Colony Stimulating Factors: Neulasta® (pegfilgrastim) (Subcutaneous)

Last Review Date: January 1, 2020
Number: MG.MM.PH.94

Medical Guideline Disclaimer

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LENGTH OF AUTHORIZATION

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

DOsing LIMITS

Max Units (per dose and over time) [Medical Benefit]:
- 1 billable unit weekly x 2 doses for Acute Radiation Exposure
- 1 billable unit per 14 days for all other indications

Guideline

I. INITIAL APPROVAL CRITERIA

Neulasta may be considered medically necessary if one of the below conditions are met AND use is consistent with the medical necessity criteria that follows:

- The patient is continuing previously established therapy with Neulasta for their current chemotherapy regimen; OR
- A member does not have access to, or benefits for, home health services; OR
- A member is expected to receive G-CSF for 5 consecutive days or more; OR
- Neulasta is used in combination with one of the following chemotherapy regimens*:
  - Bladder Cancer:
    - Dose dense MVAC (methotrexate, vinblastine, doxorubicin, cisplatin)
  - Breast Cancer:
    - Dose dense AC followed by T (doxorubicin, cyclophosphamide, paclitaxel)
o Non-Hodgkin’s Lymphoma:
  - Dose dense CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone)

* **pegfilgrastim** is the only G-CSF product used in the published clinical trials for these regimens. The requesting provider should provide journal citations supporting this request for regimens other than those listed.

**Coverage for Neulasta® (pegfilgrastim) is provided in the following conditions:**

**Prophylactic use in patients with non-myeloid malignancy †**

- 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 or older)
  - 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/mm³) or bone marrow involvement with tumor
  - Patient has a condition that can potentially increase the risk of serious infection (i.e. HIV/AIDS)
  - Infection/open wounds
  - Recent surgery
  - Poor performance status
  - Poor renal function (creatinine clearance <50)
  - Liver dysfunction (elevated bilirubin >2.0)
  - Chronic immunosuppression in the post-transplant setting including organ transplant

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

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

† FDA-labeled 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.

**Limitations/Exclusions**

Neulasta is not considered medically necessary for indications other than those listed above due to insufficient evidence of therapeutic value.
II. **RENEWAL CRITERIA**

Same as initial prior authorization policy criteria.

<table>
<thead>
<tr>
<th>Indication</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute radiation exposure</td>
<td>6 mg subcutaneously weekly for 2 doses (Use weight based dosing below for pediatrics weight &lt; 45 kg)</td>
</tr>
</tbody>
</table>
| All other indications          | < 10 kg = 0.1 mg/kg  
                                  | 10-20 kg = 1.5 mg  
                                  | 21-30 kg = 2.5 mg  
                                  | 31-44 kg = 4 mg  
                                  | 45 kg and up = 6 mg  
                                  | Dosed no more frequently than every 14 days |

*Do not administer within 14 days before and 24 hours after administration of cytotoxic chemotherapy*

**Applicable Procedure Codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J2505</td>
<td>Injection, pegfilgrastim, 6 mg; 1 billable unit = 6 mg</td>
</tr>
</tbody>
</table>

**Applicable NDCs**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>55513-0190-xx</td>
<td>Neulasta 6 mg prefilled syringe</td>
</tr>
<tr>
<td>55513-0192-xx</td>
<td>Neulasta 6 mg prefilled syringe Onpro Kit</td>
</tr>
</tbody>
</table>

**Applicable Diagnosis Codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>D70.1</td>
<td>Agranulocytosis secondary to cancer chemotherapy</td>
</tr>
<tr>
<td>D70.9</td>
<td>Neutropenia, unspecified</td>
</tr>
<tr>
<td>T45.1X5A</td>
<td>Adverse effect of antineoplastic and immunosuppressive drugs initial encounter</td>
</tr>
<tr>
<td>T45.1X5D</td>
<td>Adverse effect of antineoplastic and immunosuppressive drugs subsequent encounter</td>
</tr>
<tr>
<td>T45.1X5S</td>
<td>Adverse effect of antineoplastic and immunosuppressive drugs sequela</td>
</tr>
<tr>
<td>T66.XXXA</td>
<td>Radiation sickness, unspecified, initial encounter</td>
</tr>
<tr>
<td>Z41.8</td>
<td>Encounter for other procedures for purposes other then remedying health state</td>
</tr>
<tr>
<td>Z48.290</td>
<td>Encounter for aftercare following bone marrow transplant</td>
</tr>
<tr>
<td>Z51.11</td>
<td>Encounter for antineoplastic chemotherapy</td>
</tr>
<tr>
<td>Z51.12</td>
<td>Encounter for antineoplastic immunotherapy</td>
</tr>
<tr>
<td>Z51.89</td>
<td>Encounter for other specified aftercare</td>
</tr>
<tr>
<td>Z52.001</td>
<td>Unspecified donor, stem cells</td>
</tr>
<tr>
<td>Z52.011</td>
<td>Autologous donor, stem cells</td>
</tr>
<tr>
<td>Z52.091</td>
<td>Other blood donor, stem cells</td>
</tr>
<tr>
<td>Z94.81</td>
<td>Bone marrow transplant status</td>
</tr>
<tr>
<td>Z94.84</td>
<td>Stem cells transplant status</td>
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</table>
Revision History

N/A

References

2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) pegfilgrastim. 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 June 2018.


