

Medical Policy: COLONY STIMULATING FACTORS: NEUPOGEN®, GRANIX®, RELEUKO® and ZARXIO® (filgrastim) Subcutaneous/Intravenous

| POLICY NUMBER | LAST REVIEW | ORIGIN DATE |
|---------------|--------------------|-------------|
| MG.MM.PH.95 | September 14, 2023 | |

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The treating physician or primary care provider must submit to EmblemHealth, or ConnectiCare, as applicable (hereinafter jointly referred to as "EmblemHealth"), the clinical evidence that the member meets the criteria for the treatment or surgical procedure. Without this documentation and information, EmblemHealth will not be able to properly review the request preauthorization or post-payment review. The clinical review criteria expressed below reflects how EmblemHealth determines whether certain services or supplies are medically necessary. This clinical policy is not intended to pre-empt the judgment of the reviewing medical director or dictate to health care providers how to practice medicine. Health care providers are expected to exercise their medical judgment in rendering appropriate care. Health care providers are expected to exercise their medical judgment in rendering appropriate

EmblemHealth established the clinical review criteria based upon a review of currently available clinical information (including clinical outcome studies in the peer reviewed published medical literature, regulatory status of the technology, evidence-based guidelines of public health and health research agencies, evidence-based guidelines and positions of leading national health professional organizations, views of physicians practicing in relevant clinical areas, and other relevant factors). EmblemHealth expressly reserves the right to revise these conclusions as clinical information changes and welcomes further relevant information. Each benefit program defines which services are covered. The conclusion that a particular service or supply is medically necessary does not constitute a representation or warranty that this service or supply is covered and/or paid for by EmblemHealth, as some programs exclude coverage for services or supplies that EmblemHealth considers medically necessary.

If there is a discrepancy between this guideline and a member's benefits program, the benefits program will govern. Identification of selected brand names of devices, tests and procedures in a medical coverage policy is for reference only and is not an endorsement of any one device, test or procedure over another. In addition, coverage may be mandated by applicable legal requirements of a state, the Federal Government or the Centers for Medicare & Medicaid Services (CMS) for Medicare and Medicaid members. All coding and web site links are accurate at time of publication.

EmblemHealth may also use tools developed by third parties, such as the MCG™ Care Guidelines, to assist us in administering health benefits. The MCG™ Care Guidelines are intended to be used in connection with the independent professional medical judgment of a qualified health care provider and do not constitute the practice of medicine or medical advice. EmblemHealth Services Company, LLC, has adopted this policy in providing management, administrative and other services to EmblemHealth Plan, Inc., EmblemHealth Insurance Company, EmblemHealth Services Company, LLC, and Health Insurance Plan of Greater New York (HIP) related to health benefit plans offered by these entities. ConnectiCare, an EmblemHealth company, has also adopted this policy. All of the aforementioned entities are affiliated companies under common control of EmblemHealth Inc.

Length of Authorization

Coverage will be provided for six months and may be renewed.

Dosing Limits [Medical Benefit]

Max Units (per dose and over time):

Severe Chronic Neutropenia:

1380 billable units per day

BMT or PBPC or Radiation:

1200 billable units per day

All other indications:

600 billable units per day

Guideline

I. Initial Approval Criteria

Neupogen and Releuko are non-preferred G-CSF product. **Preferred agents are Granix and Zarxio**.

Granix and Zarxio are the preferred agents for Commercial, Medicaid, and Medicare members.

Neupogen may be considered medically necessary if:

- The patient has a contraindication or severe intolerance to Granix AND Zarxio[†]; OR
- The dose required necessitates use of a vial and cannot be met with the fixed-dose 300 mcg or 480 mcg prefilled syringes

Releuko may be considered medically necessary if:

- The patient has a contraindication or severe intolerance to Granix AND Zarxio[†];
- † Commercial, Medicaid, AND Medicare members are subject to this step therapy

Coverage for Neupogen®, Granix®, Zarxio® or Releuko® (filgrastim) is provided in the following conditions:

Bone marrow transplant (BMT) †

Peripheral Blood Progenitor Cell (PBPC) mobilization and transplant † (Excludes Releuko)

Prophylactic use in patients with non-myeloid malignancy †

- 1. Patient is undergoing myelosuppressive chemotherapy with an expected incidence of febrile neutropenia of 20% or greater §; OR
- 2. Patient is undergoing myelosuppressive chemotherapy with an expected incidence of febrile neutropenia of 10% or greater§ AND one or more of the following co-morbidities:
 - a. Elderly patients (age 65 or older) receiving full dose intensity chemotherapy
 - b. History of recurrent febrile neutropenia from chemotherapy
 - c. Extensive prior exposure to chemotherapy
 - d. Previous exposure of pelvis, or other areas of large amounts of bone marrow, to radiation
 - e. Pre-existing neutropenia (ANC ≤ 1000/mm³) or bone marrow involvement with tumor
 - f. Patient has a condition that can potentially increase the risk of serious infection (i.e. HIV/AIDS)
 - g. Infection/open wounds
 - h. Recent surgery
 - i. Poor performance status
 - j. Poor renal function (creatinine clearance <50)
 - k. Liver dysfunction (elevated bilirubin >2.0)
 - I. Chronic immunosuppression in the post-transplant setting including organ transplant

Treatment of chemotherapy-induced febrile neutropenia ‡

- 1. Used for the treatment of chemotherapy induced febrile neutropenia; AND
 - a. Patient has been on prophylactic therapy with filgrastim or tbo-filgrastim (Note: therapy

should not be used concomitantly with pegfilgrastim); OR

- b. Patient has not received prophylactic therapy with a granulocyte colony stimulating factor; AND
 - i. Patient has one or more of the following risk factors for developing infection-related complications:
 - Sepsis Syndrome
 - Age >65
 - Absolute neutrophil count [ANC] <100/mcL
 - Duration of neutropenia expected to be greater than 10 days
 - Pneumonia or other clinically documented infections
 - Invasive fungal infection
 - Hospitalization at the time of fever
 - Prior episode of febrile neutropenia

Patient who experienced a neutropenic complication from a prior cycle of the same chemotherapy ‡

Acute Myeloid Leukemia (AML) patient following induction or consolidation chemotherapy †

Bone Marrow Transplantation (BMT) failure or Engraftment Delay ‡

Severe chronic neutropenia †

- 1. Patient must have an absolute neutrophil count (ANC) < 500/mm³; AND
- 2. Patient must have a diagnosis of one of the following:
 - a. Congenital neutropenia; OR
 - b. Cyclic neutropenia; OR
 - c. Idiopathic neutropenia

Myelodysplastic Syndrome ‡

- 1. Endogenous serum erythropoietin level of ≤500 mUnits/mL; AND
- 2. Patient has lower risk disease (i.e., defined as IPSS-R [Very Low, Low, Intermediate]); AND
- 3. Used for treatment of symptomatic anemia with no del(5q) mutation; AND
- 4. Patient is receiving concurrent therapy with Erythropoiesis Stimulating Agents (ESAs)

Patients acutely exposed to myelosuppressive doses of radiation (Hematopoietic Subsyndrome of Acute Radiation Syndrome) † (Neupogen Only)

† FDA-labeled indication(s); ‡ Compendia recommended indication(s)

§ Expected incidence of febrile neutropenia percentages for myelosuppressive chemotherapy regimens can be found in the NCCN Myeloid Growth Factors Clinical Practice Guideline at NCCN.org.

II. Renewal Criteria

Same as initial prior authorization policy criteria.

Limitations/Exclusions

Neupogen is not considered medically necessary for indications other than those listed above due to insufficient evidence of therapeutic value.

Applicable Procedure Codes

| Code | Description |
|-------|---|
| J1442 | Injection, filgrastim (g-csf), excludes biosimilars, 1microgram (1 mcg=1 billable unit) |
| J1447 | Injection, tbo-filgrastim, (Granix), 1 microgram (1 microgram=1 billable unit) |
| Q5101 | Injection, filgrastim-sndz, biosimiliar, (Zarxio), 1 microgram: 1 billable unit=1 microgram |
| J3590 | Unclassified Biologic |

Applicable NDCs

| Code | Description |
|---------------|----------------------------------|
| 55513-0530-xx | Neupogen 300 mcg vial |
| 55513-0924-xx | Neupogen 300 mcg SingleJect |
| 55513-0546-xx | Neupogen 480 mcg vial |
| 55513-0209-xx | Neupogen 480 mcg SingleJect |
| 63459-0910-xx | Granix 300 mcg prefilled syringe |
| 63459-0912-xx | Granix 480 mcg prefilled syringe |
| 61314-0318-xx | Zarxio 300 mcg prefilled syringe |
| 61314-0326-xx | Zarxio 480 mcg prefilled syringe |
| 70121-1568-xx | Releuko 300mcg prefilled syringe |
| 70121-1569-xx | Releuko 300mcg vial |
| 70121-1570-xx | Releuko 480mcg prefilled syring |
| 70121-1571-xx | Releuko 480mcg vial |

ICD-10 Diagnoses

| Code | Description |
|--------|--|
| C92.00 | Myeloid leukemia not having achieved remission |
| C92.02 | Myeloid leukemia in relapse |
| C92.50 | Acute myelomonocytic leukemia not having achieved remission |
| C92.52 | Acute myelomonocytic leukemia in relapse |
| C92.60 | Acute myeloid leukemia with 11q23-abnormality not having achieved remission |
| C92.62 | Acute myeloid leukemia with 11q23-abnormality in relapse |
| C92.A0 | Acute myeloid leukemia with multilineage dysplasia not having achieved remission |
| C92.A2 | Acute myeloid leukemia with multilineage dysplasia in relapse |
| C93.00 | Acute monoblastic/monocytic leukemia not having achieved remission |
| C93.02 | Acute monoblastic/monocytic leukemia in relapse |
| C93.10 | Chronic myelomonocytic leukemia, not having achieved remission |
| C94.00 | Acute erythroid leukemia not having achieved remission |
| C94.02 | Acute erythroid leukemia in relapse |
| C94.20 | Acute megakaryoblastic leukemia not having achieved remission |
| C94.22 | Acute megakaryoblastic leukemia in relapse |
| D46.0 | Refractory anemia without ring sideroblasts, so stated |
| D46.1 | Refractory anemia with ring sideroblasts |

| D46.20 Refractory anemia with excess of blasts, unspecified D46.21 Refractory anemia, unspecified D46.4 Refractory anemia, unspecified D46.9 Myelodysplastic syndrome, unspecified D46.A Refractory cytopenia with multilineage dysplasia D46.B Refractory cytopenia with multilineage dysplasia and ring sideroblasts D46.Z Other myelodysplastic syndrome D70.0 Congenital agranulocytosis D70.1 Agranulocytosis secondary to cancer chemotherapy D70.2 Other drug-induced agranulocytosis D70.4 Cyclic neutropenia D70.9 Neutropenia, unspecified T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic immunotherapy Z51.2 Encounter for ther specified aftercare 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 | | |
|---|----------|---|
| D46.4 Refractory anemia, unspecified D46.9 Myelodysplastic syndrome, unspecified D46.A Refractory cytopenia with multilineage dysplasia D46.B Refractory cytopenia with multilineage dysplasia and ring sideroblasts D46.Z Other myelodysplastic syndrome D70.0 Congenital agranulocytosis D70.1 Agranulocytosis secondary to cancer chemotherapy D70.2 Other drug-induced agranulocytosis D70.4 Cyclic neutropenia D70.9 Neutropenia, unspecified T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic chemotherapy Z51.2 Encounter for other specified aftercare Z52.001 Unspecified donor, stem cells Z52.001 Other blood donor, stem cells Z52.001 Other blood donor, stem cells | D46.20 | Refractory anemia with excess of blasts, unspecified |
| D46.9 Myelodysplastic syndrome, unspecified D46.A Refractory cytopenia with multilineage dysplasia D46.B Refractory cytopenia with multilineage dysplasia and ring sideroblasts D46.Z Other myelodysplastic syndrome D70.0 Congenital agranulocytosis D70.1 Agranulocytosis secondary to cancer chemotherapy D70.2 Other drug-induced agranulocytosis D70.4 Cyclic neutropenia D70.9 Neutropenia, unspecified T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic chemotherapy Z51.12 Encounter for antineoplastic immunotherapy Z51.13 Encounter for other specified aftercare 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 | D46.21 | Refractory anemia with excess of blasts 1 |
| D46.A Refractory cytopenia with multilineage dysplasia D46.B Refractory cytopenia with multilineage dysplasia and ring sideroblasts D46.Z Other myelodysplastic syndrome D70.0 Congenital agranulocytosis D70.1 Agranulocytosis secondary to cancer chemotherapy D70.2 Other drug-induced agranulocytosis D70.4 Cyclic neutropenia D70.9 Neutropenia, unspecified T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic chemotherapy Z51.12 Encounter for other specified aftercare Z52.001 Unspecified donor, stem cells Z52.011 Autologous donor, stem cells Z52.091 Other blood donor, stem cells Z52.091 Other blood donor, stem cells | D46.4 | Refractory anemia, unspecified |
| D46.8 Refractory cytopenia with multilineage dysplasia and ring sideroblasts D46.2 Other myelodysplastic syndrome D70.0 Congenital agranulocytosis D70.1 Agranulocytosis secondary to cancer chemotherapy D70.2 Other drug-induced agranulocytosis D70.4 Cyclic neutropenia D70.9 Neutropenia, unspecified T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic chemotherapy Z51.2 Encounter for other specified aftercare Z52.001 Unspecified donor, stem cells Z52.001 Autologous donor, stem cells Z52.001 Other blood donor, stem cells Z52.001 Other blood donor, stem cells | D46.9 | Myelodysplastic syndrome, unspecified |
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| D70.0 Congenital agranulocytosis D70.1 Agranulocytosis secondary to cancer chemotherapy D70.2 Other drug-induced agranulocytosis D70.4 Cyclic neutropenia D70.9 Neutropenia, unspecified T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic chemotherapy Z51.2 Encounter for antineoplastic immunotherapy Z51.89 Encounter for other specified aftercare 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 | D46.B | Refractory cytopenia with multilineage dysplasia and ring sideroblasts |
| D70.1 Agranulocytosis secondary to cancer chemotherapy D70.2 Other drug-induced agranulocytosis D70.4 Cyclic neutropenia D70.9 Neutropenia, unspecified T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic chemotherapy Z51.2 Encounter for antineoplastic immunotherapy Z51.89 Encounter for other specified aftercare 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 | D46.Z | Other myelodysplastic syndrome |
| D70.2 Other drug-induced agranulocytosis D70.4 Cyclic neutropenia D70.9 Neutropenia, unspecified T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic chemotherapy Z51.2 Encounter for antineoplastic immunotherapy Z51.89 Encounter for other specified aftercare 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 | D70.0 | Congenital agranulocytosis |
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| D70.9 Neutropenia, unspecified T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic chemotherapy Z51.12 Encounter for antineoplastic immunotherapy Z51.89 Encounter for other specified aftercare Z52.001 Unspecified donor, stem cells Z52.001 Autologous donor, stem cells Z52.091 Other blood donor, stem cells Bone marrow transplant status | D70.2 | Other drug-induced agranulocytosis |
| T45.1X5A Adverse effect of antineoplastic and immunosuppressive drugs initial encounter T45.1X5D Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter T45.1X5S Adverse effect of antineoplastic and immunosuppressive drugs sequela T66.XXXA Radiation sickness, unspecified, initial encounter Z41.8 Encounter for other procedures for purposes other than remedying health state Z48.290 Encounter for aftercare following bone marrow transplant Z51.11 Encounter for antineoplastic chemotherapy Z51.12 Encounter for antineoplastic immunotherapy Z51.89 Encounter for other specified aftercare Z52.001 Unspecified donor, stem cells Z52.011 Autologous donor, stem cells Z52.091 Other blood donor, stem cells Bone marrow transplant status | D70.4 | Cyclic neutropenia |
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| Z52.091 Other blood donor, stem cells Z94.81 Bone marrow transplant status | Z52.001 | Unspecified donor, stem cells |
| Z94.81 Bone marrow transplant status | Z52.011 | Autologous donor, stem cells |
| | Z52.091 | Other blood donor, stem cells |
| Z94.84 Stem cells transplant status | Z94.81 | Bone marrow transplant status |
| | Z94.84 | Stem cells transplant status |

Revision History

| Company(ies) | DATE | REVISION |
|----------------|-----------|---|
| EmblemHealth & | 9/14/2023 | Annual Review: |
| ConnectiCare | | Initial Criteria: |
| | | Myelodysplastic Syndrome Added: |
| | | Patient has lower risk disease (i.e., defined as IPSS-R [Very Low, Low, Intermediate]); AND |
| | | Used for treatment of symptomatic anemia with no del(5q) mutation; AND" |
| | | Treatment of chemotherapy-induced febrile neutropenia ‡ |
| | | After Statement: Patient has been on prophylactic therapy with filgrastim |
| | | Added "or tbo-filgrastim (Note: therapy should not be used concomitantly with |
| | | pegfilgrastim" |
| EmblemHealth & | 5/12/2022 | Added Releuko to affected agents (2Q2022 P&T approved) |
| ConnectiCare | | |

| EmblemHealth & ConnectiCare | 4/07/2022 | Transferred policy to new template |
|--------------------------------|------------|---|
| EmblemHealth & ConnectiCare | 1/1/2021 | Extended coverage duration from 4 to 6 months. |
| EmblemHealth & ConnectiCare | 11/2/2020 | Effective 01/01/2021, Member must fail trial of Granix AND Zarxio, prior to using Neupogen (Medicare members are subject to this step therapy). |
| EmblemHealth & ConnectiCare | 11/20/2019 | Added Granix and Zarxio to the policy title Added clarifying language: Granix and Zarxio are the preferred agents for Medicare members (Step protocol not mandated for Medicare members). |
| EmblemHealth & ConnectiCare | 1/1/2019 | Annual review |

References

- 1. Neupogen [package insert]. Thousand Oaks, CA; Amgen Inc; June 2016. Accessed March 2018.
- 2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) filgrastim. National Comprehensive Cancer Network, 2018. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc." To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed March 2018.
- 3. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) Myeloid Growth Factors. Version 1.2018. National Comprehensive Cancer Network, 2017. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc." To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed March 2018.
- 4. Smith TJ, Bohlke K, Lyman GH, Carson KR, Crawford J, Cross SJ, Goldberg JM, Khatcheressian JL, Leighl NB, Perkins CL, Somlo G, Wade JL, Wozniak AJ, Armitage JO. Recommendations for the use of WBC growth factors: American Society of Clinical Oncology Clinical Practice Guideline Update. J Clin Oncol. 2015 Jul 13. pii: JCO.2015.62.3488. [Epub ahead of print]
- Wisconsin Physicians Service Insurance Corporation. Local Coverage Determination (LCD): Human Granulocyte/Macrophage Colony Stimulating Factors (L34699). Centers for Medicare & Medicaid Services, Inc. Updated on 1/23/2018 with effective date 02/1/2018. Accessed March 2018.
- First Coast Service Options, Inc. Local Coverage Determination (LCD): G-CSF (Neupogen®, Granix™, Zarxio™) (L34002).
 Centers for Medicare & Medicaid Services, Inc. Updated on 6/10/2016 with effective date 7/5/2016. Accessed March 2018.
- 7. National Government Services, Inc. Local Coverage Article: Filgrastim, Pegfilgrastim, Tbo-filgrastim, Filgrastim-sndz (e.g., Neupogen®, Neulasta™, Granix™, Zarxio™) Related to LCD L33394 (A52408). Centers for Medicare & Medicaid Services, Inc. Updated on 9/23/2016 with effective date 10/1/2016. Accessed March 2018.
- 8. Palmetto GBA. Local Coverage Determination: White Cell Colony Stimulating Factors (L37176). Centers for Medicare & Medicaid Services, Inc. Updated on 12/7/2017 with effective date 2/26/2018. Accessed March 2018.
- 9. Releuko® subcutaneous or intravenous injection [prescribing information]. Bridgewater, NJ: Amneal; February 2022.