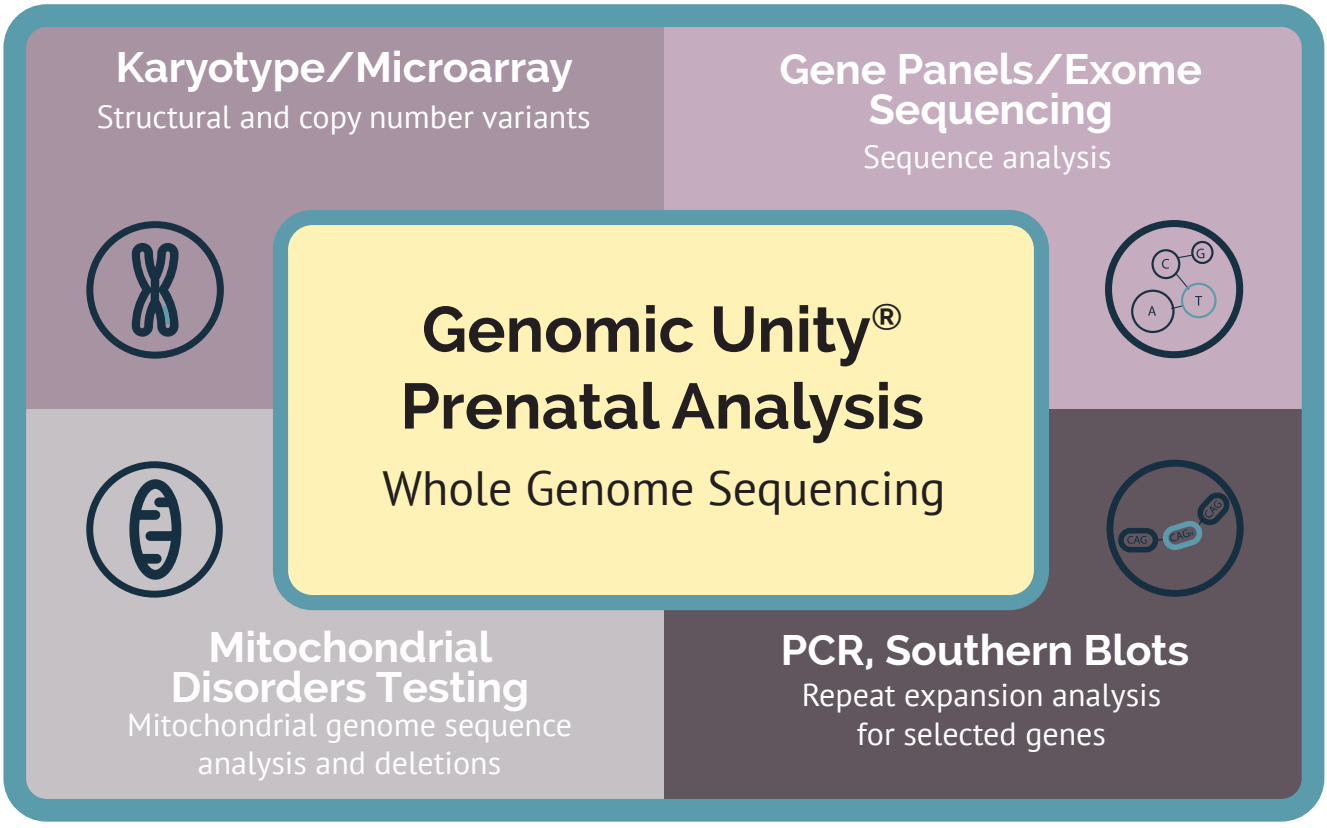
Genomic Unity® Prenatal Analysis

When amniocentesis is necessary, choose the most comprehensive prenatal diagnostic test available

Variantyx is a precision medicine company that provides clinicians and parents with a one-stop-shop for prenatal genetic diagnostics. Genomic Unity® Prenatal Analysis is a clinical diagnostic test designed to identify genetic variants that correlate with clinical symptoms manifested in a fetus or a pregnancy, or that lead to severe early onset genetic disorders. Late onset adult disorders are not considered.

Start with the most comprehensive test

With our proprietary whole genome analysis, you can be assured that you are providing your patients with the most comprehensive diagnostic test available.



Broad variant detection

Proprietary algorithms optimized for each variant type are used to perform analysis of the data which are brought together for collective interpretation, providing a more complete genetic picture.

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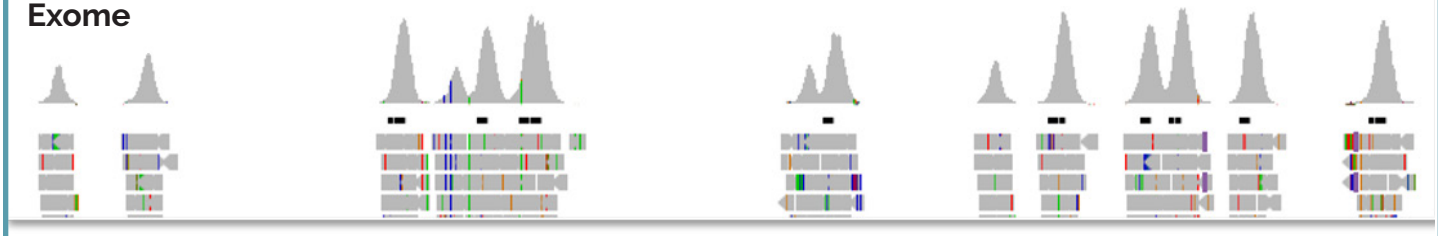
The Whole Genome Sequencing Difference

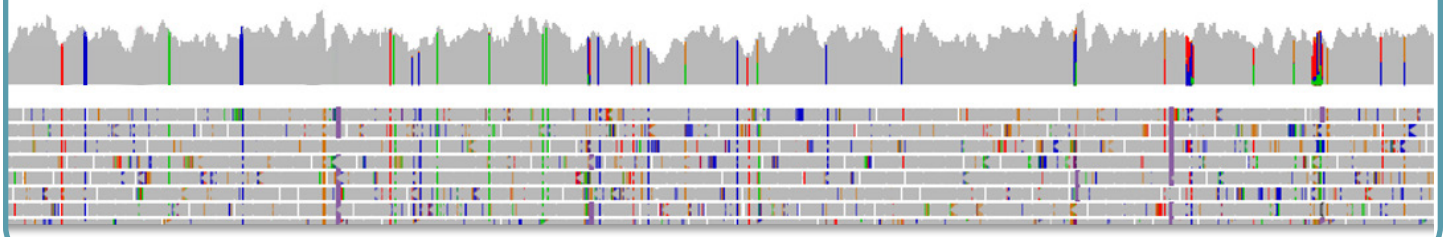
Exome and genome tests begin with the same fragmented DNA. Exomes mechanically isolate small sections of DNA and then amplify the sections using PCR before sequencing. These steps both remove and skew the data. As a result, only 1-2% of a patient's DNA is covered with uneven peaks and valleys and significant gaps.

Exome



Genomes do not use PCR amplification and sequence the DNA directly. **As a result, >98% of a patient's DNA is covered with no holes.**

Genome



- **Does** shorten the diagnostic odyssey
- **Does** detect all major variant types within a single assay
- **Does not** return additional variants of uncertain significance
- **Does not** report on conditions of late onset
- **Does not** have a longer turnaround time
- **Does not** cost more to patients

Accepted sample types

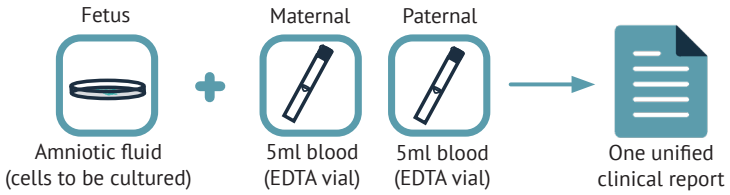
- Amniotic fluid (20ml)
- Cultured cells
- Fetal genomic DNA
- Parental blood (5ml)

Genomic Unity® Prenatal Analysis Test

>99% sensitivity, specificity, and positive predictive value for:
- Single nucleotide variants
- Indels up to 50 bp

>96% analytical sensitivity for CNVs

>99% clinical sensitivity for pathogenic STRs



Maternal cell contamination (MCC) is determined for quality control purposes. Parental inheritance will be identified for reported variants. If elected, a preliminary report based on FISH will be issued within 3-5 days from sample receipt for aneuploidies of 13, 18, 21, X and Y. A complete report will be issued within 20-30 days

Experience the Variantyx Difference!

For more information visit us online at www.variantyx.com

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