OneDNA
Discover.Empower.Transform.

Chromosomal Microarray (CMA)

What is Chromosomal Microarray (CMA)?

Chromosomal Microarray (CMA) is a high resolution genomic test that detects submicroscopic chromosomal imbalances, including copy number variations (CNVs) and regions of loss of heterozygosity, which may not be identified by conventional karyotyping.

Prenatal	***Recurrent Pregnancy Loss***	***Postnatal***
Analysis of fetal samples (CVS / amniotic fluid) to detect clinically significant micro deletions/ duplications, and numerical aberrations enabling early identification of chromosomal abnormalities.	Evaluation of products of conception (POC) to identify chromosomal causes of miscarriage, supporting accurate diagnosis and future pregnancy planning.	Assessment of individuals with developmental delay, intellectual disability, autism spectrum disorders, or congenital anomalies for precise detection of genomic imbalances.

What genetic conditions can CMA diagnose?

- Microdeletion syndromes (e.g., DiGeorge, Williams, Prader-Willi/Angelman)
- Microduplication syndromes (e.g., 16p11.2, 22q11.2, 17q12 duplications)
- Telomeric imbalances
- Aneuploidies (e.g., Trisomy 21, Turner syndrome)

Who can consider testing ?

- Children with developmental delay, intellectual disability or Autism spectrum disorder
- Patients with multiple congenital anomalies
- Individuals with unexplained dysmorphic features
- Couples with recurrent pregnancy loss
- Prenatal cases with abnormal ultrasound findings

Available in both 315K and 750K array resolutions to suit varying clinical requirements and depth of analysis.

Technical Specifications

- Genome-wide analysis for detection of chromosomal imbalances
- High-resolution platform enabling identification of submicroscopic genomic alterations

Technology

- 750K BeadChip
- ~750,000 markers covering ~9,000 genes, including ~447 disease associated genes

Capabailities

- ~2.3 kb resolution for CNV detection
- CN-LOH detection

Coverage

- 324 cytogenetic hotspot regions
- ~495,000+ genomic variant

Turn Around Time

3 weeks

Sample type

AF/CVS/POC/Blood in EDTA

Also covers: Pericentromeres & telomeres, Sex chromosomes, PAR regions (PAR1 & PAR2), Known syndrome-associated regions.

*Test Performed at NABL and CAP Accredited Labs

SCAN TO KNOW MORE

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