Clinical Criteria

Subject: Mozobil (plerixafor)

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Overview

This document addresses the use of Mozobil (plerixafor), a chemokine receptor type 4 inhibitor which impairs binding of hematopoietic stem cells within the bone marrow microenvironment. Mozobil is approved in combination with granulocyte colony stimulating factors (G-CSF) to mobilize hematopoietic stem cells to the peripheral blood for subsequent autologous transplantation in individuals with lymphoma, multiple myeloma, or other conditions as appropriate.

The National Comprehensive Cancer Network (NCCN) guideline on myeloid growth factors states effective mobilization regimens in the autologous setting include growth factor alone, chemotherapy and growth factor combined, and incorporation of Mozobil (plerixafor) with either approach. Mozobil in combination with G-CSF is FDA approved for mobilization of autologous hematopoietic stem cells in individuals with non-Hodgkin lymphoma or multiple myeloma. Current literature supports the use of Mozobil for mobilization prior to autologous transplant in other conditions such as Hodgkin lymphoma (Shaughnessy 2013) and testicular carcinoma (De Blasio 2013).

Other Uses

The National Comprehensive Cancer Network (NCCN) guideline on hematopoietic cell transplantation (HCT) includes recommendations for Mozobil as stem cell mobilization for autologous donors in combination with filgrastim, pegfilgrastim, or cyclophosphamide with filgrastim or sargramostim. It is also recommended as additional therapy for insufficient collection of stem cells for allogenic donors. The use of Mozobil in combination with sargramostim or for allogenic donors has not been thoroughly studied and supporting literature is not included in the guideline currently.

Clinical Criteria

When a drug is being reviewed for coverage under a member's medical benefit plan or is otherwise subject to clinical review (including prior authorization), the following criteria will be used to determine whether the drug meets any applicable medical necessity requirements for the intended/prescribed purpose.

Mozobil (plerixafor)

Requests for Mozobil (plerixafor) may be approved if the following criteria are met:

- I. Individual is 18 years of age or older; AND
- II. Agent is being used to mobilize autologous hematopoietic stem cells; AND
- III. Individual is using in combination with a granulocyte colony stimulating factor (G-CSF) (such as Neupogen, Nivestym, Zarxio, Granix, or their biosimilars [NCCN]); **AND**
- IV. Individual has a diagnosis of (Hodgkin or non-Hodgkin) lymphoma, multiple myeloma, testicular carcinoma, or other diagnosis for which autologous hematopoietic stem cell transplant is indicated (Label, Shaughnessy 2013, De Blasio 2013); **AND**
- V. After stem cell mobilization and collection, a subsequent autologous hematopoietic stem cell transplant is anticipated; AND
- VI. The total number of Mozobil (plerixafor) injections has not exceed four doses per cycle for up to two cycles.

Requests for Mozobil (plerixafor) may not be approved for the following:

- I. Individual is using as a mobilizing agent for an allogeneic stem cell donor (NCCN: ASBMT 2014); OR
- II. Individual is using as a mobilizer of leukemic cells; OR

- III. Individual is using as a component of a conditioning regimen prior to an allogeneic hematopoietic stem cell transplant; OR
- IV. When the above criteria are not met or for all other indications.

Coding

The following codes for treatments and procedures applicable to this document are included below for informational purposes. Inclusion or exclusion of a procedure, diagnosis or device code(s) does not constitute or imply member coverage or provider reimbursement policy. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage of these services as it applies to an individual member.

CPT

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J2562	Injection, plerixafor, 1 mg [Mozobil]

ICD-10 Diagnosis

C62.00-C62.92	Malignant neoplasm of testis
C81.00-C81.99	Hodgkin lymphoma
C82.00-C88.9	Non-Hodgkin lymphomas
C90.00-C90.32	Multiple myeloma and malignant plasma cell neoplasms
Z52.001	Unspecified donor, stem cells
Z52.011	Autologous donor, stem cells
Z52.091	Other blood donor, stem cells
Z94.81	Bone marrow transplant status
Z94.84	Stem cells transplant status

Document History

Revised: 02/25/2022 Document History:

- 02/25/2022 Annual Review: Update references. Coding Reviewed: No changes.
- 02/19/2021 Annual Review: No changes. Coding Reviewed: No changes.
- 02/21/2020 Annual Review: Clarify use with G-CSF to include the biosimilars per NCCN. Coding Reviewed: No changes
- 02/22/2019 Annual Review: Update Mozobil criteria to include all diagnosis for which an autologous hematopoietic stem
 cell transplant is indicated. Wording and formatting updates for clarity. Coding update: Added ICD-10 codes: Z52.001,
 Z52.011, Z52.091, Z94.81, Z94.84 as a result of expansion of criteria.

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 - b. Hematopoietic Cell Transplantation (HCT): Pre-transplant Recipient Evaluation and Management of Graft-Versus-Host Disease. V5.2021. Updated September 30, 2021.

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