

Coverage of any drug intervention discussed in the plans prior authorization guideline is subject to the limitations and exclusions outlined in the member's benefit certificate or policy and to applicable state and/or federal laws.

## Colony Stimulating Factors:

### Filgrastim (Neupogen<sup>®</sup>); Filgrastim-aafi (Nivestym<sup>™</sup>); Filgrastim-sndz (Zarxio<sup>®</sup>); Filgrastim-ayow (Releuko<sup>®</sup>); Tbo-Filgrastim (Granix<sup>®</sup>) (Subcutaneous/Intravenous)

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Customized Date: 07/20/2022

Effective Date: 01/01/2023

#### I. Length of Authorization

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

#### II. Dosing Limits

##### A. Quantity Limit (max daily dose) [NDC Unit]:

- |   |
|---|
| <ul style="list-style-type: none"><li>- Neupogen 300 mcg vial: 3 vials per 1 day</li><li>- Neupogen 300 mcg SingleJect: 3 syringes per 1 day</li><li>- Neupogen 480 mcg vial: 3 vials per 1 day</li><li>- Neupogen 480 mcg SingleJect: 3 syringes per 1 day</li></ul>                 |
| <ul style="list-style-type: none"><li>- Nivestym 300 mcg vial: 3 vials per 1 day</li><li>- Nivestym 300 mcg prefilled syringe: 3 syringes per 1 day</li><li>- Nivestym 480 mcg vial: 3 vials per 1 day</li><li>- Nivestym 480 mcg prefilled syringe: 3 syringes per 1 day</li></ul>   |
| <ul style="list-style-type: none"><li>- Releuko 300 mcg prefilled syringe: 3 syringes per 1 day</li><li>- Releuko 480 mcg prefilled syringe: 3 syringes per 1 day</li><li>- Releuko 300 mcg single-dose vial: 3 vials per 1 day</li><li>- Releuko 480 mcg single-dose vial:</li></ul> |

- Granix 300 mcg pre-filled syringe: 4 syringes per 1 day
- Granix 300 mcg single-dose vial: 4 vials per 1 day
- Granix 480 mcg pre-filled syringe: 3 syringes per 1 day
- Granix 480 mcg single-dose vial: 3 vials per 1 day

**B. Max Units (per dose and over time) [HCPCS Unit]:**

*Severe Chronic Neutropenia (Congenital Neutropenia):*

- 1380 billable units per day

*BMT or PBPC or H-ARS:*

- 1200 billable units per day

*All other indications:*

- 600 billable units per day

**III. Initial Approval Criteria <sup>1-7,19-25</sup>**

**ZARXIO and NIVESTYM is the preferred short-acting granulocyte colony-stimulating factor products and do not require prior authorization.**

- **Patient must try and have an inadequate response, contraindication, or intolerance to a 3 month trial of ZARXIO OR NIVESTYM; OR**
- **Patient is continuing treatment with a non-preferred filgrastim product; OR**
- **Patient would have a life threatening situation if required to meet step therapy requirements; AND**
  - **This requirement does not apply to the following indication: acute exposure to myelosuppressive doses of radiation (Hematopoietic Syndrome of Acute Radiation Syndrome); AND**

Coverage is provided in the following conditions:

**Bone marrow transplant (BMT) † ‡ Ⓞ**

**Peripheral Blood Progenitor Cell (PBPC) mobilization and transplant <sup>19,31,34,36-38</sup> † ‡ Ⓞ**

**Prophylactic use in patients with solid tumors or non-myeloid malignancy <sup>1-7,9,10,12,13,15,17,28-30</sup> † ‡**

- Patient is undergoing myelosuppressive chemotherapy with an expected incidence of febrile neutropenia of greater than 20% §; **OR**
- Patient is undergoing myelosuppressive chemotherapy with an expected incidence of febrile neutropenia of 10% to 20% § **AND** one or more of the following co-morbidities:
  - Age >65 years receiving full dose intensity chemotherapy
  - Extensive prior exposure to chemotherapy
  - Previous exposure of pelvis, or other areas of large amounts of bone marrow, to radiation
  - Pre-existing neutropenia (ANC ≤ 1000/mm<sup>3</sup>)
  - Bone marrow involvement with tumor

- Patient has a condition that can potentially increase the risk of serious infection (i.e., HIV/AIDS with low CD4 counts)
- Recent surgery and/or open wounds
- Poor performance status
- Renal dysfunction (creatinine clearance <50 mL/min)
- Liver dysfunction (elevated bilirubin >2.0 mg/dL)
- Chronic immunosuppression in the post-transplant setting including organ transplant

Note: Dose-dense therapy, in general, requires growth factor support to maintain dose intensity and schedule. In the palliative setting, consideration should be given to dose reduction or change in regimen.

#### **Treatment of chemotherapy-induced febrile neutropenia** <sup>1-5,6,7,9,10,12,13,15,17,28-30</sup> †

- Patient has been on prophylactic therapy with filgrastim or tbo-filgrastim (*Note: therapy should not be used concomitantly with pegfilgrastim*); **OR**
- Patient has not received prophylactic therapy with a granulocyte colony stimulating factor; **AND**
  - Patient has one or more of the following risk factors for developing infection-related complications:
    - Sepsis Syndrome
    - Age greater than 65 years
    - Absolute neutrophil count [ANC] less than 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** <sup>1-7,9,10,12,13,15,17,28-30</sup> †

Note: Dose-dense therapy, in general, requires growth factor support to maintain dose intensity and schedule. In the palliative setting, consideration should be given to dose reduction or change in regimen.

#### **Acute Myeloid Leukemia (AML)** <sup>1-5,8,14,36</sup> † † $\Phi$

- Used in patients receiving induction/consolidation or re-induction chemotherapy; **OR**
- Used for relapsed or refractory disease

#### **Bone Marrow Transplantation (BMT) failure or Engraftment Delay** <sup>6,7,26,27,31,34,36-38</sup> † †

#### **Severe chronic neutropenia** <sup>11</sup> † † $\Phi$

- Patient must have an absolute neutrophil count (ANC) < 500/mm<sup>3</sup>; **AND**
- Patient must have a diagnosis of one of the following:
  - Congenital neutropenia; **OR**
  - Cyclic neutropenia; **OR**

- Idiopathic neutropenia

### Myelodysplastic Syndrome <sup>6</sup> ‡

- Endogenous serum erythropoietin level of  $\leq 500$  mUnits/mL; **AND**
- 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**
- Patient is receiving concurrent therapy with an Erythropoiesis Stimulating Agent (ESA)

### Patients acutely exposed to myelosuppressive doses of radiation (Hematopoietic Subsyndrome of Acute Radiation Syndrome [H-ARS]) <sup>1-5,18</sup> † ‡ $\Phi$

### Management of CAR T-cell related Toxicity <sup>6</sup> ‡

- Patient has been receiving therapy with CAR T-cell therapy (e.g., tisagenlecleucel, axicabtagene ciloleucel, brexucabtagene autoleucel, lisocabtagene maraleucel, etc.); **AND**
- Patient is experiencing neutropenia related to their therapy

### Wilms Tumor (Nephroblastoma) <sup>6</sup> ‡

- Patient has favorable histology disease; **AND**
- Used in combination with a cyclophosphamide-based chemotherapy regimen (*i.e., Regimen M or I only*)

† FDA-labeled indication(s); ‡ Compendia recommended indication(s);  $\Phi$  Orphan Drug

#### \*Febrile neutropenia is defined as:

- **Temperature:** a single temperature  $\geq 38.3$  °C orally or  $\geq 38.0$  °C over 1 hour; **AND**
- **Neutropenia:**  $< 500$  neutrophils/mcL or  $< 1,000$  neutrophils/mcL and a predicted decline to  $\leq 500$  neutrophils/mcL over the next 48 hours

§ Expected incidence of febrile neutropenia percentages for myelosuppressive chemotherapy regimens can be found in the NCCN Hematopoietic Growth Factors Clinical Practice Guideline at [NCCN.org](http://NCCN.org) <sup>7</sup>

## IV. Renewal Criteria

Coverage may be renewed based upon the following criteria:

- Patient continues to meet indication-specific relevant criteria such as concomitant therapy requirements (not including prerequisite therapy), performance status, etc. identified in section III; **AND**
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: splenic rupture, acute respiratory distress syndrome (ARDS), serious allergic reactions/anaphylaxis, sickle cell crisis, glomerulonephritis, leukocytosis, capillary leak syndrome, potential for tumor growth stimulation of malignant cells, aortitis, alveolar hemorrhage and hemoptysis, thrombocytopenia, cutaneous vasculitis, MDS/AML (*when used for congenital neutropenia*), etc.

## V. Dosage/Administration

### FILGRASTIM (Neupogen®, Nivestym™, Releuko® and Granix®) Prior Auth Criteria

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Indication	Dose
BMT/PBPC/H-ARS	10 mcg/kg daily for up to 14 days
Congenital Neutropenia	6 mcg/kg twice daily
All other indications	5 mcg/kg daily for up to 14 days

## VI. Billing Code/Availability Information

### HCPCS Code:

- J1442 – Injection, filgrastim (Neupogen), excludes biosimilars, 1 mcg: 1 billable unit = 1 mcg
- Q5110 – Injection, filgrastim-aafi, biosimilar, (Nivestym), 1 mcg: 1 billable unit = 1 mcg
- J1447 – Injection, tbo-filgrastim (Granix), 1 mcg: 1 billable unit = 1 mcg
- J3590 – Unclassified biologics (*Releuko only*)
- C9399 – Unclassified drugs or biologics (*Releuko only*)

### NDC:

<ul style="list-style-type: none"> <li>• Neupogen 300 mcg single-dose vial: 55513-0530-xx</li> <li>• Neupogen 300 mcg single-dose prefilled syringe (SingleJect): 55513-0924-xx</li> <li>• Neupogen 480 mcg single-dose vial: 55513-0546-xx</li> <li>• Neupogen 480 mcg single-dose prefilled syringe (SingleJect): 55513-0209-xx</li> </ul>
<ul style="list-style-type: none"> <li>• Nivestym 300 mcg vial: 00069-0293-xx</li> <li>• Nivestym 300 mcg prefilled syringe: 00069-0291-xx</li> <li>• Nivestym 480 mcg vial: 00069-0294-xx</li> <li>• Nivestym 480 mcg prefilled syringe: 00069-0292-xx</li> </ul>
<ul style="list-style-type: none"> <li>• Releuko 300 mcg single-dose prefilled syringe: 70121-1568-xx</li> <li>• Releuko 480 mcg single-dose prefilled syringe: 70121-1570-xx</li> <li>• Releuko 300 mcg single-dose vial: 70121-1569-xx</li> <li>• Releuko 480 mcg single-dose vial: 70121-1571-xx</li> </ul>
<ul style="list-style-type: none"> <li>• Granix 300 mcg single-dose prefilled syringe: 63459-0910-xx</li> <li>• Granix 480 mcg single-dose prefilled syringe: 63459-0912-xx</li> <li>• Granix 300 mcg single-dose vial: 63459-0918-xx</li> <li>• Granix 480 mcg single-dose vial: 63459-0920-xx</li> </ul>

## VII. References

1. Neupogen [package insert]. Thousand Oaks, CA; Amgen Inc; February 2021. Accessed March 2022.
2. Nivestym [package insert]. Lake Forest, IL; Hospira Inc; November 2021. Accessed March 2022.
3. Zarxio [package insert]. Princeton, NJ; Sandoz Inc; March 2021. Accessed March 2022.

4. Releuko [package insert]. Piscataway, NJ; Kashiv Biosciences, Inc; February 2022. Accessed March 2022.
5. Granix [package insert]. North Wales, PA; Teva Pharmaceuticals USA, Inc.; November 2019. Accessed March 2022.
6. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) filgrastim. National Comprehensive Cancer Network, 2022. 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 2022.
7. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) Hematopoietic Growth Factors. Version 1.2022. National Comprehensive Cancer Network, 2022. 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 2022.
8. Heil G, Hoelzer D, Sanz MA, et al. A randomized, double-blind, placebo-controlled, phase III study of filgrastim in remission induction and consolidation therapy for adults with de novo acute myeloid leukemia. *Blood*. 1997;90:4710-4718.
9. Rusthoven J, Bramwell V, Stephenson B. Use of granulocyte colony-stimulating factor (G-CSF) in patients receiving myelosuppressive chemotherapy for the treatment of cancer. Provincial Systemic Treatment Disease Site Group. *Cancer Prev Control*. 1998;2(4):179-190.
10. Berghmans T, Paesmans M, Lafitte JJ, et al. Therapeutic use of granulocyte and granulocyte-macrophage colony-stimulating factors in febrile neutropenic cancer patients. A systematic review of the literature with meta-analysis. *Support Care Cancer*. 2002;10(3):181-188.
11. Dale DC, Bonilla MA, Davis MW, et al. A randomized controlled phase III trial of recombinant human granulocyte colony-stimulating factor (filgrastim) for treatment of severe chronic neutropenia. *Blood*. 1993;81(10):2496-2502.
12. Timmer-Bonte JN, de Boo TM, Smit HJ, et al. Prevention of chemotherapy-induced febrile neutropenia by prophylactic antibiotics plus or minus granulocyte colony-stimulating factor in small-cell lung cancer: A Dutch randomized Phase III study. *J Clin Oncol*. 2005;23:7974-84. doi: 10.1200/JCO.2004.00.7955.
13. Crawford J, Ozer H, Stoller R, et al. Reduction by granulocyte colony-stimulating factor of fever and neutropenia induced by chemotherapy in patients with small-cell lung cancer. *N Engl J Med*. 1991;325:164-70.

14. Lilienfeld-Toal M, Hahn-Ast C, Kirchner H, et al. A randomized comparison of immediate versus delayed application of G-CSF in induction therapy for patients with acute myeloid leukemia unfit for intensive chemotherapy. *Haematologica*. 2007;92:1719–1720.
15. García-Carbonero R, Mayordomo JI, Tornamira MV, et al. Granulocyte colony-stimulating factor in the treatment of high-risk febrile neutropenia: A multicenter randomized trial. *J Natl Cancer Inst*. 2001;93(1):31-38.
16. Heil G, Hoelzer D, Sanz MA, et al. A randomized, double-blind, placebo-controlled, phase III study of filgrastim in remission induction and consolidation therapy for adults with de novo acute myeloid leukemia. The International Acute Myeloid Leukemia Study Group. *Blood*. 1997;90(12):4710-4718.
17. 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]
18. Farese AM, MacVittie TJ. Filgrastim for the treatment of hematopoietic acute radiation syndrome. *Drugs Today (Barc)* 2015;51:537-48.
19. Schmitt M, Publicover A, Orchard KH, et al. Biosimilar G-CSF based mobilization of peripheral blood hematopoietic stem cells for autologous and allogeneic stem cell transplantation. *Theranostics*. 2014;4(3):280-289.
20. Abraham I, Tharmarajah S, MacDonald K. Clinical safety of biosimilar recombinant human granulocyte colony-stimulating factors. *Expert Opin Drug Saf*. 2013;12(2):235-246.
21. Yao HM, Ottery FD, Borema T, et al. PF-06881893 (Nivestym™), a Filgrastim Biosimilar, Versus US-Licensed Filgrastim Reference Product (US-Neupogen®): Pharmacokinetics, Pharmacodynamics, Immunogenicity, and Safety of Single or Multiple Subcutaneous Doses in Healthy Volunteers. *BioDrugs*. 2019 Apr;33(2):207-220.
22. 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]
23. Lubenau H, Sveikata A, Gumbrevicius G, et al. Bioequivalence of two recombinant granulocyte colony-stimulating factor products after subcutaneous injection in healthy volunteers. *Int J Clin Pharmacol Ther*. 2009;47(4):275-282.
24. Gascon P, Fuhr U, Sörgel F, et al. Development of a new G-CSF product based on biosimilarity assessment. *Ann Oncol*. 2010 Jul;21(7):1419-29.
25. Kelaidi C, Beyne-Rauzy O, Braun T, et al. High Response rate and improved exercise capacity and quality of life with a new regimen of darbepoetin alfa with or without filgrastim in lower-risk myelodysplastic syndromes: a phase II study by the GFM. *Ann Hematol* 2013; 92:621-631.

26. Elayan MM, Horowitz JG, Magraner JM, Shaughnessy PJ, Bachier C. Tbo-Filgrastim versus Filgrastim during Mobilization and Neutrophil Engraftment for Autologous Stem Cell Transplantation. *Biol Blood Marrow Transplant.* 2015 Nov; 21(11):1921-5. doi: 10.1016/j.bbmt.2015.05.024.
27. Trifilio S, Zhou Z, Galvin J, Fong JL, Monreal J, Mehta J. Filgrastim versus TBO-filgrastim to reduce the duration of neutropenia after autologous hematopoietic stem cell transplantation: TBO, or not TBO, that is the question. *Clin Transplant.* 2015 Oct 22. doi: 10.1111/ctr.12637.
28. del Giglio A, Eniu A, Ganea-Motan D, Topuzov E, Lubenau H. XM02 is superior to placebo and equivalent to Neupogen in reducing the duration of severe neutropenia and the incidence of febrile neutropenia in cycle 1 in breast cancer patients receiving docetaxel/doxorubicin chemotherapy. *BMC Cancer.* 2008;8:332.
29. Gatzemeier U, Ciuleanu T, Dediu M, et al. XM02, the first biosimilar G-CSF, is safe and effective in reducing the duration of severe neutropenia and incidence of febrile neutropenia in patients with small cell or non-small cell lung cancer receiving platinum-based chemotherapy. *J Thorac Oncol.* 2009;4(6):736-40.
30. Engert A, Griskevicius L, Zyuzgin Y, Lubenau H, del Giglio A. XM02, the first granulocyte colony-stimulating factor biosimilar, is safe and effective in reducing the duration of severe neutropenia and incidence of febrile neutropenia in patients with non-Hodgkin lymphoma receiving chemotherapy. *Leuk Lymphoma.* 2009;50(3):374-79.
31. Bhamidipati PK, Fiala MA, Grossman BJ, et al. Results of a prospective randomized, open-label, noninferiority study of tbo-filgrastim (Granix) versus filgrastim (Neupogen) in combination with Plerixafor for autologous stem cell mobilization in patients with multiple myeloma and non-Hodgkin lymphoma. *Biol Blood Marrow Transplant.* August 7, 2017
32. Engert A, del Giglio A, Bias P, et al. Incidence of febrile neutropenia and myelotoxicity of chemotherapy: A meta-analysis of biosimilar G-CSF studies in breast cancer, lung cancer, and non-Hodgkin's lymphoma. *Onkologie.* 2009;32(10):599-604.
33. Lubenau H, Bias P, Maly AK, Siegler KE, Mehlretter K. Pharmacokinetic and pharmacodynamic profile of new biosimilar filgrastim XM02 equivalent to marketed filgrastim Neupogen: Single-blind, randomized, crossover trial. *BioDrugs.* 2009;23(1):43-51.
34. Andreola G, Babic A, Rabascio C, et al. Plerixafor and Filgrastim XM02 (Tevagrastrim) as a first line peripheral blood stem cell mobilisation strategy in patients with multiple myeloma and lymphoma candidated to autologous bone marrow transplantation. *Eur J Haematol.* 2012;88(2):154-158.
35. Bagalagel A, Mohammed A, MacDonald K, Abraham I. Clinical efficacy and safety of Tevagrastrim® (XM02), a biosimilar recombinant human granulocyte colony-stimulating factor. *Biosimilars.* 2013;2013(3):55-62.
36. Danylesko I, Sareli R, Bloom-Varda N, et al. The use of Tevagrastrim (biosimilar filgrastim XM02) for hematopoietic stem cell mobilization In HLA matched sibling donors for allogeneic stem cell transplantation to AML/MDS patients. *Blood.* 2013;122(21):3275.
37. Schmitt M, Xu X, Hilgendorf I, et al. Mobilization of PBSC for allogeneic transplantation by the use of the G-CSF biosimilar XM02 in healthy donors. *Bone Marrow Transplant.* 2013;48(7):922-925



38. Schmitt M, Hoffmann JM, Lorenz K, et al. Mobilization of autologous and allogeneic peripheral blood stem cells for transplantation in haematological malignancies using biosimilar G-CSF. *Vox Sang.* 2016;111(2):178-186.
39. First Coast Service Options, Inc. Local Coverage Article: Billing and Coding: G-CSF Filgrastim (A57789). Centers for Medicare & Medicaid Services, Inc. Updated on 11/21/2019 with effective date 10/03/2018. Accessed March 2022.
40. National Government Services, Inc. Local Coverage Article: Billing and Coding: Filgrastim, Pegfilgrastim, Tbo-filgrastim and biosimilars - (A52408). Centers for Medicare & Medicaid Services, Inc. Updated on 12/22/2021 with effective date 01/01/2021. Accessed March 2022.
41. Palmetto GBA. Local Coverage Determination: White Cell Colony Stimulating Factors (A56748). Centers for Medicare & Medicaid Services, Inc. Updated on 01/02/2022 with effective date 01/01/2022. Accessed March 2022.

## Appendix 1 – Covered Diagnosis Codes

ICD-10	ICD-10 Description
C64.1	Malignant neoplasm of right kidney, except renal pelvis
C64.2	Malignant neoplasm of left kidney, except renal pelvis
C64.9	Malignant neoplasm of unspecified kidney, except renal pelvis
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
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 with excess of blasts 1
D46.4	Refractory anemia, unspecified
D46.9	Myelodysplastic syndrome, unspecified
D46.A	Refractory cytopenia with multilineage dysplasia

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ICD-10	ICD-10 Description
D46.B	Refractory cytopenia with multilineage dysplasia and ring sideroblasts
D46.Z	Other myelodysplastic syndrome
D61.81	Pancytopenia
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
T66.XXXD	Radiation sickness, unspecified, subsequent encounter
T66.XXXS	Radiation sickness, unspecified, sequela
W88.1	Exposure to radioactive isotopes
W88.8	Exposure to other ionizing radiation
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
Z76.89	Persons encountering health services in other specified circumstances
Z94.81	Bone marrow transplant status
Z94.84	Stem cells transplant status

## Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determination (NCD), Local Coverage Determinations (LCDs) and Local Coverage Articles (LCAs) may exist and compliance with these policies is required where applicable. They can be found at:

<http://www.cms.gov/medicare-coverage-database/search/advanced-search.aspx>. Additional indications may be covered at the discretion of the health plan.

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Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD/LCA):

<b>Jurisdiction(s):</b> J,M	<b>NCD/LCD Document (s):</b> A56748
<a href="https://www.cms.gov/medicare-coverage-database/search/article-date-search.aspx?DocID=A56748&amp;bc=gAAAAAAAAAAAA">https://www.cms.gov/medicare-coverage-database/search/article-date-search.aspx?DocID=A56748&amp;bc=gAAAAAAAAAAAA</a>	

<b>Jurisdiction(s):</b> N	<b>NCD/LCD Document (s):</b> A57789
<a href="https://www.cms.gov/medicare-coverage-database/search/document-id-search-results.aspx?DocID=A57789&amp;bc=gAAAAAAAAAAAA&amp;">https://www.cms.gov/medicare-coverage-database/search/document-id-search-results.aspx?DocID=A57789&amp;bc=gAAAAAAAAAAAA&amp;</a>	

<b>Jurisdiction(s):</b> 6, K	<b>NCD/LCD Document (s):</b> A52408
<a href="https://www.cms.gov/medicare-coverage-database/search/document-id-search-results.aspx?DocID=A52408&amp;bc=gAAAAAAAAAAAA&amp;">https://www.cms.gov/medicare-coverage-database/search/document-id-search-results.aspx?DocID=A52408&amp;bc=gAAAAAAAAAAAA&amp;</a>	

Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)
6	MN, WI, IL	National Government Services, Inc. (NGS)
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)
N (9)	FL, PR, VI	First Coast Service Options, Inc.
J (10)	TN, GA, AL	Palmetto GBA, LLC
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)
15	KY, OH	CGS Administrators, LLC

**FILGRASTIM (Neupogen®, Nivestym™, Releuko® and Granix®)**  
**Prior Auth Criteria**

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