

Pharmacy Benefit Determination Policy

Policy Subject: G-CSF Agents Dates:

Policy Number:SHS PBD13Effective Date:December 14, 2005Category:Oncology & Anti-infectivesRevision DateMarch 29, 2018Policy Type:MedicalPharmacyApproval Date:April 25, 2018Department:PharmacyNext Review Date:April 2019

<u>Product</u> (check all that apply): <u>Clinical Approval By</u>: ⊠ Group HMO/POS <u>Medical Directors</u>

Policy Statement:

Physicians Health Plan, PHP Insurance & Service Company, and Sparrow PHP will cover G-CSF Agents through the Medical/Pharmacy Benefit based on approval by the Clinical Pharmacist or Medical Director using the following determination guidelines

Drugs and Applicable Coding:

J-code: Neupogen/Granix - J1442 (1U/1mcg); Zarxio - Q5101

Clinical Determination Guidelines:

Document the following with chart notes

- A. Myelosuppressive Chemotherapy in Non-myeloid Malignancies
 - 1. Diagnosis & severity: ↓ incidence of infection in non-myeloid Ca receiving myelosuppressive chemo w significant incidence of neutropenia w fever.
 - 2. Dosage regimen: Neupogen/Zarxio/Granix (filgrastim SC/IV)
 - a. Initial: 5mcg/kg/day SC bolus (15-30") or SC/IV infusion
 - b. Titration: ↑ 5mcg/Kg per chemo cycle as needed
 - c. Usual: 4-8 mcg/kg/day SC/IV
 - d. Duration: 1x/day for < 2 wks. until ANC = $5,000-10,000/mm^3$
- B. Acute Myeloid Leukemia (AML)
 - 1. Diagnosis & severity: ↓ time to neutrophil recovery & duration of fever following induction or consolidation chemo. tx of adults w AML
 - 2. Dosage regimen: Neupogen/Zarxio/Granix (filgrastim SC/IV): (See A2)



Pharmacy Benefit Determination Policy

- C. Bone Marrow Transplant (BMT)
 - Diagnosis & severity: ↓ duration of neutropenia/neutropenia-related events w non-myeloid Ca getting ablative chemo followed by BMT
 - 3. 2. Dosage regimen: Neupogen/Zarxio (filgrastim SC/IV)
 - a. Initial dose: 10mcg/Kg IV infusion 4-24 hrs or continuous 24hr SC infusion
 - b. Titration

ANC	Duration	Dose
>1,000mm ³	3 days	↓ to 5mcg/Kg/day
>1,000mm ³	3 more days	discontinue
<1,000mm ³	anytime	resume 5mcg/Kg/day
<1,000mm ³	anytime (on 5mcg/Kg/day)	↑ to 10mcg/Kg/day

- D. Peripheral Blood Progenitor Cell (PBPC) collection
 - 1. Diagnosis & severity: ↑ & mobilize hematopoietic PC cells in peripheral blood for apheresis collection.
 - 2. Dosage regimen: Neupogen/Zarxio (filgrastim SC/IV):
 - a. Usual: 10mcg/Kg/day SC bolus or continuous infusion;
 - b. Titration: Consider dose modification for WBC ≥100,000/mm³
 - c. Duration: >4 days pre 1st last apheresis; usually 6-7 days w apheresis on days 5-7.
 - d. Monitor: Neutrophil count after day 4 of therapy
- E. Severe Chronic Neutropenia (SCN)
 - 1. Diagnosis & severity: ↓ incidence & duration of results of neutropenia (eg fever, infection, oral ulcers) in symptomatic pts w congenital, cyclic or idiopathic neutropenia.
 - 2. Dosage regimen: Neupogen/Zarxio (filgrastim SC/IV):
 - a. Initial Dose
 - Congenital: 6 mcg/Kg/day SC
 - Cyclic: 5 mcg/kg day SC
 - Idiopathic: 5mcg/Kg/day SC
 - b. Titration: Based on ANC & clinical course
- F. Hematopoietic Radiation Injury Syndrome, Acute
 - 1. Diagnosis & severity: ↑ survival in patients acutely exposed to myelosuppressive doses of radiation
 - a. Radiation exposure: >2 Gray (gy)
 - b. Absolute lymphocyte count: Significant ↓
 - c. Neutropenia: Anticipated to be <500/mm³ for > 7 days
 - 2. Dosage regimen: Neupogen (filgrastim SC/IV):
 - a. Initial: 10mcg/Kg SC 1x daily within 24 hrs
 - b. Duration: ANC >1,000mm³ for 3 CBC's or ANC >10,000mm³ after radiation-induced nadir
- G. Chronic Myeloid Leukemia (CML)/Myelodysplasia: Use has not been established
- H. Non-preferred Agent Approval
 - Failed Neupogen/Zarxio/Granix (filgrastim SC/IV): Requires ≥10 daily doses to obtain acceptable ANC
 - 2. Significant adverse effects or administration issues w Neupogen/Zarxio/Granix (filgrastim SC/IV):



Pharmacy Benefit Determination Policy

Appendix I: Monitoring & Patient Safety - Adverse Reactions and Monitoring

Drug	Adverse Reactions	Monitoring	REMS
Neupogen Zarxio Grannix Filgrastim SC/IV	 GI: 10% Heme: Petechia (≤17%), splenomegaly MSK: Ostealgia (22-33%) Resp.: Epistaxis (9-15%) Preg. category: C 	Myelosuppressive Chemo: CBC w diff & plts prior to and 2x wkly during tx BMT: CBC w diff & plts ≥ 3xwkly Perip Progenitor Cell Collections: Neutrophil count after 4 days filgrastim tx. SCN CBC w diff & plts: Mo 1/post dose adj: 2x/wk Stable: mnthly x 1 yr, then quarterly Bone marrow & Karotype/cytogenetics: prior to & yrly	None needed

References and Resources:

- 1. Lexicomp Online®, Lexi-Drugs®, Hudson, Ohio: Lexi-Comp, Inc.; Neupogen/Zarxio/Granix, accessed Mar 2018
- 2. Lexicomp Online®, Lexi-Drugs®, Hudson, Ohio: Lexi-Comp, Inc.; Neulasta, accessed March, 2018

Approved By:	
Febr. a.s.	4/25/18
Peter Graham, MD – PHP Executive Medical Director	Date
	4/25/18
Human Resources (Kurt Batteen)	Date