

NEW ZEALAND DATA SHEET

1 ZIEXTENZO® (6 mg in 0.6 mL solution for injection)

ZIEXTENZO® 6 mg in 0.6 mL solution for injection (pre-filled syringe)

ZIEXTENZO is a biosimilar medicine.

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

6 mg of pegfilgrastim in 0.6 mL (10 mg/mL*) solution for injection.

* Based on protein only.

Pegfilgrastim is composed of filgrastim (recombinant methionyl human G-CSF) with an approximately 20 kDa polyethylene glycol (PEG) molecule covalently bound to the N-terminal methionine residue. Filgrastim is produced by recombinant DNA technology in *E. coli*.

Excipient(s) with known effect

Each pre-filled syringe contains 30 mg sorbitol (E420).

Each pre-filled syringe contains less than 1 mmol (23 mg) sodium

For the full list of excipients, see section 6.1.

Ziextenzo is a biosimilar medicine to the reference medicine Neulastim®. The prescribing physician should be involved in any decision regarding interchangeability with other products. Additional information is available on the following website (www.medsafe.govt.nz/profs/Rtss/Biosimilars.asp).

In studies comparing the pharmaceutical quality and the biological activity, as well as in nonclinical and clinical comparative studies it was demonstrated that Ziextenzo matches the reference medicine in terms of quality, safety, efficacy and immunogenicity. The level of comparability of Ziextenzo with the reference medicine that has been shown justifies the use of Ziextenzo in all indications of the reference medicine. Data comparing Ziextenzo to the reference medicine can be found in Section 5.1 of this data sheet.

3 PHARMACEUTICAL FORM

ZIEXTENZO is a clear, colourless to slightly yellowish solution for injection in a pre-filled syringe.

4 CLINICAL PARTICULARS

4.1 Therapeutic indications

Reduction in the duration of neutropenia, the incidence of febrile neutropenia and the incidence of infection as manifested by febrile neutropenia in patients treated with cytotoxic chemotherapy for malignancy (with the exception of chronic myeloid leukaemia and myelodysplastic syndromes).

4.2 Dose and method of administration

ZIEXTENZO therapy should be initiated and supervised by physicians experienced in oncology and/or haematology.

NEW ZEALAND DATA SHEET

Dose

One 6 mg dose (a single pre-filled syringe) of ZIEXTENZO is recommended for each chemotherapy cycle, administered as a subcutaneous injection approximately 24 hours following cytotoxic chemotherapy.

Paediatric population

The safety and efficacy of pegfilgrastim in children aged below 18 years have not yet been established. Currently available data are described in section 5.2 but no recommendation on a dosage can be made.

Method of administration

Subcutaneous injection.

For instructions on handling the medicine before administration, see section 6.6.

4.3 Contraindications

Hypersensitivity to pegfilgrastim, filgrastim, *E. coli*-derived proteins, or to any excipients listed in section 6.1.

4.4 Special warnings and precautions for use

General

Pegfilgrastim should not be used to increase the dose of cytotoxic chemotherapy beyond established dosage regimens.

The safety and efficacy of pegfilgrastim have not been investigated in patients receiving high dose chemotherapy.

Hypersensitivity

Hypersensitivity, including anaphylactic reactions, occurring on initial or subsequent treatment have been reported in patients treated with pegfilgrastim. Permanently discontinue pegfilgrastim in patients with clinically significant hypersensitivity. Do not administer pegfilgrastim to patients with a history of hypersensitivity to pegfilgrastim or filgrastim.

Use in leukaemia and myelodysplasia

Limited clinical data suggest that the effect on time to recovery of severe neutropenia between pegfilgrastim and filgrastim is comparable in patients with de novo acute myeloid leukaemia (see section 5.1). However, the long-term effects of pegfilgrastim have not been established in acute myeloid leukaemia (AML); therefore, it should be used with caution in this patient population.

Granulocyte-colony stimulating factor can promote growth of myeloid cells, including malignant cells, *in vitro* and similar effects may be seen on some non-myeloid cells *in vitro*.

The safety and efficacy of pegfilgrastim have not been investigated in patients with myelodysplastic syndrome, chronic myelogenous leukaemia, and in patients with secondary AML; therefore, it should not be used in such patients. Particular care should be taken to distinguish the diagnosis of blast transformation of chronic myeloid leukaemia from acute myeloid leukaemia.

The safety and efficacy of pegfilgrastim administration in de novo AML patients aged < 55 years with cytogenetics t(15;17) have not been established.

NEW ZEALAND DATA SHEET

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

In the post-marketing observational study setting, myelodysplastic syndrome (MDS) and acute myeloid leukaemia (AML) have been associated with the use of pegfilgrastim in conjunction with chemotherapy and/or radiotherapy in breast and lung cancer patients. Monitor patients for signs and symptoms of MDS/AML in these settings.

Acute Respiratory Distress Syndrome

The onset of pulmonary signs such as cough, fever, and dyspnoea in association with radiological signs of pulmonary infiltrates, and deterioration in pulmonary function along with increased neutrophil count may be preliminary signs of Acute Respiratory Distress Syndrome (ARDS). In such circumstances pegfilgrastim should be discontinued at the discretion of the physician and the appropriate treatment given.

Splenic Rupture and Splenomegaly

Splenic rupture, in some cases fatal, has been reported following administration of pegfilgrastim. Spleen size should be carefully monitored. Patients receiving pegfilgrastim who report left upper abdominal and/or shoulder tip pain should be evaluated for an enlarged spleen or splenic rupture.

Treatment with pegfilgrastim alone does not preclude thrombocytopenia and anaemia because full dose myelosuppressive chemotherapy is maintained on the prescribed schedule. Regular monitoring of platelet count and haematocrit is recommended.

Capillary leak syndrome

Capillary leak syndrome, characterised by hypotension, hypoalbuminaemia, oedema and haemoconcentration, has been reported very rarely. Patients who develop symptoms of capillary leak syndrome should be closely monitored and receive appropriate medical attention.

Sickle Cell Crisis

Sickle cell crisis has been associated with the use of pegfilgrastim in patients with sickle cell trait or sickle cell disease. Physicians should use caution when prescribing the use of pegfilgrastim in patients with sickle cell trait or sickle cell disease.

The safety and efficacy of pegfilgrastim for the mobilisation of blood progenitor cells in patients has not been adequately evaluated.

Glomerulonephritis

Glomerulonephritis has been reported in patients receiving filgrastim and pegfilgrastim. Generally, events of glomerulonephritis resolved after dose reduction or withdrawal of filgrastim and pegfilgrastim. Urinalysis monitoring is recommended.

Immunogenicity

As with all therapeutic proteins, there is a potential for immunogenicity. Considering all sources of data on immunogenicity, rates of generation of antibodies against pegfilgrastim are generally low. Binding antibodies do develop as expected with all biologics however were not associated with neutralising antibodies and adverse clinical consequences.

NEW ZEALAND DATA SHEET

The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralising antibody) positivity in an assay may be influenced by several factors, including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to pegfilgrastim with the incidence of antibodies to other products may be misleading.

Aortitis

Aortitis has been reported in patients receiving pegfilgrastim and may present with generalised signs and symptoms such as fever and increased inflammatory markers. Consider aortitis in patients who develop these signs and symptoms without known aetiology.

Thrombocytopenia

Thrombocytopenia has been reported in patients receiving pegfilgrastim. Platelet counts should be monitored closely.

Laboratory tests

White blood cell counts of $100 \times 10^9/L$ or greater have been observed in less than 1% of patients receiving pegfilgrastim. No adverse events directly attributable to this degree of leucocytosis have been reported. Such elevation in White Blood Cells is transient, typically seen 24 to 48 hours after administration and is consistent with the pharmacodynamic effects of pegfilgrastim.

Monitoring of Complete Blood Count (CBC) during pegfilgrastim therapy is recommended.

Paediatric population

There are insufficient data to recommend the use of pegfilgrastim in children and adolescents under 18 years of age.

Use in the elderly patients

See section 5.2.

Renal impairment

See section 5.2.

Hepatic impairment

See section 5.2.

4.5 Interaction with other medicines and other forms of interaction

Cytotoxic chemotherapy

Due to the potential sensitivity of rapidly dividing myeloid cells to cytotoxic chemotherapy, pegfilgrastim should be administered approximately 24 hours after administration of cytotoxic chemotherapy.

In clinical studies, pegfilgrastim has been safely administered 14 days before chemotherapy.

Concomitant use of pegfilgrastim with any chemotherapy agent has not been evaluated in patients.

In animal models concomitant administration of pegfilgrastim and 5-fluorouracil (5-FU) or other antimetabolites has been shown to potentiate myelosuppression.

NEW ZEALAND DATA SHEET

Bone Imaging

Increased haematopoietic 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.

Possible interactions with other haematopoietic growth factors and cytokines have not been specifically investigated in clinical studies.

Lithium

The potential for pharmacodynamic interaction with lithium, which also promotes the release of neutrophils, has not been specifically investigated. There is no evidence that such an interaction would be harmful.

Other

The safety and efficacy of pegfilgrastim have not been evaluated in patients receiving chemotherapy associated with delayed myelosuppression e.g. nitrosoureas.

Specific interaction or metabolism studies have not been performed; however, clinical studies have not indicated an interaction of pegfilgrastim with any other medicinal products.

4.6 Fertility, pregnancy and lactation

Pregnancy

Pregnancy Category B3

There are no data from the use of pegfilgrastim in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). The potential risk to the human embryo or fetus is unknown.

Pegfilgrastim should not be used during pregnancy unless clearly necessary.

Breast-feeding

There is no clinical experience with lactating women; therefore pegfilgrastim should not be administered to women who are breast-feeding.

Fertility

Pegfilgrastim did not affect reproductive performance or fertility in male or female rats at cumulative weekly doses approximately 6 to 9 times higher than the recommended human dose (based on body surface area).

4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed.

4.8 Undesirable effects

Summary of safety profile

The most frequently reported adverse reactions were bone pain (very common [$\geq 1/10$]) and musculoskeletal pain (common). Bone pain was generally of mild to moderate severity, transient and could be controlled in most patients with standard analgesics.

NEW ZEALAND DATA SHEET

Tabulated list of adverse reactions

The adverse drug reactions (ADRs) presented in the table below were reported from clinical trials and spontaneously.

Table 1 Adverse Reactions with Pegfilgrastim

System Organ Class	Very common (≥ 1/10)	Common (≥ 1/100 to < 1/10)	Uncommon (≥ 1/1,000 to < 1/100)	Rare (≥ 1/10,000 to < 1/1,000)	Very rare (< 1/10,000)	Not known*
Blood and lymphatic system disorders		Leucocytosis, Thrombocytopenia	Splenomegaly			Sickle cell anaemia with crisis, Myelodysplastic syndrome, Acute myeloid leukaemia, Splenic rupture
Immune system disorders				Anaphylactic reactions		
Nervous system disorders		Headache				
Vascular disorders						Aortitis
Respiratory, thoracic and mediastinal disorders			Haemoptysis	Pulmonary haemorrhage		
Skin and subcutaneous tissue disorders		Erythema				Acute febrile dermatosis, Cutaneous vasculitis

NEW ZEALAND DATA SHEET

Musculo-skeletal and connective tissue disorders	Bone pain	Arthralgia, Myalgia, Back, Limb, Musculoskeletal, and Neck pain				
Renal and urinary disorders						Glomerulo nephritis
General disorders and administration site disorders		Chest pain (non-cardiac), Pain	Injection site pain			
Investigations			Blood alkaline phosphatase increased, Blood lactate dehydrogenase increased	Blood uric acid increased		

*Not known (cannot be estimated from the available data') per the NZ guidance.

Description of selected adverse reactions

Adverse reactions from clinical trials

In randomised clinical studies in patients with malignancy receiving pegfilgrastim after cytotoxic chemotherapy, most adverse events were caused by the underlying malignancy or cytotoxic chemotherapy.

Musculoskeletal and connective tissue disorders

The most frequently reported and very common study-drug related undesirable effect was bone pain. Bone pain was generally of mild-to-moderate severity, transient and could be controlled in most patients with standard analgesics.

Blood and lymphatic system disorders

In clinical studies, leukocytosis (WBC counts > 100 x 10⁹/L) was observed in patients with non-myeloid malignancies receiving pegfilgrastim.

NEW ZEALAND DATA SHEET

Gastrointestinal disorders

Nausea was observed in healthy volunteers more frequently than in patients receiving chemotherapy.

Investigations

Reversible, mild to moderate elevations in uric acid, with no associated clinical effects, were common, and reversible, mild to moderate elevations in alkaline phosphatase and lactate dehydrogenase, with no associated clinical effects, were very common in patients receiving pegfilgrastim following cytotoxic chemotherapy.

Adverse reactions from spontaneous reporting

Blood and lymphatic system disorders

Sickle cell crisis, in some cases fatal, have been reported in patients with sickle cell disease.

Cases of splenomegaly have been reported commonly ($\geq 1/100$ to $< 1/10$) in patients treated with filgrastim.

Immune system disorders

Allergic-type reactions, including anaphylaxis, skin rash, urticaria, angioedema, dyspnoea, hypotension, erythema and flushing, occurring on initial or subsequent treatment have rarely been reported in patients receiving pegfilgrastim. In some cases, symptoms have recurred with rechallenge, suggesting a causal relationship. If a serious allergic reaction occurs, appropriate therapy should be administered, with close patient follow-up over several days. Pegfilgrastim should be permanently discontinued in patients who experience a serious allergic reaction.

Skin and subcutaneous tissue disorders

Uncommon cases of Sweet's syndrome (acute febrile dermatosis) have been reported.

Reactions of cutaneous vasculitis have been reported in patients with cancer receiving pegfilgrastim (estimated reporting rate: 0.00038%).

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorization of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Healthcare professionals are asked to report any suspected adverse reactions <https://nzphvc.otago.ac.nz/reporting/>

4.9 Overdose

Single doses of 300 mcg/kg have been administered subcutaneously to a limited number of healthy volunteers and patients with non-small cell lung cancer without serious adverse effects. The adverse events were similar to those in subjects receiving lower doses of pegfilgrastim.

For advice on the management of overdose please contact the National Poisons Centre on 0800 POISON (0800 764766).

5 PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: immunostimulants, colony stimulating factor; ATC code: L03AA13

NEW ZEALAND DATA SHEET

Pharmacodynamic effects

Mechanism of action

Human granulocyte colony stimulating factor (G-CSF) is a glycoprotein, which regulates the production and release of neutrophils from the bone marrow. Pegfilgrastim is a covalent conjugate of recombinant human G-CSF (r-metHuG-CSF) with an approximately 20 kDa polyethylene glycol (PEG) molecule. Pegfilgrastim is a sustained duration form of filgrastim due to decreased renal clearance.

Increase of white blood cell count (leukocytosis) is the predicted consequence of pegfilgrastim administration. No adverse events directly attributable to leukocytosis have been reported. The increase in white blood cells is transient, and is consistent with the pharmacodynamic effects of pegfilgrastim.

Pegfilgrastim and filgrastim have been shown to have identical modes of action, causing a marked increase in peripheral blood neutrophil counts within 24 hours, with minor increases in monocytes and/or lymphocytes. Similarly to filgrastim, neutrophils produced in response to pegfilgrastim show normal or enhanced function as demonstrated by tests of chemotactic and phagocytic function. As with other haematopoietic growth factors, G-CSF has shown in vitro stimulating properties on human endothelial cells.

Clinical efficacy and safety

In two randomised, double-blind, pivotal studies in patients with high risk stage II – IV breast cancer undergoing myelosuppressive chemotherapy consisting of doxorubicin and docetaxel, use of pegfilgrastim, as a single once-per-cycle dose, reduced the duration of neutropenia and the incidence of febrile neutropenia similarly to that observed with daily administrations of filgrastim (a median of 11 daily administrations). In the absence of growth factor support, this regimen has been reported to result in a mean duration of grade 4 neutropenia of 5 to 7 days, and a 30 - 40% incidence of febrile neutropenia.

In the first study (n = 157), which used a 6 mg fixed dose of pegfilgrastim the mean duration of grade 4 neutropenia for the pegfilgrastim group was 1.8 days compared with 1.6 days in the filgrastim group (difference 0.23 days, 95% CI -0.15, 0.63). Over the entire study, the rate of febrile neutropenia was 13% of pegfilgrastim-treated patients compared with 20% of filgrastim-treated patients (difference -7%, 95% CI of -19%, 5%).

In the second study (n = 310), which used a weight-adjusted dose (100 mcg/kg), the mean duration of grade 4 neutropenia for the pegfilgrastim group was 1.7 days, compared with 1.8 days in the filgrastim group (difference 0.03 days, 95% CI -0.36, 0.30). The overall rate of febrile neutropenia was 9% of patients treated with pegfilgrastim and 18% of patients treated with filgrastim (difference -9%, 95% CI of -16.8%, -1.1%).

In a placebo-controlled study the effect of pegfilgrastim on the incidence of febrile neutropenia was evaluated following administration of a chemotherapy regimen (docetaxel 100 mg/m² every 3 weeks for 4 cycles) which has been reported to be associated with a febrile neutropenia rate of 10 - 20%. In this study 928 patients were randomised to receive either a single dose of pegfilgrastim or placebo approximately 24 hours (i.e. on Day 2) after chemotherapy in each cycle. The incidence of febrile neutropenia was significantly lower for patients randomised to receive pegfilgrastim compared with placebo (1% versus 17%, p ≤ 0.001, respectively). The incidence of hospitalisation and IV anti-infective use associated with a clinical diagnosis of febrile neutropenia was significantly lower in the

NEW ZEALAND DATA SHEET

pegfilgrastim group compared with placebo (1% versus 14%, $p < 0.001$; and 2% versus 10%, $p < 0.001$ respectively).

A small ($n = 83$), Phase II, randomised, double-blind study in patients receiving chemotherapy for de novo acute myeloid leukaemia compared pegfilgrastim (single dose of 6 mg) with filgrastim, administered during induction chemotherapy. Median time to recovery from severe neutropenia was estimated as 22 days in both treatment groups. Long term outcome was not studied (see section 4.4).

Comparability of Ziextenzo® with the reference medicine

Ziextenzo® is a pegfilgrastim biosimilar. In studies comparing the pharmaceutical quality and the biological activity, as well as in nonclinical and clinical comparative studies it was demonstrated that Ziextenzo® matches the reference medicine in terms of quality, safety, efficacy and immunogenicity. The evidence for comparability supports the use of Ziextenzo® for the listed indication.

Pharmacokinetics

Pharmacokinetic (PK) similarity of Ziextenzo® and the pegfilgrastim reference product was demonstrated in a single-dose, two-period crossover study in healthy subjects.

Efficacy

The efficacy of Ziextenzo has been demonstrated in two double-blind, randomised, parallelgroup, multi-center studies of similar design. Each study was conducted in female patients with breast cancer receiving established myelosuppressive chemotherapy. Patients were randomised to either Ziextenzo or the reference product administered on Day 2 of each chemotherapy (docetaxel 75 mg/m²) in combination with doxorubicin (50 mg/m²) and cyclophosphamide (500 mg/m²) cycle for up to 6 cycles. In both studies, study drug administration was 6 mg dose SC in every cycle and treatment duration was up 18 weeks.

In the two studies, the primary objective was to compare Ziextenzo and the reference medicine in terms of the DSN (duration of severe neutropenia) in Cycle 1. The primary efficacy variable was defined as the mean DSN in Cycle 1. The DSN was defined as the number of consecutive days with grade 4 neutropenia (i.e. an ANC count $< 0.5 \times 10^9/L$) in Cycle 1.

The results of the ANCOVA model (adjusted for the stratification factors chemotherapy and region, and the covariate baseline ANC) demonstrated that Ziextenzo is equivalent to the reference medicine because the 95% CI was contained within the defined margin of ± 1 day for both studies.

Safety

Similar safety profiles between Ziextenzo and the reference medicine were observed in the clinical studies in healthy volunteers, as well as in patients with breast cancer.

Common adverse events in healthy subjects

In the Phase 1 PK/PD study in healthy volunteers, the pattern and nature of adverse events (AEs) reported after administration of Ziextenzo were consistent with the safety profile of the reference medicine.

Common adverse events in patients

The two double-blind, randomised, parallel group, multi-center studies conducted in female patients with breast cancer receiving established myelosuppressive chemotherapy independently showed similar safety results: the overall incidences and pattern of AEs were similar in the Ziextenzo treatment

NEW ZEALAND DATA SHEET

groups compared with the reference product treatment groups of both studies and are consistent with reported data for the reference product. In addition, the findings are consistent with the nature of the underlying disease and the safety profiles of the chemotherapeutic agents.

Immunogenicity

Immunogenicity of Ziextenzo and the reference medicine was compared in healthy subjects and breast cancer patients. Overall, there was low immunogenicity, which is consistent with data reported for the reference medicine.

5.2 Pharmacokinetic properties

Absorption

After a single subcutaneous dose of pegfilgrastim, the peak serum concentration of pegfilgrastim occurs at 16 to 120 hours after dosing.

Distribution

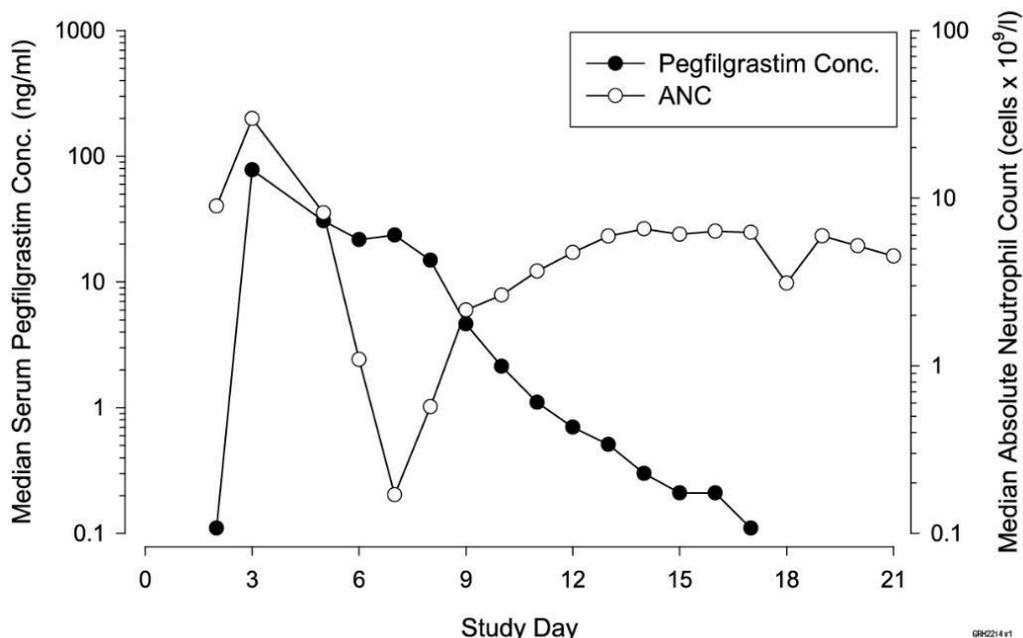
Serum concentrations of pegfilgrastim are maintained during the period of neutropenia after myelosuppressive chemotherapy.

The distribution of pegfilgrastim is limited to the plasma compartment.

Elimination

The elimination of pegfilgrastim is non-linear with respect to dose; serum clearance of pegfilgrastim decreases with increasing dose. Pegfilgrastim appears to be mainly eliminated by neutrophil mediated clearance (> 99%), which becomes saturated at higher doses. Consistent with a self-regulating clearance mechanism, the serum concentration of pegfilgrastim declines rapidly at the onset of neutrophil recovery (see Figure 1).

Figure 1. Profile of median pegfilgrastim serum concentration and Absolute Neutrophil Count (ANC) in chemotherapy-treated patients after a single 6 mg injection



GR224v1

NEW ZEALAND DATA SHEET

Paediatric population

The safety and pharmacokinetics of pegfilgrastim were studied in 37 paediatric patients with sarcoma. The systemic exposure (AUC 0 - inf, mean \pm Standard Deviation) of pegfilgrastim after subcutaneous administration at 100 mcg/kg was 22.0 (\pm 13.1) mcg·hr/mL in the 6 - 11 years age group (n = 10), 29.3 (\pm 23.2) mcg·hr/mL in the 12 - 21 years age group (n = 13) and 47.9 (\pm 22.5) mcg·hr/mL in the youngest age group (0 - 5 years, n = 11).

The terminal elimination half-lives of the corresponding age groups were 20.2 (\pm 11.3) hours, 21.2 (\pm 16.0) hours and 30.1 (\pm 38.2) hours, respectively. The most common adverse reaction was bone pain, as in adults (see sections 4.8 and 4.2).

Pharmacokinetics in special populations

Due to the neutrophil-mediated clearance mechanism, the pharmacokinetics of pegfilgrastim is not expected to be affected by renal or hepatic impairment.

Limited data indicate that the pharmacokinetics of pegfilgrastim in elderly subjects (> 65 years) is similar to that in adults.

5.3 Preclinical safety data

Carcinogenicity

Certain malignant cells have been shown to express granulocyte colony-stimulating factor (G-CSF) receptors. The possibility that pegfilgrastim can act as a growth factor for any tumour type cannot be excluded.

The carcinogenic potential of pegfilgrastim has not been evaluated in long-term animal studies.

In a toxicity study of 6 month duration in rats given once weekly subcutaneous injections of up to 1000 mcg/kg of pegfilgrastim (approximately 23-fold higher than the recommended human dose), no precancerous or cancerous lesions were noted.

Mutagenicity

Mutagenesis studies have not been conducted.

Teratogenicity

There were no adverse effects observed in offspring from pregnant rats given pegfilgrastim subcutaneously, but in rabbits pegfilgrastim has been shown to cause embryo/foetal toxicity (embryo loss) at low subcutaneous doses. In rat studies, it was shown that pegfilgrastim may cross the placenta. The relevance of these findings for humans is not known.

Other

Preclinical data from conventional studies of repeated dose toxicity revealed the expected pharmacological effects including increases in leukocyte count, myeloid hyperplasia in bone marrow, extramedullary haematopoiesis and splenic enlargement.

NEW ZEALAND DATA SHEET

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Glacial acetic acid

Sorbitol

Polysorbate 20

Sodium hydroxide (for pH adjustment)

Water for injections

6.2 Incompatibilities

Pegfilgrastim is incompatible with sodium chloride solutions.

6.3 Shelf life

36 months

6.4 Special precautions for storage

Store at 2 °C - 8°C (Refrigerate. Do not freeze.)

Ziextenzo may be exposed to room temperature (up to 35°C) for a maximum single period of up to 120 hours. Ziextenzo left at room temperature for more than 120 hours should be discarded.

Do not freeze. Accidental exposure to freezing temperatures for a single period of less than 24 hours does not adversely affect the stability of Ziextenzo.

Keep the container in the outer carton, in order to protect from light. This medicine should not be used after the expiry date (EXP) shown on the pack.

6.5 Nature and contents of container

Pre-filled syringe (Type I glass), with a rubber plunger stopper (bromobutyl rubber, does not contain natural rubber latex or any derivatives), a plunger rod, a stainless steel 29 gauge needle and a rubber needle cap (thermoplastic elastomer, does not contain natural rubber latex or any derivatives) with an automatic needle guard.

Each carton contains 1 ready to use pre-filled syringe with automatic needle guard containing 6 mg of pegfilgrastim in 0.6 mL (10 mg/mL) solution for SC injection.

6.6 Special precautions for disposal <and other handling>

Ziextenzo is a sterile but unpreserved solution.

Ziextenzo pre-filled syringe is for single use only.

Before administration, Ziextenzo solution should be inspected for visible particles. Only a solution that is clear and colourless to slightly yellowish should be injected.

Excessive shaking may aggregate pegfilgrastim, rendering it biologically inactive. Allow the pre-filled syringe to reach room temperature before injecting.

NEW ZEALAND DATA SHEET

The release of medicines into the environment should be minimised. Medicines should not be disposed of via wastewater and disposal through household waste should be avoided. Unused or expired medicine should be returned to a pharmacy for disposal.

7 MEDICINE SCHEDULE

Prescription Medicine

8 SPONSOR

Sandoz New Zealand Limited
12 Madden Street
Auckland 1010
New Zealand
Telephone: 0800 726 369
® = Registered Trademark

9 DATE OF FIRST APPROVAL

2 April 2020

10 DATE OF REVISION OF THE TEXT

26 November 2024

SUMMARY OF TABLE OF CHANGES

Section Changed	Summary of new information
6.4 Special precautions for storage	Updated room temperature product use