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 Policy Number: C29652-A

Granulocyte Colony-Stimulating Factors

PRODUCTS AFFECTED

Filgrastim: Granix (tbo-filgrastim), Neupogen (filgrastim), Nivestym (filgrastim-aafi), Nypozi (filgrastim-txid), Releuko (filgrastim-ayow), Zarxio (filgrastim-sndz)

Pegfilgrastim: Fulphila (pegfilgrastim-jmdb), Fylnetra (pegfilgrastim-pbbk), Neulasta (pegfilgrastim), Nyvepria (pegfilgrastim-apgf), Stimufend (pegfilgrastim-fpgk), Udenyca (pegfilgrastim-cbqv), Ziextenzo (pegfilgrastim-bmez)

Other Long-Acting: Rolvedon (eflapegrastim-xnst), Ryzneuta (efbemalenograstim alfa-vuxw)

COVERAGE POLICY

Coverage for services, procedures, medical devices and drugs are dependent upon benefit eligibility as outlined in the member's specific benefit plan. This Coverage Guideline must be read in its entirety to determine coverage eligibility, if any. This Coverage Guideline provides information related to coverage determinations only and does not imply that a service or treatment is clinically appropriate or inappropriate. The provider and the member are responsible for all decisions regarding the appropriateness of care. Providers should provide Molina Healthcare complete medical rationale when requesting any exceptions to these guidelines.

Documentation Requirements:

Molina Healthcare reserves the right to require that additional documentation be made available as part of its coverage determination; quality improvement; and fraud; waste and abuse prevention processes. Documentation required may include, but is not limited to, patient records, test results and credentials of the provider ordering or performing a drug or service. Molina Healthcare may deny reimbursement or take additional appropriate action if the documentation provided does not support the initial determination that the drugs or services were medically necessary, not investigational or experimental, and otherwise within the scope of benefits afforded to the member, and/or the documentation demonstrates a pattern of billing or other practice that is inappropriate or excessive.

DIAGNOSIS:

Febrile neutropenia prophylaxis, Peripheral blood progenitor cell collection, Chronic neutropenia, Treatment of febrile neutropenia, Hepatitis C treatment related neutropenia, HIV related neutropenia, Felty's syndrome, Acute radiation syndrome

REQUIRED MEDICAL INFORMATION:

This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. If a drug within this policy receives an updated FDA label within the last 180 days, medical necessity for the member will be reviewed using the updated FDA label information along with state and federal requirements, benefit being administered and formulary preferencing. Coverage will be determined on a case-by-case basis until the criteria can be updated through Molina Healthcare, Inc. clinical governance. Additional information may be required on a case-by-case basis to allow for adequate review. When the requested drug product for coverage is dosed by weight, body surface area or other member specific measurement, this data element is required as part of the medical necessity

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Drug and Biologic Coverage Criteria

review. The Pharmacy and Therapeutics Committee has determined that the drug benefit shall be a mandatory generic and that generic drugs will be dispensed whenever available.

A. ALL INDICATIONS:

1. (a) IF THIS IS A PHARMACY BENEFIT REQUEST FOR A NON-FORMULARY/NON-PREFERRED PRODUCT: Documentation of trial/failure of or serious side effects to a majority (not more than 3) of the preferred formulary/PDL alternatives for the given diagnosis. Documentation of medication(s) tried, dates of trial(s) and reason for treatment failure(s) is required.
AND
(b) If request is for reference product with a biosimilar available for initial or continuation of therapy requests: Documentation of a trial and failure, serious side effects or contraindication to a majority (not more than 3) biosimilar product(s) is required (unless otherwise specified per applicable state regulations and/or there is data demonstrating clinical superiority of reference drugs over the FDA approved biosimilar drugs).
[DOCUMENTATION REQUIRED: Document when the preferred biologic product or biosimilar was tried and the length of the trial period. Provide specific clinical documentation of therapeutic failure on the preferred biologic product or biosimilar whenever possible. Describe the medical problem caused by the preferred referenced biologic. Vague and non-descriptive symptoms are not adequate rationale (e.g., stomachache).]
OR
 2. FOR INITIAL OR CONTINUATION OF THERAPY REQUESTS OF A PHYSICIAN ADMINISTERED MEDICATION: BIOSIMILAR DRUGS are preferred when requested as a physician administered drug per applicable state regulations and/or there is a lack of data demonstrating clinical superiority of reference drugs over the FDA approved biosimilar drugs. A reference medication is approved under the following conditions:
 - a) Treatment with at least two associated biosimilar drug(s) has been ineffective, resulted in serious side effects, or is contraindicated (i.e., an allergic reaction to a specific inactive ingredient in the preferred biologic product or biosimilar OR an adverse reaction to a specific inactive ingredient in the preferred biologic product or biosimilar OR therapeutic success while taking a non-preferred biologic product or biosimilar and therapeutic failure while taking the preferred biologic product or biosimilar documented by patient diary or medical charted notes)
[DOCUMENTATION REQUIRED: Document when the preferred biologic product or biosimilar was tried and the length of the trial period. Provide specific clinical documentation of therapeutic failure on the preferred biologic product or biosimilar whenever possible. Describe the medical problem caused by the preferred referenced biologic. Vague and non-descriptive symptoms are not adequate rationale (e.g., stomachache).]
- ### B. FEBRILE NEUTROPENIA PROPHYLAXIS IN NON-MYELOID MALIGNANCIES (ALL PRODUCTS):
1. Documented diagnosis of non-myeloid malignancy
AND
 2. Documentation that granulocyte colony-stimulating factor (G-CSF) is being used following myelosuppressive chemotherapy [DOCUMENTATION REQUIRED of current chemotherapy regimen, any previous chemotherapy regimens, and anticipated treatment plan]
AND
 3. Documentation of ONE of the following:
 - a) Member has a risk of febrile neutropenia (FN) of greater than 20% based on current chemotherapy regimen (as listed in current ASCO and NCCN guidelines for myeloid growth factors [See Appendix])
OR
 - b) Member has a risk of febrile neutropenia of 10-20% based on chemotherapy regimen, and at least ONE of the following risk factors apply:
 - i. Prior chemotherapy or radiation therapy

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- ii. Persistent neutropenia (defined as neutrophil count less than 500 neutrophils/mcL or less than 1,000 neutrophils/mcL and a predicted decline to less than or equal to 500 neutrophils/mcL over next 48 hours)
 - iii. Bone marrow involvement by tumor
 - iv. Recent surgery and/or open wounds
 - v. Liver dysfunction (bilirubin greater than 2.0 mg/dL)
 - vi. Renal dysfunction (creatinine clearance less than 50 mL/min)
 - vii. Age greater than 65 receiving full chemotherapy dose intensity
- OR
- c) Previous neutropenic fever complication from a prior cycle of similar chemotherapy
- OR
- d) The member is receiving a dose-dense chemotherapy regimen
- C. FEBRILE NEUTROPENIA PROPHYLAXIS IN ACUTE MYELOID LEUKEMIA (AML) (FILGRASTIM PRODUCTS ONLY):
- 1. Documented diagnosis of acute myeloid leukemia (AML)
AND
 - 2. Documentation that member is receiving either induction chemotherapy OR consolidation chemotherapy [DOCUMENTATION REQUIRED]
- D. FEBRILE NEUTROPENIA PROPHYLAXIS FOLLOWING HEMATOPOIETIC STEM CELL TRANSPLANT (HSCT) (FILGRASTIM PRODUCTS ONLY):
- 1. Documented diagnosis of non-myeloid malignancy
AND
 - 2. Documentation member is undergoing or must have had a hematopoietic stem cell transplant (HSCT) (e.g., bone marrow transplant, peripheral-blood progenitor cell (PBPC) transplant) for a non-myeloid malignancy [DOCUMENTATION REQUIRED]
- E. PERIPHERAL BLOOD PROGENITOR CELL COLLECTION (FILGRASTIM PRODUCTS ONLY):
- 1. Prescriber attests that member is in need of filgrastim therapy for the mobilization of autologous hematopoietic progenitor cells into the peripheral blood for collection by leukapheresis and will be initiated before leukapheresis (e.g., prescribed for 6 to 7 days with leukapheresis on days 5, 6 and 7)
- F. FEBRILE NEUTROPENIA PROPHYLAXIS DURING RADIATION THERAPY (FILGRASTIM PRODUCTS ONLY):
- 1. Documentation member is receiving radiation therapy alone or caution will be used if member is receiving concomitant chemotherapy [DOCUMENTATION REQUIRED of current radiation therapy, any previous or current chemotherapy regimens, and anticipated treatment plan
NOTE: ASCO guidelines state that CSFs should be avoided in patients receiving concomitant chemotherapy and radiation therapy, particularly involving the mediastinum. The NCCN guidelines for myeloid growth factors (version 3.2024) state that caution should be exercised when administering prophylactic G-CSF in patients given concurrent chemotherapy and radiation.
- G. CHRONIC NEUTROPENIA (FILGRASTIM PRODUCTS ONLY):
- 1. Documentation of a diagnosis of congenital, cyclic, or idiopathic neutropenia [DOCUMENTATION REQUIRED]
AND
 - 2. Prescriber attests that member is symptomatic (e.g., fever, infections, oropharyngeal ulcers)
- H. TREATMENT OF FEBRILE NEUTROPENIA (FILGRASTIM PRODUCTS ONLY):
- 1. Documentation member has a diagnosis of febrile neutropenia [DOCUMENTATION REQUIRED]
AND

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2. Prescriber attests that member is concurrently receiving appropriate antibiotics, if member is at high-risk for developing infection-associated complications
AND
 3. Prescriber attests or clinical reviewer has found member did NOT receive long acting G-CSF for prophylaxis
- I. HEPATITIS C TREATMENT RELATED NEUTROPENIA (FILGRASTIM PRODUCTS ONLY):
1. Documented diagnosis of Hepatitis C
AND
 2. Member is undergoing treatment with peginterferon
AND
 3. Documentation of neutropenia as evidenced by ANC \leq 500 cells/mm³ after dose reduction of peginterferon [DOCUMENTATION REQUIRED]
- J. HIV RELATED NEUTROPENIA (FILGRASTIM PRODUCTS ONLY):
1. Documented diagnosis of HIV infection
AND
 2. Documentation member has an ANC \leq 1,000 cells/mm³ [DOCUMENTATION REQUIRED]
- K. FELTY'S SYNDROME (FILGRASTIM PRODUCTS ONLY):
1. Documented diagnosis of Felty's syndrome [DOCUMENTATION REQUIRED]
AND
 2. Documentation of a history of recurrent or severe infections
AND
 3. Documentation member has tried and failed ONE of the following:
 - a) Methotrexate (at maximum tolerated dose of up to 25mg weekly)
OR
 - b) Leflunomide if unable to tolerate methotrexate AND concurrent use of another DMARD for at least two months
- L. ACUTE RADIATION SYNDROME (FILGRASTIM PRODUCTS AND PEGFILGRASTIM PRODUCTS ONLY):
1. Documentation that member has had suspected or confirmed acute exposure to myelosuppressive doses of radiation [greater than 2 Grays (Gy)] [DOCUMENTATION REQUIRED]

CONTINUATION OF THERAPY:

A. ALL INDICATIONS:

NOTE: Continuation of therapy is not applicable to acute radiation syndrome, febrile neutropenia prophylaxis following hematopoietic stem cell transplant (HSCT), and peripheral blood progenitor cell collection. All requests for these indications must process through initial criteria.

1. Documentation of clinical benefits to support continuation of treatment including positive response to therapy (i.e., member did not become neutropenic mid-cycle requiring G-CSF), low disease activity and/or improvements in the condition's signs and symptoms [DOCUMENTATION REQUIRED]
AND
2. Evidence of regular lab monitoring (i.e., CBC) as clinically appropriate and rationale for medical necessity for continuation of therapy
AND
3. FOR FEBRILE NEUTROPENIA PROPHYLAXIS IN NON-MYELOID MALIGNANCIES AND FEBRILE NEUTROPENIA PROPHYLAXIS IN ACUTE MYELOID LEUKEMIA: Documentation that member continues to be treated with chemotherapy regimen which supports the need for G-CSF prophylaxis
AND

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4. Prescriber attests to or clinical reviewer has found no evidence of intolerable adverse effects or drug toxicity

DURATION OF APPROVAL:

Initial authorization: 12 weeks; For oncology/chemotherapy related indications: Up to 12 weeks or up to length of chemotherapy approval date, whichever is shorter

Continuation of Therapy: 12 weeks; For oncology/chemotherapy related indications: Up to 6 months or up to length of chemotherapy approval date, whichever is shorter

NOTE: Continuation of therapy is not applicable to acute radiation syndrome, febrile neutropenia prophylaxis following hematopoietic stem cell transplant (HSCT), and peripheral blood progenitor cell collection. All requests for these indications must process through initial criteria.

PRESCRIBER REQUIREMENTS:

Prescribed by or in consultation with a board-certified hematologist, oncologist, rheumatologist (Felty's Syndrome), infectious disease (HIV or Hep C treatment related neutropenia), or transplant specialist [If prescribed in consultation, consultation notes must be submitted with initial request and reauthorization requests]

AGE RESTRICTIONS:

Filgrastim products: One month of age and older

Pegfilgrastim products: No restriction

Rolvedon (eflapegrastim-xnst): 18 years of age and older

Ryzneuta (efbemalenograstim alfa-vuxw): 18 years of age and older

QUANTITY:

Filgrastim products:

14 doses per 28 days

Maximum Quantity Limits – based on FDA label

Pegfilgrastim products:

Febrile Neutropenia Prophylaxis: 6mg once per chemo cycle

Hematopoietic Sub Syndrome of Acute Radiation Syndrome: The recommended dose is two doses, 6 mg each, administered subcutaneously one week apart. Dose is adjusted if weight is <45kg:

<10 kg: 0.1 mg/kg

10-20 kg: 1.5 mg

21-30 kg: 2.5 mg

31-44 kg: 4 mg

Maximum Quantity Limits – Up to 2 prefilled syringes (1.2mL) per 28 days (1 prefilled syringe per chemotherapy cycle), Up to 2 OnPro kits per 28 days (1 OnPro kit per chemotherapy cycle)

Rolvedon (eflapegrastim-xnst): 13.2 mg administered subcutaneously once per chemotherapy cycle

Ryzneuta (efbemalenograstim alfa-vuxw): 20mg administered subcutaneously once per chemotherapy cycle

PLACE OF ADMINISTRATION:

The recommendation is that injectable medications in this policy will be for pharmacy or medical benefit coverage and the subcutaneous injectable products administered in a place of service that is a non-hospital facility-based location.

Note: Site of Care Utilization Management Policy applies for Fulphila (pegfilgrastim), Fylnetra (pegfilgrastim- pbbk), Neulasta (pegfilgrastim), Nyvepria (pegfilgrastim-apgf injection), Rolvedon (eflapegrastim-xnst), Stimufend (pegfilgrastim-fpgk), Udenyca (pegfilgrastim-cbqv), Ziextenzo

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(pegfilgrastim- bmez). For information on site of care, see [Specialty Medication Administration Site of Care Coverage Criteria \(molinamarketplace.com\)](https://www.molinamarketplace.com/specialty-medication-administration-site-of-care-coverage-criteria)

The recommendation is that infused medications in this policy will be for pharmacy or medical benefit coverage administered in a place of service that is a non-inpatient hospital facility-based location.

DRUG INFORMATION

ROUTE OF ADMINISTRATION:

Subcutaneous, Intravenous

DRUG CLASS:

Granulocyte Colony-Stimulating Factors (G-CSF)

FDA-APPROVED USES:

Filgrastim:

ALL PRODUCTS:

Myelosuppressive chemotherapy recipients with non-myeloid malignancies: To decrease the incidence of infection (neutropenic fever) in patients with non-myeloid malignancies receiving myelosuppressive chemotherapy associated with a significant incidence of severe neutropenia with fever

NEUPOGEN/NYPOZI ONLY:

Increase survival in patients acutely exposed to myelosuppressive doses of radiation (Hematopoietic Syndrome of Acute Radiation Syndrome)

NEUPOGEN/ZARXIO/NIVESTYM/RELEUKO/NYPOZI ONLY:

Acute myeloid leukemia following induction or consolidation chemotherapy: To reduce the time to neutrophil recovery and the duration of fever, following induction or consolidation chemotherapy in adults with acute myeloid leukemia (AML)

Bone marrow transplantation: To reduce the duration of neutropenia and neutropenia-related events (e.g., neutropenic fever) in patients with non-myeloid malignancies receiving myeloablative chemotherapy followed by bone marrow transplantation.

Severe chronic neutropenia: Long-term administration to reduce the incidence and duration of neutropenic complications (e.g., fever, infections, oropharyngeal ulcers) in symptomatic patients with congenital neutropenia, cyclic neutropenia, or idiopathic neutropenia.

NEUPOGEN/ZARXIO/NIVESTYM/NYPOZI ONLY:

Peripheral blood progenitor cell collection and therapy: Mobilization of autologous hematopoietic progenitor cells into the peripheral blood for apheresis collection

Pegfilgrastim:

ALL PRODUCTS:

Indicated to decrease the incidence of infection, as manifested by febrile neutropenia, in patients with non-myeloid malignancies receiving myelosuppressive anti-cancer drugs associated with a clinically significant incidence of febrile neutropenia.

NEULASTA, STIMUFEND, UDENYCA, FYLNETRA ONLY: Increase survival in patients acutely exposed to myelosuppressive doses of radiation (Hematopoietic Sub syndrome of Acute Radiation Syndrome).

Limitations of Use: Pegfilgrastim is not indicated for the mobilization of peripheral blood progenitor cells for hematopoietic stem cell transplantation.

Rolvedon: Indicated to decrease the incidence of infection, as manifested by febrile neutropenia, in adult

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patients with non-myeloid malignancies receiving myelosuppressive anti-cancer drugs associated with clinically significant incidence of febrile neutropenia.

Limitations of Use: Rolvedon is not indicated for the mobilization of peripheral blood progenitor cells for hematopoietic stem cell transplantation.

Ryzneuta: Indicated to decrease the incidence of infection, as manifested by febrile neutropenia, in adult patients with non-myeloid malignancies receiving myelosuppressive anti-cancer drugs associated with a clinically significant incidence of febrile neutropenia.

Limitations of Use: Ryzneuta is not indicated for the mobilization of peripheral blood progenitor cells for hematopoietic stem cell transplantation.

COMPENDIAL APPROVED OFF-LABELED USES:

Immune Effector Cell-Associated Hematotoxicity (ICAHT)/ Prolonged Cytopenias after CAR-T therapy (See NCCN Management of Immunotherapy-Related Toxicities CART-3), Neutropenia in Cytokine Release Syndrome (CRS) (See NCCN Management of Immunotherapy-Related Toxicities CART-5)

APPENDIX

APPENDIX:

A biosimilar is a highly similar version of a brand name biological drug that meets strict controls for structural, pharmaceutical, and clinical consistency. A biosimilar manufacturer must demonstrate that there are no meaningful clinical differences (i.e., safety and efficacy) between the biosimilar and the reference product. Clinical performance is demonstrated through human pharmacokinetic (exposure) and pharmacodynamic (response) studies, an assessment of clinical immunogenicity, and, if needed, additional clinical studies.¹

As costs for biological specialty drugs continue to rise, the growing biosimilar market will benefit providers and patients by broadening biological treatment options and expanding access to these medications at lower costs. Molina Healthcare, Inc. continues to be committed to continually reevaluating preferred strategies and applying innovative cost-controls to ensure patients receive safe, effective, and quality healthcare. This commitment includes potentially creating a preference for biosimilars when value can be added without compromising patient satisfaction and safety.

1. Food and Drug Administration. Biosimilar and Interchangeable Products. Retrieved from <https://www.fda.gov/drugs/biosimilars/biosimilar-and-interchangeable-products>. Accessed October 8, 2019.

Appendix 1:

High risk for chemotherapy induced FN infectious complications because of bone marrow compromise OR co-morbidity with any of the following risk factors (not an all-inclusive list):

- Age >65 years
- Poor performance status
- Previous episodes of FN
- History of previous chemotherapy or radiation therapy
- Completion of combined chemoradiotherapy
- Bone marrow involvement by tumor producing cytopenia
- Pre-existing neutropenia
- Poor nutritional status
- Poor renal function
- Liver dysfunction (i.e., elevated bilirubin)
- Presence of open wound(s) or active infection
- Recent surgery (within the past 12 weeks)
- More advanced cancer
- Other serious co-morbidities

EXAMPLES OF DISEASE SETTINGS AND CHEMOTHERAPY REGIMENS WITH A HIGH RISK FOR FEBRILE NEUTROPENIA (>20%)^a

- *This list is not comprehensive*; there are other agents/regimens that have a high risk for the development of febrile neutropenia. Regimens recommended in the [NCCN Guidelines for Treatment by Cancer Type](#) are considered when updating this list of examples.
- The type of chemotherapy regimen is only one component of the risk assessment ([Patient Risk Factors for Developing Febrile Neutropenia, MGF-2](#)).
- The exact risk includes agent, dose, and the treatment setting (ie, treatment naive vs. heavily pretreated patients) ([MGF-1](#)).
- In general, dose-dense regimens require MGF support to maintain dose intensity and schedule.

Acute Lymphoblastic Leukemia (ALL)

- Select ALL regimens as directed by treatment protocol ([NCCN Guidelines for ALL](#))

Bladder Cancer

- Dose-dense MVAC (methotrexate, vinblastine, doxorubicin, cisplatin)¹

Bone Cancer

- VAIA (vincristine, doxorubicin, ifosfamide, dactinomycin)²
- VDC-IE (vincristine, doxorubicin or dactinomycin, and cyclophosphamide alternating with ifosfamide and etoposide)³
- Cisplatin/doxorubicin⁴
- VDC (cyclophosphamide, vincristine, doxorubicin or dactinomycin)⁵
- VIDE (vincristine, ifosfamide, doxorubicin or dactinomycin, etoposide)⁵

Breast Cancer

- Dose-dense AC followed by dose-dense paclitaxel (doxorubicin, cyclophosphamide, paclitaxel)^{7,b}
- TAC (docetaxel, doxorubicin, cyclophosphamide)⁸
- TC^{a,c} (docetaxel, cyclophosphamide)⁹
- TCH^a (docetaxel, carboplatin, trastuzumab)¹⁰

Head and Neck Squamous Cell Carcinoma

- TPF (docetaxel, cisplatin, 5-fluorouracil)¹¹⁻¹³

Hodgkin Lymphoma

- Brentuximab vedotin + AVD (doxorubicin, vinblastine, dacarbazine)¹⁴
- Escalated BEACOPP^d (bleomycin, etoposide, doxorubicin, cyclophosphamide, vincristine, procarbazine, prednisone)¹⁵
- BrECADD (brentuximab vedotin, etoposide, cyclophosphamide, doxorubicin, dacarbazine, dexamethasone)¹⁶

Kidney Cancer

- Doxorubicin/gemcitabine¹⁷

Non-Hodgkin Lymphomas

- CHP (cyclophosphamide, doxorubicin, prednisone) + brentuximab vedotin
- Dose-adjusted EPOCH^a (etoposide, prednisone, vincristine, cyclophosphamide, doxorubicin)¹⁸
- ICE (ifosfamide, carboplatin, etoposide)^{a,19,20}
- Dose-dense CHOP-14^d (cyclophosphamide, doxorubicin, vincristine, prednisone)^{21,22}
- MINE^a (mesna, ifosfamide, mitoxantrone, etoposide)²³
- DHAP^a (dexamethasone, cisplatin, cytarabine)²⁴
- ESHAP^a (etoposide, methylprednisolone, cisplatin, cytarabine)²⁵
- HyperCVAD^a (cyclophosphamide, vincristine, doxorubicin, dexamethasone)^{26,27}
- Pola-R-CHP (polatuzumab vedotin-piiq, rituximab, cyclophosphamide, doxorubicin, prednisone)²⁸

Melanoma

- Dacarbazine-based combination with IL-2, interferon alfa (dacarbazine, cisplatin, vinblastine, IL-2, interferon alfa)²⁹

Multiple Myeloma

- DT-PACE (dexamethasone, thalidomide, cisplatin, doxorubicin, cyclophosphamide, etoposide)^{30 ±} bortezomib (VTD-PACE)³¹

Ovarian Cancer

- Topotecan^{a,32}
- Docetaxel³³
- Carboplatin/docetaxel³⁴

Soft Tissue Sarcoma

- MAID (mesna, doxorubicin, ifosfamide, dacarbazine)³⁵
- Doxorubicin^{a,36}
- Ifosfamide/doxorubicin³⁷

Small Cell Lung Cancer^e

- Topotecan³⁸

Testicular Cancer

- VeIP (vinblastine, ifosfamide, cisplatin)³⁹
- VIP (etoposide, ifosfamide, cisplatin)
- TIP (paclitaxel, ifosfamide, cisplatin)⁴⁰

[Disease Settings and Chemotherapy Regimens with an Intermediate Risk for Febrile Neutropenia, MGF-A \(2 of 5\)](#)

^a Guidelines apply to chemotherapy regimens with or without monoclonal antibodies (eg, trastuzumab, rituximab). There is the potential for increased neutropenia risk with the addition of monoclonal antibodies. Rituximab has been associated with prolonged neutropenia with or without chemotherapy. For details on when monoclonal antibodies are recommended with the regimens listed above in clinical practice, see [NCCN Guidelines for Treatment by Cancer Type](#).

^b Growth factor support may not be needed during the paclitaxel portion and can be safely avoided in a large percentage of patients.

^c Risk for febrile neutropenia has been reported variably as intermediate risk or high risk depending on the study.

^d Risk of bleomycin-induced pulmonary toxicity may be increased in patients treated with G-CSFs. See [Toxicity Risks with MGFs \(MGF-C\)](#).

^e Trilaciclib may be used as a prophylactic option to decrease the incidence of chemotherapy-induced myelosuppression when administered before (prophylactic G-CSF may be administered after cycle 1) platinum/etoposide ± immune checkpoint inhibitor-containing regimens or a topotecan-containing regimen for extensive-stage small cell lung cancer (ES-SCLC).

Note: All recommendations are category 2A unless otherwise indicated.

References

MGF-A
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Recommendations for the Use of WBC Growth Factors (ASCO, 2015)

Primary prophylaxis with a CSF starting in the first cycle and continuing through subsequent cycles of chemotherapy is recommended in patients who have an approximately 20% or higher risk for febrile neutropenia on the basis of patient-, disease-, and treatment related factors. Primary CSF prophylaxis should also be administered in patients receiving dose-dense chemotherapy when considered appropriate.

BACKGROUND AND OTHER CONSIDERATIONS**BACKGROUND:**

None

CONTRAINDICATIONS/EXCLUSIONS/DISCONTINUATION:

All other uses of granulocyte colony-stimulating factors are considered experimental/investigational and therefore, will follow Molina's Off- Label policy.

Contraindications to filgrastim and its biosimilars include: patients with a history of serious allergic reactions to human granulocyte colony-stimulating factors such as filgrastim or pegfilgrastim, do not administer in the period between 24 hours before and 24 hours after administration of cytotoxic chemotherapy, with simultaneous use with chemotherapy and radiation therapy.

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Contraindications to pegfilgrastim, efbemalenograstim, and eflapegrastim include: Patients with a history of serious allergic reactions to human granulocyte colony-stimulating factors such as efbemalenograstim alfa-vuxw, eflapegrastim, pegfilgrastim or filgrastim, and do not administration between 14 days before and 24 hours after administration of cytotoxic chemotherapy.

Exclusions/Discontinuation:

Use in routine infection prophylaxis (e.g., adjunctive therapy to antibiotics in a member with uncomplicated febrile neutropenia, afebrile neutropenia).

Continued use beyond 42 days with no response.

Concurrent use with other CSF agents (Neupogen, Leukine).

E. coli protein hypersensitivity.

Receiving chemotherapy with a risk of febrile neutropenia <20% and no significant high risk for complications.

OTHER SPECIAL CONSIDERATIONS:

None

CODING/BILLING INFORMATION

CODING DISCLAIMER. Codes listed in this policy are for reference purposes only and may not be all-inclusive or applicable for every state or line of business. Deleted codes and codes which are not effective at the time the service is rendered may not be eligible for reimbursement. Listing of a service or device code in this policy does not guarantee coverage. Coverage is determined by the benefit document. Molina adheres to Current Procedural Terminology (CPT®), a registered trademark of the American Medical Association (AMA). All CPT codes and descriptions are copyrighted by the AMA; this information is included for informational purposes only. Providers and facilities are expected to utilize industry-standard coding practices for all submissions. Molina has the right to reject/deny the claim and recover claim payment(s) if it is determined it is not billed appropriately or not a covered benefit. Molina reserves the right to revise this policy as needed.

HCPCS CODE	DESCRIPTION
J1442	Injection, filgrastim (g-csf), excludes biosimilars, 1 microgram
J1447	Injection, tbo-filgrastim, 1 microgram
J1449	Injection, eflapegrastim-xnst, 0.1 mg
J2506	Injection, pegfilgrastim, excludes biosimilar, 0.5mg
J9361	Injection, efbemalenograstim alfa-vuxw, 0.5 mg
Q5101	Injection, filgrastim-sndz, biosimilar, (zarxio), 1 microgram
Q5108	Injection, pegfilgrastim-jmdb, biosimilar, (fulphila), 0.5mg
Q5110	Injection, filgrastim-aafi, biosimilar, (nivestym), 1 microgram
Q5111	Injection, pegfilgrastim-cbqv, biosimilar, (udenyca) 0.5mg
Q5120	Injection, pegfilgrastim-bmez, biosimilar, (ziextenzo)0.5 mg
Q5122	Injection, pegfilgrastim-apgf, biosimilar, (nyvepria), 0.5 mg
Q5125	Injection, filgrastim-ayow, biosimilar, (releuko), 1 microgram
Q5127	Injection pegfilgrastim-fpgk (stimufend), biosimilar, 0.5 mg
Q5130	Injection, pegfilgrastim-pbbk (fynetra), biosimilar, 0.5 mg
Q5148	Injection, filgrastim-txid (nypozi), biosimilar, 1 microgram

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AVAILABLE DOSAGE FORMS:

Fulphila SOSY 6MG/0.6ML single-dose prefilled syringe
Fynetra SOSY 6MG/0.6ML single-dose prefilled syringe
Granix SOLN 300MCG/ML single-dose vial
Granix SOLN 480MCG/1.6ML single-dose vial
Granix SOSY 300MCG/0.5ML single-dose prefilled syringe
Granix SOSY 480MCG/0.8ML single-dose prefilled syringe
Neulasta Onpro PSKT 6MG/0.6ML single-dose prefilled syringe co-packaged with the on-body injector
Neulasta SOSY 6MG/0.6ML single-dose prefilled syringe
Neupogen SOLN 300MCG/ML single-dose vial
Neupogen SOLN 480MCG/1.6ML single-dose vial
Neupogen SOSY 300MCG/0.5ML single-dose prefilled syringe
Neupogen SOSY 480MCG/0.8ML single-dose prefilled syringe
Nivestym SOLN 300MCG/ML single-dose vial
Nivestym SOLN 480MCG/1.6ML single-dose vial
Nivestym SOSY300MCG/0.5ML single-dose prefilled syringe
Nivestym SOSY 480MCG/0.8ML single-dose prefilled syringe
Nypozi SOSY 300MCG/0.5ML
Nypozi SOSY 480MCG/0.8ML
Nyvepria SOSY 6MG/0.6ML single-dose prefilled syringe
Releuko SOLN 300MCG/ML single-dose vial
Releuko SOLN 480MCG/1.6ML single-dose vial
Releuko SOSY 300MCG/0.5ML single-dose prefilled syringe
Releuko SOSY 480MCG/0.8ML single-dose prefilled syringe
Rolvedon SOSY 13.2MG/0.6ML single-dose prefilled syringe
Ryzneuta SOSY 20MG/ML single-dose prefilled syringe
Stimufend SOSY 6MG/0.6ML single-dose prefilled syringe
Udenyca Onbody SOSY 6MG/0.6ML single-dose prefilled syringe co-packaged with the onbody injector
Udenyca SOAJ 6MG/0.6ML single-dose prefilled autoinjector
Udenyca SOSY 6MG/0.6ML single-dose prefilled syringe
Zarxio SOSY 300MCG/0.5ML single-dose prefilled syringe
Zarxio SOSY 480MCG/0.8ML single-dose prefilled syringe
Ziextenzo SOSY 6MG/0.6ML single-dose prefilled syringe

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SUMMARY OF REVIEW/REVISIONS	DATE
NEW CRITERIA CREATION From retired Filgrastim MHI C2437-A and Rolvedon, Neulasta and Related Biosimilars MHI C10419-A	Q3 2025