Colony Stimulating Factors:
Filgrastim (Neupogen®); Filgrastim-aafi (Nivestym™); Filgrastim-sndz (Zarxio™); Tbo-Filgrastim (Granix®)
(Subcutaneous/Intravenous)

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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]:

– Neupogen 300 mcg vial: 3 vials per 1 day – Neupogen 300 mcg SingleJect: 3 syringes per 1 day – Neupogen 480 mcg vial: 3 vials per 1 day – Neupogen 480 mcg SingleJect: 3 syringes per 1 day
– Nivestym 300 mcg vial: 3 vials per 1 day – Nivestym 300 mcg prefilled syringe: 3 syringes per 1 day – Nivestym 480 mcg vial: 3 vials per 1 day – Nivestym 480 mcg prefilled syringe: 3 syringes per 1 day
– Zarxio 300 mcg prefilled syringe: 3 syringes per 1 day – Zarxio 480 mcg prefilled syringe: 3 syringes per 1 day
– 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:

- 1380 billable units per day

BMT or PBPC or Radiation:

- 1200 billable units per day

All other indications:

- 600 billable units per day

III. Initial Approval Criteria [1-4,5,6,18-21,22-24]

Coverage is provided in the following conditions:

Bone marrow transplant (BMT) †/‡

Peripheral Blood Progenitor Cell (PBPC) mobilization and transplant [18,30,33,35-37] †/‡

Prophylactic use in patients with non-myeloid malignancy [1-4,5,6,8,9,11,12,14,16,27-29] †/‡

- Patient is undergoing myelosuppressive chemotherapy with an expected incidence of febrile neutropenia of 20% or greater **§**; **OR**
- 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:
  - Elderly patients (age > 65) receiving full dose intensity chemotherapy
  - History of recurrent febrile neutropenia from 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^3)
  - 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)
  - Liver dysfunction (elevated bilirubin >2.0)
  - 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 [1-4,5,6,8,9,11,12,14,16,27-29] ‡

- 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 >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 [1-4,5,6,8,9,11,12,14,16,27-29] ‡

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) patient following induction or consolidation chemotherapy [1-4,7,13,35] †/‡

Bone Marrow Transplantation (BMT) failure or Engraftment Delay [5,6,25,26,30,33,35-37] †/‡

Severe chronic neutropenia [10] †/‡

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

Myelodysplastic Syndrome [5] ‡

- Endogenous serum erythropoietin level of ≤500 mUnits/mL; **AND**
- Patient has lower risk disease (*i.e., defined as IPSS-R [Very Low, Low, Intermediate], IPSS [Low/Intermediate-1], WPSS [Very Low, Low, Intermediate]*); **AND**
- Used for treatment of symptomatic anemia; **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) [1-4,17] †/‡

Management of CAR T-cell related Toxicity [5] ‡

- Patient has been receiving therapy with CAR T-cell therapy (e.g. tisangenleclecleucel (Kymriah), Axicabtagene Ciloleucel (Yescarta), etc.); **AND**
- Patient is experiencing neutropenia related to their therapy.

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

***Febrile neutropenia is defined as:**

– 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 Myeloid Growth Factors Clinical Practice Guideline at NCCN.org

IV. Renewal Criteria

Coverage for all other indications can 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 etc.

V. Dosage/Administration

Indication	Dose
BMT/PBPC/Radiation Indications	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
- Q5101 – Injection, filgrastim-sndz, biosimilar, (Zarxio), 1 mcg: 1 billable unit = 1 mcg
- J1447 – Injection, tbo-filgrastim (Granix), 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 vial: 00069-0293-xx

• Nivestym 300 mcg prefilled syringe: 00069-0291-xx • Nivestym 480 mcg vial: 00069-0294-xx • Nivestym 480 mcg 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
• 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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6. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) Hematopoietic Growth Factors. Version 2.2020. National Comprehensive Cancer Network, 2020. 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 2020.
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Appendix 1 – Covered Diagnosis Codes

ICD-10	ICD-10 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

ICD-10	ICD-10 Description
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 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
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

ICD-10	ICD-10 Description
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.

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/search/article-date-search.aspx?DocID=A56748&bc=gAAAAAAAAAAA	

Jurisdiction(s): N	**NCD/LCD Document (s):** A57789
https://www.cms.gov/medicare-coverage-database/search/document-id-search-results.aspx?DocID=A57789&bc=gAAAAAAAAAAA&	

Jurisdiction(s): 6, K	**NCD/LCD Document (s):** A52408
https://www.cms.gov/medicare-coverage-database/search/document-id-search-results.aspx?DocID=A52408&bc=gAAAAAAAAAAA&	

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.

Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	**Applicable State/US Territory**	**Contractor**
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