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A practical guide to NEXVIAZYME for pharmacists

NEXVIAZYME is indicated for long-term enzyme replacement therapy for the treatment of patients one year of age and older with Pompe disease (acid α-glucosidase deficiency).¹



This medicinal product is subject to additional monitoring in Australia. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse events at www.tga.gov.au/reporting-problems.

What is **NEXVIAZYME**?

NEXVIAZYME replaces the GAA enzyme, which is lacking or dysfunctional in people living with Pompe disease.¹ It has the same mechanism of action as MYOZYME[®].² Upon uptake, the GAA enzyme can degrade and clear lysosomal glycogen to help prevent irreversible muscle damage.^{1,3}

 Myozyme
 Infants
 Children and adults

 (alglucosidase alfa-rch)
 (Infantile-onset)
 (Late-onset)

 For patients
 (1 year of age²)
 (Late-onset)

Mexviazyme® (avalglucosidase alfa)

An ERT for patients ≥ 1 year of age¹

NEXVIAZYME is an ERT enhanced with 15x more mannose-6-phosphate (M6P) moieties vs MYOZYME, for increased uptake into muscle cells^{1,3,4*}

*NEXVIAZYME displayed increased uptake into murine cells versus MYOZYME (*P*-value not assessed). Animal data does not necessarily predict clinical effects.



[†]MYOZYME was the first ERT approved for the treatment of Pompe disease.⁵

NEXVIAZYME compared with MYOZYME



EFFICACY OUTCOMES

Favourable improvements in their motor and respiratory function at Week 49 as compared to MYOZYME:¹

- 2.43% improvement in predicted FVC (primary endpoint) (P=0.06, not significant)*§
- 30-metre gain in 6MWT (secondary endpoint) (nominal P=0.04)[§]
- Up to 6 years of data showing durability of treatment effect in FVC and 6MWT^



SAFETY MEASURES

Fewer patients with LOPD experienced IARs and SARs with NEXVIAZYME as compared to MYOZYME (*P*-value not assessed)^{1§}



SIMPLE TO START OR SWITCH

Simplified preparation with 100 mg of medication per vial with NEXVIAZYME vs 50 mg per vial for MYOZYME: $^{\rm L2}$

[‡]LS mean; 95% Cl, -0.13, 4.99. Mean (SD) pre-treatment baseline FVC % predicted values were 62.5 (14.4) and 61.6 (12.4) for the NEXVIAZYME and MYOZYME treatment groups, respectively. The difference in respiratory function improvements exceeded the predefined noninferiority margin of -1.1 and achieved statistical noninferiority (P=0.0074).¹

[§]Phase 3, randomised, double-blind study in patients with LOPD (N=100). Patients were naïve to treatment, aged 3 years or older at baseline, and were randomised 1:1 to receive 20 mg/kg of NEXVIAZYME or MYOZYME every 2 weeks for 49 weeks.¹⁶

¹LS mean; 95% CI, 1.33, 58.69. Mean (SD) pre-treatment baseline 6MWT distances were 399.3 m (110.9 m) and 378.1 m (116.2 m) for the NEXVIAZYME and MYOZYME treatment groups, respectively.¹

^Phase 1/2, open-label, ascending-dose study in patients with LOPD (N=24). Study duration included a 24-week ascending-dose period (NEO1) followed by an extension period (NEO-EXT), for a total duration of up to 8 years.⁷⁸

The safety of NEXVIAZYME has been evaluated across four clinical trials. The most common adverse drug reactions (>5%) associated with NEXVIAZYME were pruritis, nausea, headache, rash, urticaria, chills, fatigue, and erythema.

Undesirable effects

- In clinical studies, IARs were reported to occur in patients at any time during and/or within a few hours after the infusion of NEXVIAZYME and were more likely with higher infusion rates
- 3 (2.2%) patients reported severe IARs including symptoms of chest discomfort, nausea, and increased blood pressure

Immunogenicity

- Treatment-emergent ADAs were reported in both treatment-naïve (95%) and treatment-experienced adult patients with LOPD (49%). In the COMET trial, ADAs did not impact measures of efficacy while limited impacts on pharmacokinetics and pharmacodynamics were observed primarily with high-titre patients
- In adult patients with LOPD, 1 treatment-naive patient and 1 treatment-experienced patient developed anaphylaxis
- In paediatric patients with IOPD or LOPD, no patients developed anaphylactic reactions



NEXVIAZYME is a monotherapy administered every other week via intravenous infusion, supervised by an experienced physician in the management of Pompe disease¹



Ensure recorded weight is up to date for accurate dosage

Supplies and equipment needed for infusion

PRES	RIPTION ONLY MEDICINE	NEXVIAZYME single-use vials (see previous page for dose calculation)
teres and a second seco	wror Rakoror coniusien exviazyme® glucosidase alfa mg/10 mL	Intravenous (IV) administration set with 0.2 μm, low-protein-binding, in-line filter
Bergstaff Verket utdat States Soundelucecidate affe	for injection weenous infusion only	Sterile water for injection, for reconstitution— 10 mL for each vial
100 mg/10 mL entropy to the optimized and the op	sonofi	5% dextrose in water for dilution
Sanofi Austi Riskeys UL22151		Syringes and needles — for reconstitution and dilution as per institution protocol
	[Additional supplies per institution protocol

NOTE: Filter needles should NOT be used during preparation of NEXVIAZYME.



Reconstitution

NOTE: Use aseptic technique during preparation.



STEP 1

Remove the required number of vials needed for the infusion from the refrigerator and set aside for approximately 30 minutes to allow them to reach room temperature.





STEP 2

Reconstitute each vial by slowly injecting 10 mL of sterile water for injection (SWFI) into each vial.

- Inject SWFI by a slow drop-wise addition of the diluent down the inside of the vial and not directly onto the lyophilised powder
- Avoid forceful impact of the diluent on the lyophilised powder and avoid foaming

STEP 3

Tilt and roll each vial gently.

- Do not invert, swirl, or shake
- Allow the solution to become dissolved
- After reconstitution, each vial will yield 100 mg/10 mL (10 mg/mL) of NEXVIAZYME



Acceptable Clear, colourless to pale yellow



Not acceptable Discoloured, opaque particles, or foreign matter

STEP 4

Perform an immediate visual inspection of the reconstituted solution in vials for particulate matter and discolouration.

- Reconstituted solution should be clear, colourless to pale yellow
- Do not use if solution is discoloured or if opaque particles are observed

Dilution - Dilute in 5% dextrose in water immediately after reconstitution to a final concentration of 0.5 to 4 mg/mL NEXVIAZYME



STEP 5

Calculate the total volume of reconstituted NEXVIAZYME solution required (calculated according to patient's weight).





STEP 6

Check the volume for dilution.

- Remove and discard excess 5% dextrose in water solution (equivalent to the volume of reconstituted NEXVIAZYME solution).
- Remove air from inside the infusion bag to reduce the risk of foam or protein particle formation.

STEP 7

Slowly withdraw the volume of reconstituted solution from each vial (calculated according to patient's weight).



STEP 8

The reconstituted solution should be diluted slowly and directly into 5% dextrose in water.

- Make up the recommended total infusion volume based on the patient's weight, see table 1 for total infusion volumes
- Avoid foaming or agitation of the infusion bag, and avoid air introduction into the infusion bag
- Discard any unused reconstituted solution remaining in the vial in accordance with local requirements



STEP 9

Mix the contents of the infusion bag by gently inverting or massaging the infusion bag. Do not shake.

All images shown are for illustrative purposes. The actual images of product and supplies may vary.



Table 1

Projected intravenous infusion volumes for NEXVIAZYME administration by patient weight at 20 and 40 mg/kg dose

TOTAL INFUSION VOLUME FOR 20 MG/KG (mL)	TOTAL INFUSION VOLUME FOR 40 MG/KG (mL)
50	100
100	200
150	300
200	400
250	500
300	600
500	1000
600	1200
700	1400
800	1600
900	1800
1000	2000
	TOTAL INFUSION VOLUME FOR 20 MG/KG (mL) 50 100 100 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 300 500 600 700 800 900 1000

Table 2 Infusion rate schedule*										
PATIENT			INFUSIC	APPROXIMATE DURATION (h)						
		Step 1	Step 2	Step 3	Step 4	Step 5				
	LOPD	1	3	5	7	n/a	4 to 5			
IOPD -	4-step process	1	3	5	7	n/a	7			
	5-step process	1	3	6	8	10	5			

*Optimal infusion rate should be determined for each patient as per the clinical site protocol.

Important reminders

- Follow your institution's policy for IV insertion and medication infusion.
- Patients may be pre-treated with antihistamines, antipyretics and/or corticosteroids to prevent or reduce allergic reactions.
- Infusion reactions can occur. In the event of mild to moderate hypersensitivity reactions or infusion associated reactions (IARs), the infusion rate may be slowed or temporarily stopped.
- In the event of anaphylaxis, severe hypersensitivity reactions or severe IARs, immediately discontinue administration of NEXVIAZYME and initiate appropriate medical treatment.

To report adverse event(s) and/or pregnancy complications occurring in association with the use of NEXVIAZYME, please call 1800 818 806 within Australia

Storage¹



Diluted solution can be stored **up to 24 hours** in a refrigerator (2°C to 8°C) and **up to 9 hours** (including infusion time) when stored at room temperature (up to 25 °C)

Once the diluted solution is removed from the refrigerator, it cannot be re-stored in the refrigerator

Completely infuse the diluted solution within **9 hours** after removal from the refrigerator

Discard the diluted solution in accordance with local requirements if refrigerated for **more than 24 hours** or if the diluted solution is not able to be completely infused **within 9 hours** after removal from the refrigerator

Do not freeze

ADAs, antidrug antibodies; ERT, enzyme replacement therapy; GAA, acid alpha-glucosidase; IAR, infusion associated reaction; IOPD, infantile-onset Pompe disease; LOPD, late-onset Pompe disease; M6P, mannose-6-phosphate.

PBS Information: NEXVIAZYME. This product is not listed on the PBS. This product is funded under the Life Saving Drugs Program.

Please review full NEXVIAZYME Product Information before prescribing. To access full Product Information, visit https://qr.medsinfo.com.au/tx/sw.cfm?h=swcnexvi, scan the QR code or call 1800 818 806.

This medicinal product is subject to additional monitoring in Australia. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse events at www.tga.gov.au/reporting-problems.

PBS Information: MYOZYME. This product is not listed on the PBS. This product is funded under the Life Saving Drugs Program.

Please review full MYOZYME Product Information before prescribing. To access full Product Information, visit https://qr.medsinfo.com.au/tx/sw.cfm?h=swcmyozy, scan the QR code or call 1800 818 806.



Scan for more information



Scan for more information

References: 1. NEXVIAZYME Australian Approved Product Information. 2. MYOZYME Australian Approved Product Information. 3. Zhu Y et al. Mol Ther 2009; 17(6): 954–63. 4. Zhu Y et al. Biochem J 2005; 389(3): 619–28. 5. van der Ploeg A et al. N Engl J Med 2010; 362(15): 1396–406. 6. Diaz-Manera J et al. Lancet Neurol 2021;20:1012-26. 7. Pena LDM, et al. Neuromuscul Disord 2019;29(3):167-186. 8. Dimachkie et al. Neurology 2022; 99:e536-e548.

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