To all beneficiaries enrolled in a Prepaid Health Plan (PHP): for questions about benefits and services available on or after November 1, 2019, please contact your PHP.

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**Attachment A: Claims-Related Information**

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1.0 Description of the Procedure, Product, or Service

1.1 Hematopoietic Stem-Cell Transplantation

Hematopoietic stem cell transplantation (HSCT) refers to a procedure in which hematopoietic stem cells are infused to restore bone marrow function in cancer patients who receive bone-marrow-toxic doses of cytotoxic drugs, with or without whole-body radiation therapy. Hematopoietic stem cells may be obtained from the transplant recipient (i.e., autologous HSCT) or from a donor (i.e., allogeneic HSCT). They can be harvested from bone marrow, peripheral blood, or umbilical cord blood and placenta shortly after delivery of neonates. Although cord blood is an allogeneic source, the stem cells in it are antigenically “naïve” and thus are associated with a lower incidence of rejection or graft-versus-host disease (GVHD).

Immunologic compatibility between infused stem cells and the recipient is not an issue in autologous HSCT. However, immunologic compatibility between donor and patient is a critical factor for achieving a good outcome of allogeneic HSCT. Compatibility is established by typing human leukocyte antigens (HLA) using cellular, serologic, or molecular techniques. HLA refers to the tissue type expressed at the HLA A, B, and DR loci on each leg of chromosome 6. Depending on the disease being treated, an acceptable donor will match the patient at all or most of the HLA loci with the exception of umbilical cord blood.

1.2 Conventional Preparative Conditioning for Hematopoietic SCT

The success of autologous HSCT is predicated on the ability of cytotoxic chemotherapy with or without radiation to eradicate cancerous cells from the blood and bone marrow. This permits subsequent engraftment and repopulation of bone marrow space with presumably normal hematopoietic stem cells obtained from the patient prior to undergoing bone marrow ablation. As a consequence, autologous HSCT is typically performed as consolidation therapy when the patient’s disease is in complete remission. Patients who undergo autologous HSCT are susceptible to chemotherapy-related toxicities and opportunistic infections prior to engraftment, but not GVHD.

The conventional (“classical”) practice of allogeneic HSCT involves administration of cytotoxic agents (e.g., cyclophosphamide, busulfan) with or without total-body irradiation at doses sufficient to destroy endogenous hematopoietic capability in the recipient. The beneficial treatment effect in this procedure is due to a combination of initial eradication of malignant cells and subsequent graft-versus-malignancy effect (GVM) effect mediated by nonself immunologic effector cells that develop after engraftment of allogeneic stem cells within the patient’s bone marrow space. While the slower GVM effect is considered to be the potentially curative component, it may be
overwhelmed by extant disease without the use of pretransplant conditioning. However, intense conditioning regimens are limited to patients who are sufficiently fit medically to tolerate substantial adverse effects that include pre-engraftment opportunistic infections secondary to loss of endogenous bone marrow function and organ damage and failure caused by the cytotoxic drugs.

Furthermore, in any allogeneic HSCT, immune suppressant drugs are required to minimize graft rejections and GVHD, which also increases susceptibility of the patient to opportunistic infections.

### 1.3 Reduced Intensity Conditioning for Allogeneic HSCT

Reduced-intensity conditioning (RIC) refers to the pretransplant use of lower doses or less intense regimens of cytotoxic drugs or radiation than are used in traditional full-dose myeloablative conditioning treatments. The goal of RIC is to reduce disease burden but also to minimize as much as possible associated treatment-related morbidity and nonrelapse mortality (NRM) in the period during which the beneficial GVM effect of allogeneic transplantation develops. Although the definition of RIC remains arbitrary, with numerous versions employed, all seek to balance the competing effects of NRM and relapse due to residual disease. RIC regimens can be viewed as a continuum in effects, from nearly totally myeloablative to minimally myeloablative with lymphoablation, with intensity tailored to specific diseases and patient condition. Patients who undergo RIC with allogeneic HSCT initially demonstrate donor cell engraftment and bone marrow mixed chimerism. Most will subsequently convert to full-donor chimerism, which may be supplemented with donor lymphocyte infusions to eradicate residual malignant cells.

For the purposes of the Policy, the term “reduced-intensity conditioning” will refer to all conditioning regimens intended to be nonmyeloablative, as opposed to fully myeloablative (traditional) regimens.

### 1.4 Non-Hodgkin’s Lymphoma (NHL)

A heterogeneous group of lymphoproliferative malignancies, NHL usually originates in lymphoid tissue. Historically, uniform treatment of patients with NHL was hampered by the lack of a uniform classification system. In 1982, the Working Formulation (WF) was developed to unify different classification systems into one. The WF divided NHL into low-, intermediate-, and high-grade, with subgroups based on histologic cell type. Since our understanding of NHL has improved, the diagnosis has become more sophisticated and includes the incorporation of new immunophenotyping and genetic techniques. As a result, the WF has become outdated.

European and American pathologists proposed a new classification, the Revised European American Lymphoma (REAL) Classification, and an updated version of the REAL system, the new World Health Organization (WHO) classification. The WHO/REAL classification recognizes three (3) major categories of lymphoid malignancies based on morphology and cell lineage: B-cell neoplasms, T-cell/natural killer (NK)-cell neoplasms, and Hodgkin’s lymphoma.

The most recent lymphoma classification is the 2008 WHO Classification:

#### Mature B-cell neoplasms
a. Chronic lymphocytic leukemia/small lymphocytic lymphoma
b. B-cell prolymphocytic leukemia
c. Splenic marginal zone lymphoma
d. Hairy cell leukemia
e. Splenic lymphoma/leukemia, unclassifiable
   1. Splenic diffuse red pulp small B-cell lymphoma*
   2. Hairy cell leukemia-variant*
f. Lymphoplasmacytic lymphoma
   1. Waldenstrom macroglobulinemia
g. Heavy chain diseases
   1. Alpha heavy chain disease
   2. Gamma heavy chain disease
   3. Mu heavy chain disease
h. Plasma cell myeloma
i. Solitary plasmacytoma of bone
j. Extrasosseous plasmacytoma
k. Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue (MALT lymphoma)
l. Nodal marginal zone B-cell lymphoma (MZL)
   1. Pediatric type nodal MZL
m. Follicular lymphoma
   1. Pediatric type follicular lymphoma
n. Primary cutaneous follicle center lymphoma
o. Mantle cell lymphoma
p. Diffuse large B-cell lymphoma (DLBCL), not otherwise specified
   1. T cell/histiocyte rich large B-cell lymphoma
   2. DLBCL associated with chronic inflammation
   3. Epstein-Barr virus (EBV)+ DLBCL of the elderly
q. Lymphomatoid granulomatosis
r. Primary mediastinal (thymic) large B-cell lymphoma
s. Intravascular large B-cell lymphoma
t. Primary cutaneous DLBCL, leg type
u. ALK [anaplastic lymphoma kinase] + large B-cell lymphoma
v. Plasmablastic lymphoma
w. Primary effusion lymphoma
x. Large B-cell lymphoma arising in HHV8-associated multicentric Castleman disease
y. Burkitt lymphoma
z. B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell lymphoma and Burkitt lymphoma
aa. B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell lymphoma and classical Hodgkin’s lymphoma

*These represent provisional entities or provisional subtypes of other neoplasms.

Diseases shown in italics are newly included in the 2008 WHO classification.

Mature T-cell and NK-cell neoplasms
a. T-cell prolymphocytic leukemia
b. T-cell large granular lymphocytic leukemia
c. Chronic lymphoproliferative disorder of NK-cells*
d. Aggressive NK cell leukemia
e. Systemic EBV [Epstein-Bar virus]+ T-cell lymphoproliferative disease of childhood
(associated with chronic active EBV infection)
f. Hydroa vacciniforme-like lymphoma
g. Adult T-cell leukemia/lymphoma
h. Extranodal NK/T cell lymphoma, nasal type
i. Enteropathy-associated T-cell lymphoma
j. Hepatosplenic T-cell lymphoma
k. Subcutaneous panniculitis-like T-cell lymphoma
l. Mycosis fungoides
m. Sézary syndrome
n. Primary cutaneous CD30+ T-cell lymphoproliferative disorder
   1. Lymphomatoid papulosis
   2. Primary cutaneous anaplastic large-cell lymphoma
o. Primary cutaneous aggressive epidermotropic CD8+ cytotoxic T-cell lymphoma*
p. Primary cutaneous gamma-delta T-cell lymphoma
q. Primary cutaneous small/medium CD4+ T-cell lymphoma*
r. Peripheral T-cell lymphoma, not otherwise specified
s. Angioimmunoblastic T-cell lymphoma
t. Anaplastic large cell lymphoma (ALCL), ALK+
u. Anaplastic large cell lymphoma (ALCL), ALK–*

*These represent provisional entities or provisional subtypes of other neoplasms.

Diseases shown in italics are newly included in the 2008 WHO classification

In the United States, B-cell lymphomas represent 80%–85% of cases of NHL, and T-cell lymphomas represent 15%–20%. NK lymphomas are relatively rare.

In general, the NHL can be divided into two prognostic groups, indolent and aggressive. Indolent NHL has a relatively good prognosis, with a median survival of 10 years; however, it is not curable in advanced clinical stages. Early-stage indolent NHL [stage 1 or 2] may be effectively treated with radiation alone. Although indolent NHL is responsive to radiation and chemotherapy, a continuous rate of relapse is seen in advanced stages. These patients can often be re-treated, if their disease remains of the indolent type. Indolent NHL may transform into a more aggressive form, which is generally treated with regimens that are used for aggressive, recurrent NHL. Histologic transformation to higher grade lymphoma occurs in up to 70% of patients with low-grade lymphoma, and median survival with conventional chemotherapy is one year or less.

Follicular lymphoma (FL) is the most common indolent NHL (70%–80% of cases), and often the terms indolent lymphoma and FL are used synonymously. Also included in the indolent NHL are small lymphocytic lymphoma/chronic lymphocytic leukemia (SLL/CLL), lymphoplasmatic lymphoma, marginal zone lymphomas, and cutaneous T-cell lymphoma.

Aggressive NHL has a shorter natural history; however, 30%–60% of these patients can be cured with intensive combination chemotherapy regimens. Aggressive lymphomas include diffuse large B-cell lymphoma (DLBCL), mantle cell lymphoma (MCL), peripheral T-cell lymphoma (PTCL), anaplastic large cell lymphoma, and Burkitt’s lymphoma.

Oncologists developed a clinical tool to aid in predicting the prognosis of patients with aggressive NHL (specifically DLBCL), referred to as the International Prognostic Index.
Prior to the development of IPI in 1993, prognosis was predominantly based on disease stage.

Based on the number of risk factors present and adjusted for patient age, the IPI defines four risk groups: low, low intermediate, high intermediate and high risk, based on five significant risk factors prognostic of overall survival (OS):

1. Age older than 60 years
2. Elevated serum lactate dehydrogenase (LDH) level
3. Ann Arbor stage III or IV disease
4. Eastern Cooperative Oncology Group (ECOG) performance status of 2, 3, or 4
5. Involvement of more than one extranodal site

Risk groups are stratified according to the number of adverse factors as follows: 0 or 1 is low risk, 2 is low intermediate, 3 is high intermediate, and 4 or 5 are high risk.

Patients with two or more risk factors have a less than 50% chance of relapse-free survival and overall survival (OS) at five years. Age-adjusted (aaIPI) and stage-adjusted modifications of this IPI are used for younger patients with localized disease.

Adverse risk factors for age-adjusted IPI include stage III or IV disease, elevated LDH and ECOG performance status greater than 2, and can be calculated as follows: 0 is low risk, 1 is low intermediate, 2 is high intermediate, and 3 is high risk.

With the success of the IPI, a separate prognostic index was developed for FL, which has multiple independent risk factors for relapse after a first complete remission. The proposed and validated Follicular Lymphoma International Prognostic Index (FLIPI) contains five adverse prognostic factors:

1. Age older than 60 years
2. Ann Arbor stage III-IV
3. Hemoglobin level less than 12.0 g/dL
4. More than four lymph node areas involved
5. Elevated serum lactate dehydrogenase (LDH) level

These five factors are used to stratify patients into 3 categories of risk: low [0 - 1 risk factor], intermediate [2 risk factors], or poor [more than 3 risk factors].

Mantle Cell Lymphoma (MCL)
Mantle cell lymphoma (MCL) comprises approximately 6%–8% of NHL, and has been recognized within the past 15 years as a unique lymphoma subtype with a particularly aggressive course. MCL is characterized by a chromosomal translocation t(11;14), and the term mantle cell lymphoma was proposed in 1992 by Banks et al. The number of therapeutic trials are not as numerous for MCL as for other NHL as it was not widely recognized until the REAL classification. MCL shows a strong predilection for elderly men, and the majority of cases (70%) present with disseminated [stage 4] disease and extranodal involvement is common. Localized MCL is quite rare. MCL has a median survival of approximately two –four years, and although most patients achieve remission with first-line therapy, relapse inevitably occurs, often within 12–18 months. MCL is rarely, if ever, cured with conventional therapy, and no standardized therapeutic approach to MCL is used.

There had been no generally established prognostic index for patients with MCL. Application of the IPI or FLIPI system to patients with MCL showed serious limitations, which included no separation of some important risk groups. In addition, some of the individual IPI and FLIPI risk factors, including number of extranodal
sites and number of involved nodal areas showed no prognostic relevance, and hemoglobin showed no independent prognostic relevance in patients with MCL. Therefore, a new prognostic index for patients with MCL was developed, and should prove useful in comparing clinical trial results for MCL.

1. MCL international prognostic index (MIPI):
   A. Age
   B. ECOG performance status
   C. Serum LDH (calculated as a ratio of LDH to a laboratory’s upper limit of normal)
   D. White blood cell count (WBC)
      (i) Zero points each are assigned for age younger than 50 years, ECOG performance 0–1, LDH ratio less than 0.67, WBC less than 6,700
      (ii) One point each for age 50–59 years, LDH ratio 0.67–0.99, WBC 6,700–9,999.
      (iii) Two points each for age 60–69 years, ECOG 2–4, LDH ratio 1.00–1.49, WBC 10,000–14,999
      (iv) Three points each for age 70 years or older, LDH ratio 1.5 or greater, WBC 15,000 or more

2. MIPI allows separation of three groups with significantly different prognoses:
   A. 0 - 3 points=low risk, 44% of patients, median OS not reached and a five-year OS rate of 60%
   B. 4 - 5 points=intermediate risk, 35% of patients, median OS 51 months
   C. 6 - 11 points=high risk, 21% of patients, median OS 29 months

b. Peripheral T-Cell Lymphoma (PTCL)

   The majority of peripheral T-cell lymphomas are aggressive and fall into the category of PTCL, unspecified (PTCL-u) or not otherwise specified (PTCL-NOS), angioimmunoblastic or anaplastic large cell which, combined make up approximately 60–70% of T-cell lymphomas. PTCLs are less responsive to standard chemotherapy than DLBCLs and carry a worse prognosis than aggressive B-cell counterparts. Survival rates at 5 years with standard chemotherapy regimens range from 20-35%. The poor results with conventional chemotherapy have prompted exploration of the role of HSCT as therapy.

1.5 Staging

The Ann Arbor staging classification is commonly used for the staging of lymphomas and is the scheme defined in the American Joint Committee on Cancer (AJCC) Manual for Staging Cancer. Originally developed for Hodgkin's disease, this staging scheme was later expanded to include non-Hodgkin's lymphoma.

Staging of Lymphoma: Ann Arbor Classification:

a. Stage I: Involvement of a single lymph node region (I) or of a single extralymphatic organ or site (IE)

b. Stage II: Involvement of 2 or more lymph node regions on the same side of the diaphragm (II) or localized involvement of extralymphatic organ or site and of one or more lymph node regions on the same side of the diaphragm (IIE).
c. Stage III: Involvement of lymph node regions on both sides of the diaphragm (III) which may also be accompanied by localized involvement of extralymphatic organ or site (IIIE) or by involvement of the spleen (IIIS) or both (IIISE)

d. Stage IV: Diffuse or disseminated involvement of one or more extralymphatic organs or tissues with or without associated lymph node enlargement.

1.6 Definitions

None Apply.

2.0 Eligibility Requirements

2.1 Provisions

2.1.1 General

(The term “General” found throughout this policy applies to all Medicaid and NCHC policies)

a. An eligible beneficiary shall be enrolled in either:
   1. the NC Medicaid Program (Medicaid is NC Medicaid program, unless context clearly indicates otherwise); or
   2. the NC Health Choice (NCHC is NC Health Choice program, unless context clearly indicates otherwise) Program on the date of service and shall meet the criteria in Section 3.0 of this policy.

b. Provider(s) shall verify each Medicaid or NCHC beneficiary’s eligibility each time a service is rendered.

c. The Medicaid beneficiary may have service restrictions due to their eligibility category that would make them ineligible for this service.

d. Following is only one of the eligibility and other requirements for participation in the NCHC Program under GS 108A-70.21(a): Children must be between the ages of 6 through 18.

2.1.2 Specific

(The term “Specific” found throughout this policy only applies to this policy)

a. Medicaid

None Apply.

b. NCHC

None Apply.

2.2 Special Provisions

2.2.1 EPSDT Special Provision: Exception to Policy Limitations for a Medicaid Beneficiary under 21 Years of Age

a. 42 U.S.C. § 1396d(r) [1905(r) of the Social Security Act]

Early and Periodic Screening, Diagnostic, and Treatment (EPSDT) is a federal Medicaid requirement that requires the state Medicaid agency to cover services, products, or procedures for Medicaid beneficiary under 21 years of age if the service is medically necessary health care to correct or ameliorate a defect, physical or mental illness, or a condition [health problem] identified through a screening examination (includes any evaluation by a physician or other licensed practitioner).
This means EPSDT covers most of the medical or remedial care a child needs to improve or maintain his or her health in the best condition possible, compensate for a health problem, prevent it from worsening, or prevent the development of additional health problems.

Medically necessary services will be provided in the most economic mode, as long as the treatment made available is similarly efficacious to the service requested by the beneficiary’s physician, therapist, or other licensed practitioner; the determination process does not delay the delivery of the needed service; and the determination does not limit the beneficiary’s right to a free choice of providers.

EPSDT does not require the state Medicaid agency to provide any service, product or procedure:

1. that is unsafe, ineffective, or experimental or investigational.
2. that is not medical in nature or not generally recognized as an accepted method of medical practice or treatment.

Service limitations on scope, amount, duration, frequency, location of service, and other specific criteria described in clinical coverage policies may be exceeded or may not apply as long as the provider’s documentation shows that the requested service is medically necessary “to correct or ameliorate a defect, physical or mental illness, or a condition” [health problem]; that is, provider documentation shows how the service, product, or procedure meets all EPSDT criteria, including to correct or improve or maintain the beneficiary’s health in the best condition possible, compensate for a health problem, prevent it from worsening, or prevent the development of additional health problems.

b. EPSDT and Prior Approval Requirements

1. If the service, product, or procedure requires prior approval, the fact that the beneficiary is under 21 years of age does NOT eliminate the requirement for prior approval.

2. IMPORTANT ADDITIONAL INFORMATION about EPSDT and prior approval is found in the NCTracks Provider Claims and Billing Assistance Guide, and on the EPSDT provider page. The Web addresses are specified below.

   NCTracks Provider Claims and Billing Assistance Guide: https://www.nctracks.nc.gov/content/public/providers/provider-manuals.html

   EPSDT provider page: https://medicaid.ncdhhs.gov/

2.2.2 EPSDT does not apply to NCHC beneficiaries

2.2.3 Health Choice Special Provision for a Health Choice Beneficiary age 6 through 18 years of age

NC Medicaid shall deny the claim for coverage for an NCHC beneficiary who does not meet the criteria within Section 3.0 of this policy. Only services included under the NCHC State Plan and the NC Medicaid clinical coverage
3.0 When the Procedure, Product, or Service Is Covered

(Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for Medicaid Beneficiaries under 21 Years of Age.)

3.1 General Criteria Covered

Medicaid and NCHC shall cover the procedure, product, or service related to this policy when medically necessary, and:

a. the procedure, product, or service is individualized, specific, and consistent with symptoms or confirmed diagnosis of the illness or injury under treatment, and not in excess of the beneficiary’s needs;
b. the procedure, product, or service can be safely furnished, and no equally effective and more conservative or less costly treatment is available statewide; and
c. the procedure, product, or service is furnished in a manner not primarily intended for the convenience of the beneficiary, the beneficiary’s caretaker, or the provider.

3.2 Specific Criteria Covered

3.2.1 Specific criteria covered by both Medicaid and NCHC

Medicaid and NCHC shall cover hematopoietic stem cell and bone marrow transplantation for non-Hodgkin’s lymphoma in the following situations:

a. For beneficiaries with non-Hodgkin’s lymphoma (NHL) B-cell subtypes considered aggressive (except mantle cell lymphoma), either allogeneic hematopoietic stem cell transplantation (HSCT) using a myeloablative conditioning regimen or autologous HSCT may be considered medically necessary:
   1. as salvage therapy for beneficiaries who do not achieve a complete remission (CR) after first-line treatment (induction) with a full course of standard-dose chemotherapy;
   2. to achieve or consolidate a CR for those in a chemo-sensitive first or subsequent relapse; or
   3. to consolidate a first CR in beneficiaries with diffuse large B-cell lymphoma, with an age adjusted International Prognostic Index score that predicts a high- or high-intermediate risk of relapse.

b. For patients with mantle cell lymphoma:
   1. Autologous HSCT may be considered medically necessary to consolidate a first remission.
   2. Allogeneic HSCT, myeloablative or reduced-intensity conditioning, may be considered medically necessary as salvage therapy.

c. For patients with NHL B-cell subtypes considered indolent, either allogeneic HSCT using a myeloablative conditioning regimen or autologous HSCT may be considered medically necessary:
   1. as salvage therapy for beneficiaries who do not achieve CR after first-line treatment (induction) with a full course of standard-dose chemotherapy; or
2. to achieve or consolidate CR for those in a first or subsequent chemosensitive relapse, whether or not their lymphoma has undergone transformation to a higher grade.

d. Reduced-intensity conditioning allogeneic HSCT may be considered medically necessary as a treatment of NHL in beneficiaries who meet criteria for an allogeneic HSCT but who do not qualify for a myeloablative allogeneic HSCT (refer to Policy Guidelines).

e. For beneficiaries with peripheral T-cell lymphoma:
   1. Autologous HSCT may be considered medically necessary to consolidate a first complete remission in high-risk peripheral T-cell lymphoma. (refer to Policy Guidelines)
   2. Autologous or allogeneic HSCT (myeloablative or reduced-intensity conditioning) may be considered medically necessary as salvage therapy.

3.2.2 Medicaid Additional Criteria Covered
None Apply.

3.2.3 NCHC Additional Criteria Covered
None Apply.

3.2.4 Policy Guidelines
a. Reduced-intensity conditioning (RIC) would be considered an option in beneficiaries who meet criteria for an allogeneic hematopoietic stem-cell transplant (HSCT) but whose age (typically older than 55 years) or comorbidities (e.g., liver or kidney dysfunction, generalized debilitation, or prior intensive chemotherapy) preclude use of a standard conditioning regimen.

b. In beneficiaries who qualify for a myeloablative allogeneic HSCT on the basis of overall health and disease status, allogeneic HSCT using either myeloablative or RIC may be considered. However, a myeloablative conditioning regimen with allogeneic HSCT may benefit younger beneficiaries with good performance status and minimal comorbidities more than allogeneic HSCT with RIC.

c. The term **salvage therapy** describes chemotherapy given to beneficiaries who have either: 1) failed to achieve complete remission after initial treatment for newly diagnosed lymphoma; or 2) relapsed after an initial complete remission.

d. A **chemosensitive relapse** is defined as relapsed non-Hodgkin’s lymphoma that does not progress during or immediately after standard-dose induction chemotherapy (i.e., achieves stable disease or a partial response.)

e. **Transformation** describes a lymphoma whose histologic pattern has evolved to a higher grade lymphoma. Transformed lymphomas typically evolve from a nodular pattern to a diffuse pattern.

f. **Tandem transplants** usually are defined as the planned administration of 2 successive cycles of high-dose myeloablative chemotherapy, each followed by infusion of autologous hematopoietic stem cells, whether or not there is evidence of persistent disease following the first treatment cycle. Sometimes, the second cycle may use non-myeloablative
immunosuppressive conditioning followed by infusion of allogeneic stem cells.

4.0 When the Procedure, Product, or Service Is Not Covered

Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for Medicaid Beneficiaries under 21 Years of Age.

4.1 General Criteria Not Covered

Medicaid and NCHC shall not cover the procedure, product, or service related to this policy when:

a. the beneficiary does not meet the eligibility requirements listed in Section 2.0;

b. the beneficiary does not meet the criteria listed in Section 3.0;

c. the procedure, product, or service duplicates another provider’s procedure, product, or service; or

d. the procedure, product, or service is experimental, investigational, or part of a clinical trial.

4.2 Specific Criteria Not Covered

4.2.1 Specific Criteria Not Covered by both Medicaid and NCHC

Medicaid and NCHC shall not cover hematopoietic stem-cell or bone marrow transplantation for non-Hodgkin’s lymphoma in the following situations:

a. For beneficiaries with mantle cell lymphoma:
   1. Autologous HSCT is considered investigational as salvage therapy.
   2. Allogeneic HSCT is considered investigational to consolidate a first remission.

b. Either autologous HSCT or allogeneic HSCT is considered investigational:
   1. as initial therapy (i.e., without a full course of standard-dose induction chemotherapy) for any NHL;
   2. to consolidate a first complete remission (CR) for beneficiaries with diffuse large B-cell lymphoma and an International Prognostic Index score that predicts a low- or low-intermediate risk of relapse;
   3. to consolidate a first complete remission (CR) for those with indolent NHL B-cell subtypes.

c. Tandem transplants are considered investigational to treat beneficiaries with any stage, grade, or subtype of NHL.

d. For beneficiaries with peripheral T-cell lymphoma, allogeneic HSCT is considered investigational to consolidate a first remission.

4.2.2 Medicaid Additional Criteria Not Covered

None Apply.

4.2.3 NCHC Additional Criteria Not Covered

a. NCGS § 108A-70.21(b) “Except as otherwise provided for eligibility, fees, deductibles, copayments, and other cost sharing charges, health benefits coverage provided to children eligible under the Program shall be equivalent to coverage provided for dependents under North Carolina Medicaid Program except for the following:
1. No services for long-term care.
2. No nonemergency medical transportation.
3. No EPSDT.
4. Dental services shall be provided on a restricted basis in accordance with criteria adopted by the Department to implement this subsection.”

5.0 Requirements for and Limitations on Coverage

Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for Medicaid Beneficiaries under 21 Years of Age.

5.1 Prior Approval

Medicaid and NCHC shall require prior approval for hematopoietic stem cell and bone marrow transplantation for non-Hodgkin’s lymphoma. The provider shall obtain prior approval before rendering hematopoietic stem cell and bone marrow transplantation for non-Hodgkin’s lymphoma.

If prior approval has been given for stem cell transplant, NC Medicaid shall reimburse for the following donor transplant-related medical expenses: procuring, harvesting, short-term storage and all associated laboratory costs.

5.2 Prior Approval Requirements

5.2.1 General

The provider(s) shall submit to the Department of Health and Human Services (DHHS) Utilization Review Contractor the following:

a. the prior approval request; and
b. all health records and any other records that support the beneficiary has met the specific criteria in Subsection 3.2 of this policy.

5.2.2 Specific

None Apply.

5.3 Specific Transplant Prior Approval Requirements

The provider(s) shall submit the following to the NC Medicaid transplant nurse consultant:

a. Letter of medical necessity signed by the attending transplant physician, which documents regimens and dates, the social history and the transplant evaluation;

b. All health care records and any other records that support the beneficiary has met the specific criteria in Subsection 3.2 of this policy including:

1. Lab results (less than three months old) to include Complete Blood Count (CBC), complete electrolytes, liver enzymes, Prothrombin Time (PT), International Normalized Ratio (INR), glucose and A1C (Glycated Hemoglobin if Type I or Type II diabetic), and blood type;

2. Serologies: to include Human Immunodeficiency Virus (HIV), Hepatitis, Rapid Plasma Reagin (RPR), Epstein-Barr Virus (EBV), Cytomegalovirus (CMV), Varicella, Rubella, Herpes Simplex Virus (HSV) I/II, and toxoplasmosis. (Positive serology results may be reported that are greater than three months old);
3. Diagnostic studies (less than six months old) required in a complete packet include:
   A. Cardiac: Echocardiogram, Electrocardiogram (ECG), and/or cardiac catheterization as appropriate for beneficiary’s clinical status;
   B. Pulmonary: Pulmonary Function Test if beneficiary has cardiac or pulmonary issues, or a history of smoking; and
   C. Chest x-ray for all transplant candidates;
4. Other diagnostic tests may be requested as appropriate;
5. Beneficiary’s height and weight
6. All diagnostic and procedure results, including bone marrow aspiration (not more than six months old)
c. Complete psychological and social evaluation to include:
   1. beneficiary’s medical compliance;
   2. beneficiary’s support network;
   3. post-transplant care plan, with identification of primary and secondary care providers; and
   4. history of mental health issues/substance use/legal issues
d. Beneficiaries with a psychiatric history are required to have an evaluation by a psychiatrist with expertise in evaluating the specific psychiatric issues that relate to transplant candidates.

6.0 Provider(s) Eligible to Bill for the Procedure, Product, or Service

To be eligible to bill for the procedure, product, or service related to this policy, the provider(s) shall:
   a. meet Medicaid or NCHC qualifications for participation;
   b. have a current and signed Department of Health and Human Services (DHHS) Provider Administrative Participation Agreement; and
   c. bill only for procedures, products, and services that are within the scope of their clinical practice, as defined by the appropriate licensing entity.

6.1 Provider Qualifications and Occupational Licensing Entity Regulations

None Apply.

6.2 Provider Certifications

None Apply.
7.0  Additional Requirements

Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for Medicaid Beneficiaries under 21 Years of Age.

7.1  Compliance

Provider(s) shall comply with the following in effect at the time the service is rendered:

a. All applicable agreements, federal, state and local laws and regulations including the Health Insurance Portability and Accountability Act (HIPAA) and record retention requirements; and

b. All NC Medicaid’s clinical (medical) coverage policies, guidelines, policies, provider manuals, implementation updates, and bulletins published by the Centers for Medicare and Medicaid Services (CMS), DHHS, DHHS division(s) or fiscal contractor(s)

c. FDA approved procedures, products, and devices for implantation must be utilized.

d. A statement signed by the surgeon certifying all FDA requirements for the implants, products, and devices must be retained in the beneficiary’s medical record and made available for review upon request.
## 8.0 Policy Implementation/Revision Information

**Original Effective Date:** January 1, 1994

**Revision Information:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Section Revised</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2005</td>
<td>Throughout</td>
<td>Medicaid Policy was updated to include coverage criteria effective with approved date of State Plan amendment 4/1/05.</td>
</tr>
<tr>
<td>09/01/2005</td>
<td>Section 2.2</td>
<td>Medicaid: The special provision related to EPSDT was revised.</td>
</tr>
<tr>
<td>12/01/2005</td>
<td>Section 2.2</td>
<td>Medicaid The web address for DMA’s EDPST policy instructions was added to this section.</td>
</tr>
<tr>
<td>12/01/2006</td>
<td>Sections 2.2</td>
<td>Medicaid: The special provision related to EPSDT was revised.</td>
</tr>
<tr>
<td>12/01/2006</td>
<td>Sections 3.0 and 4.0</td>
<td>Medicaid: A note regarding EPSDT was added to these sections.</td>
</tr>
<tr>
<td>05/01/2007</td>
<td>Sections 2 through 4</td>
<td>Medicaid: EPSDT information was revised to clarify exceptions to policy limitations for recipients under 21 years of age.</td>
</tr>
<tr>
<td>05/01/2007</td>
<td>Attachment A</td>
<td>Medicaid: Added the UB-04 as an accepted claims form.</td>
</tr>
<tr>
<td>07/01/2010</td>
<td>Throughout</td>
<td>NCHC: Session Law 2009-451, Section 10.31(a) Transition of NC Health Choice Program administrative oversight from the State Health Plan to the Division of Medical Assistance (DMA) in the NC Department of Health and Human Services.</td>
</tr>
<tr>
<td>03/01/2012</td>
<td>Throughout</td>
<td>NCHC: To be equivalent where applicable to NC DMA’s Clinical Coverage Policy # 11A-11 under Session Law 2011-145, § 10.41.(b)</td>
</tr>
<tr>
<td>03/01/2012</td>
<td>Throughout</td>
<td>Policy updated to reflect current community standards and changing transplant protocols</td>
</tr>
<tr>
<td>03/01/2012</td>
<td>Throughout</td>
<td>Technical changes to merge Medicaid and NCHC current coverage into one policy.</td>
</tr>
<tr>
<td>10/01/2015</td>
<td>All Sections and Attachments</td>
<td>Updated policy template language and added ICD-10 codes to comply with federally mandated 10/1/2015 implementation where applicable.</td>
</tr>
<tr>
<td>03/01/2017</td>
<td>Attachment A, Section B</td>
<td>ICD-10 diagnosis codes updated.</td>
</tr>
<tr>
<td>03/15/2019</td>
<td>Table of Contents</td>
<td>Added, “To all beneficiaries enrolled in a Prepaid Health Plan (PHP): for questions about benefits and services available on or after November 1, 2019, please contact your PHP.”</td>
</tr>
<tr>
<td>03/15/2019</td>
<td>All Sections and Attachments</td>
<td>Updated policy template language.</td>
</tr>
</tbody>
</table>
Attachment A: Claims-Related Information

Provider(s) shall comply with the, *NCTracks Provider Claims and Billing Assistance Guide*, Medicaid bulletins, fee schedules, NC Medicaid’s clinical coverage policies and any other relevant documents for specific coverage and reimbursement for Medicaid and NCHC:

A. Claim Type

Professional (CMS-1500/837P transaction)

B. International Classification of Diseases and Related Health Problems, Tenth Revisions, Clinical Modification (ICD-10-CM) and Procedural Coding System (PCS)

Provider(s) shall report the ICD-10-CM and Procedural Coding System (PCS) to the highest level of specificity that supports medical necessity. Provider(s) shall use the current ICD-10 edition and any subsequent editions in effect at the time of service. Provider(s) shall refer to the applicable edition for code description, as it is no longer documented in the policy.

<table>
<thead>
<tr>
<th>ICD-10 Procedure Code(s)</th>
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<tbody>
<tr>
<td>30230AZ</td>
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<tr>
<td>30230G0</td>
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<td>30253Y0</td>
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<td>30253Y1</td>
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</tbody>
</table>

C. Code(s)

Providers Provider(s) shall report the most specific billing code that accurately and completely describes the procedure, product or service provided. Provider(s) shall use the Current Procedural Terminology (CPT), Health Care Procedure Coding System (HCPCS), and UB-04 Data Specifications Manual (for a complete listing of valid revenue codes) and any UB-04 Data Specifications Manual in effect at the time of service. Provider(s) shall refer to the applicable edition for the code description, as it is no longer documented in the policy.

If no such specific CPT or HCPCS code exists, then the provider(s) shall report the procedure, product or service using the appropriate unlisted procedure or service code.

<table>
<thead>
<tr>
<th>CPT Code(s)</th>
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<tbody>
<tr>
<td>38205</td>
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<tr>
<td>38206</td>
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<tr>
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<td>38232</td>
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<td>38240</td>
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<tr>
<td>38241</td>
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<tr>
<td>38242</td>
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</tbody>
</table>
Unlisted Procedure or Service
CPT: The provider(s) shall refer to and comply with the Instructions for Use of the CPT Codebook, Unlisted Procedure or Service, and Special Report as documented in the current CPT in effect at the time of service.

HCPCS: The provider(s) shall refer to and comply with the Instructions For Use of HCPCS National Level II codes, Unlisted Procedure or Service and Special Report as documented in the current HCPCS edition in effect at the time of service.

D. Modifiers
Providers shall follow applicable modifier guidelines.

E. Billing Units
Provider(s) shall report the appropriate code(s) used which determines the billing unit unit(s).

F. Place of Service
Inpatient hospital, Outpatient hospital

G. Co-payments
For Medicaid refer to Medicaid State Plan: https://medicaid.ncdhhs.gov/get-involved/nc-health-choice-state-plan

For NCHC refer to NCHC State Plan: https://medicaid.ncdhhs.gov/get-involved/nc-health-choice-state-plan

H. Reimbursement
Provider(s) shall bill their usual and customary charges.
For a schedule of rates, refer to: https://medicaid.ncdhhs.gov/

I. Billing for Donor Expenses
1. Billing for Donor Expenses for Medicaid Beneficiaries
   Donor transplant-related medical expenses are billed on the Medicaid beneficiary’s transplant claim using the beneficiary’s Medicaid identification number.

   Medicaid reimburses only for the actual donor’s transplant-related medical expenses.
   Medicaid does not reimburse for unsuccessful donor searches.

2. Billing for Donor Expenses for NCHC Beneficiaries
   Donor transplant-related medical expenses donors are billed on the NCHC beneficiary’s transplant claim.

   NCHC reimburses only for the actual donor’s transplant-related medical expenses. NCHC does not reimburse for unsuccessful donor searches.