



HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use BORTEZOMIB FOR INJECTION safely and effectively. See full prescribing information for BORTEZOMIB FOR INJECTION.

BORTEZOMIB for injection, for subcutaneous or intravenous use

Initial U.S. Approval: 2003

INDICATIONS AND USAGE

Bortezomib for injection is a proteasome inhibitor indicated for:

- Treatment of adult patients with multiple myeloma (1.1)
- Treatment of adult patients with mantle cell lymphoma (1.2)

DOSE AND ADMINISTRATION

- For subcutaneous or intravenous use only. Each route of administration has a different recommended concentration. Exercise caution when calculating the volume to be administered (2.1, 2.10).
- The recommended starting dose of bortezomib for injection is 1.3 mg/mL intravenously over a 3 to 5 second bolus intravenously or subcutaneous injection (2.2, 2.4, 2.6).
- Retreatment for Multiple Myeloma: May retreat starting at the last tolerated dose (2.6).
- Hepatic Impairment: Use a lower starting dose for patients with moderate or severe hepatic impairment (2.8).
- Dose must be individualized to prevent overdose (2.10).

DOSE FORMS AND STRENGTHS

For injection: Single-dose vials containing 3.5 mg of bortezomib as lyophilized white to off-white cake or powder for reconstitution and withdrawal of the appropriate individual patient dose (3).

CONTRAINDICATIONS

- Patients with hypersensitivity (not including local reactions) to bortezomib, boron, or mannitol, including anaphylactic reactions (4).
- Contraindicated for intrathecal administration (4).

WARNINGS AND PRECAUTIONS

- Peripheral Neuropathy: Manage with dose modification or discontinuation (2.7). Patients with peripheral neuropathy should be treated with bortezomib for injection only after careful risk-benefit assessment (2.7, 5.1).
- Hypotension: Use caution when treating patients with dehydration (5.2).
- Cardiac Toxicity: Worsening of and development of cardiac failure has occurred. Closely monitor patients with existing heart disease or risk factors for heart disease (5.3).

- **Pulmonary Toxicity:** Acute respiratory syndromes have occurred. Monitor closely for new or worsening symptoms and consider interrupting bortezomib for injection therapy (5.4).
- **Posterior Reversible Encephalopathy Syndrome:** Consider MRI imaging for onset of visual or neurological symptoms; discontinue bortezomib for injection if suspected (5.5).
- **Gastrointestinal Toxicity:** Nausea, diarrhea, constipation, and vomiting may require use of antiemetic and antidiarrheal medications or fluid replacement (5.6).
- **Thrombotic Microangiopathy:** Monitor for signs and symptoms. Discontinue bortezomib for injection if suspected (5.10).
- **Embryo-Fetal Toxicity:** Bortezomib can cause fetal harm. Advise females of reproductive potential and males with female partners of reproductive potential of the potential risk to a fetus and to use effective contraception (5.11).

- **Adverse Reactions:** Most commonly reported adverse reactions (incidence $\geq 20\%$) in clinical studies include nausea, diarrhea, thrombocytopenia, neutropenia, peripheral neuropathy, fatigue, neuralgia, anemia, leukopenia, constipation, vomiting, lymphopenia, rash, pyrexia, and anorexia (6.1).
- **DRUG INTERACTIONS:**
 - Strong CYP3A4 inhibitors: Closely monitor patients with concomitant use (7.1).
 - Strong CYP3A4 inducers: Avoid concomitant use (7.3).
- **USE IN SPECIFIC POPULATIONS:** Patients with hepatic impairment may require dose monitoring and blood glucose and adjustment of antidiabetic medication (8.8).

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 03/2022

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Multiple Myeloma
Bortezomib for injection is indicated for the treatment of adult patients with multiple myeloma.

1.2 Mantle Cell Lymphoma
Bortezomib for injection is indicated for the treatment of adult patients with mantle cell lymphoma.

2 DOSAGE AND ADMINISTRATION

2.1 Important Dosing Guidelines
Bortezomib for injection is for intravenous or subcutaneous use only. Do not administer bortezomib for injection by any other route. Because each route of administration has a different recommended concentration, use caution when calculating the volume to be administered. The recommended starting dose of bortezomib for injection is 1.3 mg/mL intravenously at a concentration of 1 mg/mL, or subcutaneously at a concentration of 2 mg/mL (See Dosage and Administration (2.10)).

2.2 Dosage in Previously Untreated Multiple Myeloma
Bortezomib for injection treatment may be considered for patients with multiple myeloma who had previously responded to treatment with bortezomib for injection and who have relapsed at least six months after completing prior bortezomib for injection treatment. Treatment may be started at the last tolerated dose (See Dosage and Administration (2.6)). When administered intravenously, administer bortezomib for injection as a 3 to 5 second bolus intravenous injection.

2.3 Dosage in Previously Untreated Mantle Cell Lymphoma
Bortezomib for injection treatment may be considered for patients with mantle cell lymphoma and oral prednisone for 9, six week treatment cycles as shown in Table 1. In Cycles 1 to 4, bortezomib for injection is administered twice weekly (Days 1, 4, 8, 11, 22, 25, 29, and 32). In Cycles 5 to 8, bortezomib for injection is administered once weekly (Days 1, 8, 22 and 29). At least 72 hours should elapse between consecutive doses of bortezomib for injection.

2.4 Dosage in Previously Untreated Multiple Myeloma and Relapsed Mantle Cell Lymphoma

Week	1	2	3	4	5	6	7	8	9			
Bortezomib for Injection (1.3 mg/mL)	Day 1	--	--	Day 4	Day 8	Day 11	rest period	Day 22	Day 25	Day 29	Day 32	rest period
Melphalan (90 mg/m ²) Prednisone (100 mg/m ²)	Day 1	Day 2	Day 3	Day 4	--	--	rest period	--	--	--	--	rest period

2.5 Dosage in Previously Untreated Mantle Cell Lymphoma

Week	1	2	3	4	5	6	7	8	9		
Bortezomib for Injection (1.3 mg/mL)	Day 1	--	--	Day 4	Day 8	Day 11	rest period	Day 22	Day 25	Day 29	rest period
Melphalan (90 mg/m ²) Prednisone (100 mg/m ²)	Day 1	Day 2	Day 3	Day 4	--	--	rest period	--	--	--	rest period

2.6 Dosage and Dose Modifications for Relapsed Multiple Myeloma and Relapsed Mantle Cell Lymphoma
Bortezomib for injection treatment may be considered for patients with multiple myeloma who had previously responded to treatment with bortezomib for injection and who have relapsed at least six months after completing prior bortezomib for injection treatment. Treatment may be started at the last tolerated dose (See Dosage and Administration (2.6)).

2.7 Dose Modifications for Peripheral Neuropathy

Patients with peripheral neuropathy should be treated with bortezomib for injection only after careful risk-benefit assessment. If the degree of peripheral neuropathy is Grade 2 or higher, consider a dose reduction of bortezomib for injection by 50% (See Dosage and Administration (2.10)).

2.8 Dosage in Patients with Hepatic Impairment
Patients with hepatic impairment may require dose monitoring and blood glucose and adjustment of antidiabetic medication (8.8).

2.9 Administration Precautions

Use caution when calculating the volume to be administered. The recommended starting dose of bortezomib for injection is 1.3 mg/mL intravenously at a concentration of 1 mg/mL, or subcutaneously at a concentration of 2 mg/mL (See Dosage and Administration (2.10)).

2.10 Retreatment/Preparation for Intravenous and Subcutaneous Injection

For intravenous injection, use the appropriate vial concentration and volume to administer the recommended dose of bortezomib for injection. For subcutaneous injection, use the appropriate vial concentration and volume to administer the recommended dose of bortezomib for injection.

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2.4 Dosage in Patients with Hepatic Impairment

Start patients with moderate or severe hepatic impairment at a reduced dose of 0.7 mg/mL per injection during the first cycle, and consider subsequent dose escalation to 1 mg/mL or further dose reduction to 0.5 mg/mL based on patient tolerance (See Table 6) (See Use in Specific Populations (8.7), Clinical Pharmacology (12.3)).

Table 6 Recommended Starting Dose Modification for Bortezomib for Injection in Patients with Hepatic Impairment

Bilirubin Level	SGOT (AST)		Modification of Starting Dose
	Less than or equal to 1x ULN	More than ULN	
Mild	Less than 1x to 1.5x ULN	Any	None
More than 1.5x to 3x ULN	Any	Any	Reduce bortezomib for injection to 0.7 mg/mL in the first cycle. Consider dose escalation to 1 mg/mL or further dose reduction to 0.5 mg/mL in subsequent cycles based on patient tolerability.
Moderate	More than 3x to 10x ULN	Any	Reduce bortezomib for injection to 0.7 mg/mL in the first cycle. Consider dose escalation to 1 mg/mL or further dose reduction to 0.5 mg/mL in subsequent cycles based on patient tolerability.
Severe	More than 10x ULN	Any	Reduce bortezomib for injection to 0.7 mg/mL in the first cycle. Consider dose escalation to 1 mg/mL or further dose reduction to 0.5 mg/mL in subsequent cycles based on patient tolerability.

2.5 Administration Precautions

The drug quantity contained in one vial (3.5 mg) may exceed the usual dose required. Caution should be used in calculating the dose to prevent overdose (See Dosage and Administration (2.10)).

When administered subcutaneously, sites for each injection (thigh or abdomen) should be rotated. New injections should be given at least one inch from an old site and never into areas where the site is tender, bruised, erythematous, or indurated.

2.10 Retreatment/Preparation for Intravenous and Subcutaneous Injection
Bortezomib for injection treatment may be considered for patients with multiple myeloma who had previously responded to treatment with bortezomib for injection and who have relapsed at least six months after completing prior bortezomib for injection treatment. Treatment may be started at the last tolerated dose (See Dosage and Administration (2.6)).

Table 7: Reconstitution Volumes and Final Concentration for Intravenous and Subcutaneous Injection

Route of Administration	Bortezomib (mg/mL)	Diluent (0.9% Sodium Chloride) (mL)	Final Bortezomib Concentration (mg/mL)
Intravenous	3.5 mg	3.5 mL	1 mg/mL
Subcutaneous	3.5 mg	1.4 mL	2.5 mg/mL

Dose must be individualized to prevent overdose. After determining patient body surface area (BSA) in square meters, use the following equations to calculate the total volume (mL) of reconstituted bortezomib for injection to be administered:

- **Intravenous Administration (1 mg/mL concentration)**
Bortezomib for injection dose (mg) = patient BSA (m²) × Total bortezomib for injection volume (mL) to be administered ÷ 3.5 mg/mL
- **Subcutaneous Administration (2.5 mg/mL concentration)**
Bortezomib for injection dose (mg) = patient BSA (m²) × Total bortezomib for injection volume (mL) to be administered ÷ 2.5 mg/mL

Stickers that indicate the route of administration are provided with each bortezomib for injection vial. These stickers should be placed directly on the syringe of bortezomib for injection to be used. The instructions for use should be read and followed carefully. The instructions for use should be read and followed carefully. The instructions for use should be read and followed carefully. The instructions for use should be read and followed carefully.

Unopened vials of bortezomib for injection are stable until the date indicated on the package when stored in the original package protected from light. Bortezomib for injection contains an antimicrobial preservative. Administer reconstituted bortezomib for injection within eight hours of preparation. When reconstituted as directed, bortezomib for injection may be stored at room temperature (20° to 25°C) or refrigerated (2°C to 8°C). Bortezomib for injection should be stored in the original vial and/or the syringe prior to administration. The product may be stored for up to eight hours in a syringe; however, total storage time for the reconstituted material must not exceed eight hours when stored in a syringe.

3. DOSAGE FORMS AND STRENGTHS
For injection: Each single-dose vial of bortezomib for injection contains 3.5 mg of bortezomib as a sterile lyophilized white to off-white cake or powder for reconstitution and withdrawal of the appropriate individual patient dose (See Dosage and Administration (2.10)).

4 CONTRAINDICATIONS

Bortezomib for injection is contraindicated in patients with hypersensitivity (not including local reactions) to bortezomib, boron, or mannitol. Reactions have included anaphylactic reactions (See Adverse Reactions (6.1)).

Bortezomib for injection is contraindicated for intrathecal administration. Fatal events have occurred with intrathecal administration of bortezomib for injection.

5 WARNINGS AND PRECAUTIONS

5.1 Peripheral Neuropathy
Administration of bortezomib for injection causes a peripheral neuropathy that is predominantly sensory; however, cases of sensory and motor peripheral neuropathy have been reported. Patients with pre-existing symptoms (numbness, pain or burning feeling in the feet or hands) and/or signs of peripheral neuropathy may experience worsening peripheral neuropathy (including Grade 3) during treatment with bortezomib for injection. Patients should be monitored for symptoms of neuropathy such as burning sensation, hyperesthesia, hypoesthesia, paresthesia, dysesthesia, numbness, tingling, or weakness of the hands or feet. In the Phase 3 relapsed multiple myeloma trial comparing bortezomib subcutaneous vs intravenous, the incidence of Grade 2 or higher peripheral neuropathy was 24% for subcutaneous and 30% for intravenous. Grade 3 peripheral neuropathy occurred in 6% of patients in the subcutaneous treatment group, compared with 15% in the intravenous treatment group (See Adverse Reactions (6.1)). Starting bortezomib for injection subcutaneously may be considered for patients with pre-existing or at high risk of peripheral neuropathy.

Patients experiencing new or worsening peripheral neuropathy during bortezomib for injection therapy may require a decrease in the dose and/or a less dose-intensive schedule (See Dosage and Administration (2.7)). In the bortezomib for injection Phase 3 relapsed multiple myeloma study, improvement in or resolution of peripheral neuropathy was reported in 40% of patients with Grade 2 peripheral neuropathy following dose adjustment or interruption. Improvement in or resolution of peripheral neuropathy was reported in 73% of patients who discontinued due to Grade 2 peripheral neuropathy or who had Grade 3 peripheral neuropathy in the Phase 2 multiple myeloma studies. The long-term outcome of peripheral neuropathy has not been studied in mantle cell lymphoma patients.

5.2 Hypotension
The incidence of hypotension (postural, orthostatic, and hypotension NOS) was 8% (See Adverse Reactions (6.1)). These events are observed throughout therapy. Patients with a history of hypotension, patients receiving medications likely to be associated with hypotension, and patients who are dehydrated may be at increased risk of hypotension. Management of orthostatic hypotension may include adjustment of antihypertensive medications, hydration, and administration of intravenous fluids and/or sympathomimetics.

5.3 Cardiac Toxicity
Acute development or exacerbation of congestive heart failure and new onset of decreased left ventricular ejection fraction have occurred during bortezomib for injection, including reports in patients with no risk factors for decreased left ventricular ejection fraction (See Adverse Reactions (6.1)). Patients with risk factors for or existing heart disease should be monitored closely. In the bortezomib for injection Phase 3 relapsed multiple myeloma study, the incidence of a treatment-related cardiac disorder was 6% and 5% in the bortezomib and dexamethasone groups, respectively. The incidence of adverse reactions suggestive of heart failure (acute pulmonary edema, pulmonary edema, cardiac failure, congestive cardiac failure, cardiogenic shock) was 0% in the bortezomib group. In the dexamethasone group, the incidence was 41% for cardiac failure and congestive cardiac failure, there were no reported reactions of acute pulmonary edema, pulmonary edema, or cardiogenic shock. There have been isolated cases of QT interval prolongation in clinical studies; causality has not been established.

5.4 Pulmonary Toxicity
Acute Respiratory Distress Syndrome (ARDS) and acute diffuse alveolar pulmonary disease of unknown etiology such as pneumonitis, interstitial pneumonia, lung infiltration have been reported in patients receiving bortezomib for injection. In the Phase 3 relapsed multiple myeloma study, the incidence of a treatment-related pulmonary disorder was 8% and 5% in the bortezomib and dexamethasone groups, respectively. In a retrospective study, the incidence of a treatment-related cardiac disorder was 6% and 5% in the bortezomib and dexamethasone groups, respectively. In a retrospective study, the incidence of a treatment-related cardiac disorder was 6% and 5% in the bortezomib and dexamethasone groups, respectively. The incidence of adverse reactions suggestive of heart failure (acute pulmonary edema, pulmonary edema, cardiac failure, congestive cardiac failure, cardiogenic shock) was 0% in the bortezomib group. In the dexamethasone group, the incidence was 41% for cardiac failure and congestive cardiac failure, there were no reported reactions of acute pulmonary edema, pulmonary edema, or cardiogenic shock. There have been isolated cases of QT interval prolongation in clinical studies; causality has not been established.

5.5 Posterior Reversible Encephalopathy Syndrome (PRES)
Posterior Reversible Encephalopathy Syndrome (PRES), formerly termed Reversible Posterior Leukoencephalopathy Syndrome (RPLS) has occurred in patients receiving bortezomib for injection. PRES is a rare, reversible, non-infectious encephalopathy associated with hypertension, hemodynamic instability, and/or hypotension. Symptoms of PRES include visual disturbances, brain imaging, preferably MRI (Magnetic Resonance Imaging), is used to confirm the diagnosis. In patients developing PRES, discontinue bortezomib for injection. The safety of restarting bortezomib for injection therapy in patients previously experiencing PRES is not known.

6.1 Adverse Reactions in the Relapsed Multiple Myeloma Study

Bortezomib for injection treatment may be considered for patients with multiple myeloma who had previously responded to treatment with bortezomib for injection and who have relapsed at least six months after completing prior bortezomib for injection treatment. Treatment may be started at the last tolerated dose (See Dosage and Administration (2.6)).

Table 8: Most Commonly Reported Adverse Reactions (≥20% in the Bortezomib, Melphalan and Prednisone Arm) with Grades 3 and 4 Intensity in the Previously Untreated Multiple Myeloma Study

Body System	Bortezomib, Melphalan and Prednisone (n=331)		Melphalan and Prednisone (n=337)	
	Total (n, %)	Toxicity Grade 3 or 4 (n, %)	Total (n, %)	Toxicity Grade 3 or 4 (n, %)
Blood and Lymphatic System Disorders				
Thrombocytopenia	154 (46)	60 (18)	140 (42)	48 (14)
Neutropenia	160 (47)	101 (30)	143 (42)	77 (23)
Anemia	100 (32)	41 (12)	110 (34)	18 (5)
Leukopenia	100 (32)	41 (12)	97 (29)	38 (11)
Lymphopenia	78 (23)	64 (19)	51 (15)	26 (8)
Gastrointestinal Disorders				
Nausea	134 (39)	10 (3)	70 (21)	1 (1)
Diarrhea	119 (35)	19 (6)	20 (6)	1 (1)
Vomiting	87 (26)	13 (4)	41 (12)	2 (1)
Constipation	77 (23)	2 (1)	14 (4)	0
Abdominal upper	34 (10)	1 (1)	0	0
Nervous System Disorders				
Peripheral neuropathy*	156 (46)	42 (12)	2 (1)	0
Neuralgia	117 (34)	27 (8)	2 (1)	1 (1)
Paresthesia	42 (12)	6 (2)	0	1 (1)
General Disorders and Administration Site Conditions				
Fatigue	85 (25)	19 (6)	48 (14)	4 (1)
Anorexia	54 (16)	1 (1)	0	0
Pyrexia	53 (16)	4 (1)	19 (6)	1 (1)
Infections and Infestations				
Herpes Zoster	39 (11)	6 (2)	0	4 (1)
Metabolism and Nutrition Disorders				
Hypokalemia	64 (19)	11 (3)	0	0
Skin and Subcutaneous Tissue Disorders				
Rash	38 (11)	2 (1)	0	0
Psychiatric Disorders				
Insomnia	35 (10)	1 (1)	0	0

* Peripheral Neuropathy: Manage with dose modification or discontinuation (2.7). Patients with peripheral neuropathy should be treated with bortezomib for injection only after careful risk-benefit assessment. If the degree of peripheral neuropathy is Grade 2 or higher, consider a dose reduction of bortezomib for injection by 50% (See Dosage and Administration (2.10)).

6.2 Postmarketing Experience
In the combination study with rituximab, cyclophosphamide, doxorubicin and prednisone (VR-CAP) or previously untreated mantle cell lymphoma patients, the incidence of thrombocytopenia (Grade 3) was 17% in the VR-CAP arm (four patients) and was 12% in the R-CHOP arm (three patients). The incidence of bleeding events (Grade 3) was 1% in the VR-CAP arm and 1% in the R-CHOP arm.

Platelet transfusions were given to 23% of the patients in the VR-CAP arm and 33% of the patients in the R-CHOP arm. The incidence of febrile neutropenia (Grade 4) was 5% in the VR-CAP arm and 8% in the R-CHOP arm. Myeloid growth factor support was provided at a rate of 78% in the VR-CAP arm and 61% in the R-CHOP arm.

5.8 Thrombotic Microangiopathy
Cases, sometimes fatal, of thrombotic microangiopathy, including thrombotic thrombocytopenic purpura/hemolytic uremic syndrome (TTP/HUS), have been reported in the postmarketing setting in patients who received bortezomib for injection. Monitor for signs and symptoms of TTP/HUS. If the diagnosis is suspected, stop bortezomib for injection and evaluate. If the diagnosis of TTP/HUS is excluded, consider restarting bortezomib for injection therapy. The safety of restarting bortezomib for injection therapy in patients previously experiencing TTP/HUS is not known.

5.11 Embryo-Fetal Toxicity
Based on the mechanism of action and findings in animals, bortezomib can cause fetal harm when administered to a pregnant woman. Bortezomib administered to rabbits during treatment dose to adverse reactions. Among the 331 bortezomib-treated patients, the most commonly reported adverse reaction leading to discontinuation was peripheral neuropathy (8%).

5.12 Hypotension
The incidence of hypotension (postural, orthostatic, and hypotension NOS) was 8% (See Adverse Reactions (6.1)). These events are observed throughout therapy. Patients with a history of hypotension, patients receiving medications likely to be associated with hypotension, and patients who are dehydrated may be at increased risk of hypotension. Management of orthostatic hypotension may include adjustment of antihypertensive medications, hydration, and administration of intravenous fluids and/or sympathomimetics.

5.13 Cardiac Toxicity
Acute development or exacerbation of congestive heart failure and new onset of decreased left ventricular ejection fraction have occurred during bortezomib for injection, including reports in patients with no risk factors for decreased left ventricular ejection fraction (See Adverse Reactions (6.1)). Patients with risk factors for or existing heart disease should be monitored closely. In the bortezomib for injection Phase 3 relapsed multiple myeloma study, the incidence of a treatment-related cardiac disorder was 6% and 5% in the bortezomib and dexamethasone groups, respectively. In a retrospective study, the incidence of a treatment-related cardiac disorder was 6% and 5% in the bortezomib and dexamethasone groups, respectively. The incidence of adverse reactions suggestive of heart failure (acute pulmonary edema, pulmonary edema, cardiac failure, congestive cardiac failure, cardiogenic shock) was 0% in the bortezomib group. In the dexamethasone group, the incidence was 41% for cardiac failure and congestive cardiac failure, there were no reported reactions of acute pulmonary edema, pulmonary edema, or cardiogenic shock. There have been isolated cases of QT interval prolongation in clinical studies; causality has not been established.

5.14 Pulmonary Toxicity
Acute Respiratory Distress Syndrome (ARDS) and acute diffuse alveolar pulmonary disease of unknown etiology such as pneumonitis, interstitial pneumonia, lung infiltration have been reported in patients receiving bortezomib for injection. In the Phase 3 relapsed multiple myeloma study, the incidence of a treatment-related pulmonary disorder was 8% and 5% in the bortezomib and dexamethasone groups, respectively. In a retrospective study, the incidence of a treatment-related cardiac disorder was 6% and 5% in the bortezomib and dexamethasone groups, respectively. In a retrospective study, the incidence of a treatment-related cardiac disorder was 6% and 5% in the bortezomib and dexamethasone groups, respectively. The incidence of adverse reactions suggestive of heart failure (acute pulmonary edema, pulmonary edema, cardiac failure, congestive cardiac failure, cardiogenic shock) was 0% in the bortezomib group. In the dexamethasone group, the incidence was 41% for cardiac failure and congestive cardiac failure, there were no reported reactions of acute pulmonary edema, pulmonary edema, or cardiogenic shock. There have been isolated cases of QT interval prolongation in clinical studies; causality has not been established.

5.15 Posterior Reversible Encephalopathy Syndrome (PRES)</

