Page: 1 of 19

MEDICAL POLICY



Medical Policy Title	Non-Invasive Prenatal Testing
Policy Number	2.02.25
Current Effective Date	April 17, 2025
Next Review Date	April 2026

Our medical policies are based on the assessment of evidence based, peer-reviewed literature, and professional guidelines. Eligibility for reimbursement is based upon the benefits set forth in the member's subscriber contract. (Link to Product Disclaimer)

POLICY STATEMENT(S)

- I. Non-invasive prenatal testing (NIPT) utilizing the plasma of a pregnant member (i.e., cell free DNA) to screen for trisomy 21 (T21), trisomy 13 (T13), and trisomy (T18) is **medically appropriate** for those members with singleton pregnancies.
- II. Serum analyte analysis combined with ultrasound for nuchal translucency (NT) measurement is **medically appropriate** for screening for T21, T13, and T18 in the first trimester of pregnancy.
- III. Screening for detection of chromosomal abnormalities using measurement of nuchal translucency is **not medically necessary**.
- IV. NIPT for the determination of twin zygosity is **not medically necessary** (CPT: 0060U).
- V. NIPT is **investigational** in **ALL** of the following scenarios:
 - A. Multiple gestation pregnancies;
 - B. Aneuploidies other than T21, T13, and T18;
 - Microdeletions (e.g., DiGeorge syndrome, Cri-du-chat syndrome, Shprintzen syndrome, Prader-Willi/Angelman syndromes, Wolf-Hirschorn syndrome, 1p36 deletion syndrome) (CPT: 81422);
 - D. Fetal sex chromosome aneuploidy (SCA);
 - E. Single-gene disorder screening (e.g., Vasistera [Natera], Unity Carrier Screen [Billion To One])
 - F. Rolling circle replication cell-free fetal DNA screening (e.g., Vanadis NIPT);
 - G. Measurement of fetal nasal bone length;
 - H. Non-invasive Fetal RhD genotyping or fetal antigen status (e.g., Rh Test [Natera], Prenatal Detect RhD, Devyser Genomic Laboratories).

RELATED POLICIES

Corporate Medical Policy

- 2.02.03 Genetic Testing for Inherited Disorders
- 4.01.03 Prenatal Genetic Testing

Policy Number: 2.02.25

Page: 2 of 19

11.01.03 Experimental or Investigational Services

POLICY GUIDELINE(S)

Noninvasive prenatal testing (NIPT) should only be offered in the context of informed consent, education, and counseling by a qualified provider, such as a certified genetic counselor. Abnormal NIPT results should be confirmed with chorionic villi sampling (CVS) or amniocentesis to exclude the possibility of a false positive NIPT result.

DESCRIPTION

Aneuploidy is a chromosomal abnormality defined as the gain or loss of one or more chromosomes from the normal chromosome number within a fetus. Structural anomalies, failure to thrive, intellectual disability, and a shortened lifespan are among the list of potential outcomes for a newborn born with aneuploidy.

The most common aneuploidies involve three copies of one chromosome and are known as trisomy syndromes. The most common syndrome among live births is Trisomy 21 (Down syndrome) and occurs in one 1/700 live births (Centers for Disease and Prevention). The risk for Trisomy 18 (Patau syndrome) and Trisomy 13 (Edward's syndrome) are also detectable through screening but have a much lower live birth rate.

There is a wide array of screening available throughout pregnancy. Each screening option has differing advantages, as well as limitations. The prevalence of aneuploidy is greater earlier in the pregnancy, as it accounts for a large portion of early pregnancy loss and the risk increases as a pregnant patient ages. Early detection provides an opportunity for discussions regarding early intervention, pregnancy termination, or fetal loss; however, pregnant individuals must be provided comprehensive counseling that allows for informed decision-making, is centered around the individual's values, and goals, and includes the right to decline screening after counseling.

Biochemical Serum and Ultrasound Markers

The standard or primary screening for chromosomal abnormalities utilizes conventional serum tests of free beta-human chorionic gonadotropin (hCG), pregnancy-associated plasma protein-A(PAPP-A), and ultrasound imaging of fetal nuchal translucency (NT), the fluid-filled space measured around the dorsal aspect of the fetal neck. An enlarged nuchal translucency (greater than 3.0 mm/99th percentile of the crown to rump length) is independently associated with aneuploidy and structural malformations. The combined testing also considers the patient's age, positive family history of aneuploidy, and if a parent has a risk for translocation.

Screening via ultrasound for nasal bone identification or measurement has been used as an ancillary method to assess the risk of aneuploidy in the first trimester. The absence of fetal nasal bone is considered to be a positive test result, indicating an increased risk of aneuploidy. The inability to visualize the nasal bone is regarded as an unsuccessful examination, rather than a positive test result. Fetal nasal bone examination can be performed from 11 weeks to just before 14 weeks' gestation. It is sometimes recommended that, if the nasal bone is absent on ultrasound performed between 11- and 12-weeks' gestation, a second examination be done two weeks later.

Policy Number: 2.02.25

Page: 3 of 19

Screening via Cell-Free DNA

An alternative to the standard screening is the use of sequencing-based tests- massively parallel sequencing (also known as next-generation sequencing (NGS)) (MPS), direct DNA analysis, and nucleotide variant-based methods to analyze fragments circulating in the pregnant patient's plasma. MPS uses an amplified polymerase chain reaction to map the fragments to the human genome to get the number of fragment counts per chromosome.

Rolling Circle Replication Cell-Free DNA Screening

Another proposed approach for screening of cell-free DNA (cfDNA) is with Vanadis NIPT (Vanadis Diagnostics, PerkinElmer, Sollentuna, Sweden). Vanadis NIPT does not require polymerase chain reaction (PCR) or sequencing, but rather uses rolling-circle replication and digital technology. It consists of three instruments that automate the extraction, processing, imaging, and counting of fluorescent DNA molecules. It uses algorithms and software to calculate trisomy risk. This test is reported to eliminate PCR bias, elaborate sample preparation, and complex analysis, thereby, reducing costs and the need for additional resources.

Microdeletions

cfDNA is being evaluated for use in the detection of chromosome microdeletions. Microdeletions are copy number variants that result in differences in the number of copies of one or more sections of DNA, that result in DNA losses. Microdeletions are too small to be detected via microscopy or cytogenetic methods. There are many disorders, with varying clinical features which differ based on the chromosome and gene that are compromised. Disorders that are associated with microdeletion include, but are not limited to DiGeorge Syndrome, Cri-du-chat syndrome, Shprintzen syndrome, Prader-Willi/Angelman syndromes, Wolf-Hirschorn syndrome, and 1p36 deletion syndrome.

Fetal Sex Chromosome Aneuploidy (SCA)

SCA occurs when there is an abnormal number of sex chromosomes (X&Y). These X&Y chromosome variations are not typically inherited, and the exact cause of them is unknown. Similar to microdeletions, clinical features vary based on the specific sex chromosome variation, and the number of extra X or Y chromosomes, and can include physical malformations, cognitive and growth disorders, as well as sexual and infertility problems. Examples of fetal sex chromosome aneuploidy include but are not limited to Klinefelter syndrome (1/1000 births), Turner syndrome, Jakob syndrome, and Triple X syndrome.

Single Gene Disorders

Single-gene, or monogenic disorders, are caused by variations in a single gene and are rare, but collectively are present in approximately 1% of births. The Vasistera Single-Gene NIPT panel (Natera) is a blood sample screening for 25 conditions that result from variants in 30 genes which have a combined prevalence of 1 in 600. Examples of single-gene disorders are Noonan syndrome and other Noonan spectrum disorders, skeletal disorders (e.g., Osteogenesis Imperfecta, achondroplasia), craniosynostosis syndromes, Cornelia de Lange syndrome, Alagille syndrome, tuberous sclerosis, epileptic encephalopathy, SYNGAP1-related intellectual disability, CHARGE syndrome, Sotos syndrome, and Rett syndrome. Using proprietary Quantitative Counting Template technology, the

Policy Number: 2.02.25

Page: 4 of 19

Unity Screen (Billion to One) tests for T21, T18, T13, sex chromosome aneuploidy, fetal sex, and fetal RhD status and can be reflexed to maternal carrier screening for recessively inherited conditions: cystic fibrosis, spinal muscular atrophy, sickle cell disease, alpha thalassemia, beta thalassemia, and fragile x syndrome (optional) without the need for paternal testing. The test requires only a maternal blood sample and background information on a priori risk factors to establish a proprietary personalized fetal risk score ranging from >9 in 10 risk to <1 in 20000 for the recessive conditions. The clinical presentation and severity of these disorders can vary widely. Some, but not all, can be detected via prenatal ultrasound.

Twin Zygosity

Twin gestations occur in approximately one in 30 live births in the United States and have a much greater risk of perinatal complications. Dizygotic (fraternal) twins occur from the ovulation and fertilization of two oocytes, which results in dichorionic placentation and two separate placentas while monochorionic (identical) twin pregnancies share their blood supply. Monochorionic twins account for about 20% of twin gestations and are at higher risk of structural defects, miscarriage, preterm delivery, and selective fetal growth restriction compared to dichorionic twins. Up to 15% of monochorionic twin pregnancies are affected by twin-to-twin transfusion syndrome (TTTS), a condition characterized by hypovolemia of one twin and hypervolemia of the other, given the uneven passing of blood between the twins. TTTS is estimated to occur in up to 15% of monochorionic twin pregnancies. In these twin pregnancies, fetal ultrasound examinations are necessary to monitor for the development of TTTS as well as selective intrauterine growth restriction because these disorders have high morbidity and mortality and treatments are available that can improve outcomes. NIPT using cfDNA to determine zygosity in twin pregnancies could potentially inform decisions about early surveillance for TTTS and other monochorionic twin-related abnormalities, or could potentially assist in the assessment of chorionicity, which is the main determinant of perinatal outcome in twin pregnancies, when ultrasound findings are not certain.

Fetal RhD

Rhesus D (RhD)-negative women who are exposed to RhD-positive red blood cells can develop anti-RhD antibodies, which can cross the placenta and cause fetal anemia. If undiagnosed and untreated, alloimmunization can cause significant perinatal morbidity and mortality. Determining the RhD status of the fetus may guide subsequent management of the pregnancy. Rho(D) immune globulin (RhIG) is a medication used to prevent RhD isoimmunization in mothers who are RhD negative. RhIG is commonly referred to as 'anti-D'.

SUPPORTIVE LITERATURE

Biochemical Serum and Ultrasound Markers

Pregnant patients are routinely offered blood-based screening or invasive diagnostic testing for the identification of T21, T13 and T18. Historically, standard screening involves combinations of the pregnant patient's serum markers and fetal ultrasound done at various stages of pregnancy. The detection rate for various combinations of NIPT ranges from 60% to 96% with a 5% false-positive rate, which is higher than desirable. When tests indicate a high risk of trisomy, karyotyping of fetal

Policy Number: 2.02.25

Page: 5 of 19

tissue obtained by amniocentesis or chorionic villus sampling is required to confirm that a trisomy is present.

Two large, multi-center studies, the Serum, Urine, and Ultrasound Screening (SURUSS) study (Wald, et al. 2003) and the Biochemistry, Ultrasound, and Nuchal Translucency (BUN) study (Wapner, RJ. 2005), show similar or greater estimates of sensitivity of first-trimester screening when compared either directly to second-trimester screening or to historical estimates of second-trimester screening. The SURUSS study demonstrated that NT assessment alone is inferior to either second-trimester or first-trimester combined screening.

Results of the First and Second Trimester Evaluation of Risk (FASTER) trial (Malone, et al. 2003), sponsored by the National Institute of Child Health and Human Development indicate that firsttrimester combined screening at 11 weeks gestation is better than second-trimester quadruple screening. FASTER was a multicenter (15 U.S. hospitals), prospective study comparing the rates of detection of first and second-trimester noninvasive screening methods for Down syndrome for singleton pregnancies. Participants underwent first-trimester screening consisting of NT thickness together with maternal age, and serum levels of PAPP-A and β-hCG at 11-, 12-, and 13-weeks' gestation, and then underwent screening again at 15-to-18 weeks gestation. Patients were not informed of the results of the first-trimester screening until after the second-trimester screening was completed. Of 38,167 patients, a total of 117 fetuses were identified as having Down syndrome. Researchers compared the results of (1) first-trimester combined screening; (2) second-semester screening; (3) stepwise sequential screening with results provided after each test; (4) fully integrated screening with a single result provided; and (5) serum-integrated screen identical to fully integrated screening but without nuchal translucency. Rates of detection using first-trimester combined screening were: 87% at 11 weeks, 85% at 12 weeks, and 82% at 13 weeks. The rate of detection using second-trimester screening was 81%. The rate of detection using first-trimester stepwise sequential screening was 95%, using serum integrated screening was 88%, and using fully integrated screening was 96%. Both stepwise sequential screening and fully integrated screening techniques had high rates of detection with low false positive rates.

Fetal Nose Bone Assessment

Studies have found a high rate of successful imaging of the fetal nasal bone and an association between absent nasal bone and the presence of T21 in high-risk populations. However, there is insufficient evidence on the performance of fetal nasal bone assessment in average-risk populations. Of particular concern is the low performance of fetal nasal bone assessment in a subsample of the FASTER study conducted in the general population sample (Malone, et al. 2004). Two studies conducted outside of the U.S. have found that when added to a first-trimester screening program evaluating pregnant patient's serum markers and NT, fetal nasal bone assessment can result in a modest decrease in the false-positive rate. Fetal nasal bone assessment has been proposed as a second stage of screening, to screen patients found to be at borderline risk using maternal serum markers and NT. Additional studies using this contingent approach are needed before conclusions can be drawn about its utility. In summary, given the uncertainty of test performance in average-risk populations and the lack of standardization in the approach to incorporating this test into a first-trimester screening program, the detection of fetal nasal bone is considered investigational.

Policy Number: 2.02.25

Page: 6 of 19

There is a lack of current literature to evaluate the clinical utility of this assessment.

Screening via Cell-Free DNA

cfDNA is the most sensitive and specific screening test for T21, T13, and T18 and can be performed any time after nine to ten weeks of gestation. The detection rate is the same regardless of the population tested. Norton and colleagues (2015) studied a series of 15,841 patients with cfDNA results for T21 and compared it with a general population using first-trimester screening with NT and serum analytes, it was identified that cfDNA had a lower false positive rate (0.06% for cfDNA vs. 5.4% for serum screening) and a higher positive predictive value (PPV) (80.9% vs. 3.4%).

Lindquist et al. 2020, conducted a retrospective study of 66,166 patients who received screening or diagnostic testing in Australia. Results demonstrated that the sensitivity of the first-trimester screening for detection of T21, T13, and T18 was 89.6% with a screen-positive rate of 2.9% and that the sensitivity of cfDNA for the same conditions was 100% with a screen-positive rate of 2.4% when no-call results were included as positive. There was no statistically significant difference in the rate of any major chromosomal abnormality detected on prenatal or postnatal diagnostic testing after a low-risk screening result.

Rolling Circle Replication Cell-Free Fetal DNA Screening (e.g., Vanadis NIPT)

Literature supporting the utility of rolling circle replication cfDNA screening is limited. Published studies include proof of concept, and validation studies that are limited by potential conflicts of interest among the authors.

Pooh and colleagues (2021) in an observational, prospective validation study (CRITO) of 1218 pregnant individuals, aimed to validate the accuracy of the Vanadis NIPT system by determining the causes and mechanisms of discrepancies between results of Vanadis screening and genetic test results. The mean maternal age was 36.2 (18-50) and participants were at 11 weeks gestation or greater. The PPV of T21, T18, and T13 were 93.55%, 88.46%, and 100%, respectively. There were ten false positive cases. In 90% of those, results of further placental examination demonstrated that in 75% of these false positive cases, placental mosaicism or a demised twin with aneuploidy was confirmed. The study was aimed to evaluate the test in a high-risk population. Therefore, the clinical utility for the general population remains unclear.

Copy Number Variants- Microdeletions

Tian et al. (2023) conducted a retrospective analysis of 452 pregnancies who had previously undergone chromosomal microarray analysis following amniocentesis or chorionic villus sampling. Participants also had NIPT with microdeletion and microduplication analysis performed and compared the testing results. Several syndromes due to copy number variants were identified with sensitivities ranging from 33%-100%. Limitations of the study include the low number of overall confirmed cases, the absence of confidence intervals for sensitivity, and a lack of statistical reporting for other test characteristics such as specificity, PPV, NPV, and uncertain indications for testing.

Rose et al. (2022), for the American College of Genetics and Genomics (ACMG) conducted a systematic review of NIPT using cfDNA in general-risk pregnancies. The study included 17 studies of screening for microdeletions and microduplications. Meta-analyses were not conducted due to study

Policy Number: 2.02.25

Page: 7 of 19

heterogeneity. Although screening identified a small number of copy number variants, confirmatory testing was frequently unavailable. Sample sizes in each study were small and sensitivities had great variation. Additionally, it was difficult to distinguish between low- and high-risk cohorts in individual studies. The study authors concluded that the performance of NIPT was significantly poorer when targeting copy number variants than T21, T13, and T18, and additional outcome studies are needed to understand the unique clinical value of NIPT for copy number variants.

Zaninovic et al. (2022) conducted a systematic review of NIPT for copy number variants and microdeletions. A total of 32 studies were identified with literature searches conducted through February 2022. Of these, 21 studies concerned screening for microdeletion syndromes. Meta-analyses were not conducted due to study heterogeneity. The authors described important limitations of the included studies. Most studies did not define indications for screening and some included only high-risk pregnancies. Negative predictive values could not be determined because none of the studies performed systematic analysis confirming the outcome by chromosomal microarray analysis for negative/low-risk cases, most relied on clinical follow-up. The study authors concluded that given the limited follow-up and validation data available, NIPT for microdeletions and copy number variants should be used with caution.

Multiple Gestations

Judah et al. (2021) reported on cfDNA testing in 1,442 twin pregnancies. Study populations included a mix of high and average-risk pregnancies for aneuploidies. The cfDNA test classified correctly 19 (95.0%) of the 20 cases of T21, nine (90.0%) of ten cases of T18, one (50.0%) of two cases of T13, and 1,235 (99.6%) of 1,240 cases without any of the three trisomies. The pooled weighted detection rate and false positive rate (FPR) were 99.0% (95% CI 92.0% to 99.9%) and 0.02% (95% CI 0.001% to 0.43%), respectively. In the combined total of 50 cases of T18 and 6,840 non-trisomy 18 pregnancies, the pooled weighted detection rate and FPR were 92.8% (95% CI 77.6% to 98.0%) and 0.01% (95% CI 0.00, 0.44%), respectively. In the combined total of 11 cases of T13 and 6,290 non-trisomy 13 pregnancies, the pooled weighted detection rate and FPR were 94.7% (95% CI 9.14, 99.97%) and 0.10% (95% CI 0.03% to 0.39%). The evidence was limited by the small number of cases and individual study limitations included a high risk of selection bias (e.g., screening performed in populations that had previously been screened using methods including the pregnant individuals' age, first-trimester combined test, or second-trimester serum biochemistry). The study authors concluded that the detection rate of T21 was high, but lower than that in singleton pregnancies. The number of cases of T18 and T13 was too small for an accurate assessment of the predictive performance of the test.

The Rose et al. (2022) study also reported performance characteristics of NIPT to detect trisomies in multifetal gestations. Seven studies representing 4,271 twin pregnancies were included in meta-analyses. The study authors concluded that performance characteristics were generally comparable to NIPT performance in singleton pregnancies but that few studies had comprehensively evaluated NIPT performance in twin gestations. In addition to the small number of cases overall, individual study limitations included a lack of complete follow-up data to be able to identify true negative and true positive cases, and an inability to distinguish low- and high-risk cohorts in some studies.

Policy Number: 2.02.25

Page: 8 of 19

In 2022, the American College of Medical Genetics and Genomics (ACMG), based on the Rose et al. systematic review, provided an updated guideline to their 2016 recommendations for NIPT for fetal chromosome abnormalities in a general-risk population. The update changed the societies' opinion regarding the use of NIPT for trisomy screening in twin gestations (strong recommendation, based on high certainty of evidence), however, note that there are fewer published studies in existence compared to the number of studies in singleton pregnancies. The FASTER trial did not include twin pregnancies, and therefore, there is limited data on the performance of traditional screening in twin pregnancies (or higher-order multiples) for comparison.

The lack of direct evidence of the clinical utility of the use of cfDNA for multiple gestations is insufficient to determine that the technology results in an improvement in the net health outcome.

Twin Zygosity

Norwitz and colleagues (2019) conducted a prospective validation study of 126 total twin pregnancies using a single-nucleotide polymorphism-based NIPT. Of those evaluated, 95 samples with confirmed zygosity were available. Two samples had no results due to low fetal fraction. Of the 93 pregnancies with results, monozygotic sensitivity and specificity were 100%. The study had limitations. It is unknown if the samples were selected randomly or consecutively, and the techniques used to confirm zygosity varied. Future well-controlled studies are warranted to confirm the performance of the testing and determine how its use compares to standard care (early ultrasonographic confirmation).

Fetal Sex Chromosome Aneuploidy

The most common sex chromosome aneuploidy (SCA) is 47, XXY (Klinefelter syndrome), and has a prevalence of 1 in 500 males. The only viable monosomy is 45, X (Turner Syndrome) and has a prevalence of 1 in 2,500. Available data on the diagnostic performance of sequencing-based tests for detecting SCA is limited. The data available suggests its performance is not as high as it is for detection of T21, T18, and T13 and there is a higher rate of false-positive tests.

Badeau et al. (2017), in a Cochrane review, evaluated the diagnostic accuracy of NIPT for SCA by reviewing 12 studies conducted on the 45, X chromosome with sensitivities of 91.7% to 92.4% and specificities of 99.6% to 99.8%. Reviewers calculated that of 100,000 pregnancies, 1,039 would be affected by 45, X chromosomes. Of these, 953 (massively parallel sequencing) and 960 (targeted massively parallel sequencing) would be detected, and 86 and 79 cases, respectively, would be missed. Of the 98,961 unaffected women, 396 and 198 pregnant women would undergo unnecessary invasive tests. The authors were unable to perform meta-analyses of NIPT for chromosomes 47, XXX, 47, XXY, and 47, XYY due to insufficient evidence.

ACMG's 2022 guideline update (based upon the systematic review by Rose, et al 2022) included a changed opinion regarding the use of NIPT for fetal SCA. The society states that "The option of screening for fetal SCA is unique to NIP[T] and has not been available through traditional screening. Therefore, direct comparisons of screening performance between the two modalities cannot be done." ACMG notes that the performance of NIPT for SCA was high across all the common types (monosomy X, XXX, XXY, and XYY) with detection rates of 99.8% (95% CI=94.8-100%) and a specificity of 99.8% (95% CI=99.7%-99.9%) however, positive predictive values (PPV) differ across the SCAs. The PPVs for NIPT use for screening of 47, XXY, for example, was 74% (95% CI=58.4%-

Policy Number: 2.02.25

Page: 9 of 19

85.8%). The PPV for NIPT use for screening of 45, X was 29.5% (95% CI=22.7%-37.4%). Additionally, the studies that were reviewed by the panel did not specify the type of diagnostic testing performed to confirm SCA.

The current literature does not provide conclusive evidence that NIPT screening for SCA has a definite positive effect on health outcomes.

Single Gene Disorders

The literature available for the use of Vasistera Single-gene NIPT includes retrospective cohort studies (Zhang, 2019) and Mohen, 2022) and have a concern for multiple limitations, including a lack of confirmatory testing, missing follow-up data and potential for selection bias, which creates difficulty with determining accurate estimates of true positive and true negative results. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

The performance of the UNITY single-gene NIPT was evaluated in a clinical validation study by Hoskovec et al. in 2023. The study participants (n=9151) included a non-high risk general population for cystic fibrosis, hemoglobinopathies, and spinal muscular atrophy, who were screened with UNITY from August 2019 to May 2021. All pregnancies were singletons, greater than or equal to 10 weeks gestation and were not conceived with a donor egg or gestational carrier. A total of 1669 (18.2%) women within the cohort were found to be heterozygous carriers for a pathogenic variant of at least one condition (4.47% were heterozygous for a CFTR pathogenic variant, 4.64% for an HBB variant, 8.65% for HBA1/HBA2 variant, and 2.26% for SMN1) and underwent reflex single-gene NIPT. Newborn outcomes data was available for 201 (12%) pregnancies with an identified positive maternal carrier, and of these, 10 (4.9%) had no call single-gene NIPT results and were excluded from the analysis. Single-gene NIPT identified 14 out of 15 affected fetuses as high risk for one of the screened conditions on the panel, resulting in a sensitivity of 93.3% (95% CI, 68.1% to 99.8%), a PPV of 48.3% (95% CI, 36.1% to 60.1%) and a NPV of 99.4% (95% CI, 96% to 99.9%). Newborn outcomes by proprietary personalized fetal risk score across all screened conditions showed that 4 out of 4 (100%) pregnancies with greater than nine in 10 risk were affected, 8 out of 17 (47%) with risks between one in two and two in three risk were affected, two out of eight (25%) with risks between one in 10 and one in 100 were affected, and one out of 162 (0.6%) with risks less than one in 100 were affected. The authors modeled the end-to-end clinical analytics of carrier screening with UNITY versus standard NGS carrier screening. The authors reported that in a real-world scenario accounting for the sensitivity of carrier screening and single-gene NIPT, the end-to-end sensitivity of carrier screening with UNITY was 90% (95% CI, 71.8% to 98.9%), which was higher than that for conventional carrier screening. Wynn et al (2023) also evaluated the UNITY NIPT in a general population of 42,067 pregnant individuals who underwent UNITY carrier screening. A total of 7538 (17.92%) carriers were identified and underwent reflex single-gene NIPT. Only 3299 were able to be contacted for follow-up. The outcomes cohort consisted of 528 neonates and fetuses who were able to be assessed for single-gene disorders across 253 centers in the U.S. The authors calculated that in this cohort, the sensitivity of the UNITY NIPT was 96.0% (95% CI, 79.65% to 99.90%), with a specificity of 95.2% (95% CI, 92.98%to 96.92%), PPV of 50.0% (95% CI, 35.23% to 64.77%), and an NPV of 99.8% (95% CI, 98.84% to 99.99%). Single-gene NIPT identified nine of 10 pregnancies affected by cystic fibrosis, 11 of 11 affected HBB, four of four affected by spinal muscular atrophy,

Policy Number: 2.02.25

Page: 10 of 19

and none affected by HBA as high risk. The authors modeled the performance characteristics of maternal carrier screening followed by single-gene NIPT with the UNITY NIPT. They found an end-to-end sensitivity of 92.4% with a specificity of 99.9% and PPV and NPV values of 50.7% and 99.9%, respectively of the full cohort of 42067 pregnancies; this was higher than conventional carrier screening and would result in a greater number of fetuses being characterized as high risk. There are major limitations to these studies including data, a lack of consistent confirmatory testing methods, and selection bias. Given the limitations, it is not possible to determine accurate estimates of true positive and true negative tests. The added benefit of Unity NIPT compared with current approaches is unclear.

There is a potential that prenatal identification of pregnancies with single-gene disorders could improve health outcomes to allow for informed reproductive decision-making and/or initiate earlier treatment; however, data demonstrating improvement are unavailable. Additionally, given the variability of single-gene disorders identified by the tests, there is a lack of experience with routine genetic screening for some of these disorders, with uncertainty regarding clinical decision-making based on the NIPT results.

Fetal RhD

For individuals who are pregnant and have Rhesus D (RhD)-negative blood type who receive noninvasive RhD genotyping of the fetus using cfDNA from maternal plasma, the evidence includes a meta-analysis and additional prospective studies (for clinical validity) and no direct evidence for clinical utility. Relevant outcomes are test validity, morbid events, medication use, and treatment-related morbidity. Clinical validity studies have demonstrated that the sensitivity and specificity of the test are high; however, the false-negative test rate, while low, is not zero, potentially leading to alloimmunization of the RhD-negative mothers in these cases. It is uncertain whether RhD genotyping using cfDNA will lead to improved health outcomes. Limited studies have been performed and the study populations lack diversity. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

A 2020 Ontario Health Technology Assessment (HTA) evaluated the accuracy, clinical utility, and cost-effectiveness of noninvasive fetal RhD blood group genotyping for RhD-negative pregnant individuals. The evaluation included a literature search which identified six systematic reviews addressing test accuracy and eleven studies addressing clinical utility. Test accuracy was found to be high across all the systematic reviews and indicated that implementation of fetal cfDNA testing for RhD genotype could lead to avoidance of unneeded RhIG prophylaxis (GRADE: Low), good compliance with targeted RHIG prophylaxis (GRADE: very low), and high uptake of genotyping (GRADE: low). In addition, alloimmunization may not increase with the use of fetal cfDNA RhD genotyping for targeting prenatal RhIG prophylaxis and unnecessary monitoring and invasive procedures in alloimmunized pregnant individuals may be reduced (both GRADE: very low). The HTA concluded that overall, fetal cfDNA testing for fetal RhD blood group genotyping is an accurate test to detect RhD incompatibility and help steer management of RhD-negative pregnancies, but only low to very low-quality evidence was identified to indicate that fetal cfDNA testing for RhD genotype would lead to the avoidance of unnecessary RhIG prophylaxis, high compliance with targeted RhIG programs and high uptake of genotyping.

Policy Number: 2.02.25

Page: 11 of 19

A prospective cohort, systematic review and meta-analysis was performed by Yang et al. (2019, included in the 2020 Ontario HTA discussed above) to assess the diagnostic accuracy of highthroughput NIPT for fetal RhD status in RhD-negative women not known to be sensitized to the RhD antigen. Databases scanned for this meta-analysis included MEDLINE, EMBASE and Science Citation Index and were searched through February 2016. Included for review were 3,921 identified studies. The study population included RhD negative pregnant women known to not be sensitized to the RhD antigen and the index test was high-throughput cfDNA on maternal plasma. Serological cord blood testing at birth was considered the reference standard and eligible studies were required to report diagnostic accuracy data including true positive, false positive, true negative and false negative absolute numbers. Diagnostic accuracy of NIPT varied by gestational age with data suggesting that NIPT was consistently accurate any time after the first trimester. The false negative rate (those incorrectly classified as RhD negative) was 0.34% (95% CI 0.15-0.76) and the false positive rate (incorrectly classified as RhD positive) was 3.86% (95% CI 2.54-5.82). Because this study is a metaanalysis, the authors described the risk of bias in the original articles and several of the included studies were deemed to be high-risk for bias due to the selected populations and the reference standards. Authors concluded, the use of high-throughput NIPT testing as a routine screening test for fetal RhD status in RhD-negative women can largely remove unnecessary exposure to prophylactic anti-D treatment (Anti-D (rh) immunoglobulin is a prescription medication used to prevent Rh immunization, also known as Rh incompatibility). Due to limited evidence, the accuracy of NIPT in non-white women and multiple pregnancies is unclear. Further research to improve the NIPT test itself is also warranted, especially for reducing the number of inconclusive test results.

A clinical validation study was performed by Thompson, et al. (2025) that aimed to provide clinical validation of a NGS-based, noninvasive prenatal cfDNA test for fetal RhD (Natera). 655 pregnant patients with RhD-negative serology were used in this study. Additional inclusion criteria: the residual sample passed quality metrics; a previously reported noninvasive prenatal cell-free DNA result for fetal aneuploidy; documented RhD-negative serologic results for the pregnant person; documented serologic results for the RhD antigen in the newborn for the pregnancy of interest (serologic truth); maternal genotype identified as RhD deletion or RHD-CE-D hybrid(r's); and identification of the pregnancy as a singleton or monozygotic twin pregnancy based on SNP-based noninvasive prenatal cell free DNA testing. Dizygotic twin pregnancies were excluded. The study identified clinical cases with previous commercial single-nucleotide polymorphism (SNP)-based noninvasive prenatal cfDNA testing that were evaluated between April 1, 2022, and September 30, 2022, and had residual samples in the Natera, Inc. proprietary research sample bank. Maternal and fetal RhD genotypes were evaluated with prospective cfDNA NGS analysis. At the time of analysis, investigators were blinded to fetal RhD status. There were zero false-negative cases; 356 of 356 fetuses were correctly identified as fetal RhD positive (sensitivity 100%, 95% CI, 98.9–100%). Of the 297 RhD-negative fetuses, 295 were correctly identified as RhD negative (specificity 99.3%, 95% CI, 97.6–99.8%). Limitations of the study include limited ability to identify certain nondeletion genotypes more common in individuals of non-White or non-European ancestry, concerns about cost-effectiveness of prenatal cfDNA screening compared with routine screening, and the potential for sampling bias because the cohort was not random and consisted of patients with previous SNP-based cfDNA

Policy Number: 2.02.25

Page: 12 of 19

screening. Authors concluded, the test has the potential to assist patients and clinicians in the prevention and management of RhD alloimmunization.

PROFESSIONAL GUIDELINE(S)

American College of Obstetricians and Gynecologists (ACOG) and Society for Maternal Fetal Medicine (SMFM) addressed screening for fetal chromosomal abnormalities in ACOG Practice Bulletin Number 226 (2020).

Level A recommendations (based on good and consistent scientific evidence) regarding cfDNA include:

- Prenatal genetic screening (serum screening with or without nuchal translucency ultrasound or cfDNA screening) and diagnostic testing should be offered to all pregnant women regardless of maternal age or risk for chromosome abnormality.
- If screening is accepted, patients should only have one screening performed and not multiple screening tests performed simultaneously.
- cfDNA is the most sensitive and specific screening test for the common fetal aneuploidies.
 Nevertheless, it has the potential for false-positive and false-negative results. Furthermore, cfDNA testing is not equivalent to diagnostic testing.
- Patients with positive screening should have genetic counseling, comprehensive ultrasound and be offered diagnostic testing.
- Patients whose cfDNA are not reportable are at increased risk for chromosomal aneuploidy and should be offered genetic counseling, comprehensive ultrasound, and diagnostic testing.

Level B recommendations (based on limited or inconsistent scientific evidence) regarding cfDNA include:

- The use of cfDNA as follow-up for patients with a screen positive serum-analyte test result is an option for patients who want to avoid diagnostic testing.
- In situations of isolated, soft ultrasound markers and no prior screening has been performed either cfDNA, quad screen or diagnostic testing should be offered.
- cfDNA screening can be performed for twin pregnancies. Overall performance of screening
 for trisomy 21 by cfDNA in twin pregnancies is encouraging, but the total number of
 reported affected cases is small. Given the small number of affected cases it is difficult to
 determine an accurate detection rate for trisomy 18 and 13.
- Prenatal screening and prenatal diagnosis should be offered to all pregnant individuals regardless of previous preimplantation genetic testing.

Level C recommendations (primarily based on consensus/expert opinion) regarding cfDNA include:

• In multifetal gestations, if a fetal demise, vanishing twin, or anomaly is identified in one fetus, there is a significant risk of an inaccurate test result if serum-based aneuploidy screening or

Policy Number: 2.02.25

Page: 13 of 19

cfDNA is used. In these situations, the pregnant individual should be counseled on this information and offered diagnostic testing.

 Patients with unusual or multiple aneuploidies detected by cfDNA should be referred for genetic counseling.

In 2018, the ACOG reaffirmed its 2006 position (Practice bulletin 192) that detection of fetal Rhesus D (RhD) using molecular analysis of maternal plasma or serum can be assessed in the second trimester with an accuracy greater than 99% but that this test is not a widely used clinical tool. ACOG have recommended that the first dose of Rh(D) immunoglobulin (e.g., RhoGAM) be given at 28 weeks of gestation (or earlier if there's been an invasive event), followed by a postpartum dose given within 72 hours of delivery. This statement was last reaffirmed in 2024.

In its 2017 Practice Bulletin Number 181 on the prevention of RhD alloimmunization, the College stated that "Despite the improved accuracies noted with noninvasive fetal RhD genotyping, cost comparisons with current routine prophylaxis of anti-D immunoglobulin at 28 weeks of gestation have not shown a consistent benefit and, thus, this test is not routinely recommended." This statement was last reaffirmed in 2024.

Sperling et al (2018) compared the guidelines from the American College of Obstetricians and Gynecologists as well as 3 international guidelines on the prevention of RhD alloimmunization. All four guidelines recommended that all women have an antibody screen with an indirect Coombs test at prenatal intake and at 24 to 28 weeks. None currently recommend screening with cfDNA.

An ACOG practice advisory recognizes the emerging technology and availability of cfDNA screening for single-gene disorders but emphasized that there is insufficient evidence to demonstrate accuracy and positive and negative predictive values for general population use (ACOG, 2019; reaffirmed 2024). For this reason, ACOG does not recommend single gene cfDNA screening in pregnancy.

REGULATORY STATUS

Clinical laboratories may develop and validate tests in-house and market them as a laboratory service. Laboratory-developed tests must meet the general regulatory standards of the Clinical Laboratory Improvement Amendments (CLIA). Laboratories that offer laboratory-developed tests must be licensed by CLIA for high-complexity testing.

More information is available at:

Clinical Laboratory Improvement Amendments (CLIA) | FDA [accessed 2025 Mar 18]

CODE(S)

- Codes may not be covered under all circumstances.
- Code list may not be all inclusive (AMA and CMS code updates may occur more frequently than policy updates).
- (E/I)=Experimental/Investigational
- (NMN)=Not medically necessary/appropriate

CPT Codes

Policy Number: 2.02.25

Page: 14 of 19

Codo	Description
Code	Description
76813	Ultrasound, pregnant uterus, real time with image documentation, first trimester fetal nuchal translucency measurement, transabdominal or transvaginal approach; single or first gestation (*only in conjunction with 84163/84704).
76814	Ultrasound, pregnant uterus, real time with image documentation, first trimester fetal nuchal translucency measurement, transabdominal or transvaginal approach; each additional gestation (List separately in addition to code for primary procedure)
	(*only in conjunction with 84163 /84704).
81420	Fetal chromosomal aneuploidy (e.g., trisomy 21, monosomy X), genomic sequence analysis panel, circulating cell-free fetal DNA in maternal blood, must include analysis of chromosome 13, 18, and 21
81422 (E/I)	Fetal chromosomal microdeletion(s) genomic sequence analysis (e.g., DiGeorge syndrome, Cri-du-chat syndrome), circulating cell-free fetal DNA in maternal blood
81479	Unlisted molecular pathology procedure (e.g., Vanadis NIPT)
	(E/I) Refer to Policy Statement V.F.
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 (e.g., sex chromosome aneuploidy)
	(E/I) Refer to Policy Statement V.D.
84163	Pregnancy-associated plasma protein-A (PAPP-A)
84704	Gonadotropin, chorionic (hCG); free beta chain
0060U (NMN)	Twin zygosity, genomic targeted sequence analysis of chromosome 2, using circulating cell-free fetal DNA in maternal blood (Twin Zygosity PLA, Natera, Inc)
0327U (E/I)	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. (Vasistera, Natera, Inc)
0449U (E/I)	Carrier screening for severe inherited conditions (e.g., cystic fibrosis, spinal muscular atrophy, beta hemoglobinopathies [including sickle cell disease], alpha thalassemia), regardless of race or self-identified ancestry, genomic sequence analysis panel, must include analysis of 5 genes (CFTR, SMN1, HBB, HBA1, HBA2) (Unity Carrier Screen, Billion To One) (Effective 04/01/24)

Policy Number: 2.02.25

Page: 15 of 19

Description
Obstetrics (single-gene noninvasive prenatal test), cell-free DNA sequence analysis of 1 or more targets (eg, CFTR, SMN1, HBB, HBA1, HBA2) to identify paternally inherited pathogenic variants, and relative mutation-dosage analysis based on molecular counts to determine fetal inheritance of maternal mutation, algorithm reported as a fetal risk score for the condition (eg, cystic fibrosis, spinal muscular atrophy, beta hemoglobinopathies [including sickle cell disease], alpha thalassemia) (Unity Fetal Risk Screen, Billion To One) (Effective 10/01/24) (E/I) Refer to policy statement V.E
Red blood cell antigen (fetal RhD gene analysis), next-generation sequencing of circulating cell-free DNA (cfDNA) of blood in pregnant individuals known to be RhD negative, reported as positive or negative (Rh Test, Natera) (Effective 10/01/24) (E/I) Refer to policy statement V.H
Red blood cell antigen (fetal RhD), PCR analysis of exon 4 of RHD gene and housekeeping control gene GAPDH from whole blood in pregnant individuals at 10+ weeks gestation known to be RhD negative, reported as fetal RhD status (Prenatal Detect RhD, Devyser Genomic Laboratories, Devyser AB) (Effective 04/01/25) (E/I) Refer to policy statement V.H

Copyright © 2025 American Medical Association, Chicago, IL

HCPCS Codes

Code	Description
	No specific codes

ICD10 Codes

Code	Description
Q90.0-Q90.9	Down syndrome (code range)
Q91.0-Q91.7	Trisomy 18 and Trisomy 13 (code range)
Q92.0-Q92.5	Other trisomies and partial trisomies of the autosomes, not elsewhere classified (code range)
Q92.61-Q92.9	Marker Chromosomes (code range)
Q93.0-Q93.9	Monosomies and deletions from the autosomes, not elsewhere classified (code range)

Policy Number: 2.02.25

Page: 16 of 19

Code	Description
Q95.0-Q95.9	Balanced rearrangements and structural markers, not elsewhere classified (code range)
Q96.0-Q96.9	Turner's syndrome (code range)
Q97.0-Q97.9	Other sex chromosome abnormalities, female phenotype, not elsewhere classified
Q98.0-Q98.9	Other sex chromosome abnormalities, male phenotype, not elsewhere classified (code range)
Q99.0-Q99.9	Other chromosome abnormalities, not elsewhere classified (code range)
Z31.430- Z31.448	Encounter for procreative investigation and testing, male or female (code range)
Z31.5	Encounter for procreative genetic counseling
Z36.0-Z36.9	Encounter for antenatal screening of mother (code range)

REFERENCES

American College of Obstetrics and Gynecology. ACOG Committee opinion No. 682: Microarrays and next-generation sequencing technology: the use of advanced genetic diagnostic tools in obstetrics and gynecology. Obstet Gynecol. 2016 Dec.

American College of Obstetrics and Gynecology. ACOG Practice advisory: Cell-free DNA to Screen for Single Gene Disorders. [Internet] Feb 2019, reaffirmed Sept 2024. [Accessed 2025 Mar 20] Available from: https://www.acog.org/clinical/clinical-guidance/practice-advisory/articles/2019/02/cell-free-dna-to-screen-for-single-gene-disorders

American College of Obstetrics and Gynecology Committee on Practice Bulletins. ACOG practice bulletin No. 163: screening for fetal aneuploidy. Obstet Gynecol. 2016 May;127(5):e127-37.

American College of Obstetrics and Gynecology Committee on Practice Bulletins. ACOG practice bulletin No. 181: prevention of Rh D alloimmunization. Obstet Gynecol. 2017 Aug;130(2):e57-e70.

American College of Obstetrics and Gynecology Committee on Practice Bulletins. ACOG practice bulletin No. 192: management of alloimmunization during pregnancy. Obstet Gynecol. 2018 Mar;131(3):e82-e90.

American College of Obstetrics and Gynecology Committee on Practice Bulletins. ACOG practice bulletin No. 226: screening for fetal chromosomal abnormalities. Obstet Gynecol. 2020 Oct:136(4):e48-e69.

Policy Number: 2.02.25

Page: 17 of 19

American College of Obstetrics and Gynecology Committee on Practice Bulletins. ACOG committee opinion No. 640: Cell-free DNA screening for fetal aneuploidy. Obstet Gynecol. 2015 Sep;126(3):691-2.

He Y, et al. Clinical performance of non-invasive prenatal testing for trisomies 21, 18 and 13 in twin pregnancies: A cohort study and a systematic meta-analysis. Acta Obstet Gynecol. Scand 2020 Jun;99(6):731-743.

Hoskovec J, et al. Maternal carrier screening with single-gene NIPS provides accurate fetal risk assessments for recessive conditions. Genet Med. Feb 2023; 25(2): 100334.

Judah, et al. Cell-free DNA testing of maternal blood in screening for trisomies in twin pregnancy: updated cohort study at 10-14 weeks and meta-analysis. Ultrasound Obstet Gynecol. 2021 Aug; 58(2):178-189.

Lindquist, et al. State-wide utilization and performance of traditional and cell-free DNA-based prenatal testing pathways: the Victorian Perinatal Record Linkage (PeRL) study. Ultrasound Obstet Gynecol. 2020 Aug; 56(2):215-224.

Malone FD, et al. for the FASTER Research Consortium. First-trimester nasal bone evaluation for aneuploidy in the general population. Am Coll Obstet Gynecol. 2004;104(6):1222-8.

Malone FD, et al. First and second trimester evaluation of risk (FASTER) trial: principal results of the NICHD multicenter down syndrome screening study. Am Journ Obstet Gynecol. 2003 Dec;189(6).

Mohen, P, et al. Clinical experience with non-invasive prenatal screening for single-gene disorders. Ultrasound Obstet Gynecol. 2022 Jan;59(1):33-39.

Norton ME, et al. Cell-free DNA analysis for noninvasive examination of trisomy. N Engl J Med. 2015;273:1589-1597.

Norwitz ER, et al. Validation of a single-nucleotide polymorphism-based non-invasive prenatal test in twin gestations: determination of zygosity, individual fetal sex, and fetal aneuploidy. J Clin Med. 2019 Jun 28; 8(7):1-10.

Ontario Health (Quality). Noninvasive fetal RhD blood group genotyping: A health technology assessment. Ont Health Technol Assess Ser. 2020 Nov 2;20(15):1-160.

Papanna R and Bergh E. Twin-twin transfusion syndrome: screening, prevalence, pathophysiology, and diagnosis. UpToDate [Internet] 2022 May 10 [Accessed 2025 Mar 12] Available from: https://www.uptodate.com/contents/twin-twin-transfusion-syndrome-screening-prevalence-pathophysiology-and-

diagnosis?search=twin%20twin%20transfusion%20syndrome&source=search_result&selectedTitle=1 ~40&usage type=default&display rank=1

Pooh RK, et al. Clinical validation of fetal cfDNA analysis using rolling-circle-replication and imaging technology in Osaka (CRITO Study). Diagnostics. 2021 Oct 4;11(1837):1-22.

Rose et al. Systematic evidence-based review: the application of noninvasive prenatal screening using cell-free DNA in general-risk pregnancies. Genet Med 2022. Jul;24(7):1379-1391.

Policy Number: 2.02.25

Page: 18 of 19

Sperling JD, et al. Prevention of RhD Alloimmunization: a comparison of Four National Guidelines. Am J Perinatol. Jan 2018; 35(2): 110-119.

Thompson, MG, et al. Clinical validation of a prenatal cell-free DNA screening test for fetal RHD in a large US cohort. Obstet Gynecol. 2025 Feb 1;145(2):211-216.

Tian W, et al. Evaluation of the clinical utility of extended non-invasive prenatal testing in the detection of chromosomal aneuploidy and microdeletion/microduplication. Eur J Med. Res Aug 30 2023; 28(1):304.

Wapner RJ. First trimester screening: the BUN study. Semin Perinatol. 2005 Aug;29(4):236-239.

Wald NJ, et al. First and second trimester antenatal screening for Down's syndrome: the results of the serum, urine and ultrasound screening study (SURUSS). J Med Screen. 2003; 10(2):56-104.

Wynn J, et al. Performance of single-gene noninvasive prenatal testing for autosomal recessive conditions in a general population setting. Prenat Diagn. Sep 2023; 43(10): 1344-1354.

Xie X, et al. Noninvasive prenatal testing for trisomies 21, 18, and 13, sex chromosome aneuploidies, and microdeletions in average-risk pregnancies: a cost-effective analysis. J Obstet Gynaecol Can. 2020 Jun;42(6):740-749.

Yang H, et al. High-throughput, non-invasive prenatal testing for fetal rhesus D status in RhD negative women: A systematic review and meta-analysis. BMC Med. 2019; 17;37.

Zaninovic, L et al. Validity and utility of non-invasive prenatal testing for copy number variations and microdeletions: a systematic review. J Clin Med. 2022 Jun 10; 11(12)1-15.

Zhang, J and Saucier JB. Non-invasive prenatal sequencing for multiple Mendelian monogenic disorders using circulating cell-free fetal DNA. Nat Med. 2019 Mar;25(3):439-447.

SEARCH TERMS

Not applicable

CENTERS FOR MEDICARE AND MEDICAID SERVICES (CMS)

There is currently no National Coverage Determination (NCD) or Local Coverage Determination (LCD) for First Trimester Screening of Down Syndrome. However, CMS considers HCG testing a covered indication in specific instances but is not addressed in relation to first trimester screening for Down syndrome.

LCD - Molecular Pathology Procedures (L35000) [accessed 2025 Mar 12]

PRODUCT DISCLAIMER

- Services are contract dependent; if a product does not cover a service, medical policy criteria do not apply.
- If a commercial product (including an Essential Plan or Child Health Plus product) covers a specific service, medical policy criteria apply to the benefit.

Policy Number: 2.02.25

Page: 19 of 19

- If a Medicaid product covers a specific service, and there are no New York State Medicaid guidelines (eMedNY) criteria, medical policy criteria apply to the benefit.
- If a Medicare product (including Medicare HMO-Dual Special Needs Program (DSNP) product)
 covers a specific service, and there is no national or local Medicare coverage decision for the
 service, medical policy criteria apply to the benefit.
- If a Medicare HMO-Dual Special Needs Program (DSNP) product DOES NOT cover a specific service, please refer to the Medicaid Product coverage line.

POLICY HISTORY/REVISION

Committee Approval Dates

09/15/05, 07/20/06, 08/16/07, 08/21/08, 02/19/09, 04/21/11, 03/15/12, 03/21/13, 06/20/13, 07/17/14, 03/19/15, 03/17/16, 06/15/17, 03/15/18, 03/21/19, 03/19/20, 03/18/21, 03/24/22, 05/18/23, 04/18/24, 04/17/25

Date	Summary of Changes
04/17/25	 Annual review. Addition of RhD criteria as investigational. New CPT code 0536U added.
01/01/25	Summary of changes tracking implemented.
11/18/04	Original effective date