



TECHNICAL BULLETIN

☒ NEW TEST ☒ TEST CHANGE

NOTIFICATION DATE: APRIL 15, 2021

EFFECTIVE DATE: APRIL 15, 2021

Chromosomal Microarray Testing Update

On the effective date, Northwell Health Laboratories will change the performing laboratory for Chromosomal Microarray testing (Prenatal Targeted Chromosomal Microarray and High Resolution Chromosomal Microarray) from Sema4 Laboratories to **GeneDx Laboratories**. Sema4 Laboratories is relocating and is currently unable to perform any Chromosomal Microarray testing.

The Chromosomal Microarray Testing at GeneDx Laboratories has **three orderables with separate test codes**:

- **Prenatal Whole Genome Chromosomal Microarray:** Recommended for prenatal cases with fetal anomalies, abnormal ultrasound, or other indications. This array has an increased rate of variants of uncertain clinical significance (VUS) due to higher resolution.
- **Prenatal Targeted Chromosomal Microarray:** Recommended for routine prenatal cases, including indications of parental concern, advanced maternal age, and increased risk for a chromosomal abnormality by family history, non-invasive prenatal testing (NIPT), or maternal serum screening.
- **High Resolution Chromosomal Microarray:** For all postnatal cases (pediatric and adults).

Test Requirement/ Parameters	New Additional Test Prenatal Whole Genome Chromosomal Microarray	Prenatal Targeted Chromosomal Microarray (GeneDx)	High Resolution Chromosomal Microarray (GeneDx)
Method	Comparative genomic hybridization (array CGH + SNP)	Comparative genomic hybridization (array CGH + SNP)	Comparative genomic hybridization (array CGH + SNP)
Specimen Requirements	15-20 mL Amniotic Fluid, or 20 mg Chorionic villi in sterile saline, or Products of conception (POC), or 2 T-25 flasks of cultured cells	15-20 mL Amniotic Fluid, or 20 mg Chorionic villi in sterile saline, or 2 T-25 flasks of cultured cells	Whole blood Lavender top tube, or Buccal Swab
Specimen Stability	Room Temperature or Refrigerated	Room Temperature or Refrigerated	Room Temperature or Refrigerated
Computer Interface Code	PDM # 1659898	PDM# 1659897	PDM# 1659902
Test Order	PRENATSNP	PREARRAY	ARRAY

If you have any questions, please contact Client Services at (516) 719-1100.