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NEW TEST

Cytogenetics, Optical Genome Mapping, Blood or Bone Marrow

Order Code: CGOGM

Fee Code: TA007 (CPT 81195)

MLabs Cytogenetics Laboratory will begin offering Optical Genome Mapping effective November 3, 2025. Optical Genome Mapping (OGM) is intended for the cytogenomic evaluation of hematologic malignancies. It is designed to identify structural variants including translocations, inversions, insertions, deletions, and duplications, at a high genomic resolution as well as large copy number gains and losses. In hematological malignancies, the OGM assay will complement karyotype analysis and, in many cases, will replace reflex FISH assays and chromosomal microarray analysis. By providing a detailed view of chromosomal architecture, OGM detects recurrent gene rearrangements (for examples, RUNX1T1::RUNX1, CBFβ::MYH11, PML::RARA, GATA2::MECOM, BCR::ABL1, ETV6::RUNX1, IGH::MYC), and large copy number aberrations (for examples, hyperdiploidy, deletion of 5q and 7q, complex genomic aberrations). It is particularly useful for malignancies that are characterized by cryptic rearrangements or enhancer hijacking that are often difficult to detect by G-banded chromosome analysis or targeted assays. Its ability to detect both known and novel genomic aberrations makes it a valuable tool for initial diagnosis and at the disease progression or relapse.

Collection Instructions: Specimen transport should be arranged so that the specimen is received by MLabs **thesame day** it is collected. Call for a STAT courier if necessary. Collect specimen in a lavender top (preferred) or green top (sodium heparin-acceptable) tube. Invert the tube several times to prevent clotting. Send the specimen intact at **room temperature** as soon as possible. **DO NOT CENTRIFUGE**. Include pertinent medical finding and diagnosis. Most insurance carriers require prior authorization for payment. Testing will not begin until insurance prior authorization is received, it is confirmed that prior authorization is not required, or the patient has agreed to pay out of pocket. A completed Michigan Medicine Request form is required and is available by calling MLabs Client Services at 800-862-7284.

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