

Carrier Screening for Parents or Prospective Parents

Last Review Date: Sept. 13, 2019 Number: MG.MM.LA.10dC

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Definitions

Carrier screening	Used to identify people who carry one copy of a gene mutation that, when present in two copies, causes a genetic disorder. The testing is offered to individuals who have a family history of a genetic disorder and to people in certain ethnic groups with an increased risk of specific genetic conditions
Gene mutation	A change from the normal gene sequence of which underlies a detrimental clinical presentation associated with disease
First-degree relative	Parents, siblings, and children
Second-degree relative	Grandparents, aunts, uncles, half-siblings, nieces, nephews and grandchildren.
Third-degree relative	Great-grandparents, great-aunts, great-uncles, grand-niece, grand-nephew, first cousin, great-grandchildren
Hereditary (aka germline) gene mutations	Mutations inherited from a parent and present throughout an individual's life in virtually every cell in the body. When an egg and a sperm (germ) cell unite, the resulting fertilized egg cell receives DNA from both parents. If this DNA has a mutation, the child that grows from the fertilized egg will have the mutation in each of his or her cells
X-linked disorder	Disease caused by a gene mutation located on the X-sex. X-linked disorders are expressed in all males with the defective gene but only females with mutated genes on both X chromosomes express the disease
Autosomal dominant	A gene mutation located on a numbered or non-sex chromosome which expresses a disease condition when present as part of a heterozygotic gene pair
Autosomal recessive	A gene mutation located on a numbered or non-sex chromosome which expresses a disease condition only when present in homozygous pairs. Carriers are not at risk of developing the disease

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Related Guidelines

Assisted Reproductive Technologies
Genetic Counseling and Testing

Genetic Testing for Cystic Fibrosis

Noninvasive Prenatal Testing (NIPT) for Fetal Aneuploidy

Nuchal Translucency Screening for Down Syndrome

Preimplantation Genetic Diagnosis Testing (within Assisted Reproductive Technologies)

Guideline

Carrier screening for parents or prospective parents is considered medically necessary. Pre/post-test genetic counseling is strongly recommended:

- A. Preconceptional or prenatal genetic testing is considered medically necessary when any of the following criteria based on family history is met:
 - 1. Parents or prospective parents have a previously affected child with the genetic disease
 - 2. One or both parents or prospective parents have 1st or 2nd degree relative who is affected or they have a first degree relative with an affected child
 - 3. One parent or prospective parent is at high risk for a genetic disorder with a late onset presentation or is a known carrier for an autosomal recessive condition
 - 4. One or both prospective parents have an autosomal dominant disorder
 - 5. Prospective parents have a history of unexplained stillbirth or repeated 1st trimester miscarriages (≥ 3)
- B. Specific genetic testing is considered medically necessary when any of the above criteria are met and all of the following criteria are met:
 - 1. The genetic disorder has been established in the scientific literature to be reliably associated with the disease and is associated high morbidity in the homozygous or compound heterozygous state
 - 2. Alternate biochemical or other clinical tests are not available, provide an indeterminate result or are less effective than genetic testing
- C. The following test-specific policies are considered medically necessary:
 - 1. Ashkenazi Jewish genetic disorders (JGDs) to determine carrier status (i.e., Ashkenazi panel for Bloom syndrome, Canavan disease, cystic fibrosis, familial dysautonomia, Fanconi anemia Type C, Gaucher disease, glycogen storage disease [GSD] Type 1a, mucolipidosis Type IV [MLIV], Niemann-Pick disease Type A, Tay-Sachs disease [TSD])
 - 2. Cystic fibrosis (CF) to determine carrier status for up to 23 CFTR gene mutations
 - 3. Fragile X syndrome (no restrictions)
 - 4. Hemoglobinopathies to determine carrier status if any of the following is present:
 - a. Mother is planning a pregnancy or currently pregnant and at least one parent is in an at-risk population (African, Southeast Asian and/or Mediterranean ancestry)
 - b. Mother has a family history of hemoglobinopathy
 - 5. The other partner is a known carrier or affected with a hemoglobinopathy (e.g., Sickle cell disease)
 - Spinal muscular atrophy (no restrictions)

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Limitations/Exclusions

- A. Coverage is limited to once per lifetime, as repeat screening is not considered medically necessary.
- B. Coverage for CF testing is limited to analysis of the 23 the most common CFTR gene mutations.
- C. If one parent/prospective parent screens negative for a disease associated with an autosomal recessive disorder then testing the other parent is not considered medically necessary
- D. Coverage is contingent on the following:
 - 1. Test targets analysis to the number of genes associated with medically necessary indications listed above (applicable to "D" below)
 - 2. Test result must impact medical management of a current pregnancy and/or the reproductive choices of the (if request is for conditions other than those listed above)
 - 3. Test must has proven validity in the medical community for the identification of a specific genetically linked inheritable disease
- E. Next generation sequencing (i.e., rapid sequencing of large numbers of DNA segments, up to and including entire genomes) is not considered medically necessary. Expanded panels (e.g., nonstandard universal-type genetic tests) typically screen for diseases present with increased frequency in specific populations; however, they also screen for diseases outside the carrier risk (diminishing the clinical utility of the test) and thus presenting considerable ethical and genetic counseling challenges.
- F. Home testing (e.g., direct-to-consumer; aka home-testing kits) or self-referral testing (e.g., genetic tests ordered by members via telephone or Internet) is not considered medically necessary, as there is no evidence of efficacy.

Revision History

Sept. 14, 2018	Added to Limitations/Exclusions that if one parent screens negative for an autosomal recessive disorder then testing the other parent is not medically necessary.
Apr. 13, 2018	Removed SMA restrictions.
Oct. 13, 2017	Removed Fragile X restrictions.
Jan.1, 2016	Added hemoglobinopathy and SMA criteria for clarification.

Applicable Procedure Codes

81200	ASPA (aspartoacylase) (eg, Canavan disease) gene analysis, common variants (eg, E285A, Y231X)
81205	BCKDHB (branched-chain keto acid dehydrogenase E1, beta polypeptide) (eg, maple syrup urine disease) gene analysis, common variants (eg, R183P, G278S, E422X)
81209	BLM (Bloom syndrome, RecQ helicase-like) (eg, Bloom syndrome) gene analysis, 2281del6ins7 variant
81220	CFTR (cystic fibrosis transmembrane conductance regulator) (eg, cystic fibrosis) gene analysis; common variants (eg, ACMG/ACOG guidelines)
81221	CFTR (cystic fibrosis transmembrane conductance regulator) (eg, cystic fibrosis) gene analysis; known familial variants
81222	CFTR (cystic fibrosis transmembrane conductance regulator) (eg, cystic fibrosis) gene analysis; duplication/deletion variants
81223	CFTR (cystic fibrosis transmembrane conductance regulator) (eg, cystic fibrosis) gene analysis; full gene sequence
81224	CFTR (cystic fibrosis transmembrane conductance regulator) (eg, cystic fibrosis) gene analysis; intron 8 poly-T analysis (eg, male infertility)

81242	FANCC (Fanconi anemia, complementation group C) (eg, Fanconi anemia, type C) gene analysis, common variant (eg, IVS4+4A>T)
81243	FMR1 (fragile X mental retardation 1) (eg, fragile X mental retardation) gene analysis; evaluation to detect abnormal (eg, expanded) alleles
81244	FMR1 (Fragile X mental retardation 1) (eg, fragile X mental retardation) gene analysis; characterization of alleles (eg, expanded size and methylation status)
81250	G6PC (glucose-6-phosphatase, catalytic subunit) (eg, Glycogen storage disease, type 1a, von Gierke disease) gene analysis, common variants (eg, R83C, Q347X)
81251	GBA (glucosidase, beta, acid) (eg, Gaucher disease) gene analysis, common variants (eg, N370S, 84GG, L444P, IVS2+1G>A)
81255	HEXA (hexosaminidase A [alpha polypeptide]) (eg, Tay-Sachs disease) gene analysis, common variants (eg, 1278insTATC, 1421+1G>C, G269S)
81257	HBA1/HBA2 (alpha globin 1 and alpha globin 2) (eg, alpha thalassemia, Hb Bart hydrops fetalis syndrome, HbH disease), gene analysis; common deletions or variant (eg, Southeast Asian, Thai, Filipino, Mediterranean, alpha3.7, alpha4.2, alpha20.5, and Constant Spring)
81260	IKBKAP (inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein) (eg, familial dysautonomia) gene analysis, common variants (eg, 2507+6T>C, R696P)
81290	MCOLN1 (mucolipin 1) (eg, Mucolipidosis, type IV) gene analysis, common variants (eg, IVS3-2A>G, del6.4kb)
81330	SMPD1(sphingomyelin phosphodiesterase 1, acid lysosomal) (eg, Niemann-Pick disease, Type A) gene analysis, common variants (eg, R496L, L302P, fsP330)
81400	Molecular pathology procedure, Level 1 (eg, identification of single germline variant [eg, SNP] by techniques such as restriction enzyme digestion or melt curve analysis)
81401	Molecular pathology procedure, Level 2 (eg, 2-10 SNPs, 1 methylated variant, or 1 somatic variant [typically using nonsequencing target variant analysis], or detection of a dynamic mutation disorder/triplet repeat) LINC00518 (long intergenic non-protein coding RNA 518) (eg, melanoma), expression analysis PRAME (preferentially expressed antigen in melanoma) (eg, melanoma), expression analysis
81402	Molecular pathology procedure, Level 3 (eg, >10 SNPs, 2-10 methylated variants, or 2-10 somatic variants [typically using non-sequencing target variant analysis], immunoglobulin and T-cell receptor gene rearrangements, duplication/deletion variants of 1 exon, loss of heterozygosity [LOH], uniparental disomy [UPD])
81403	Molecular pathology procedure, Level 4 (eg, analysis of single exon by DNA sequence analysis, analysis of 10 amplicons using multiplex PCR in 2 or more independent reactions, mutation scanning or duplication/deletion variants of 2-5 exons)
81404	Molecular pathology procedure, Level 5 (eg, analysis of 2-5 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 6-10 exons, or characterization of a dynamic mutation disorder/triplet repeat by Southern blot analysis)
81405	Molecular pathology procedure, Level 6 (eg, analysis of 6-10 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 11-25 exons, regionally targeted cytogenomic array analysis) CPOX (coproporphyrinogen oxidase) (eg, hereditary coproporphyria), full gene sequence CTRC (chymotrypsin C) (eg, hereditary pancreatitis), full gene sequence PKLR (pyruvate kinase, liver and RBC) (eg, pyruvate kinase deficiency), full gene sequence
81406	Molecular pathology procedure, Level 7 (eg, analysis of 11-25 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 26-50 exons, cytogenomic array analysis for neoplasia) ANOS1 (anosmin-1) (eg, Kallmann syndrome 1), full gene sequence HMBS (hydroxymethylbilane synthase) (eg, acute intermittent porphyria), full gene sequence PPOX (protoporphyrinogen oxidase) (eg, variegate porphyria), full gene sequence
81407	Molecular pathology procedure, Level 8 (eg, analysis of 26-50 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of >50 exons, sequence analysis of multiple genes on one platform)
81408	Molecular pathology procedure, Level 9 (eg, analysis of >50 exons in a single gene by DNA sequence analysis)
81412	Ashkenazi Jewish associated disorders (eg, Bloom syndrome, Canavan disease, cystic fibrosis, familial dysautonomia, Fanconi anemia group C, Gaucher disease, Tay-Sachs disease), genomic sequence analysis panel, must include sequencing of at least 9 genes, including ASPA, BLM, CFTR, FANCC, GBA, HEXA, IKBKAP, MCOLN1, AND SMPD1

81479	Unlisted molecular pathology procedure
81507	Fetal aneuploidy (trisomy 21, 18, and 13) DNA sequence analysis of selected regions using maternal plasma, algorithm reported as a risk score for each trisomy
81599	Unlisted multianalyte assay with algorithmic analysis

Applicable ICD-10 Diagnosis Codes

D56.0	Alpha thalassemia
D56.4	Hereditary persistence of fetal hemoglobin [HPFH]
D56.5	Hemoglobin E-beta thalassemia
D56.8	Other thalassemias
D57.00	Hb-SS disease with crisis, unspecified
D57.01	Hb-SS disease with acute chest syndrome
D57.02	Hb-SS disease with splenic sequestration
D57.1	Sickle-cell disease without crisis
D57.20	Sickle-cell/Hb-C disease without crisis
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome
D57.212	Sickle-cell/Hb-C disease with splenic sequestration
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified
D57.3	Sickle-cell trait
D57.40	Sickle-cell thalassemia without crisis
D57.411	Sickle-cell thalassemia with acute chest syndrome
D57.412	Sickle-cell thalassemia with splenic sequestration
D57.419	Sickle-cell thalassemia with crisis, unspecified
D57.80	Other sickle-cell disorders without crisis
D57.811	Other sickle-cell disorders with acute chest syndrome
D57.812	Other sickle-cell disorders with splenic sequestration
D57.819	Other sickle-cell disorders with crisis, unspecified
D58.2	Other hemoglobinopathies
D61.09	Other constitutional aplastic anemia
D82.1	Di George's syndrome
E23.6	Other disorders of pituitary gland
E28.8	Other ovarian dysfunction
E74.00	Glycogen storage disease, unspecified
E74.01	von Gierke disease

E74.02	Pompe disease
E74.03	Cori disease
E74.04	McArdle disease
E74.09	Other glycogen storage disease
E74.4	Disorders of pyruvate metabolism and gluconeogenesis
E75.00	GM2 gangliosidosis, unspecified
E75.01	Sandhoff disease
E75.02	Tay-Sachs disease
E75.09	Other GM2 gangliosidosis
E75.10	Unspecified gangliosidosis
E75.11	Mucolipidosis IV
E75.19	Other gangliosidosis
E75.21	Fabry (-Anderson) disease
E75.22	Gaucher disease
E75.23	Krabbe disease
E75.240	Niemann-Pick disease type A
E75.241	Niemann-Pick disease type B
E75.242	Niemann-Pick disease type C
E75.243	Niemann-Pick disease type D
E75.248	Other Niemann-Pick disease
E75.249	Niemann-Pick disease, unspecified
E75.25	Metachromatic leukodystrophy
E75.29	Other sphingolipidosis
E75.3	Sphingolipidosis, unspecified
E75.4	Neuronal ceroid lipofuscinosis
E77.0	Defects in post-translational modification of lysosomal enzymes
E77.1	Defects in glycoprotein degradation
E77.8	Other disorders of glycoprotein metabolism
E77.9	Disorder of glycoprotein metabolism, unspecified
E84.0	Cystic fibrosis with pulmonary manifestations
E84.11	Meconium ileus in cystic fibrosis
E84.19	Cystic fibrosis with other intestinal manifestations
E84.9	Cystic fibrosis, unspecified
G11.0	Congenital nonprogressive ataxia
G11.1	Early-onset cerebellar ataxia
G11.2	Late-onset cerebellar ataxia
G12.1	Other inherited spinal muscular atrophy
G12.8	Other spinal muscular atrophies and related syndromes

Familial dysautonomia [Riley-Day] Recurrent pregnancy loss Supervision of pregnancy with other poor reproductive or obstetric history, first trimester Supervision of pregnancy with other poor reproductive or obstetric history, second trimester Supervision of pregnancy with other poor reproductive or obstetric history, third trimester Supervision of pregnancy with other poor reproductive or obstetric history, unspecified trimester Trisomy 21, nonmosaldism (melotic nondisjunction) Trisomy 21, nonmosaldism (melotic nondisjunction) Trisomy 21, translocation Down syndrome, unspecified Trisomy 18, nonmosaldism (melotic nondisjunction) Trisomy 18, nonmosaldism (milotic nondisjunction) Trisomy 18, unspecified Trisomy 18, unspecified Trisomy 18, translocation Trisomy 18, unspecified Trisomy 13, unspecified Trisomy 14, translocation Trisomy 15, translocation Trisomy 16, translocation Trisomy 17, translocation Trisomy 18, unspecified Triso	G12.9	Spinal muscular atrophy, unspecified
009.291 Supervision of pregnancy with other poor reproductive or obstetric history, first trimester 009.292 Supervision of pregnancy with other poor reproductive or obstetric history, second trimester 009.293 Supervision of pregnancy with other poor reproductive or obstetric history, unspecified trimester 009.299 Supervision of pregnancy with other poor reproductive or obstetric history, unspecified trimester 009.200 Trisomy 21, nonmosalcism (milotic nondisjunction) 090.1 Trisomy 12, nonmosalcism (milotic nondisjunction) 090.2 Trisomy 21, translocation 091.0 Trisomy 18, nonmosalcism (meiotic nondisjunction) 091.1 Trisomy 18, nonmosalcism (meiotic nondisjunction) 091.2 Trisomy 18, unspecified 091.3 Trisomy 18, unspecified 091.4 Trisomy 18, nonsalcism (meiotic nondisjunction) 091.5 Trisomy 13, nonmosalcism (meiotic nondisjunction) 091.6 Trisomy 13, unspecified 091.7 Trisomy 13, unspecified 092.0 Whole chromosome trisomy, nonmosalcism (melotic nondisjunction) 092.1 Whole chromosome trisomy, mosalcism (milotic nondisjunction) 092.2 Partial trisomy 092.7 Triploidy and polyploidy 092.8 Other specified trisomies and partial trisomies of autosomes 092.9 Trisomy and partial trisomy of autosomes, unspecified 095.0 Balanced translocation and insertion in normal individual 095.2 Balanced sex/autosomal rearrangement in abnormal individual 096.0 Karyotype 45, X iso (Xo) 096.1 Karyotype 46, X iso (Xo) 096.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) 097.0 Karyotype 46, X with abnormal sex chromosome 097.0 Karyotype 47, XXX 096.1 Female with more than three X chromosomes 097.2 Mosalcism, 45, X/other cell line(s) with abnormal sex chromosome 097.1 Female with more than three X chromosomes 097.2 Female with 46, XY karyotype	G90.1	Familial dysautonomia [Riley-Day]
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09-293 Supervision of pregnancy with other poor reproductive or obstetric history, third trimester 090-299 Trisomy 21, noomosalism (melotic nondisjunction) 090-1 Trisomy 21, mosalism (mitotic nondisjunction) 090-2 Trisomy 21, translocation 090-9 Down syndrome, unspecified 091-0 Trisomy 18, nonmosalism (melotic nondisjunction) 091-1 Trisomy 18, mosalism (mitotic nondisjunction) 091-2 Trisomy 18, mosalism (mitotic nondisjunction) 091-3 Trisomy 18, unspecified 091-4 Trisomy 13, nonmosalism (melotic nondisjunction) 091-5 Trisomy 13, nonmosalism (mitotic nondisjunction) 091-6 Trisomy 13, translocation 091-7 Trisomy 13, translocation 091-7 Trisomy 13, translocation 092-1 Whole chromosome trisomy, nonmosalism (mitotic nondisjunction) 092-1 Whole chromosome trisomy, mosalism (mitotic nondisjunction) 092-2 Partial trisomy 092-7 Triploidy and polyploidy 092-8 Other specified trisomies and partial trisomies of autosomes 092-9 Trisomy and partial trisomy of autosomes, unspecified	009.291	Supervision of pregnancy with other poor reproductive or obstetric history, first trimester
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7 Trisomy 18, nonmosaicism (meiotic nondisjunction) 7 Trisomy 18, translocation 7 Trisomy 18, translocation 7 Trisomy 18, unspecified 7 Trisomy 13, nonmosaicism (meiotic nondisjunction) 7 Trisomy 13, nonmosaicism (meiotic nondisjunction) 7 Trisomy 13, nonmosaicism (meiotic nondisjunction) 7 Trisomy 13, unspecified 7 Trisomy 14, unspecified 7 Trisomy 15, unspecified 7 Trisomy 17, unspecified 7 Trisomy 18, unspecified 7 Trisomy 19, unspecified 8 Trisomy 19, unspecified 8 Trisomy 19, unspecified 8 Trisomy 19, unspecified trisomy, mosaicism (mitotic nondisjunction) 8 Trisomy 19, unspecified trisomy 19, unspecified 9 Trisomy and polyploidy 9 Trisomy and partial trisomies and partial trisomies of autosomes 9 Trisomy and partial trisomy of autosomes, unspecified 9 Balanced translocation and insertion in normal individual 9 Balanced survautosomal rearrangement in abnormal individual 8 Balanced survautosomal rearrangement in abnormal individual 8 Balanced survautosomal rearrangement in abnormal individual 8 Balanced survautosomal rearrangement in abnormal individual 9 Karyotype 46, X Koryotype 46, X with abnormal sex chromosome, except iso (Xq) 9 Mosaicism, 45, X/46, XX or XY 9 Mosaicism, 45, X/46, XX or XY 9 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome 9 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome 9 Mosaicism, 45, X/46, XX or XY 9 Mosaicism, 1ines with various numbers of X chromosomes 9 Mosaicism, lines with various numbers of X chromosomes 9 Female with 46, XY karyotype	Q90.2	Trisomy 21, translocation
991.1 Trisomy 18, mosaicism (mitotic nondisjunction) 91.2 Trisomy 18, translocation 91.3 Trisomy 18, unspecified 991.4 Trisomy 13, nonmosaicism (meiotic nondisjunction) 91.5 Trisomy 13, mosaicism (mitotic nondisjunction) 91.6 Trisomy 13, translocation 91.7 Trisomy 13, unspecified 92.0 Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction) 92.1 Whole chromosome trisomy, mosaicism (mitotic nondisjunction) 92.2 Partial trisomy 92.7 Triploidy and polyploidy 92.8 Other specified trisomies and partial trisomies of autosomes 92.9 Trisomy and partial trisomy of autosomes, unspecified 95.0 Balanced translocation and insertion in normal individual 95.2 Balanced autosomal rearrangement in abnormal individual 96.0 Karyotype 45, X 96.1 Karyotype 46, X iso (Xq) 96.2 Karyotype 46, X iso (Xq) 96.3 Mosaicism, 45, X/dher cell line(s) with abnormal sex chromosome 97.0 Karyotype 47, XXX 97.1 Female with more than three X chromosomes 97.2 Mosaicism, lines with various numbers of X chromosomes 97.3 Female with 46, XY karyotype	Q90.9	Down syndrome, unspecified
Trisomy 18, translocation 91.3 Trisomy 18, unspecified 91.4 Trisomy 13, nonmosaicism (meiotic nondisjunction) 91.5 Trisomy 13, mosaicism (mitotic nondisjunction) 91.6 Trisomy 13, translocation 91.7 Trisomy 13, unspecified 92.0 Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction) 92.1 Whole chromosome trisomy, mosaicism (mitotic nondisjunction) 92.2 Partial trisomy 92.7 Triploidy and polyploidy 92.8 Other specified trisomies and partial trisomies of autosomes 92.9 Trisomy and partial trisomy of autosomes, unspecified 95.0 Balanced translocation and insertion in normal individual 95.2 Balanced autosomal rearrangement in abnormal individual 96.0 Karyotype 45, X 96.1 Karyotype 46, X iso (Xq) 96.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) 96.3 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome 97.0 Karyotype 47, XXX 97.1 Female with more than three X chromosomes 97.2 Mosaicism, lines with various numbers of X chromosomes 97.3 Female with 46, XY karyotype	Q91.0	Trisomy 18, nonmosaicism (meiotic nondisjunction)
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991.4 Trisomy 13, nonmosaicism (meiotic nondisjunction) 991.5 Trisomy 13, mosaicism (mitotic nondisjunction) 991.7 Trisomy 13, unspecified 992.0 Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction) 992.1 Whole chromosome trisomy, mosaicism (mitotic nondisjunction) 992.2 Partial trisomy 992.7 Triploidy and polyploidy 992.8 Other specified trisomies and partial trisomies of autosomes 992.9 Trisomy and partial trisomy of autosomes, unspecified 995.0 Balanced translocation and insertion in normal individual 995.2 Balanced autosomal rearrangement in abnormal individual 995.3 Balanced sex/autosomal rearrangement in abnormal individual 996.0 Karyotype 46, X iso (Xq) 996.1 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) 996.3 Mosaicism, 45, X/46, XX or XY 996.4 Mosaicism, 45, X/40ther cell line(s) with abnormal sex chromosome 997.0 Karyotype 47, XXX 997.1 Female with more than three X chromosomes 997.2 Mosaicism, lines with various numbers of X chromosomes 997.2 Mosaicism, lines with various numbers of X chromosomes 997.3 Female with more than three X chromosomes	Q91.2	Trisomy 18, translocation
O91.5 Trisomy 13, mosaicism (mitotic nondisjunction) O91.6 Trisomy 13, translocation O91.7 Trisomy 13, unspecified O92.0 Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction) O92.1 Whole chromosome trisomy, mosaicism (mitotic nondisjunction) O92.2 Partial trisomy O92.7 Triploidy and polyploidy O92.8 Other specified trisomies and partial trisomies of autosomes O92.9 Trisomy and partial trisomy of autosomes, unspecified O95.0 Balanced translocation and insertion in normal individual O95.2 Balanced autosomal rearrangement in abnormal individual O95.3 Balanced sex/autosomal rearrangement in abnormal individual O96.0 Karyotype 45, X O96.1 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) O96.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) O96.3 Mosaicism, 45, X/46, XX or XY O96.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome O97.0 Karyotype 47, XXX O97.1 Female with more than three X chromosomes O97.2 Mosaicism, lines with various numbers of X chromosomes Female with More than three X chromosomes O97.2 Female with 46, XY karyotype	Q91.3	Trisomy 18, unspecified
O91.6 Trisomy 13, translocation O91.7 Trisomy 13, unspecified O92.0 Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction) O92.1 Whole chromosome trisomy, mosaicism (mitotic nondisjunction) O92.2 Partial trisomy O92.7 Triploidy and polyploidy O92.8 Other specified trisomies and partial trisomies of autosomes O92.9 Trisomy and partial trisomy of autosomes, unspecified O95.0 Balanced translocation and insertion in normal individual O95.2 Balanced autosomal rearrangement in abnormal individual O95.3 Balanced sex/autosomal rearrangement in abnormal individual O96.0 Karyotype 45, X O96.1 Karyotype 46, X iso (Xq) O96.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) O96.3 Mosaicism, 45, X/46, XX or XY O96.4 Mosaicism, 45, X/46 in XX or XY O97.0 Karyotype 47, XXX Female with more than three X chromosomes O97.0 Mosaicism, lines with various numbers of X chromosomes Female with 46, XY karyotype	Q91.4	Trisomy 13, nonmosaicism (meiotic nondisjunction)
O91.7 Trisomy 13, unspecified O92.0 Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction) O92.1 Whole chromosome trisomy, mosaicism (mitotic nondisjunction) O92.2 Partial trisomy O92.7 Triploidy and polyploidy O92.8 Other specified trisomies and partial trisomies of autosomes O92.9 Trisomy and partial trisomy of autosomes, unspecified O95.0 Balanced translocation and insertion in normal individual O95.2 Balanced autosomal rearrangement in abnormal individual O95.3 Balanced sex/autosomal rearrangement in abnormal individual O96.0 Karyotype 45, X O96.1 Karyotype 46, X iso (Xq) O96.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) O96.3 Mosaicism, 45, X/46, XX or XY O96.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome Varyotype 47, XXX O97.1 Female with more than three X chromosomes O97.2 Mosaicism, lines with various numbers of X chromosomes Female with 46, XY karyotype	Q91.5	Trisomy 13, mosaicism (mitotic nondisjunction)
 Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction) Whole chromosome trisomy, mosaicism (mitotic nondisjunction) Partial trisomy Triploidy and polyploidy Other specified trisomies and partial trisomies of autosomes Trisomy and partial trisomy of autosomes, unspecified Balanced translocation and insertion in normal individual Balanced autosomal rearrangement in abnormal individual Balanced sex/autosomal rearrangement in abnormal individual Karyotype 45, X Karyotype 46, X iso (Xq) Karyotype 46, X with abnormal sex chromosome, except iso (Xq) Mosaicism, 45, X/46, XX or XY Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome Karyotype 47, XXX Female with more than three X chromosomes Mosaicism, lines with various numbers of X chromosomes Female with 46, XY karyotype 	Q91.6	Trisomy 13, translocation
Q92.1 Whole chromosome trisomy, mosaicism (mitotic nondisjunction) Q92.2 Partial trisomy Q92.7 Triploidy and polyploidy Q92.8 Other specified trisomies and partial trisomies of autosomes Q92.9 Trisomy and partial trisomy of autosomes, unspecified Q95.0 Balanced translocation and insertion in normal individual Q95.2 Balanced autosomal rearrangement in abnormal individual Q95.3 Balanced sex/autosomal rearrangement in abnormal individual Q96.0 Karyotype 45, X Q96.1 Karyotype 46, X iso (Xq) Q96.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) Q96.3 Mosaicism, 45, X/46, XX or XY Q96.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome Q97.0 Karyotype 47, XXX Q97.1 Female with more than three X chromosomes Q97.2 Mosaicism, lines with various numbers of X chromosomes Female with 46, XY karyotype	Q91.7	Trisomy 13, unspecified
O92.2 Partial trisomy O92.7 Triploidy and polyploidy O92.8 Other specified trisomies and partial trisomies of autosomes O92.9 Trisomy and partial trisomy of autosomes, unspecified O95.0 Balanced translocation and insertion in normal individual O95.2 Balanced autosomal rearrangement in abnormal individual O95.3 Balanced sex/autosomal rearrangement in abnormal individual O96.0 Karyotype 45, X O96.1 Karyotype 46, X iso (Xq) O96.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) O96.3 Mosaicism, 45, X/46, XX or XY O96.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome O97.0 Karyotype 47, XXX O97.1 Female with more than three X chromosomes O97.2 Mosaicism, lines with various numbers of X chromosomes O97.3 Female with 46, XY karyotype	Q92.0	Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction)
Oy2.7 Triploidy and polyploidy Oy2.8 Other specified trisomies and partial trisomies of autosomes Oy2.9 Trisomy and partial trisomy of autosomes, unspecified Oy5.0 Balanced translocation and insertion in normal individual Oy5.2 Balanced autosomal rearrangement in abnormal individual Oy5.3 Balanced sex/autosomal rearrangement in abnormal individual Oy6.0 Karyotype 45, X Oy6.1 Karyotype 46, X iso (Xq) Oy6.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) Oy6.3 Mosaicism, 45, X/46, XX or XY Oy6.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome Oy7.0 Karyotype 47, XXX Oy7.1 Female with more than three X chromosomes Oy7.2 Mosaicism, lines with various numbers of X chromosomes Female with 46, XY karyotype	Q92.1	Whole chromosome trisomy, mosaicism (mitotic nondisjunction)
Other specified trisomies and partial trisomies of autosomes Orisomy and partial trisomy of autosomes, unspecified Orisomy and partial trisomy of autosomes autosomes Balanced translocation and insertion in normal individual Orisomy and partial trisomy of autosomes autosome in partial trisomy of autosomes Orisomy and partial trisomy and partial t	Q92.2	Partial trisomy
Trisomy and partial trisomy of autosomes, unspecified Q95.0 Balanced translocation and insertion in normal individual Q95.2 Balanced autosomal rearrangement in abnormal individual Q95.3 Balanced sex/autosomal rearrangement in abnormal individual Q96.0 Karyotype 45, X Q96.1 Karyotype 46, X iso (Xq) Q96.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) Q96.3 Mosaicism, 45, X/46, XX or XY Q96.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome Q97.0 Karyotype 47, XXX Q97.1 Female with more than three X chromosomes Q97.2 Mosaicism, lines with various numbers of X chromosomes Female with 46, XY karyotype	Q92.7	Triploidy and polyploidy
Description of the process of the pr	Q92.8	Other specified trisomies and partial trisomies of autosomes
Description of the second second of the seco	Q92.9	Trisomy and partial trisomy of autosomes, unspecified
Description of the sex	Q95.0	Balanced translocation and insertion in normal individual
C96.0 Karyotype 45, X C96.1 Karyotype 46, X iso (Xq) C96.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) C96.3 Mosaicism, 45, X/46, XX or XY C96.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome C97.0 Karyotype 47, XXX C97.1 Female with more than three X chromosomes C97.2 Mosaicism, lines with various numbers of X chromosomes C97.3 Female with 46, XY karyotype	Q95.2	Balanced autosomal rearrangement in abnormal individual
Cy6.1 Karyotype 46, X iso (Xq) Cy6.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) Cy6.3 Mosaicism, 45, X/46, XX or XY Cy7.0 Karyotype 47, XXX Cy7.1 Female with more than three X chromosomes Cy7.2 Mosaicism, lines with various numbers of X chromosomes Cy7.3 Female with 46, XY karyotype	Q95.3	Balanced sex/autosomal rearrangement in abnormal individual
C96.2 Karyotype 46, X with abnormal sex chromosome, except iso (Xq) C96.3 Mosaicism, 45, X/46, XX or XY C96.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome C97.0 Karyotype 47, XXX C97.1 Female with more than three X chromosomes C97.2 Mosaicism, lines with various numbers of X chromosomes C97.3 Female with 46, XY karyotype	Q96.0	Karyotype 45, X
Q96.3 Mosaicism, 45, X/46, XX or XY Q96.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome Q97.0 Karyotype 47, XXX Q97.1 Female with more than three X chromosomes Q97.2 Mosaicism, lines with various numbers of X chromosomes Q97.3 Female with 46, XY karyotype	Q96.1	Karyotype 46, X iso (Xq)
Q96.4 Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome Q97.0 Karyotype 47, XXX Q97.1 Female with more than three X chromosomes Q97.2 Mosaicism, lines with various numbers of X chromosomes Q97.3 Female with 46, XY karyotype	Q96.2	Karyotype 46, X with abnormal sex chromosome, except iso (Xq)
Q97.0 Karyotype 47, XXX Q97.1 Female with more than three X chromosomes Q97.2 Mosaicism, lines with various numbers of X chromosomes Q97.3 Female with 46, XY karyotype	Q96.3	Mosaicism, 45, X/46, XX or XY
Q97.1 Female with more than three X chromosomes Q97.2 Mosaicism, lines with various numbers of X chromosomes Q97.3 Female with 46, XY karyotype	Q96.4	Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome
Q97.2 Mosaicism, lines with various numbers of X chromosomes Q97.3 Female with 46, XY karyotype	Q97.0	Karyotype 47, XXX
Q97.3 Female with 46, XY karyotype	Q97.1	Female with more than three X chromosomes
	Q97.2	Mosaicism, lines with various numbers of X chromosomes
Q97.8 Other specified sex chromosome abnormalities, female phenotype	Q97.3	Female with 46, XY karyotype
	Q97.8	Other specified sex chromosome abnormalities, female phenotype

Q97.9	Sex chromosome abnormality, female phenotype, unspecified
Q98.0	Klinefelter syndrome karyotype 47, XXY
Q98.1	Klinefelter syndrome, male with more than two X chromosomes
Q98.3	Other male with 46, XX karyotype
Q98.4	Klinefelter syndrome, unspecified
Q98.5	Karyotype 47, XYY
Q98.6	Male with structurally abnormal sex chromosome
Q98.7	Male with sex chromosome mosaicism
Q98.8	Other specified sex chromosome abnormalities, male phenotype
Q98.9	Sex chromosome abnormality, male phenotype, unspecified
Q99.0	Chimera 46, XX/46, XY
Q99.1	46, XX true hermaphrodite
Q99.2	Fragile X chromosome
Q99.8	Other specified chromosome abnormalities
Q99.9	Chromosomal abnormality, unspecified
Z14.1	Cystic fibrosis carrier
Z14.1 Z14.8	Genetic carrier of other disease
Z14.89	Genetic susceptibility to other disease
Z31.430	Encounter of female for testing for genetic disease carrier status for procreative management
Z31.438	Encounter for other genetic testing of female for procreative management
Z31.440	Encounter of male for testing for genetic disease carrier status for procreative management
Z31.441	Encounter for testing of male partner of patient with recurrent pregnancy loss
Z31.5	Encounter for procreative genetic counseling
Z36.0	Encounter for antenatal screening for chromosomal anomalies
Z36.1	Encounter for antenatal screening for raised alphafetoprotein level
Z36.2	Encounter for other antenatal screening follow-up
Z36.3	Encounter for antenatal screening for malformations
Z36.4	Encounter for antenatal screening for fetal growth retardation
Z36.5	Encounter for antenatal screening for isoimmunization
Z36.81	Encounter for antenatal screening for hydrops fetalis
Z36.82	Encounter for antenatal screening for nuchal translucency
Z36.83	Encounter for fetal screening for congenital cardiac abnormalities
Z36.84	Encounter for antenatal screening for fetal lung maturity
Z36.85	Encounter for antenatal screening for Streptococcus B
Z36.86	Encounter for antenatal screening for cervical length
Z36.87	Encounter for antenatal screening for uncertain dates
Z36.88	Encounter for antenatal screening for fetal macrosomia
Z36.89	Encounter for other specified antenatal screening

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Z36.8A

Encounter for antenatal screening for other genetic defects

Z84.81

Family history of carrier of genetic disease

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