

TEST: Chromosome analysis, tumor

DESCRIPTION: In situ culture of tumor cells to produce metaphase cells for Giemsa-banded chromosome analysis. Cytogenetic examination includes detailed analysis of 20 cells and preparation of at least 3 karyograms. Often fluorescence in situ hybridization (FISH) analysis of interphase tumor cells is also performed to look for evidence of specific cancer gene rearrangements.

INDICATIONS:

- suspected malignancy

SPECIMEN REQUIREMENTS: $\geq 1 \text{ cm}^3$ tumor tissue. Collect tissue in sterile manner and place in sterile tissue culture transport medium. Label tube or container with patient's name and medical record number. May be refrigerated overnight. **Specimen must not be frozen. Specimen must not be fixed in formalin.** Send to CompGene with a Requisition for Chromosome Analysis form as soon as possible after tissue collection.

REFERENCE VALUE: 46,XX[20] or 46,XY[20]

TURN AROUND TIME: 1-14 days (usually 5 or 6 days) for chromosome analysis
1 -2 days for fluorescence in situ hybridization (FISH) analysis

CPT CODES: 88233 - chromosome analysis, tissue culture for tumor
88262 - chromosome analysis, tumor
88291 - cytogenetic interpretation and report

88271 - fluorescence in situ hybridization probes
88275 - fluorescence in situ hybridization 100-300 cells