

## Noninvasive Prenatal Testing (NIPT) for Fetal Aneuploidy — Commercial/Medicaid

Last Review Date: August 12, 2022

Number: MG.MM.LA.15c

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### Definitions

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| Aneuploidy   | The occurrence of one or more extra or missing chromosomes leading to an unbalanced chromosome complement, or, any chromosome number that is not an exact multiple of the haploid number.  |
| Noninvasive prenatal testing (NIPT)<br>Aka cell-free DNA (cfDNA) testing | Lab test utilizing next generation sequencing technology to analyze cell-free fetal DNA from a maternal blood sample to screen for aneuploidies.   |
| Trisomy  | A type of aneuploidy characterized by the presence of a single extra chromosome, yielding a total of three chromosomes (triplicates) of a particular type instead of a pair.<br><br>Trisomies cause congenital conditions such as Down syndrome (trisomy 21), Edwards syndrome (trisomy 18) and Patau syndrome (trisomy 13). |

### Guideline

Noninvasive prenatal testing (NIPT) screening for fetal aneuploidy is considered medically necessary for pregnant members with singleton and twin\* pregnancies (not higher multi-gestational). (No maternal age limitation)

\*Coverage effective dates for the addition of twins are Nov.1, 2021 for Medicaid and Nov. 12, 2022 for Commercial.

Note: EmblemHealth utilizes Milliman Clinical Care Guidelines (MCGs) for the following alternate indications:

- MCG #ACG: A-0848 (AC) — Noninvasive Prenatal Testing (Cell-Free Fetal DNA) - Microdeletion Syndromes
- MCG #ACG: A-0849 (AC) — Noninvasive Prenatal Testing (Cell-Free Fetal DNA) - Monogenic Disorders
- MCG #ACG: A-0850 (AC) — Noninvasive Prenatal Testing (Cell-Free Fetal DNA) - Sex Chromosome Disorders

MCG guidelines are developed using publications that have been assessed in terms of quality, utility, and relevance. Preference is given to publications that:

- Are designed with rigorous scientific methodology.
- Are published in higher-quality journals (e.g., journals that are read and cited most often within their field). Address an aspect of specific importance to the guideline in question (admission criteria, length of stay).
- Represent an update or contain new data or information not reflected in the current guideline.

## Revision History

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|---------------|---|
| Aug. 12, 2022 | Expanded Commercial coverage to include twin pregnancies eff. Nov. 12, 2022<br>Removed Fetal Rhesus D MCG cross reference (no commercial tests available per MCG 26th ed. Summary of Changes) |
| Nov. 3, 2021  | Updated policy title to show applicability to Commercial/Medicaid members, as Medicare does not cover these services  |
| Oct. 20, 2021 | Expanded Medicaid coverage to include twin pregnancies eff. Nov. 1, 2021  |
| Dec. 11, 2020 | Reinstated from retirement and removed age limitation   |

## Applicable Procedure Codes

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| 0327U            | Fetal aneuploidy (trisomy 13, 18, and 21), DNA sequence analysis of selected regions using maternal plasma, algorithm reported as a risk score for each trisomy, includes sex reporting, if performed (eff. 7/1/2022)        |
| 81420            | Fetal chromosomal aneuploidy (eg, trisomy 21, monosomy X) genomic sequence analysis panel, circulating cell-free fetal DNA in maternal blood, must include analysis of chromosomes 13, 18, and 21                            |
| 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   |
| <del>0168U</del> | <del>Fetal aneuploidy (trisomy 21, 18, and 13) DNA sequence analysis of selected regions using maternal plasma without fetal fraction cutoff, algorithm reported as a risk score for each trisomy (deleted 10/01/2021)</del> |

## Applicable ICD-10 Diagnosis Codes

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| O09.511 | Supervision of elderly primigravida, first trimester                      |
| O09.512 | Supervision of elderly primigravida, second trimester                     |
| O09.513 | Supervision of elderly primigravida, third trimester                      |
| O09.519 | Supervision of elderly primigravida, unspecified trimester                |
| O09.521 | Supervision of elderly multigravida, first trimester                      |
| O09.522 | Supervision of elderly multigravida, second trimester                     |
| O09.523 | Supervision of elderly multigravida, third trimester                      |
| O09.529 | Supervision of elderly multigravida, unspecified trimester                |
| O28.1   | Abnormal biochemical finding on antenatal screening of mother             |
| O28.2   | Abnormal cytological finding on antenatal screening of mother             |
| O28.3   | Abnormal ultrasonic finding on antenatal screening of mother              |
| O28.4   | Abnormal radiological finding on antenatal screening of mother            |
| O28.5   | Abnormal chromosomal and genetic finding on antenatal screening of mother |

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| O28.8    | Other abnormal findings on antenatal screening of mother  |
| O28.9    | Unspecified abnormal findings on antenatal screening of mother  |
| O30.001  | Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, first trimester   |
| O30.002  | Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, second trimester  |
| O30.003  | Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, third trimester   |
| O30.009  | Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, unspecified       |
| O30.011  | Twin pregnancy, monochorionic/monoamniotic, first trimester   |
| O30.012  | Twin pregnancy, monochorionic/monoamniotic, second trimester  |
| O30.013  | Twin pregnancy, monochorionic/monoamniotic, third trimester   |
| O30.019  | Twin pregnancy, monochorionic/monoamniotic, unspecified trimester   |
| O30.031  | Twin pregnancy, monochorionic/diamniotic, first trimester   |
| O30.032  | Twin pregnancy, monochorionic/diamniotic, second trimester  |
| O30.033  | Twin pregnancy, monochorionic/diamniotic, third trimester   |
| O30.039  | Twin pregnancy, monochorionic/diamniotic, unspecified trimester   |
| O30.041  | Twin pregnancy, dichorionic/diamniotic, first trimester   |
| O30.042  | Twin pregnancy, dichorionic/diamniotic, second trimester  |
| O30.043  | Twin pregnancy, dichorionic/diamniotic, third trimester   |
| O30.049  | Twin pregnancy, dichorionic/diamniotic, unspecified trimester   |
| O30.091  | Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, first trimester       |
| O30.092  | Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, second trimester      |
| O30.093  | Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, third trimester       |
| O30.099  | Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, unspecified trimester |
| O35.1xx0 | Maternal care for (suspected) chromosomal abnormality in fetus, not applicable or unspecified             |
| O35.1xx1 | Maternal care for (suspected) chromosomal abnormality in fetus, fetus 1                                   |
| O35.1xx2 | Maternal care for (suspected) chromosomal abnormality in fetus, fetus 2                                   |
| O35.1xx9 | Maternal care for (suspected) chromosomal abnormality in fetus, other fetus                               |
| O09.00   | Supervision of pregnancy with history of infertility, unspecified trimester                               |
| O09.01   | Supervision of pregnancy with history of infertility, first trimester                                     |
| O09.02   | Supervision of pregnancy with history of infertility, second trimester                                    |
| O09.03   | Supervision of pregnancy with history of infertility, third trimester                                     |
| O09.10   | Supervision of pregnancy with history of ectopic pregnancy, unspecified trimester                         |
| O09.11   | Supervision of pregnancy with history of ectopic pregnancy, first trimester                               |
| O09.12   | Supervision of pregnancy with history of ectopic pregnancy, second trimester                              |
| O09.13   | Supervision of pregnancy with history of ectopic pregnancy, third trimester                               |
| O09.211  | Supervision of pregnancy with history of pre-term labor, first trimester                                  |
| O09.212  | Supervision of pregnancy with history of pre-term labor, second trimester                                 |
| O09.213  | Supervision of pregnancy with history of pre-term labor, third trimester                                  |
| O09.219  | Supervision of pregnancy with history of pre-term labor, unspecified trimester                            |

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| O09.291 | Supervision of pregnancy with other poor reproductive or obstetric history, first trimester                  |
| O09.292 | Supervision of pregnancy with other poor reproductive or obstetric history, second trimester                 |
| O09.293 | Supervision of pregnancy with other poor reproductive or obstetric history, third trimester                  |
| O09.299 | Supervision of pregnancy with other poor reproductive or obstetric history, unspecified trimester            |
| O09.30  | Supervision of pregnancy with insufficient antenatal care, unspecified trimester                             |
| O09.31  | Supervision of pregnancy with insufficient antenatal care, first trimester                                   |
| O09.32  | Supervision of pregnancy with insufficient antenatal care, second trimester                                  |
| O09.33  | Supervision of pregnancy with insufficient antenatal care, third trimester                                   |
| O09.40  | Supervision of pregnancy with grand multiparity, unspecified trimester                                       |
| O09.41  | Supervision of pregnancy with grand multiparity, first trimester   |
| O09.42  | Supervision of pregnancy with grand multiparity, second trimester  |
| O09.43  | Supervision of pregnancy with grand multiparity, third trimester   |
| O09.611 | Supervision of young primigravida, first trimester   |
| O09.612 | Supervision of young primigravida, second trimester  |
| O09.613 | Supervision of young primigravida, third trimester   |
| O09.619 | Supervision of young primigravida, unspecified trimester   |
| O09.621 | Supervision of young multigravida, first trimester   |
| O09.622 | Supervision of young multigravida, second trimester  |
| O09.623 | Supervision of young multigravida, third trimester   |
| O09.629 | Supervision of young multigravida, unspecified trimester   |
| O09.70  | Supervision of high risk pregnancy due to social problems, unspecified trimester                             |
| O09.71  | Supervision of high risk pregnancy due to social problems, first trimester                                   |
| O09.72  | Supervision of high risk pregnancy due to social problems, second trimester                                  |
| O09.73  | Supervision of high risk pregnancy due to social problems, third trimester                                   |
| O09.811 | Supervision of pregnancy resulting from assisted reproductive technology, first trimester                    |
| O09.812 | Supervision of pregnancy resulting from assisted reproductive technology, second trimester                   |
| O09.813 | Supervision of pregnancy resulting from assisted reproductive technology, third trimester                    |
| O09.819 | Supervision of pregnancy resulting from assisted reproductive technology, unspecified trimester              |
| O09.821 | Supervision of pregnancy with history of in utero procedure during previous pregnancy, first trimester       |
| O09.822 | Supervision of pregnancy with history of in utero procedure during previous pregnancy, second trimester      |
| O09.823 | Supervision of pregnancy with history of in utero procedure during previous pregnancy, third trimester       |
| O09.829 | Supervision of pregnancy with history of in utero procedure during previous pregnancy, unspecified trimester |
| O09.891 | Supervision of other high risk pregnancies, first trimester  |
| O09.892 | Supervision of other high risk pregnancies, second trimester   |
| O09.893 | Supervision of other high risk pregnancies, third trimester  |
| O09.899 | Supervision of other high risk pregnancies, unspecified trimester  |
| O09.90  | Supervision of high risk pregnancy, unspecified, unspecified trimester                                       |
| O09.91  | Supervision of high risk pregnancy, unspecified, first trimester   |

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| O09.92  | Supervision of high risk pregnancy, unspecified, second trimester               |
| O09.93  | Supervision of high risk pregnancy, unspecified, third trimester                |
| O09.A0  | Supervision of pregnancy with history of molar pregnancy, unspecified trimester |
| O09.A1  | Supervision of pregnancy with history of molar pregnancy, first trimester       |
| O09.A3  | Supervision of pregnancy with history of molar pregnancy, third trimester       |
| O26.20  | Pregnancy care for patient with recurrent pregnancy loss, unspecified trimester |
| O26.21  | Pregnancy care for patient with recurrent pregnancy loss, first trimester       |
| O26.22  | Pregnancy care for patient with recurrent pregnancy loss, second trimester      |
| O26.23  | Pregnancy care for patient with recurrent pregnancy loss, third trimester       |
| O26.841 | Uterine size-date discrepancy, first trimester                                  |
| O26.842 | Uterine size-date discrepancy, second trimester                                 |
| O26.843 | Uterine size-date discrepancy, third trimester                                  |
| O26.849 | Uterine size-date discrepancy, unspecified trimester                            |
| O26.851 | Spotting complicating pregnancy, first trimester                                |
| O26.852 | Spotting complicating pregnancy, second trimester                               |
| O26.853 | Spotting complicating pregnancy, third trimester                                |
| O26.859 | Spotting complicating pregnancy, unspecified trimester                          |
| O26.891 | Other specified pregnancy related conditions, first trimester                   |
| O26.892 | Other specified pregnancy related conditions, second trimester                  |
| O26.893 | Other specified pregnancy related conditions, third trimester                   |
| O26.899 | Other specified pregnancy related conditions, unspecified trimester             |
| O26.90  | Pregnancy related conditions, unspecified, unspecified trimester                |
| O26.91  | Pregnancy related conditions, unspecified, first trimester                      |
| O26.92  | Pregnancy related conditions, unspecified, second trimester                     |
| O26.93  | Pregnancy related conditions, unspecified, third trimester                      |
| O28.0   | Abnormal hematological finding on antenatal screening of mother                 |
| Q90.0   | Trisomy 21, nonmosaicism (meiotic nondisjunction)                               |
| Q90.1   | Trisomy 21, mosaicism (mitotic nondisjunction)                                  |
| Q90.2   | Trisomy 21, translocation   |
| Q90.9   | Down syndrome, unspecified  |
| Q91.0   | Trisomy 18, nonmosaicism (meiotic nondisjunction)                               |
| Q91.1   | Trisomy 18, mosaicism (mitotic nondisjunction)                                  |
| Q91.2   | Trisomy 18, translocation   |
| Q91.3   | Trisomy 18, unspecified   |
| Q91.4   | Trisomy 13, nonmosaicism (meiotic nondisjunction)                               |
| Q91.5   | Trisomy 13, mosaicism (mitotic nondisjunction)                                  |
| Q91.6   | Trisomy 13, translocation   |
| Q91.7   | Trisomy 13, unspecified   |

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| Q92.0   | Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction)                               |
| Q92.1   | Whole chromosome trisomy, mosaicism (mitotic nondisjunction)                                  |
| Q92.2   | Partial trisomy   |
| Q92.5   | Duplications with other complex rearrangements  |
| Q92.61  | Marker chromosomes in normal individual   |
| Q92.62  | Marker chromosomes in abnormal individual   |
| Q92.7   | Triploidy and polyploidy  |
| Q92.8   | Other specified trisomies and partial trisomies of autosomes                                  |
| Q92.9   | Trisomy and partial trisomy of autosomes, unspecified   |
| Q93.0   | Whole chromosome monosomy, nonmosaicism (meiotic nondisjunction)                              |
| Q93.1   | Whole chromosome monosomy, mosaicism (mitotic nondisjunction)                                 |
| Q93.2   | Chromosome replaced with ring, dicentric or isochromosome                                     |
| Q95.2   | Balanced autosomal rearrangement in abnormal individual                                       |
| Q95.3   | Balanced sex/autosomal rearrangement in abnormal individual                                   |
| 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                      |
| Z34.00  | Encounter for supervision of normal first pregnancy, unspecified trimester                    |
| Z34.01  | Encounter for supervision of normal first pregnancy, first trimester                          |
| Z34.02  | Encounter for supervision of normal first pregnancy, second trimester                         |
| Z34.03  | Encounter for supervision of normal first pregnancy, third trimester                          |
| Z34.80  | Encounter for supervision of other normal pregnancy, unspecified trimester                    |
| Z34.81  | Encounter for supervision of other normal pregnancy, first trimester                          |
| Z34.82  | Encounter for supervision of other normal pregnancy, second trimester                         |
| Z34.90  | Encounter for supervision of normal pregnancy, unspecified, unspecified trimester             |
| Z34.91  | Encounter for supervision of normal pregnancy, unspecified, first trimester                   |
| Z34.92  | Encounter for supervision of normal pregnancy, unspecified, second trimester                  |
| Z34.93  | Encounter for supervision of normal pregnancy, unspecified, third trimester                   |
| 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   |

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| 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           |
| Z36.8A | Encounter for antenatal screening for other genetic defects |
| Z36.9  | Encounter for antenatal screening, unspecified              |

## References

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New York State Department of Health. New York State Medicaid Update. August 2021. Medicaid Expansion of Non-invasive Prenatal Trisomy Screening Policy. [https://www.health.ny.gov/health\\_care/medicaid/program/update/2021/no10\\_2021-08.htm#trisomy](https://www.health.ny.gov/health_care/medicaid/program/update/2021/no10_2021-08.htm#trisomy). Accessed September 2, 2022.