

(formerly WellFirst Health)

Colony Stimulating Factors:

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

Document Number: IC-0235

Last Review Date: 03/31/2023 Date of Origin: 10/17/2008

Dates Reviewed: 06/2009, 12/2009, 06/2010, 07/2010, 09/2010, 12/2010, 03/2011, 6/2011, 09/2011, 12/2011, 03/2012, 06/2012, 09/2012, 12/2012, 03/2013, 06/2013, 09/2013, 12/2013, 03/2014, 06/2014, 09/2014, 12/2014, 03/2015, 04/2015, 08/2015, 11/2015, 02/2016, 05/2016, 08/2016, 11/2016, 02/2017, 05/2017, 08/2017, 11/2017, 02/2018, 05/2018, 04/2019, 04/2020, 04/2021, 04/2022, 07/2022, 04/2023

NOTE: PREFERRED PRODUCTS: NIVESTYM or ZARXIO, DO NOT REQUIRE PRIOR AUTHORIZATION

I. Length of Authorization

Coverage will be provided for 4 months and may be renewed.

II. Dosing Limits

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

- Neupogen 300 mcg single-dose vial: 3 vials per 1 day
- Neupogen 300 mcg single-dose prefilled syringe (Single-Ject): 3 syringes per 1 day
- Neupogen 480 mcg single-dose vial: 3 vials per 1 day
- Neupogen 480 mcg single-dose prefilled syringe (Single-Ject): 3 syringes per 1 day
- Nivestym 300 mcg single-dose vial: 3 vials per 1 day
- Nivestym 300 mcg single-dose prefilled syringe: 3 syringes per 1 day
- Nivestym 480 mcg single-dose vial: 3 vials per 1 day
- Nivestym 480 mcg single-dose prefilled syringe: 3 syringes per 1 day
- Zarxio 300 mcg single-dose prefilled syringe: 3 syringes per 1 day
- Zarxio 480 mcg single-dose prefilled syringe: 3 syringes per 1 day
- Releuko 300 mcg single-dose prefilled syringe: 3 syringes per 1 day
- Releuko 480 mcg single-dose prefilled syringe: 3 syringes per 1 day
- Releuko 300 mcg single-dose vial: 3 vials per 1 day
- Releuko 480 mcg single-dose vial: 3 vials per day
- Granix 300 mcg single-dose pre-filled syringe: 4 syringes per 1 day



- Granix 300 mcg single-dose vial: 4 vials per 1 day
- Granix 480 mcg single-dose 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

Coverage is provided in the following conditions:

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

Bone Marrow Transplant (BMT) † ‡ Φ 1-6

Peripheral Blood Progenitor Cell (PBPC) mobilization and transplant † ‡ Ф 1-6,19,30,33,35-37

Prophylactic use in patients with solid tumors or non-myeloid malignancy † ‡ 1-7,9,10,12,13,15,17,27-29

- 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/mm³)
 - 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
 <u>Note</u>: 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 ‡ 1-7,9,10,12,13,15,17,27-29

- Patient has been on prophylactic therapy with filgrastim or the 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 † 1-7,9,10,12,13,15,17,27-29

<u>Note</u>: 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) † ‡ Φ 1-6,8,14,35

- 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 † ‡ 1-7,25,26,30,33,35-37

Severe Chronic Neutropenia † ‡ Φ 1-6,11

- Patient must have an absolute neutrophil count (ANC) < 500/mm³; AND
- Patient must have a diagnosis of one of the following:
 - o Congenital neutropenia; OR



- o Cyclic neutropenia; **OR**
- o Idiopathic neutropenia

Myelodysplastic Syndrome ‡ 6

- Patient has symptomatic anemia with no del(5q) mutation; AND
- Patient has lower risk disease (i.e., defined as IPSS-R [Very Low, Low, Intermediate]); AND
- Endogenous serum erythropoietin level of ≤500 mUnits/mL; AND
 - Patient has ring sideroblasts ≥15% (or ring sideroblasts ≥5% with an SF3B1 mutation);
 - Used in combination with an Erythropoiesis Stimulating Agent (ESA); OR
 - Patient has ring sideroblasts <15% (or ring sideroblasts <5% with an SF3B1 mutation); AND
 - Used in combination with an ESA following no response (despite adequate iron stores) or erythroid response followed by loss of response to ESA alone

Patients acutely exposed to myelosuppressive doses of radiation (Hematopoietic Subsyndrome of Acute Radiation Syndrome [H-ARS]) $\dagger \ddagger \Phi$ ^{1-6,18}

Management of CAR T-cell related Toxicity ‡ 6

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

Wilms Tumor (Nephroblastoma) ‡ 6

- 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); ♠ Orphan Drug

§Febrile neutropenia is defined as: 7

- Temperature: a single temperature ≥ 38.3 °C orally or ≥ 38.0 °C over 1 hour; **AND**
- Neutropenia: <500 neutrophils/mcL or <1,000 neutrophils/mcL and a predicted decline to ≤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 ⁷

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 1-5

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 (g-csf), excludes biosimilars, 1 mcg: 1 billable unit = 1 mcg
- Q5110 Injection, filgrastim-aafi, biosimilar, (Nivestym), 1 mcg: 1 billable unit = 1 mcg
- Q5101 Injection, filgrastim-sndz, biosimilar, (Zarxio), 1 mcg: 1 billable unit = 1 mcg
- J1447 Injection, the filgrastim (Granix), 1 mcg: 1 billable unit = 1 mcg
- Q5125 Injection, filgrastim-ayow, biosimilar, (Releuko), 1 mcg; 1 billable unit = 1 mcg

NDC:

- Neupogen 300 mcg single-dose vial: 55513-0530-xx
- Neupogen 300 mcg single-dose prefilled syringe (SingleJect): 55513-0924-xx
- Neupogen 480 mcg single-dose vial: 55513-0546-xx
- Neupogen 480 mcg single-dose prefilled syringe (SingleJect): 55513-0209-xx
- Nivestym 300 mcg single-dose vial: 00069-0293-xx
- Nivestym 300 mcg single-dose prefilled syringe: 00069-0291-xx
- Nivestym 480 mcg single-dose vial: 00069-0294-xx
- Nivestym 480 mcg single-dose prefilled syringe: 00069-0292-xx
- Zarxio 300 mcg single-dose prefilled syringe: 61314-0318-xx
- Zarxio 480 mcg single-dose prefilled syringe: 61314-0326-xx
- Releuko 300 mcg single-dose prefilled syringe: 70121-1568-xx
- Releuko 480 mcg single-dose prefilled syringe: 70121-1570-xx
- Releuko 300 mcg single-dose vial: 70121-1569-xx
- Releuko 480 mcg single-dose vial: 70121-1571-xx



- Granix 300 mcg single-dose prefilled syringe: 63459-0910-xx
- Granix 480 mcg single-dose prefilled syringe: 63459-0912-xx
- Granix 300 mcg single-dose vial: 63459-0918-xx
- Granix 480 mcg single-dose vial: 63459-0920-xx

VII. References

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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	
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	



ICD-10	ICD-10 Description	
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: https://www.cms.gov/Medicare-Coverage-Database/search.aspx. Additional indications may be covered at the discretion of the health plan.

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

Jurisdiction(s): J,M	NCD/LCD Document (s): A56748			
https://www.cms.gov/medicare-coverage-database/new-search/search-				
results.aspx?keyword=a56748&areaId=all&docType=NCA%2CCAL%2CNCD%2CMEDCAC%2CTA%2CM				
<u>CD%2C6%2C3%2C5%2C1%2CF%2CP</u>				



Jurisdiction(s): N (9) NCD/LCD Document (s): A57789

 $\frac{https://www.cms.gov/medicare-coverage-database/new-search/search-results.aspx?keyword=a57789\&areaId=all\&docType=NCA%2CCAL%2CNCD%2CMEDCAC%2CTA%2CMCD%2C6%2C3%2C5%2C1%2CF%2CP$

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		

