TREATMENT CONSIDERATIONS WITH NINLARO® (ixazomib)

NINLARO is indicated in combination with lenalidomide and dexamethasone for the treatment of patients with multiple myeloma who have received at least one prior therapy.

TOURMALINE-MM1: a global, phase 3, randomized (1:1), double-blind, placebo-controlled study that evaluated the safety and efficacy of the NINLARO regimen (ixazomib+lenalidomide+dexamethasone) vs the placebo regimen (placebo+lenalidomide+dexamethasone) until disease progression or unacceptable toxicity in 722 patients with relapsed and/or refractory multiple myeloma who received 1-3 prior therapies.¹

IMPORTANT SAFETY INFORMATION

WARNINGS AND PRECAUTIONS

- **Thrombocytopenia** has been reported with NINLARO. During treatment, monitor platelet counts at least monthly, and consider more frequent monitoring during the first three cycles. Manage thrombocytopenia with dose modifications and platelet transfusions as per standard medical guidelines. Adjust dosing as needed. Platelet nadirs typically occurred between Days 14-21 of each 28-day cycle and recovered to baseline by the start of the next cycle.
- **Gastrointestinal Toxicities**, including diarrhea, constipation, nausea and vomiting, were reported with NINLARO and may occasionally require the use of antidiarrheal and antiemetic medications, and supportive care. Diarrhea resulted in the discontinuation of one or more of the three drugs in 1% of patients in the NINLARO regimen and < 1% of patients in the placebo regimen. Adjust dosing for severe symptoms.

Please see Important Safety Information throughout and accompanying NINLARO (ixazomib) full <u>Prescribing Information</u>.



WARNINGS AND PRECAUTIONS (cont'd)

- **Peripheral Neuropathy** (predominantly sensory) was reported with NINLARO[®] (ixazomib). The most commonly reported reaction was peripheral sensory neuropathy (19% and 14% in the NINLARO and placebo regimens, respectively) Peripheral motor neuropathy was not commonly reported in either regimen (< 1%). Peripheral neuropathy resulted in discontinuation of one or more of the three drugs in 1% of patients in both regimens. Monitor patients for symptoms of peripheral neuropathy and adjust dosing as needed.
- Peripheral Edema was reported with NINLARO. Monitor for fluid retention. Investigate for underlying causes when appropriate and provide supportive care as necessary. Adjust dosing of dexamethasone per its prescribing information or NINLARO for Grade 3 or 4 symptoms.
- Cutaneous Reactions: Rash, most commonly maculo-papular and macular rash, was reported with NINLARO. Rash resulted in discontinuation of one or more of the three drugs in < 1% of patients in both regimens. Manage rash with supportive care or with dose modification.
- Thrombotic Microangiopathy: Cases, sometimes fatal, of thrombotic microangiopathy, including thrombotic thrombocytopenic purpura/hemolytic uremic syndrome (TTP/HUS), have been reported in patients who received NINLARO. Monitor for signs and symptoms of TTP/HUS. If the diagnosis is suspected, stop NINLARO and evaluate. If the diagnosis of TTP/HUS is excluded, consider restarting NINLARO. The safety of reinitiating NINLARO therapy in patients previously experiencing TTP/HUS is not known.

- Hepatotoxicity has been reported with NINLARO. Druginduced liver injury, hepatocellular injury, hepatic steatosis, hepatitis cholestatic and hepatotoxicity have each been reported in < 1% of patients treated with NINLARO. Events of liver impairment have been reported (6% in the NINLARO regimen and 5% in the placebo regimen). Monitor hepatic enzymes regularly during treatment and adjust dosing as needed.
- Embryo-fetal Toxicity: NINLARO can cause fetal harm. Women should be advised of the potential risk to a fetus, to avoid becoming pregnant, and to use contraception during treatment and for an additional 90 days after the final dose of NINLARO. Women using hormonal contraceptives should also use a barrier method of contraception.

ADVERSE REACTIONS

The most common adverse reactions ($\geq 20\%$) in the NINLARO regimen and greater than the placebo regimen, respectively, were diarrhea (42%, 36%), constipation (34%, 25%), thrombocytopenia (78%, 54%; pooled from adverse events and laboratory data), peripheral neuropathy (28%, 21%), nausea (26%, 21%), peripheral edema (25%, 18%), vomiting (22%, 11%), and back pain (21%, 16%). Serious adverse reactions reported in \geq 2% of patients included thrombocytopenia (2%) and diarrhea (2%).

DRUG INTERACTIONS: Avoid concomitant administration of NINLARO with strong CYP3A inducers.

SPECIAL POPULATIONS

HEPATIC **IMPAIRMENT**



Reduce the NINLARO starting dose to 3 mg in patients with moderate or severe hepatic impairment.

Reduce the NINLARO starting dose to 3 mg in patients with severe renal impairment or end-stage renal disease requiring dialysis. NINLARO is not dialyzable.

Contraception: Male and female patients of childbearing potential must use effective contraceptive measures during, and for 90 days following, treatment.



Please see Important Safety Information throughout and accompanying NINLARO (ixazomib) full Prescribing Information.

RENAL IMPAIRMENT



LACTATION



Advise nursing women not to breastfeed during treatment with NINLARO and for 90 days after the last dose.



Nonhematologic ARs occurring in \geq 5% of patients with a \geq 5% difference between the NINLARO[®] (ixazomib) regimen* and the placebo regimen⁺

AR	NINLARO regimen (n=360)			Placebo regimen (n=360)			Difference
	All grades	Grade 3	Grade 4	All grades	Grade 3	Grade 4	All grades
Upper respiratory tract infection	19%	<1%	0	14%	<1%	0	5%
Peripheral neuropathies [‡]	28 %	2%	0	21%	2%	0	7%
Diarrhea	42 %	6%	0	36%	2%	0	6%
Constipation	34%	<1%	0	25%	<1%	0	9%
Nausea	26 %	2%	0	21%	0	0	5%
Vomiting	22%	1%	0	11%	<1%	0	11%
Rash [‡]	19%	3%	0	11%	1%	0	8%
Back pain	21%	<1%	0	16%	3%	0	5%
Peripheral edema	25%	2%	0	18%	1%	0	7%

*NINLARO+lenalidomide+dexamethasone. [†]Placebo+lenalidomide+dexamethasone. [‡]Represents a pooling of preferred terms. AR=adverse reaction.

Additional safety information

- Serious ARs reported in $\geq 2\%$ of patients included thrombocytopenia (2%) and diarrhea (2%)
- Incidence of thrombocytopenia in patients in the NINLARO and placebo regimens, respectively: any grade, 78% vs 54%; grades 3-4, 26% vs 11%
- Incidence of neutropenia in the NINLARO and placebo regimens, respectively: any grade, 67% vs 66%; grades 3-4, 26% vs 30%

Please see Important Safety Information throughout and accompanying NINLARO (ixazomib) full Prescribing Information.



Discontinuation rates of the Dose tolerability entire regimen due to ARs **13%** vs **11%** 80% of patients continued at the starting dose of of the NINLARO and placebo regimens, respectively² NINLARO without dose reduction²

• For each adverse reaction, 1 or more of the 3 drugs were discontinued in ≤1% of patients in the NINLARO regimen

Discontinuation rates were comparable between the NINLARO[®] (ixazomib) and placebo regimens

- The median time on therapy for patients in the NINLARO arm was 17 cycles compared with 15 cycles for patients in the placebo arm¹
- The most common ARs (\geq 20%) in the NINLARO regimen and greater than the placebo regimen, respectively, were diarrhea (42%, 36%), constipation (34%, 25%), thrombocytopenia (78%, 54%; pooled from adverse events and laboratory data), peripheral neuropathy (28%, 21%), nausea (26%, 21%), peripheral edema (25%, 18%), vomiting (22%, 11%), and back pain (21%, 16%). Serious ARs reported in ≥2% of patients included thrombocytopenia (2%) and diarrhea (2%)

Concomitant medications may be given for prophylaxis and/or management of symptoms

Condition	Prophylaxis/symptomatic	Consider*
GI toxicity: diarrhea ^{3,4}	Symptomatic	Antidiarrheal (eg, loperamide)
GI toxicity: nausea/vomiting ^{3,4}	Prophylaxis or symptomatic	Antiemetics, antinauseants (eg, ondansetron, metoclopramide)
Viral infection: herpes zoster (reactivation) ^{3,4}	Prophylaxis ⁺ or symptomatic	Antivirals
Rash ^{3,4}	Prophylaxis or symptomatic	Antihistamines (eg, cetirizine) or corticosteroids (oral or topical; eg, prednisone)

*The above medications and supportive therapies are examples of appropriate supportive care that was permitted in the phase 3 clinical trial.

*Patients treated in the NINLARO regimen who received antiviral prophylaxis had a lower incidence (<1%) of herpes zoster infection compared to patients who did not receive prophylaxis (6%).



Encourage patients and caregivers to report any side effects early so appropriate management measures can be taken.

Please see Important Safety Information throughout and accompanying NINLARO (ixazomib) full Prescribing Information.





Dosing schedule



NINLARO is available in the following capsule strengths

As the graphic shows,

NINLARO is administered orally on days 1, 8, and 15 of a 28-day cycle.

Lenalidomide is administered orally on days 1-21 of a 28-day cycle.

Dexamethasone is administered orally on days 1, 8, 15, and 22 of a 28-day cycle.

Please note that there is NO DOSING on days 23-28.



Not actual capsule size.

The recommended starting dose of NINLARO is 4 mg (one capsule) in combination with lenalidomide and dexamethasone.

A 3-mg starting dose is recommended for patients with moderate or severe hepatic impairment and patients with severe renal impairment or end-stage renal disease requiring dialysis. A 2.3-mg dose is also available for subsequent dose reductions due to ARs.

Please see Important Safety Information throughout and accompanying NINLARO (ixazomib) full Prescribing Information.







Dosing considerations



• NINLARO should be taken once a week on the same day and at approximately the same time for the first 3 weeks of a 4-week cvcle

NINLARO should not be taken with food. Food may interfere with the absorption of NINLARO, which may lower levels of the medication in the blood and possibly reduce effectiveness.

- NINLARO should be taken on an empty stomach or at least 1 hour before or at least 2 hours after food
- NINLARO should not be taken at the same time as dexamethasone because dexamethasone should be taken with food
- No body surface area dosing is required
- NINLARO should be swallowed whole with water and should not be crushed, chewed, or opened
- If a NINLARO dose is delayed or missed, the dose should be taken only if the next scheduled dose is at least 72 hours away
- A double dose should not be taken to make up for the missed dose
- If vomiting occurs after taking a dose, the patient should not repeat the dose. The patient should resume dosing at the time of the next scheduled dose
- Antiviral prophylaxis should be considered in patients being treated with NINLARO to decrease the risk of herpes zoster reactivation

Considerations prior to initiating a new cycle of therapy

- Absolute neutrophil count should be at least 1000/mm³
- with NINLARO
- condition, or grade 1 or lower

• Platelet count should be at least 75,000/mm³. Monitor platelet counts at least monthly during treatment

• Nonhematologic toxicities should, at the physician's discretion, generally be recovered to patient's baseline



DOSE MODIFICATION GUIDELINES FOR THE NINLARO[®] (ixazomib) REGIMEN

Hematologic toxicity Thrombocytopenia (platelet count)	Recommended action		Nonhematologic toxicity Rash	Recommen
Platelet count <30,000/mm³	 Withhold NINLARO and lenalidomide until platelet count is at least 30,000/mm³ Following recovery, resume lenalidomide at the next lower dose according to its Prescribing Information and resume NINLARO at its most recent dose If platelet count falls to <30,000/mm³ again, withhold NINLARO and lenalidomide until platelet count is at least 30,000/mm³ Following recovery, resume NINLARO at the next lower dose and resume lenalidomide at its most recent dose* 		Grade [†] 2 or 3	 Withhold lena Following red Prescribing In If grade 2 or 3 grade 1 or low Following red most recent of
Neutropenia (absolute neutrophil count)			Grade 4	• Discontinue t
			Peripheral neuropathy	
Absolute neutrophil count <500/mm³	 Withhold NINLARO and lenalidomide until absolute neutrophil count is at least 500/mm³. Consider adding G-CSF as per clinical guidelines Following recovery, resume lenalidomide at the next lower dose according to its Prescribing Information and resume NINLARO at its most recent dose 		Grade 1 peripheral neuropathy with pain or grade 2 peripheral neuropathy	 Withhold NIN or patient's ba Following record
	 If absolute neutrophil count falls to <500/mm³ again, withhold NINLARO and lenalidomide until absolute neutrophil count is at least 500/mm³ Following recovery, resume NINLARO at the next lower dose and resume lenalidomide at its most recent dose* 		Grade 2 peripheral neuropathy with pain or grade 3 peripheral neuropathy	 Withhold NIN baseline cond Following record
			Grade 4 peripheral neuropathy	• Discontinue ti

Other nonhematologic toxicity

Other grade 3 or 4 nonhematologic toxicities

*For additional occurrences, alternate dose modification of lenalidomide and NINLARO. [†]Grading based on National Cancer Institute Common Terminology Criteria for Adverse Events Version 4.03.

Please see Important Safety Information throughout and accompanying NINLARO (ixazomib) full Prescribing Information.

For additional information regarding lenalidomide and dexamethasone, refer to their Prescribing Information.

nded action

alidomide until rash recovers to grade 1 or lower

covery, resume lenalidomide at the next lower dose according to its nformation

3 rash occurs again, withhold NINLARO and lenalidomide until rash recovers to ver

covery, resume NINLARO at the next lower dose and resume lenalidomide at its dose*

treatment regimen

NLARO until peripheral neuropathy recovers to grade 1 or lower without pain aseline

covery, resume NINLARO at its most recent dose

ILARO. Toxicities should, at the physician's discretion, generally recover to patient's dition, or grade 1 or lower prior to resuming NINLARO covery, resume NINLARO at the next lower dose

treatment regimen

Recommended action

• Withhold NINLARO. Toxicities should, at the physician's discretion, generally recover to patient's baseline condition, or grade 1 or lower prior to resuming NINLARO • If attributable to NINLARO, resume NINLARO at the next lower dose following recovery



Visit www.oncologypatientsupport.com or call 1-844-817-6468 for information on access, coverage, and support services.

REFERENCES: 1. Moreau P, Masszi T, Grzasko N, et al; for TOURMALINE-MM1 Study Group. Oral ixazomib, lenalidomide, and dexamethasone for multiple myeloma. *N Engl J Med.* 2016;374(17):1621-1634. **2.** Data on File 117, Takeda Pharmaceuticals International Co. **3.** Kumar S, Moreau P, Hari P, et al. Management of adverse events associated with ixazomib plus lenalidomide/dexamethasone in relapsed/refractory multiple myeloma. *Br J Haematol.* 2017;178(4):571-582. **4.** Kumar SK, Vij R, Noga SJ, et al. Treating multiple myeloma patients with oral therapies. *Clin Lymphoma Myeloma Leuk.* 2017;17(5):243-251.

Please see Important Safety Information throughout and accompanying NINLARO® (ixazomib) full Prescribing Information.



All trademarks are the property of their respective owners. ©2020 Millennium Pharmaceuticals, Inc., a wholly owned subsidiary of Takeda Pharmaceutical Company Limited. All rights reserved. 4/20 USO-IXA-0029

