



An FDA-approved biosimilar to Neulasta® (pegfilgrastim)^{1**}

INJECTION
Nyvepria™
pegfilgrastim-apgf

NYVEPRIA™ (pegfilgrastim-apgf)

Product Monograph

BUILDING ONTO THE CLINICAL EXPERIENCE OF PEGFILGRASTIM



*Biosimilar means that the biological product is approved based on data demonstrating that it is highly similar to an FDA-approved biological product, known as a reference product, and that there are no clinically meaningful differences between the biosimilar and the reference product.
**NYVEPRIA does not have a designation of interchangeability with Neulasta.

SELECTED SAFETY INFORMATION

Contraindications

- NYVEPRIA is contraindicated in patients with a history of serious allergic reactions to pegfilgrastim products or filgrastim products
- Reactions have included anaphylaxis

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Please see [Important Safety Information and Indication](#) on pages 25-27 and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).



> **NYVEPRIA is FDA approved for the eligible indication of Neulasta® (pegfilgrastim)¹**

INDICATION



NYVEPRIA is 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.

Limitations of Use

NYVEPRIA is not indicated for the mobilization of peripheral blood progenitor cells for hematopoietic stem cell transplantation.

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION

Warnings and Precautions

Splenic Rupture

- Splenic rupture, including fatal cases, can occur following the administration of pegfilgrastim products
- Evaluate for an enlarged spleen or splenic rupture in patients who report left upper abdominal or shoulder pain after receiving NYVEPRIA

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An FDA-approved biosimilar to Neulasta® (pegfilgrastim)¹

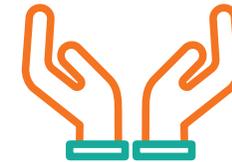
With the largest portfolio of oncology biosimilars—including NYVEPRIA—Pfizer is committed to expanding options for patient care²



Favorable coverage³



Potential savings³



Support for you and your patients

Pfizer has over 30 years of biologic experience, and more than a decade in the global biosimilars market.^{3,4}

Please see [Important Safety Information and Indication](#) on pages 25-27 and full [Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION

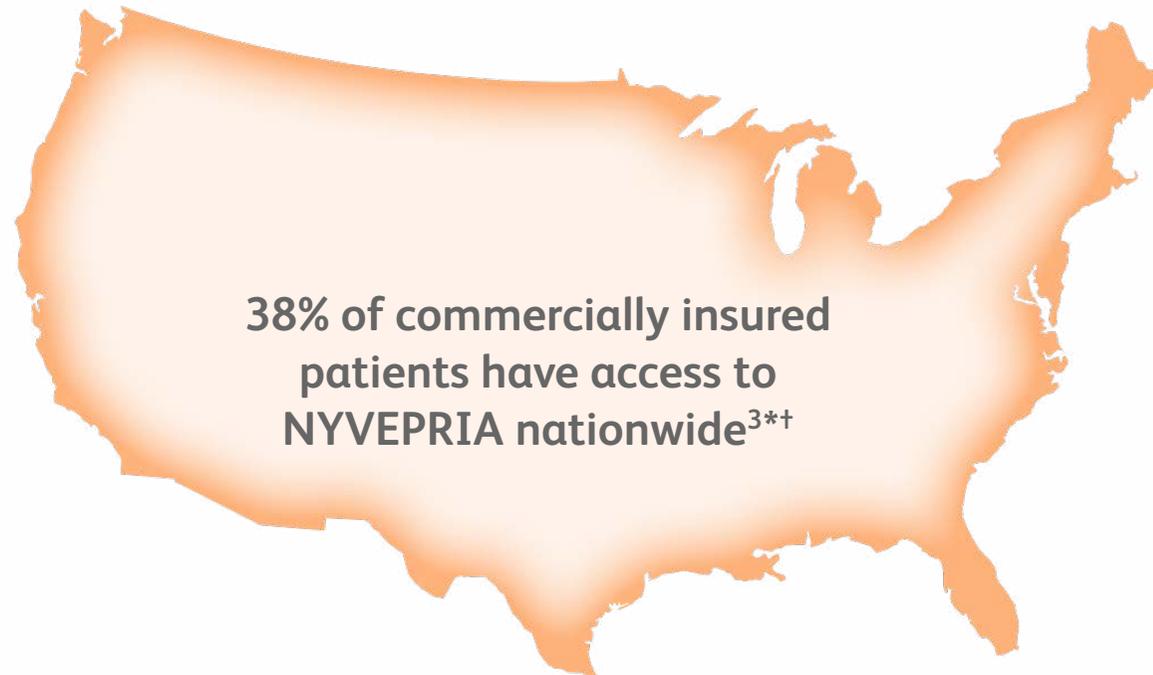
Warnings and Precautions (continued)

Acute Respiratory Distress Syndrome (ARDS)

- ARDS can occur in patients receiving pegfilgrastim products
- Evaluate patients who develop fever and lung infiltrates or respiratory distress after receiving NYVEPRIA
- Discontinue NYVEPRIA in patients with ARDS

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NYVEPRIA coverage



- 67% of Medicare lives covered, including managed Medicare^{3†}

^{*}Percentage of commercial lives where NYVEPRIA is covered at parity or at an advantage to Neulasta® (pegfilgrastim).

[†]Medical policy data are current as of November 2021. Please verify individual patient benefits to confirm coverage.

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

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Warnings and Precautions (continued)

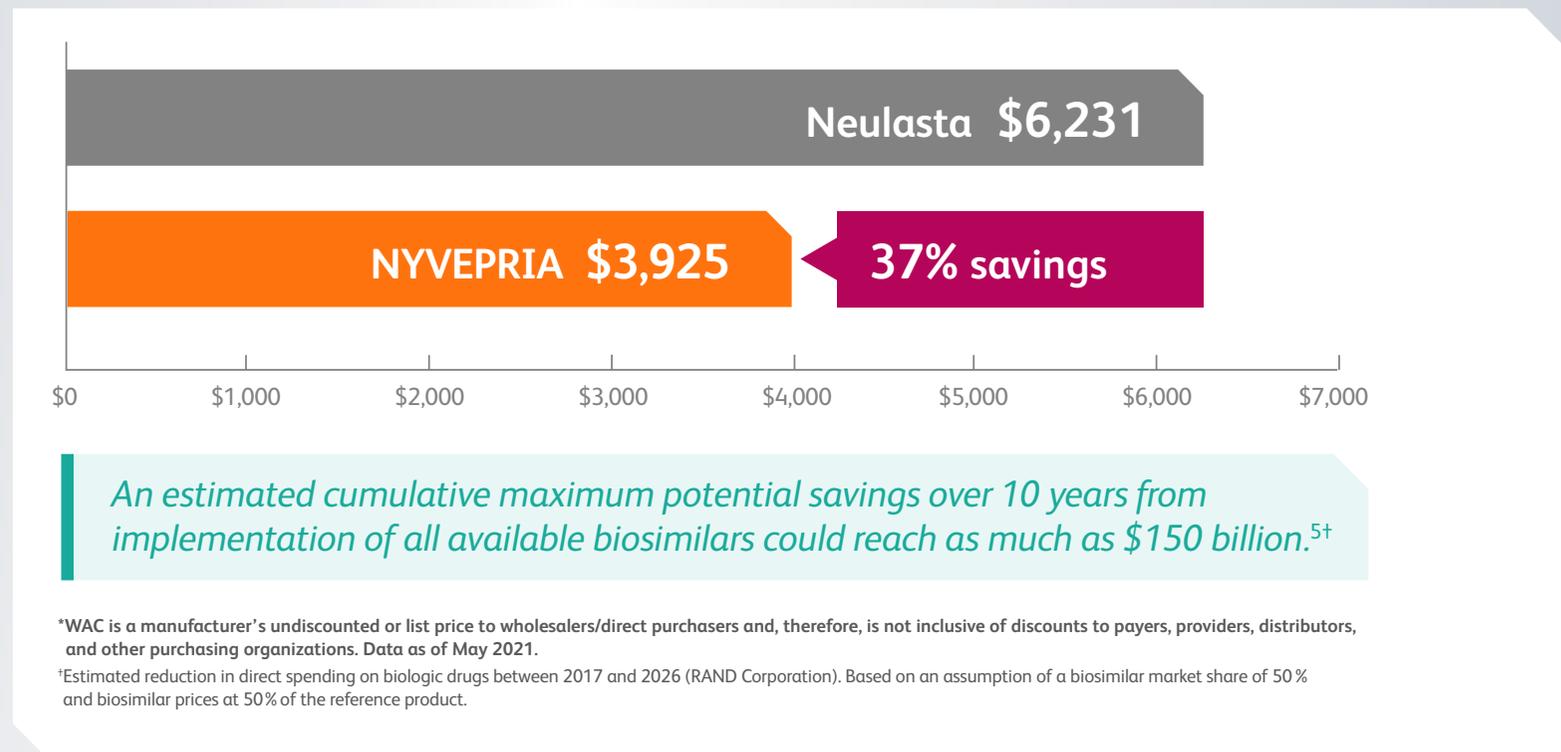
Serious Allergic Reactions

- Serious allergic reactions, including anaphylaxis, can occur in patients receiving pegfilgrastim products
- The majority of reported events occurred upon initial exposure
- Allergic reactions, including anaphylaxis, can recur within days after the discontinuation of initial anti-allergic treatment
- Permanently discontinue NYVEPRIA in patients with serious allergic reactions
- Do not administer NYVEPRIA to patients with a history of serious allergic reactions to pegfilgrastim products or filgrastim products

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Potential cost savings with NYVEPRIA

Wholesale acquisition cost (WAC) represents a 37% discount vs Neulasta® (pegfilgrastim) per 6-mg prefilled syringe^{3*}



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SELECTED SAFETY INFORMATION Warnings and Precautions (continued) Use in Patients with Sickle Cell Disorders

- Severe and sometimes fatal sickle cell crises can occur in patients with sickle cell disorders receiving pegfilgrastim products
- Discontinue NYVEPRIA if sickle cell crisis occurs

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Pfizer Oncology Together™ Co-Pay Savings Program for Injectables

Eligible patients
may pay as little as

\$0 per Tx

Eligible,* commercially insured patients† may pay as little as \$0 per NYVEPRIA treatment.‡ Limits, terms, and conditions apply.

- This program covers up to **\$10,000 per calendar year**§
- There are **no income requirements** for patients to qualify
- For information on enrollment, claims submissions, and reimbursement, visit PfizerOncologyTogether.com to download the Co-Pay Savings Program Brochure

***Terms and Conditions:** By using this program, you acknowledge that you currently meet the eligibility criteria and will comply with the terms and conditions below:

- The Pfizer Oncology Together Co-Pay Savings Program for Injectables for NYVEPRIA™ is not valid for patients who are enrolled in a state or federally funded insurance program, including but not limited to Medicare, Medicaid, TRICARE, Veterans Affairs health care, a state prescription drug assistance program, or the Government Health Insurance Plan available in Puerto Rico (formerly known as “La Reforma de Salud”).
- Program offer is not valid for cash-paying patients.
- With this program, eligible patients may pay as little as \$0 co-pay per NYVEPRIA treatment, subject to a maximum benefit of \$10,000

[Click to view full Terms](#)

†For patients to be eligible for the Injectables Co-Pay Program for NYVEPRIA, they must have commercial insurance that covers NYVEPRIA and they cannot be enrolled in a state or federally funded insurance program. Whether a co-pay expense is eligible for the Injectables Co-Pay Program for NYVEPRIA benefit will be determined at the time the benefit is paid. Co-pay expenses must be in connection with a separately paid claim for NYVEPRIA administered in the outpatient setting.

‡The Injectables Co-Pay Program for NYVEPRIA will pay the co-pay for NYVEPRIA up to the annual assistance limit of \$10,000 per calendar year per patient.

§The Injectables Co-Pay Program for NYVEPRIA provides assistance for eligible, commercially insured patients prescribed NYVEPRIA for co-pays or coinsurance incurred for NYVEPRIA up to \$10,000 per calendar year. It does not cover or provide support for supplies, services, procedures, or any other physician-related services associated with NYVEPRIA treatment.

Please see [Important Safety Information and Indication on pages 25-27 and full Prescribing Information, Patient Information, and Instructions for Use available at \[NyvepriaHCP.com\]\(http://NyvepriaHCP.com\).](#)

SELECTED SAFETY INFORMATION Warnings and Precautions (continued)

Glomerulonephritis

- Glomerulonephritis has occurred in patients receiving pegfilgrastim products
- The diagnoses were based on azotemia, hematuria (microscopic and macroscopic), proteinuria, and renal biopsy
- Generally, events of glomerulonephritis resolved after dose-reduction or discontinuation of pegfilgrastim products
- If glomerulonephritis is suspected, evaluate for cause. If causality is likely, consider dose-reduction or interruption of NYVEPRIA

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- The Pfizer Oncology Together Co-Pay Savings Program for Injectables for NYVEPRIA™ is not valid for patients who are enrolled in a state or federally funded insurance program, including but not limited to Medicare, Medicaid, TRICARE, Veterans Affairs health care, a state prescription drug assistance program, or the Government Health Insurance Plan available in Puerto Rico (formerly known as “La Reforma de Salud”).
- Program offer is not valid for cash-paying patients.
- With this program, eligible patients may pay as little as \$0 co-pay per NYVEPRIA treatment, subject to a maximum benefit of \$10,000 per calendar year for out-of-pocket expenses for NYVEPRIA including co-pays or coinsurances.
- The amount of any benefit is the difference between your co-pay and \$0.
- After the maximum of \$10,000 you will be responsible for the remaining monthly out-of-pocket costs.
- Patient must have private insurance with coverage of NYVEPRIA.
- This offer is not valid when the entire cost of your prescription drug is eligible to be reimbursed by your private insurance plans or other private health or pharmacy benefit programs.
- You must deduct the value of this assistance from any reimbursement request submitted to your private insurance plan, either directly by you or on your behalf.
- You are responsible for reporting use of the program to any private insurer, health plan, or other third party who pays for or reimburses any part of the prescription filled using the program, as may be required.
- You should not use the program if your insurer or health plan prohibits use of manufacturer co-pay assistance programs.
- This program is not valid where prohibited by law.
- This program cannot be combined with any other savings, free trial or similar offer for the specified prescription.
- **Co-pay card will be accepted only at participating pharmacies.**
- **This program is not health insurance.**
- This program is good only in the U.S. and Puerto Rico.
- This program is limited to 1 per person during this offering period and is not transferable.
- No other purchase is necessary.
- Data related to your redemption of the program assistance may be collected, analyzed, and shared with Pfizer, for market research and other purposes related to assessing Pfizer’s programs. Data shared with Pfizer will be aggregated and de-identified; it will be combined with data related to other assistance redemptions and will not identify you.
- Pfizer reserves the right to rescind, revoke or amend this program without notice.
- This program may not be available to patients in all states.
- For more information about Pfizer, visit www.pfizer.com.
- For more information about the Pfizer Oncology Together Co-Pay Savings Program for Injectables, visit pfizeroncologytogether.com, call 1-877-744-5675, or write to
Pfizer Oncology Together Co-Pay Savings Program for Injectables
P.O. Box 220366
Charlotte, NC 28222
- Program terms and offer will expire at the end of each calendar year. Before the calendar year ends, you will receive information and eligibility requirements for continued participation.

CLOSE

- Generally, events of glomerulonephritis resolved after dose-reduction or discontinuation of pegfilgrastim products
- If glomerulonephritis is suspected, evaluate for cause. If causality is likely, consider dose-reduction or interruption of NYVEPRIA

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Navigating access and reimbursement. Together.

Pfizer Oncology together™

Patient Support. Financial Assistance. Together.

If patients need access or reimbursement support, Pfizer Oncology Together is here to help.

Benefits Verification

We can help determine a patient's coverage and out-of-pocket costs.

Prior Authorization (PA) Assistance

We can coordinate with a patient's insurer to determine the PA requirements. After a PA request is submitted, we can follow up with the payer until a final outcome is determined.

Appeals Assistance

We can review the reasons for a denied claim and provide information on payer requirements. After an appeal is submitted, we can follow up with the payer until a final outcome is determined.

Product Distribution

NYVEPRIA is available through most major wholesalers.



Billing and Coding Assistance for IV Products

For your patient claim submissions, we provide easy access to sample forms and template letters, along with billing and coding information for physician's office and hospital outpatient settings of care.

Dedicated Local Support

A Pfizer Oncology Account Specialist can provide detailed information on Pfizer Oncology medications and access resources. In addition, they can help you and your office staff contact a Pfizer Field Reimbursement Manager (FRM) in your area.

FRMs are trained to help address specific access issues—in person or over the phone. They can help educate your staff on our access and reimbursement resources and help address challenging or urgent Pfizer Oncology patient cases you have sent to Pfizer Oncology Together.

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).



FOR LIVE, PERSONALIZED SUPPORT

Call **1-877-744-5675** (Monday–Friday 8 AM–8 PM ET)

VISIT

PfizerOncologyTogether.com

SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Leukocytosis

- White blood cell counts of $100 \times 10^9/L$ or greater have been observed in patients receiving pegfilgrastim products
- Monitoring of complete blood count (CBC) during NYVEPRIA therapy is recommended

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Pfizer is committed to supporting you and your patients

For commercially insured patients **Co-Pay Savings Program for Injectables**

Finding financial support options. Together.

Limits, terms, and conditions apply.
Please see page 6 for terms and conditions.

Eligible patients
may pay as little as

\$0 per Tx



ThisIsLivingWithCancer.com

A free app designed to help manage life with cancer

Help your patients and their caregivers stay connected and get organized by telling them about **LivingWith™**.

The **LivingWith** app is available to anyone living with cancer and their loved ones, and is not specific to NYVEPRIA.

PfizerBiosimilarsResource.com

Downloadable tools are available to help support you when implementing Pfizer biosimilars into your practice.



FOR LIVE, PERSONALIZED SUPPORT
Call **1-877-744-5675** (Monday–Friday 8 AM–8 PM ET)

VISIT
PfizerOncologyTogether.com

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SELECTED SAFETY INFORMATION **Warnings and Precautions (continued)** **Thrombocytopenia**

- Thrombocytopenia has been reported in patients receiving pegfilgrastim products
- Monitor platelet counts

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An FDA-approved biosimilar to Neulasta® (pegfilgrastim)¹

NYVEPRIA is a biosimilar to Neulasta¹



Approved for the
eligible indication
of Neulasta¹



Identical dosing and
administration schedule
to Neulasta¹



Useful ordering and
coding information

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Capillary Leak Syndrome (CLS)

- CLS has been reported after granulocyte-colony stimulating factor (G-CSF) administration, including pegfilgrastim products, and is characterized by hypotension, hypoalbuminemia, edema, and hemoconcentration
- Episodes vary in frequency and severity and may be life-threatening if treatment is delayed
- Patients who develop symptoms of CLS should be closely monitored and receive standard symptomatic treatment, which may include a need for intensive care

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NYVEPRIA has an identical dosing and administration schedule to Neulasta® (pegfilgrastim)¹

DOSING FOR ADULTS



6 mg

Once per chemotherapy cycle

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

- NYVEPRIA is administered subcutaneously via a single-dose prefilled syringe for manual use

Please see the [full NYVEPRIA Prescribing Information](#) for additional details.

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Potential for Tumor Growth Stimulatory Effects on Malignant Cells

- The G-CSF receptor through which pegfilgrastim and filgrastim products act has been found on tumor cell lines
- The possibility that pegfilgrastim products act as a growth factor for any tumor type, including myeloid malignancies and myelodysplasia, diseases for which pegfilgrastim products are not approved, cannot be excluded

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NYVEPRIA has an identical dosing and administration schedule to Neulasta® (pegfilgrastim)¹

DOSING FOR PEDIATRIC PATIENTS WEIGHING LESS THAN 45 KG*

Body weight	NYVEPRIA dose	Volume to administer
Less than 10 kg [†]	See below [†]	See below [†]
10-20 kg	1.5 mg	0.15 mL
21-30 kg	2.5 mg	0.25 mL
31-44 kg	4 mg	0.40 mL

INJECTION: 6 mg/0.6 mL of a sterile, clear, colorless, preservative-free solution in a single-dose prefilled syringe with BD UltraSafe Plus™ Passive Needle Guard for manual use only

*The NYVEPRIA prefilled syringe is not designed to allow for direct administration of doses less than 0.6 mL (6 mg). The syringe does not bear graduation marks, which are necessary to accurately measure doses of NYVEPRIA less than 0.6 mL (6 mg) for direct administration to patients. Thus, the direct administration to patients requiring dosing of less than 0.6 mL (6 mg) is not recommended due to the potential for dosing errors.

[†]For pediatric patients weighing less than 10 kg, administer 0.1 mg/kg (0.01 mL/kg) of NYVEPRIA.

Please see the [full NYVEPRIA Prescribing Information](#) for additional details.

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SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Myelodysplastic Syndrome (MDS) and Acute Myeloid Leukemia (AML) in Patients with Breast and Lung Cancer

- MDS and AML have been associated with the use of pegfilgrastim products in conjunction with chemotherapy and/or radiotherapy in patients with breast and lung cancer
- Monitor patients for signs and symptoms of MDS/AML in these settings

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NYVEPRIA is available in a single-dose prefilled syringe^{1,3,6}

Ordering NYVEPRIA—What you need to know

Unit of Sale	6 mg/0.6 mL prefilled syringe
Unit of Sale NDC	0069-0324-01
Unit of Sale Quantity	1 prefilled syringe
Unit of Sale List Price	\$3,925
HCPCS Code	Q5122
OPPS Status	340B pass-through payment

OPPS=Outpatient Prospective Payment System.

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION Warnings and Precautions (continued)

Aortitis

- Aortitis has been reported in patients receiving pegfilgrastim products. It may occur as early as the first week after start of therapy
- Manifestations may include generalized signs and symptoms such as fever, abdominal pain, malaise, back pain, and increased inflammatory markers (eg, c-reactive protein and white blood cell count)
- Consider aortitis in patients who develop these signs and symptoms without known etiology. Discontinue NYVEPRIA if aortitis is suspected

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NYVEPRIA is available in a single-dose prefilled syringe^{1,3,6}

Storage and handling



Store refrigerated between 36 °F to 46 °F (2 °C to 8 °C) in the carton to protect from light



Do not shake the prefilled syringe



Discard syringes stored at room temperature for more than 15 days



Avoid freezing; if frozen, thaw in the refrigerator before administration. Discard syringe if frozen more than once



- The NYVEPRIA syringe plunger stopper and needle cover are not made with natural rubber latex

Please see the [full NYVEPRIA Prescribing Information](#) for additional details.

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION Warnings and Precautions (continued) Nuclear Imaging

- Increased hematopoietic activity of the bone marrow in response to growth factor therapy has been associated with transient positive bone imaging changes. This should be considered when interpreting bone imaging results

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An FDA-approved biosimilar to Neulasta® (pegfilgrastim)¹

A totality of evidence supports biosimilarity to Neulasta^{1,7}



Biosimilarity established based on a totality of evidence^{1,7}



Similar structure and function³



Studies in support of biosimilarity in healthy volunteers

NYVEPRIA PD/PK data supports no clinically meaningful differences in efficacy vs Neulasta-EU and Neulasta-US³



Studies in support of biosimilarity in healthy volunteers

NYVEPRIA had a comparable safety profile vs Neulasta across adverse event categories³

PD=pharmacodynamic; PK=pharmacokinetic.

Please see [Important Safety Information and Indication](#) on pages 25-27 and full [Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION

Most Common Adverse Reactions

- Bone pain
- Pain in extremity

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An FDA-approved biosimilar to Neulasta® (pegfilgrastim)¹

NYVEPRIA was approved by the FDA based on the totality of evidence demonstrating it is highly similar to Neulasta^{1,3}

ADDITIONAL CLINICAL STUDIES

NYVEPRIA showed no clinically meaningful differences to Neulasta-US³

- In healthy subjects, no clinically meaningful differences in immunogenicity risk were observed between NYVEPRIA and Neulasta-US
- No evidence of NAbs was observed in any subject

CLINICAL PHARMACOLOGY (PD/PK)

NYVEPRIA demonstrated PD and PK equivalence to Neulasta-EU* and Neulasta-US in a phase I study³

- In this study, all PD and PK parameters were within the bioequivalence window of 80 % to 125 %

NONCLINICAL

NYVEPRIA is similar to Neulasta-EU and Neulasta-US based on TK and toxicity³

- A comparative 4-week, repeat-dose toxicity study in rats demonstrated comparable toxicity, TK, PD, and antipegfilgrastim antibody profiles

ANALYTICAL

NYVEPRIA is highly similar to Neulasta-EU and Neulasta-US in terms of structure and function³

- NYVEPRIA, Neulasta-EU, and Neulasta-US have a highly similar higher-order structure (protein folding) and have equivalent in vitro potency

- No comparative safety and efficacy study was conducted for this biosimilar program. A comparative human PD and PK study was conducted in healthy subjects using a relevant PD measure followed by a comparative immunogenicity study in healthy subjects, per FDA guidance³

NAb=neutralizing antibody; TK=toxicokinetic.
 *Product sourced from the EU is often used as a comparator in trials to demonstrate biosimilarity.

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SELECTED SAFETY INFORMATION

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Biosimilars: Highly similar versions of existing biologic medicines⁷

- According to the FDA, a biosimilar is a medicine highly similar to another biological medicine or reference product already marketed in the United States
 - Biosimilars have no clinically meaningful differences in terms of safety, purity, and potency from their reference products

The FDA evaluates biosimilars based on a totality of evidence approach^{7,8}

Development pathways



- The goal of biosimilar development is to demonstrate that there are no clinically meaningful differences based on the totality of evidence^{7,8}
- Analytical studies are the foundation of biosimilar development and provide the greatest sensitivity for detecting differences between a biosimilar and its reference product^{7,8}

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use available at NyvepriaHCP.com](#).

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SELECTED SAFETY INFORMATION

Warnings and Precautions

Splenic Rupture

- Splenic rupture, including fatal cases, can occur following the administration of pegfilgrastim products
- Evaluate for an enlarged spleen or splenic rupture in patients who report left upper abdominal or shoulder pain after receiving NYVEPRIA

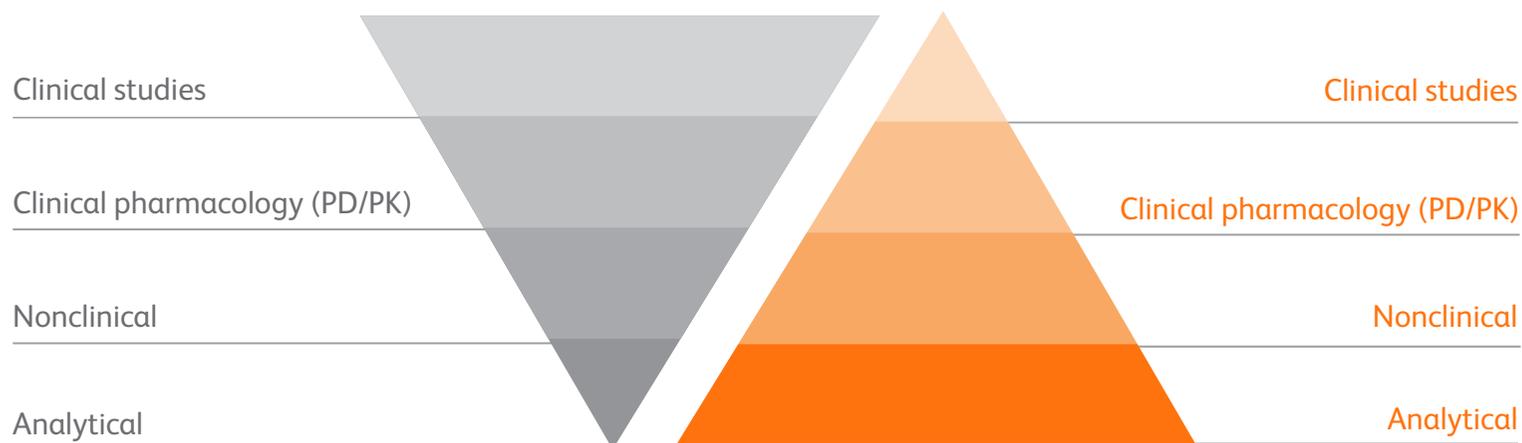
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Development pathways

Reference Product



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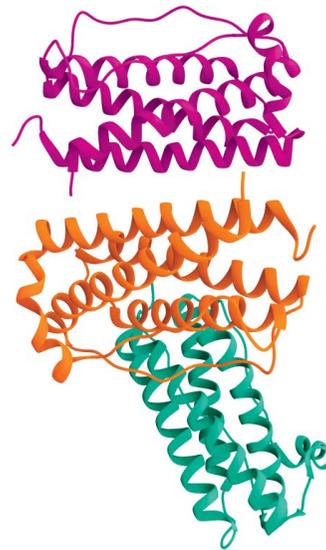
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- Splenic rupture, including fatal cases, can occur following the administration of pegfilgrastim products
- Evaluate for an enlarged spleen or splenic rupture in patients who report left upper abdominal or shoulder pain after receiving NYVEPRIA

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NYVEPRIA and Neulasta® (pegfilgrastim) have a highly similar higher-order structure (protein folding)³

X-ray crystallography



- NYVEPRIA, Neulasta-EU, and Neulasta-US have equivalent in vitro potency
- NYVEPRIA showed no clinically meaningful differences in immunogenicity risk vs Neulasta in healthy subjects
- NYVEPRIA showed comparable incidence of adverse events of special interest vs Neulasta-EU and Neulasta-US in healthy subjects

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Acute Respiratory Distress Syndrome (ARDS)

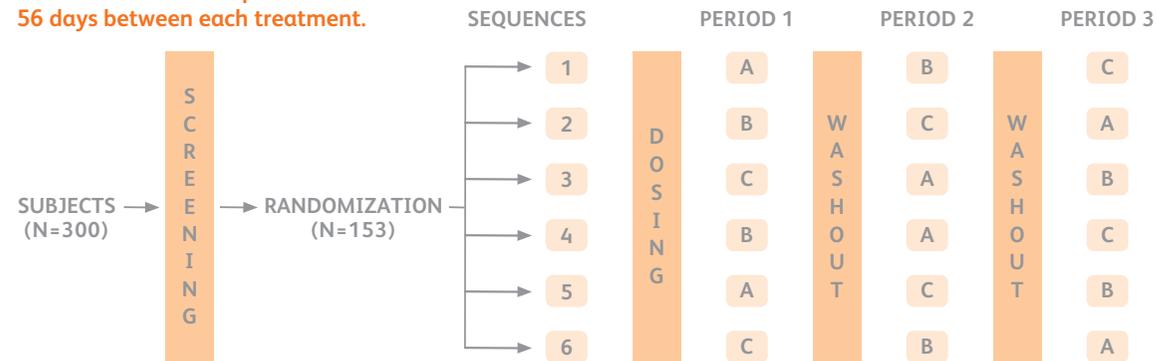
- ARDS can occur in patients receiving pegfilgrastim products
- Evaluate patients who develop fever and lung infiltrates or respiratory distress after receiving NYVEPRIA
- Discontinue NYVEPRIA in patients with ARDS

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Study to assess PD/PK similarity in healthy subjects³

Study design

There was a washout period of at least 56 days between each treatment.



- Treatment A: NYVEPRIA, 6 mg, single SC injection in the deltoid region
- Treatment B: Neulasta-US, 6 mg, single SC injection in the deltoid region
- Treatment C: Neulasta-EU, 6 mg, single SC injection in the deltoid region*

Study description

- A single-center, randomized, open-label, single-dose, comparator-controlled, 3-treatment, 3-period, 6-sequence crossover study that assessed the PD and PK profiles of NYVEPRIA compared with Neulasta-US and Neulasta-EU following SC administration in healthy subjects

SC=subcutaneous.

*Product sourced from the EU is often used as a comparator in trials to demonstrate biosimilarity.

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use available at NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Serious Allergic Reactions

- Serious allergic reactions, including anaphylaxis, can occur in patients receiving pegfilgrastim products
- The majority of reported events occurred upon initial exposure
- Allergic reactions, including anaphylaxis, can recur within days after the discontinuation of initial anti-allergic treatment
- Permanently discontinue NYVEPRIA in patients with serious allergic reactions
- Do not administer NYVEPRIA to patients with a history of serious allergic reactions to pegfilgrastim products or filgrastim products

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Study to assess PD/PK similarity in healthy subjects³

Primary PD/PK endpoints

- The primary PD endpoints were $AUEC_{ANC}$ from the time of dose administration to 288 hours after dose administration and the maximum observed value for ANC ($ANC_{C_{max}}$)
 - PD equivalence was assessed by constructing the 90% CIs for the GMR (test/reference) for $AUEC_{ANC}$ and $ANC_{C_{max}}$
- The primary PK endpoints were $AUC_{0-\infty}$ and C_{max}
 - PK equivalence was assessed by constructing the 90% CIs for the GMR (test/reference) for $AUC_{0-\infty}$ and C_{max} . PK equivalence was concluded if the 90% CIs for both $AUC_{0-\infty}$ and C_{max} were completely contained within the acceptance limits of 80% to 125%

ANC=absolute neutrophil count; AUEC=area under the effect curve; CI=confidence interval; C_{max} =maximum observed serum pegfilgrastim concentration; GMR=geometric mean ratio.

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Warnings and Precautions (continued)

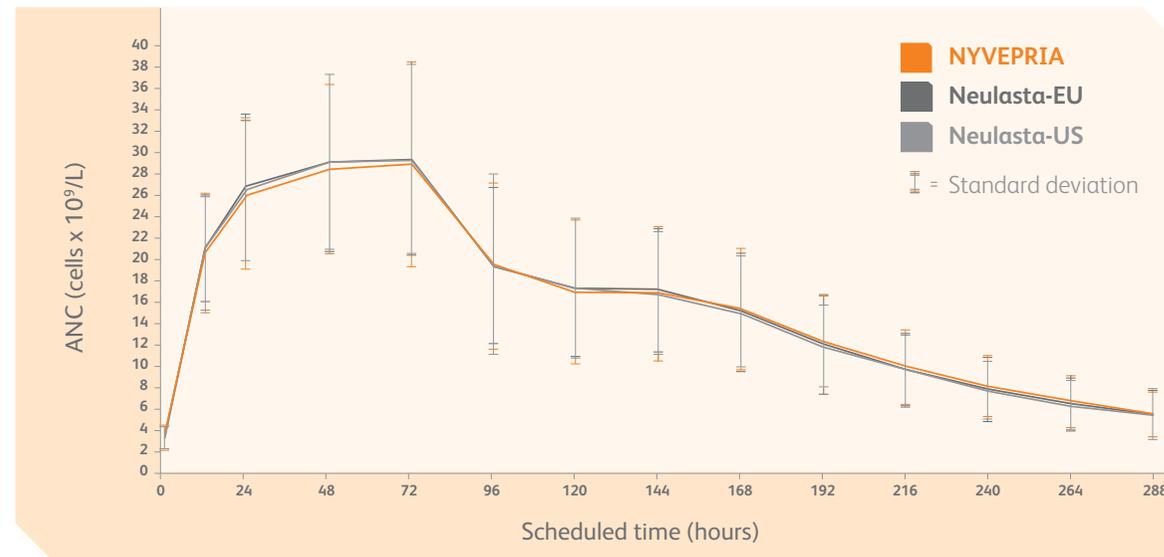
Use in Patients with Sickle Cell Disorders

- Severe and sometimes fatal sickle cell crises can occur in patients with sickle cell disorders receiving pegfilgrastim products
- Discontinue NYVEPRIA if sickle cell crisis occurs

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NYVEPRIA PD analysis established equivalence to Neulasta® (pegfilgrastim) in support of biosimilarity³

Mean ANC over time in healthy subjects*



The 90% CIs for $AUEC_{ANC}$ and $ANC_{C_{max}}$ were completely contained within the predefined equivalence limit of 80% to 125% for all study drug comparisons.

*A total of 143 subjects, assigned to 1 of the 6 sequence groups, were included in the PD and PK populations; 10 subjects confirmed positive for antipegfilgrastim antibodies were excluded from PD and PK analyses.

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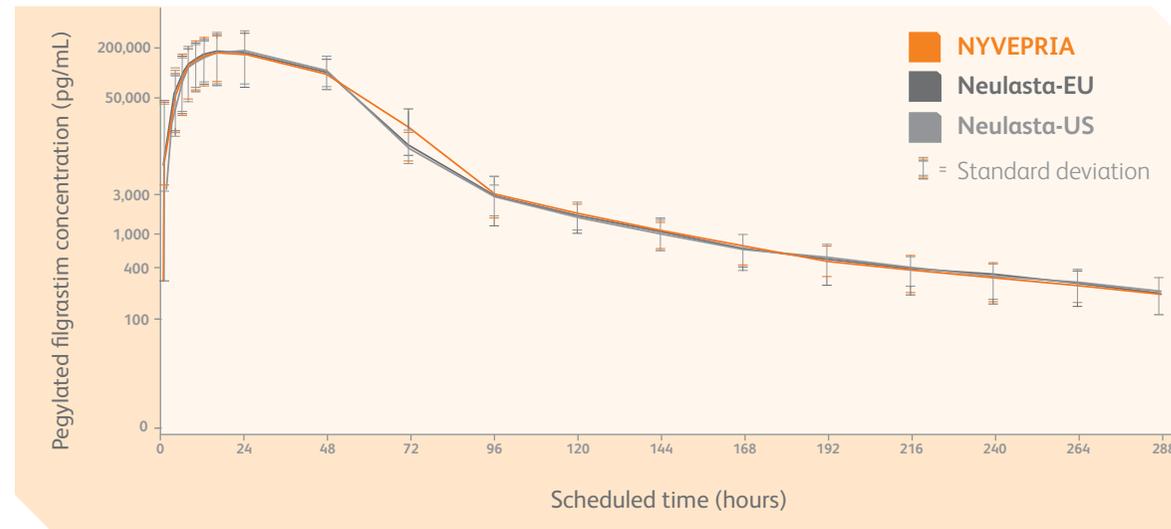
SELECTED SAFETY INFORMATION Warnings and Precautions (continued) Glomerulonephritis

- Glomerulonephritis has occurred in patients receiving pegfilgrastim products
- The diagnoses were based on azotemia, hematuria (microscopic and macroscopic), proteinuria, and renal biopsy
- Generally, events of glomerulonephritis resolved after dose-reduction or discontinuation of pegfilgrastim products
- If glomerulonephritis is suspected, evaluate for cause. If causality is likely, consider dose-reduction or interruption of NYVEPRIA

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NYVEPRIA PK analysis established equivalence to Neulasta® (pegfilgrastim) in support of biosimilarity³

Primary PK endpoint of mean serum concentration over time was similar across treatments among healthy subjects



The 90% CIs for $AUC_{0-\infty}$ and C_{max} were completely contained within the predefined equivalence limit of 80% to 125% for all study drug comparisons.

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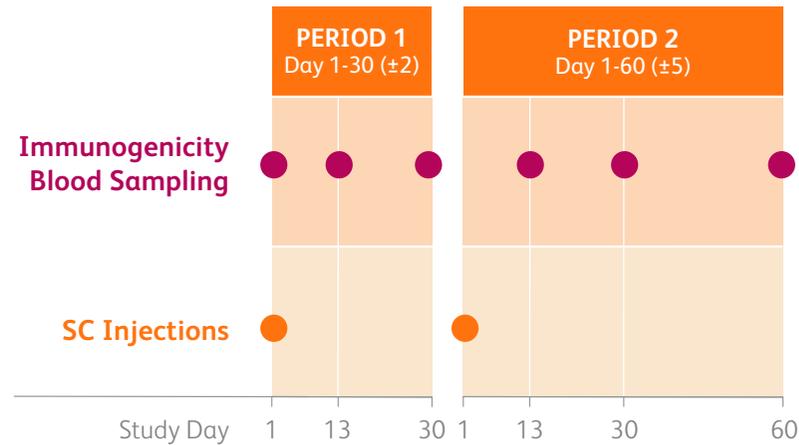
Warnings and Precautions (continued)

Leukocytosis

- White blood cell counts of $100 \times 10^9/L$ or greater have been observed in patients receiving pegfilgrastim products
- Monitoring of complete blood count (CBC) during NYVEPRIA therapy is recommended

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A comparative clinical study assessed the immunogenicity of NYVEPRIA vs Neulasta® (pegfilgrastim) in healthy subjects^{3*}



Primary endpoint

- The proportion of subjects with a negative antipegfilgrastim antibody test result at baseline and confirmed postdose positive antipegfilgrastim antibody test result at any time during the study

Secondary endpoint

- The proportion of subjects with a negative baseline antipegfilgrastim antibody test result and postdose positive NAb result at any time during the study

*Based on an open-label, randomized, multiple-dose, parallel design, noninferiority, 2-treatment, 2-period study of 422 healthy subjects.

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SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Thrombocytopenia

- Thrombocytopenia has been reported in patients receiving pegfilgrastim products
- Monitor platelet counts

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No clinically meaningful differences in immunogenicity risk observed between NYVEPRIA and Neulasta® (pegfilgrastim)³

	NYVEPRIA n (%) (n=208)	Neulasta n (%) (n=209)	Risk difference (%)	90% CI
Anti-pegfilgrastim antibody	12 (5.9) (n=204)	15 (7.5) (n=201)	-1.580	-5.915-2.675
Positive NAb	0 (n=204)	0 (n=201)	0	

- The upper bound of the 90% CI of risk difference was below the prespecified margin of 10%, establishing the noninferiority of NYVEPRIA to Neulasta-US
- No evidence of NAb was observed in any subject

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SELECTED SAFETY INFORMATION Warnings and Precautions (continued) Capillary Leak Syndrome (CLS)

- CLS has been reported after granulocyte-colony stimulating factor (G-CSF) administration, including pegfilgrastim products, and is characterized by hypotension, hypoalbuminemia, edema, and hemoconcentration
- Episodes vary in frequency and severity and may be life-threatening if treatment is delayed
- Patients who develop symptoms of CLS should be closely monitored and receive standard symptomatic treatment, which may include a need for intensive care

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TEAEs were comparable in a pooled analysis of 2 comparative studies³

TEAEs (TREATMENT RELATED) IN ≥5% OF HEALTHY SUBJECTS		
Preferred Term	NYVEPRIA (n=358) n (%)	Neulasta® (pegfilgrastim) (n=356) n (%)
Abdominal pain	15 (4.2)	19 (5.3)
Nausea	34 (9.5)	31 (8.7)
Injection site pain	30 (8.4)	25 (7.0)
Back pain	133 (37.2)	132 (37.1)
Musculoskeletal pain	163 (45.5)	153 (43.0)
Myalgia	26 (7.3)	35 (9.8)
Pain in extremity	37 (10.3)	35 (9.8)
Dizziness	20 (5.6)	6 (1.7)
Headache	206 (57.5)	200 (56.2)

- Adverse events for NYVEPRIA were consistent with the known safety profile of Neulasta
- The incidence of TEAEs of special interest was comparable between NYVEPRIA and Neulasta
- No new significant safety information as compared to the established safety profile of Neulasta was identified

TEAEs=treatment-emergent adverse events.

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SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Potential for Tumor Growth Stimulatory Effects on Malignant Cells

- The G-CSF receptor through which pegfilgrastim and filgrastim products act has been found on tumor cell lines
- The possibility that pegfilgrastim products act as a growth factor for any tumor type, including myeloid malignancies and myelodysplasia, diseases for which pegfilgrastim products are not approved, cannot be excluded

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Contraindications

- NYVEPRIA is contraindicated in patients with a history of serious allergic reactions to pegfilgrastim products or filgrastim products
- Reactions have included anaphylaxis

Warnings and Precautions

Splenic Rupture

- Splenic rupture, including fatal cases, can occur following the administration of pegfilgrastim products
- Evaluate for an enlarged spleen or splenic rupture in patients who report left upper abdominal or shoulder pain after receiving NYVEPRIA

Acute Respiratory Distress Syndrome (ARDS)

- ARDS can occur in patients receiving pegfilgrastim products
- Evaluate patients who develop fever and lung infiltrates or respiratory distress after receiving NYVEPRIA
- Discontinue NYVEPRIA in patients with ARDS

Serious Allergic Reactions

- Serious allergic reactions, including anaphylaxis, can occur in patients receiving pegfilgrastim products
- The majority of reported events occurred upon initial exposure
- Allergic reactions, including anaphylaxis, can recur within days after the discontinuation of initial anti-allergic treatment
- Permanently discontinue NYVEPRIA in patients with serious allergic reactions
- Do not administer NYVEPRIA to patients with a history of serious allergic reactions to pegfilgrastim products or filgrastim products

Use in Patients with Sickle Cell Disorders

- Severe and sometimes fatal sickle cell crises can occur in patients with sickle cell disorders receiving pegfilgrastim products
- Discontinue NYVEPRIA if sickle cell crisis occurs

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Myelodysplastic Syndrome (MDS) and Acute Myeloid Leukemia (AML) in Patients with Breast and Lung Cancer

- MDS and AML have been associated with the use of pegfilgrastim products in conjunction with chemotherapy and/or radiotherapy in patients with breast and lung cancer
- Monitor patients for signs and symptoms of MDS/AML in these settings

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Warnings and Precautions (continued)

Glomerulonephritis

- Glomerulonephritis has occurred in patients receiving pegfilgrastim products
- The diagnoses were based on azotemia, hematuria (microscopic and macroscopic), proteinuria, and renal biopsy
- Generally, events of glomerulonephritis resolved after dose-reduction or discontinuation of pegfilgrastim products
- If glomerulonephritis is suspected, evaluate for cause. If causality is likely, consider dose-reduction or interruption of NYVEPRIA

Leukocytosis

- White blood cell counts of $100 \times 10^9/L$ or greater have been observed in patients receiving pegfilgrastim products
- Monitoring of complete blood count (CBC) during NYVEPRIA therapy is recommended

Thrombocytopenia

- Thrombocytopenia has been reported in patients receiving pegfilgrastim products
- Monitor platelet counts

Capillary Leak Syndrome (CLS)

- CLS has been reported after granulocyte-colony stimulating factor (G-CSF) administration, including pegfilgrastim products, and is characterized by hypotension, hypoalbuminemia, edema, and hemoconcentration
- Episodes vary in frequency and severity and may be life-threatening if treatment is delayed
- Patients who develop symptoms of CLS should be closely monitored and receive standard symptomatic treatment, which may include a need for intensive care

Potential for Tumor Growth Stimulatory Effects on Malignant Cells

- The G-CSF receptor through which pegfilgrastim and filgrastim products act has been found on tumor cell lines
- The possibility that pegfilgrastim products act as a growth factor for any tumor type, including myeloid malignancies and myelodysplasia, diseases for which pegfilgrastim products are not approved, cannot be excluded

Please see [Important Safety Information and Indication on pages 25-27](#) and [full Prescribing Information, Patient Information, and Instructions for Use](#) available at [NyvepriaHCP.com](#).

SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Aortitis

- Aortitis has been reported in patients receiving pegfilgrastim products. It may occur as early as the first week after start of therapy
- Manifestations may include generalized signs and symptoms such as fever, abdominal pain, malaise, back pain, and increased inflammatory markers (eg, c-reactive protein and white blood cell count)
- Consider aortitis in patients who develop these signs and symptoms without known etiology. Discontinue NYVEPRIA if aortitis is suspected

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Myelodysplastic Syndrome (MDS) and Acute Myeloid Leukemia (AML) in Patients with Breast and Lung Cancer

- MDS and AML have been associated with the use of pegfilgrastim products in conjunction with chemotherapy and/or radiotherapy in patients with breast and lung cancer
- Monitor patients for signs and symptoms of MDS/AML in these settings

Aortitis

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- Consider aortitis in patients who develop these signs and symptoms without known etiology. Discontinue NYVEPRIA if aortitis is suspected

Nuclear Imaging

- Increased hematopoietic activity of the bone marrow in response to growth factor therapy has been associated with transient positive bone imaging changes. This should be considered when interpreting bone imaging results

Most Common Adverse Reactions

- Bone pain
- Pain in extremity

INDICATION

NYVEPRIA is 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.

Limitations of Use

NYVEPRIA is not indicated for the mobilization of peripheral blood progenitor cells for hematopoietic stem cell transplantation.

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SELECTED SAFETY INFORMATION

Warnings and Precautions (continued)

Nuclear Imaging

- Increased hematopoietic activity of the bone marrow in response to growth factor therapy has been associated with transient positive bone imaging changes. This should be considered when interpreting bone imaging results

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NYVEPRIA: Pfizer Oncology's commitment to building onto the clinical experience of pegfilgrastim



With the largest portfolio of oncology biosimilars—including NYVEPRIA—Pfizer is committed to expanding options for patient care²



Favorable coverage³



Potential savings³



Support for you and your patients



Approved for the eligible indication of Neulasta® (pegfilgrastim), with an identical dosing and administration schedule¹

Realize the full potential of biosimilars. Ask about the Pfizer biosimilar portfolio. >

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Most Common Adverse Reactions

- Bone pain
- Pain in extremity

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NYVEPRIA is a trademark of Pfizer Inc.

Neulasta® (pegfilgrastim) is a registered trademark of Amgen Inc.

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SELECTED SAFETY INFORMATION

Contraindications

- NYVEPRIA is contraindicated in patients with a history of serious allergic reactions to pegfilgrastim products or filgrastim products
- Reactions have included anaphylaxis

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