

Cytogenetic Studies (190.3)

Publication Number	Manual Section Number	Manual Section Title
100-3	190.3	Cytogenetic Studies

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1	7/16/1998

Benefit Category

Diagnostic Tests (other)

Please Note: This may not be an exhaustive list of all applicable Medicare benefit categories for this item or service.

Item/Service Description

The term cytogenetic studies is used to describe the microscopic examination of the physical appearance of human chromosomes.

Indications and Limitations of Coverage

Medicare covers these tests when they are reasonable and necessary for the diagnosis or treatment of the following conditions:

- Genetic disorders (e.g., mongolism) in a fetus; (See the Medicare Benefit Policy Chapter 15, "Covered Medical and Other Health Services," §20.1)
- Failure of sexual development;
- Chronic myelogenous leukemia;
- Acute leukemias lymphoid (FAB L1-L3), myeloid (FAB M0-M7), and unclassified; or
- Myelodysplasia

Part B	Rule Description Part B	Proposed HCPCS/CPT Part B	Frequency
Part B	MCS and MACs shall edit to allow CPTs/HCPCS for approved Dx.	88230-88291	N/A

Covered ICD-10 Codes.

ICD-10	Descriptor
C91.00	Acute lymphoblastic leukemia not having achieved remission
C91.01	Acute lymphoblastic leukemia, in remission
C91.02	Acute lymphoblastic leukemia, in relapse
C92.00	Acute myeloblastic leukemia, not having achieved remission
C92.01	Acute myeloblastic leukemia, in remission
C92.02	Acute myeloblastic leukemia, in relapse

<u>C92.10</u>	Chronic myeloid leuk, BCR/ABL-positive, not achieve remis
<u>C92.11</u>	Chronic myeloid leukemia, BCR/ABL-positive, in remission
<u>C92.12</u>	Chronic myeloid leukemia, BCR/ABL-positive, in relapse
<u>C92.20</u>	Atyp chronic myeloid leuk, BCR/ABL-neg, not achieve remis
<u>C92.21</u>	Atypical chronic myeloid leukemia, BCR/ABL-neg, in remission
<u>C92.22</u>	Atypical chronic myeloid leukemia, BCR/ABL-neg, in relapse
<u>C92.40</u>	Acute promyelocytic leukemia, not having achieved remission
<u>C92.41</u>	Acute promyelocytic leukemia, in remission
<u>C92.42</u>	Acute promyelocytic leukemia, in relapse
<u>C92.50</u>	Acute myelomonocytic leukemia, not having achieved remission
<u>C92.51</u>	Acute myelomonocytic leukemia, in remission
<u>C92.52</u>	Acute myelomonocytic leukemia, in relapse
<u>C92.60</u>	Acute myeloid leukemia w 11q23-abnormality not achieve remis
<u>C92.61</u>	Acute myeloid leukemia with 11q23-abnormality in remission
<u>C92.62</u>	Acute myeloid leukemia with 11q23-abnormality in relapse
<u>C92.A0</u>	Acute myeloid leuk w multilin dysplasia, not achieve remis
<u>C92.A1</u>	Acute myeloid leukemia w multilin dysplasia, in remission
<u>C92.A2</u>	Acute myeloid leukemia w multilineage dysplasia, in relapse
<u>C93.00</u>	Acute monoblastic/monocytic leukemia, not achieve remission
<u>C93.01</u>	Acute monoblastic/monocytic leukemia, in remission
<u>C93.02</u>	Acute monoblastic/monocytic leukemia, in relapse
<u>C93.10</u>	Chronic myelomonocytic leukemia not achieve remission
<u>C93.11</u>	Chronic myelomonocytic leukemia, in remission
<u>C93.12</u>	Chronic myelomonocytic leukemia, in relapse
<u>C94.00</u>	Acute erythroid leukemia, not having achieved remission
<u>C94.01</u>	Acute erythroid leukemia, in remission
<u>C94.02</u>	Acute erythroid leukemia, in relapse
<u>C94.20</u>	Acute megakaryoblastic leukemia not achieve remission
<u>C94.21</u>	Acute megakaryoblastic leukemia, in remission
<u>C94.22</u>	Acute megakaryoblastic leukemia, in relapse
<u>C95.00</u>	Acute leukemia of unsp cell type not achieve remission
<u>C95.01</u>	Acute leukemia of unspecified cell type, in remission
<u>C95.02</u>	Acute leukemia of unspecified cell type, in relapse
<u>D46.0</u>	Refractory anemia without ring sideroblasts, so stated
<u>D46.1</u>	Refractory anemia with ring sideroblasts
<u>D46.20</u>	Refractory anemia with excess of blasts, unspecified
<u>D46.21</u>	Refractory anemia with excess of blasts 1
<u>D46.22</u>	Refractory anemia with excess of blasts 2
<u>D46.4</u>	Refractory anemia, unspecified
<u>D46.9</u>	Myelodysplastic syndrome, unspecified
<u>D46.A</u>	Refractory cytopenia with multilineage dysplasia
<u>D46.B</u>	Refract cytopenia w multilin dysplasia and ring sideroblasts

<u>D46.C</u>	Myelodysplastic syndrome w isolated del(5q) chromsoml abnlt
<u>D46.Z</u>	Other myelodysplastic syndromes
<u>D72.0</u>	Genetic anomalies of leukocytes
<u>E28.39</u>	Other primary ovarian failure
<u>E28.8</u>	Other ovarian dysfunction
<u>E28.9</u>	Ovarian dysfunction, unspecified
<u>E29.1</u>	Testicular hypofunction
<u>E29.8</u>	Other testicular dysfunction
<u>E29.9</u>	Testicular dysfunction, unspecified
<u>E30.0</u>	Delayed puberty
<u>O28.5</u>	Abn chromsoml and genetic find on antenat screen of mother
<u>O35.1XX0</u>	Maternal care for chromosomal abnormality in fetus, unsp
<u>O35.1XX1</u>	Maternal care for chromosomal abnormality in fetus, fetus 1
<u>O35.1XX2</u>	Maternal care for chromosomal abnormality in fetus, fetus 2
<u>O35.1XX3</u>	Maternal care for chromosomal abnormality in fetus, fetus 3
<u>O35.1XX4</u>	Maternal care for chromosomal abnormality in fetus, fetus 4
<u>O35.1XX5</u>	Maternal care for chromosomal abnormality in fetus, fetus 5
<u>O35.1XX9</u>	Maternal care for chromosomal abnormality in fetus, oth
<u>Q50.32</u>	Ovarian streak
<u>Q55.4</u>	Oth congen malform of vas def,epidid, semnl vescl & prostate
<u>Q90.0</u>	Trisomy 21, nonmosaicism (meiotic nondisjunction)
<u>Q90.1</u>	Trisomy 21, mosaicism (mitotic nondisjunction)
<u>Q90.2</u>	Trisomy 21, translocation
<u>Q90.9</u>	Down syndrome, unspecified
<u>Q91.0</u>	Trisomy 18, nonmosaicism (meiotic nondisjunction)
<u>Q91.1</u>	Trisomy 18, mosaicism (mitotic nondisjunction)
<u>Q91.2</u>	Trisomy 18, translocation
<u>Q91.3</u>	Trisomy 18, unspecified
<u>Q91.4</u>	Trisomy 13, nonmosaicism (meiotic nondisjunction)
<u>Q91.5</u>	Trisomy 13, mosaicism (mitotic nondisjunction)
<u>Q91.6</u>	Trisomy 13, translocation
<u>Q91.7</u>	Trisomy 13, unspecified
<u>Q92.0</u>	Whole chromosome trisomy, nonmosaic (meiotic nondisjunction)
<u>Q92.1</u>	Whole chromosome trisomy, mosaicism (mitotic nondisjunction)
<u>Q92.2</u>	Partial trisomy
<u>Q92.5</u>	Duplications with other complex rearrangements
<u>Q92.61</u>	Marker chromosomes in normal individual
<u>Q92.62</u>	Marker chromosomes in abnormal individual
<u>Q92.7</u>	Triploidy and polyploidy
<u>Q92.8</u>	Other specified trisomies and partial trisomies of autosomes
<u>Q92.9</u>	Trisomy and partial trisomy of autosomes, unspecified
<u>Q93.0</u>	Whole chromosome monosomy,nonmosaic (meiotic nondisjunction)

<u>Q93.1</u>	Whole chromosome monosomy, mosaic (mitotic nondisjunction)
<u>Q93.2</u>	Chromosome replaced with ring, dicentric or isochromosome
<u>Q93.3</u>	Deletion of short arm of chromosome 4
<u>Q93.4</u>	Deletion of short arm of chromosome 5
<u>Q93.5</u>	Other deletions of part of a chromosome
<u>Q93.7</u>	Deletions with other complex rearrangements
<u>Q93.81</u>	Velo-cardio-facial syndrome
<u>Q93.88</u>	Other microdeletions
<u>Q93.89</u>	Other deletions from the autosomes
<u>Q93.9</u>	Deletion from autosomes, unspecified
<u>Q95.0</u>	Balanced translocation and insertion in normal individual
<u>Q95.1</u>	Chromosome inversion in normal individual
<u>Q95.2</u>	Balanced autosomal rearrangement in abnormal individual
<u>Q95.3</u>	Balanced sex/autosomal rearrangement in abnormal individual
<u>Q95.5</u>	Individual with autosomal fragile site
<u>Q95.8</u>	Other balanced rearrangements and structural markers
<u>Q95.9</u>	Balanced rearrangement and structural marker, unspecified
<u>Q96.0</u>	Karyotype 45, X
<u>Q96.1</u>	Karyotype 46, X iso (Xq)
<u>Q96.2</u>	Karyotype 46, X w abnormal sex chromosome, except iso (Xq)
<u>Q96.3</u>	Mosaicism, 45, X/46, XX or XY
<u>Q96.4</u>	Mosaic, 45, X/other cell line(s) w abnormal sex chromosome
<u>Q96.8</u>	Other variants of Turner's syndrome
<u>Q96.9</u>	Turner's syndrome, unspecified
<u>Q97.0</u>	Karyotype 47, XXX
<u>Q97.1</u>	Female with more than three X chromosomes
<u>Q97.2</u>	Mosaicism, lines with various numbers of X chromosomes
<u>Q97.3</u>	Female with 46, XY karyotype
<u>Q97.8</u>	Oth sex chromosome abnormalities, female phenotype
<u>Q97.9</u>	Sex chromosome abnormality, female phenotype, unspecified
<u>Q98.0</u>	Klinefelter syndrome karyotype 47, XXY
<u>Q98.1</u>	Klinefelter syndrome, male with more than two X chromosomes
<u>Q98.3</u>	Other male with 46, XX karyotype
<u>Q98.4</u>	Klinefelter syndrome, unspecified
<u>Q98.5</u>	Karyotype 47, XYY
<u>Q98.6</u>	Male with structurally abnormal sex chromosome
<u>Q98.7</u>	Male with sex chromosome mosaicism
<u>Q98.8</u>	Other specified sex chromosome abnormalities, male phenotype
<u>Q98.9</u>	Sex chromosome abnormality, male phenotype, unspecified
<u>Q99.0</u>	Chimera 46, XX/46, XY
<u>Q99.1</u>	46, XX true hermaphrodite
<u>Q99.2</u>	Fragile X chromosome

<u>Q99.8</u>	Other specified chromosome abnormalities
<u>Q99.9</u>	Chromosomal abnormality, unspecified
<u>Z13.71</u>	Encntr for nonprocreat screen for genetic dis carrier status
<u>Z13.79</u>	Encntr for oth screening for genetic and chromsml anomalies
<u>Z14.8</u>	Genetic carrier of other disease
<u>Z15.01</u>	Genetic susceptibility to malignant neoplasm of breast
<u>Z15.02</u>	Genetic susceptibility to malignant neoplasm of ovary
<u>Z15.03</u>	Genetic susceptibility to malignant neoplasm of prostate
<u>Z15.04</u>	Genetic susceptibility to malignant neoplasm of endometrium
<u>Z15.09</u>	Genetic susceptibility to other malignant neoplasm
<u>Z15.81</u>	Genetic susceptibility to multiple endocrine neoplasia [MEN]
<u>Z15.89</u>	Genetic susceptibility to other disease
<u>Z31.430</u>	Encntr fem for test for genetc dis carrier stat for pro mgmt
<u>Z31.438</u>	Encounter for oth genetic testing of female for pro mgmt
<u>Z31.440</u>	Encntr male test for genetic dis carrier status for pro mgmt
<u>Z31.448</u>	Encounter for oth genetic testing of male for pro mgmt
<u>Z31.5</u>	Encounter for genetic counseling