**Chromosome Analysis: Peripheral Blood (Age: Less than 6mo)**

**Test Code:** CB  
**Turnaround time:** 7 days  (Preliminary Report: 2-3 days by request)  
**CPT Codes:** 88291 x1, 88230 x1, 88262 x1

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**Condition Description**

This test will detect abnormalities in chromosome number and large deletions/duplications of chromosome material as well as balanced chromosomal rearrangements.

For most indications for cytogenetic testing (intellectual disability, developmental delays, autism spectrum disorders, multiple congenital anomalies, etc.) a chromosomal microarray has replaced the G-banded karyotype as the first-tier diagnostic test. For more information about the benefits of the microarray, please click [here](#).

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**Indications**

This test is indicated for patients with:

- a known or suspected family history of a chromosome abnormality
- suspected trisomy 13, 18, or 21
- congenital abnormalities and/or developmental delay present (chromosomal microarray analysis is recommended as a first-tier test)

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**Methodology**

PHA stimulated cultures are used for G-banded analysis. ISCN nomenclature is followed.

**Detection**

ISCN Nomenclature, minimum band resolution of 550.

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**Specimen Requirements**

**Type: Whole Blood (Sodium heparin)**

**Specimen Requirements:**

Sodium Heparin (Green Top)  
Infants and Young Children (2 years of age to 10 years old): 3-5 ml  
Older Children & Adults: 5-10 ml  
Autopsy: 2-3 ml unclotted cord or cardiac blood

**Specimen Collection and Shipping:**

Ship sample at room temperature for receipt at EGL within 24 hours of collection. Do not refrigerate or freeze. Not accepted on Saturday.

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**Related Tests**

- The EmArray Cyto (VA) may detect microdeletions/duplications that are not visible on a peripheral blood chromosome analysis and is recommended as a first tier test for patients with congenital abnormalities and/or developmental delay.
- When mosaicism is suspected but not detected on a standard peripheral blood chromosome analysis, a chromosome analysis for mosaicism (MM) in peripheral blood or a chromosome analysis on skin fibroblasts (CSKNC) may be warranted.
- If there is a known chromosome abnormality in the family, such as a translocation, a targeted, family member chromosome study (FS) may be indicated.

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