#### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

## $\textbf{TREANDA}^{\circledast}$ (bendamustine hydrochloride) Injection, for intravenous infusion

#### Initial U.S. Approval: 2008

RECENT MAJOR CHANGES	
Dosage and Administration,	
Preparation for Intravenous Administration (2.3)	XX/2013
Dosage and Administration, Admixture Stability (2.4)	XX/2013

-----INDICATIONS AND USAGE------

- TREANDA is an alkylating drug indicated for treatment of patients with:
  Chronic lymphocytic leukemia (CLL). Efficacy relative to first line therapies other than chlorambucil has not been established. (1.1)
- Indolent B-cell non-Hodgkin lymphoma (NHL) that has progressed during or within six months of treatment with rituximab or a rituximab-containing regimen. (1.2)
- -----DOSAGE AND ADMINISTRATION-----For CLL:
- 100 mg/m<sup>2</sup> infused intravenously over 30 minutes on Days 1 and 2 of a 28day cycle, up to 6 cycles (2.1)
- Dose modifications for hematologic toxicity: for Grade 3 or greater toxicity, reduce dose to 50 mg/m<sup>2</sup> on Days 1 and 2; if Grade 3 or greater toxicity recurs, reduce dose to 25 mg/m<sup>2</sup> on Days 1 and 2. (2.1)
- Dose modifications for non-hematologic toxicity: for clinically significant Grade 3 or greater toxicity, reduce the dose to 50 mg/m<sup>2</sup> on Days 1 and 2 of each cycle. (2.1)
- Dose re-escalation may be considered. (2.1)

#### For NHL:

- 120 mg/m<sup>2</sup> infused intravenously over 60 minutes on Days 1 and 2 of a 21day cycle, up to 8 cycles (2.2)
- Dose modifications for hematologic toxicity: for Grade 4 toxicity, reduce the dose to 90 mg/m<sup>2</sup> on Days 1 and 2 of each cycle; if Grade 4 toxicity recurs, reduce the dose to 60 mg/m<sup>2</sup> on Days 1 and 2 of each cycle. (2.2)
- Dose modifications for non-hematologic toxicity: for Grade 3 or greater toxicity, reduce the dose to 90 mg/m<sup>2</sup> on Days 1 and 2 of each cycle; if Grade 3 or greater toxicity recurs, reduce the dose to 60 mg/m<sup>2</sup> on Days 1 and 2 of each cycle. (2.2)

General Dosing Considerations:

- Delay treatment for Grade 4 hematologic toxicity or clinically significant ≥ Grade 2 non-hematologic toxicity. (2.1, 2.2)
- TREANDA must be diluted prior to infusion. (2.3)
- -----DOSAGE FORMS AND STRENGTHS-------Injection: 45 mg/0.5 mL or 180 mg/2 mL in a single-use vial. (3) ------CONTRAINDICATIONS-------

TREANDA is contraindicated in patients with a history of a hypersensitivity reaction to bendamustine. Reactions have included anaphylaxis and anaphylactoid reactions. (5.3)

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#### -----WARNINGS AND PRECAUTIONS------

- Myelosuppression: Delay or reduce dose. Restart treatment based on ANC and platelet count recovery. (2.1) Complications of myelosuppression may lead to death. (5.1)
- Infections: Monitor for fever and other signs of infection and treat promptly. (5.2)
- Anaphylaxis and Infusion Reactions: Severe and anaphylactic reactions have occurred; monitor clinically and discontinue TREANDA. Premedicate in subsequent cycles for milder reactions. (5.3)
- Tumor Lysis Syndrome: Acute renal failure and death; anticipate and use supportive measures. (5.4)
- Skin Reactions: Discontinue for severe skin reactions. Cases of SJS and TEN, some fatal, have been reported when TREANDA was administered concomitantly with allopurinol and other medications known to cause these syndromes. (5.5)
- Other Malignancies: Pre-malignant and malignant diseases have been reported. (5.6)
- Extravasation: Assure good venous access and monitor infusion site during and after administration. (5.7)
- Embryo-fetal toxicity: Fetal harm can occur when administered to a pregnant woman. Women should be advised to avoid becoming pregnant when receiving TREANDA. (5.8, 8.1)
- ADVERSE REACTIONS Most common non-hematologic adverse reactions for CLL (frequency ≥15%) are pyrexia, nausea, and vomiting. (6.1)
- Most common non-hematologic adverse reactions for NHL (frequency ≥15%) are nausea, fatigue, vomiting, diarrhea, pyrexia, constipation, anorexia, cough, headache, weight decreased, dyspnea, rash, and stomatitis. (6.2)
- Most common hematologic abnormalities for both indications (frequency ≥15%) are lymphopenia, anemia, leukopenia, thrombocytopenia, and neutropenia. (6.1, 6.2)

#### To report SUSPECTED ADVERSE REACTIONS, contact Teva Pharmaceuticals at 1-800-896-5855 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

#### -----DRUG INTERACTIONS------

Concomitant CYP1A2 inducers or inhibitors have the potential to affect the exposure of bendamustine. (7)

------USE IN SPECIFIC POPULATIONS------

- Renal impairment: Do not use if CrCL is <40 mL/min. Use with caution in lesser degrees of renal impairment. (8.6)
- Hepatic impairment: Do not use in moderate or severe hepatic impairment. Use with caution in mild hepatic impairment. (8.7)

#### See 17 for PATIENT COUNSELING INFORMATION

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#### FULL PRESCRIBING INFORMATION

#### 1 INDICATIONS AND USAGE

#### 1.1 Chronic Lymphocytic Leukemia (CLL)

TREANDA<sup>®</sup> is indicated for the treatment of patients with chronic lymphocytic leukemia. Efficacy relative to first line therapies other than chlorambucil has not been established.

#### 1.2 Non-Hodgkin Lymphoma (NHL)

TREANDA is indicated for the treatment of patients with indolent B-cell non-Hodgkin lymphoma that has progressed during or within six months of treatment with rituximab or a rituximab-containing regimen.

#### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Dosing Instructions for CLL

#### Recommended Dosage:

The recommended dose is 100 mg/m<sup>2</sup> administered intravenously over 30 minutes on Days 1 and 2 of a 28-day cycle, up to 6 cycles.

#### Dose Delays, Dose Modifications and Reinitiation of Therapy for CLL:

TREANDA administration should be delayed in the event of Grade 4 hematologic toxicity or clinically significant  $\geq$  Grade 2 non-hematologic toxicity. Once non-hematologic toxicity has recovered to  $\leq$  Grade 1 and/or the blood counts have improved [Absolute Neutrophil Count (ANC)  $\geq$  1 x 10<sup>9</sup>/L, platelets  $\geq$  75 x 10<sup>9</sup>/L], TREANDA can be reinitiated at the discretion of the treating physician. In addition, dose reduction may be warranted. [See Warnings and Precautions (5.1)]

Dose modifications for hematologic toxicity: for Grade 3 or greater toxicity, reduce the dose to 50 mg/m<sup>2</sup> on Days 1 and 2 of each cycle; if Grade 3 or greater toxicity recurs, reduce the dose to 25 mg/m<sup>2</sup> on Days 1 and 2 of each cycle.

Dose modifications for non-hematologic toxicity: for clinically significant Grade 3 or greater toxicity, reduce the dose to  $50 \text{ mg/m}^2$  on Days 1 and 2 of each cycle.

Dose re-escalation in subsequent cycles may be considered at the discretion of the treating physician.

#### 2.2 Dosing Instructions for NHL

#### Recommended Dosage:

The recommended dose is 120 mg/m<sup>2</sup> administered intravenously over 60 minutes on Days 1 and 2 of a 21-day cycle, up to 8 cycles.

#### Dose Delays, Dose Modifications and Reinitiation of Therapy for NHL:

TREANDA administration should be delayed in the event of a Grade 4 hematologic toxicity or clinically significant  $\geq$  Grade 2 non-hematologic toxicity. Once non-hematologic toxicity has recovered to  $\leq$  Grade 1 and/or the blood counts have improved [Absolute Neutrophil Count (ANC)  $\geq$  1 x 10<sup>9</sup>/L, platelets  $\geq$  75 x 10<sup>9</sup>/L], TREANDA can be reinitiated at the discretion of the treating physician. In addition, dose reduction may be warranted. [See Warnings and Precautions (5.1)]

Dose modifications for hematologic toxicity: for Grade 4 toxicity, reduce the dose to 90 mg/m<sup>2</sup> on Days 1 and 2 of each cycle; if Grade 4 toxicity recurs, reduce the dose to 60 mg/m<sup>2</sup> on Days 1 and 2 of each cycle.

Dose modifications for non-hematologic toxicity: for Grade 3 or greater toxicity, reduce the dose to 90 mg/m<sup>2</sup> on Days 1 and 2 of each cycle; if Grade 3 or greater toxicity recurs, reduce the dose to 60 mg/m<sup>2</sup> on Days 1 and 2 of each cycle.

#### 2.3 Preparation for Intravenous Administration

Each vial of TREANDA Injection is intended for single use only. Aseptically withdraw the volume needed for the required dose from the 90 mg/mL solution TREANDA Injection vial.

Immediately transfer the solution to a 500 mL infusion bag of 0.9% Sodium Chloride Injection, USP (normal saline). As an alternative to 0.9% Sodium Chloride Injection, USP (normal saline), a 500 mL infusion bag of 2.5% Dextrose/0.45% Sodium Chloride Injection, USP, may be considered. The resulting final concentration of bendamustine HCl in the infusion bag should be within 0.2 - 0.7 mg/mL. The admixture should be a clear colorless to yellow solution.

Use either 0.9% Sodium Chloride Injection, USP, or 2.5% Dextrose/0.45% Sodium Chloride Injection, USP, for dilution, as outlined above. No other diluents have been shown to be compatible.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit. Any unused solution should be discarded according to institutional procedures for antineoplastics.

#### 2.4 Admixture Stability

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TREANDA Injection contains no antimicrobial preservative. The admixture should be prepared as close as possible to the time of patient administration.

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Once diluted with either 0.9% Sodium Chloride Injection, USP, or 2.5% Dextrose/0.45% Sodium Chloride Injection, USP, the final admixture is stable for 24 hours when stored under refrigerated conditions at  $2^{\circ}$ -8°C ( $36^{\circ}$ - $46^{\circ}F$ ) or for 2 hours when stored at room temperature  $15^{\circ}$ - $30^{\circ}C$  ( $59^{\circ}$ - $86^{\circ}F$ ) and room light. Administration of TREANDA must be completed within this period.

#### **3 DOSAGE FORMS AND STRENGTHS**

TREANDA Injection is supplied in single-use vials containing either 45 mg/0.5 mL or 180 mg/2 mL of bendamustine HCl.

#### 4 CONTRAINDICATIONS

TREANDA is contraindicated in patients with a known hypersensitivity (e.g., anaphylactic and anaphylactoid reactions) to bendamustine. [See Warnings and Precautions (5.3)]

#### 5 WARNINGS AND PRECAUTIONS

#### 5.1 Myelosuppression

TREANDA caused severe myelosuppression (Grade 3-4) in 98% of patients in the two NHL studies (see Table 4). Three patients (2%) died from myelosuppression-related adverse reactions; one each from neutropenic sepsis, diffuse alveolar hemorrhage with Grade 3 thrombocytopenia, and pneumonia from an opportunistic infection (CMV).

In the event of treatment-related myelosuppression, monitor leukocytes, platelets, hemoglobin (Hgb), and neutrophils frequently. In the clinical trials, blood counts were monitored every week initially. Hematologic nadirs were observed predominantly in the third week of therapy. Myelosuppression may require dose delays and/or subsequent dose reductions if recovery to the recommended values has not occurred by the first day of the next scheduled cycle. Prior to the initiation of the next cycle of therapy, the ANC should be  $\geq 1 \times 10^{9}$ /L and the platelet count should be  $\geq 75 \times 10^{9}$ /L. [See Dosage and Administration (2.1) and (2.2)]

#### 5.2 Infections

Infection, including pneumonia, sepsis, septic shock, and death have occurred in adult and pediatric patients in clinical trials and in postmarketing reports. Patients with myelosuppression following treatment with TREANDA are more susceptible to infections. Advise patients with myelosuppression following TREANDA treatment to contact a physician if they have symptoms or signs of infection.

#### 5.3 Anaphylaxis and Infusion Reactions

Infusion reactions to TREANDA have occurred commonly in clinical trials. Symptoms include fever, chills, pruritus and rash. In rare instances severe anaphylactic and anaphylactoid reactions have occurred, particularly in the second and subsequent cycles of therapy. Monitor clinically and discontinue drug for severe reactions. Ask patients about symptoms suggestive of infusion reactions after their first cycle of therapy. Patients who experience Grade 3 or worse allergic-type reactions should not be rechallenged. Consider measures to prevent severe reactions, including antihistamines, antipyretics and corticosteroids in subsequent cycles in patients who have experienced Grade 1 or 2 infusion reactions. Discontinue TREANDA for patients with Grade 4 infusion reactions. Consider discontinuation for Grade 3 infusions reactions as clinically appropriate considering individual benefits, risks, and supportive care.

#### 5.4 Tumor Lysis Syndrome

Tumor lysis syndrome associated with TREANDA treatment has occurred in patients in clinical trials and in postmarketing reports. The onset tends to be within the first treatment cycle of TREANDA and, without intervention, may lead to acute renal failure and death. Preventive measures include vigorous hydration and close monitoring of blood chemistry, particularly potassium and uric acid levels. Allopurinol has also been used during the beginning of TREANDA therapy. However, there may be an increased risk of severe skin toxicity when TREANDA and allopurinol are administered concomitantly [see Warnings and Precautions (5.5)].

#### 5.5 Skin Reactions

Skin reactions have been reported with TREANDA treatment in clinical trials and postmarketing safety reports, including rash, toxic skin reactions and bullous exanthema. Some events occurred when TREANDA was given in combination with other anticancer agents.

In a study of TREANDA (90 mg/m<sup>2</sup>) in combination with rituximab, one case of toxic epidermal necrolysis (TEN) occurred. TEN has been reported for rituximab (see rituximab package insert). Cases of Stevens-Johnson syndrome (SJS) and TEN, some fatal, have been reported when TREANDA was administered concomitantly with allopurinol and other medications known to cause these syndromes. The relationship to TREANDA cannot be determined.

Where skin reactions occur, they may be progressive and increase in severity with further treatment. Monitor patients with skin reactions closely. If skin reactions are severe or progressive, withhold or discontinue TREANDA.

#### 5.6 Other Malignancies

There are reports of pre-malignant and malignant diseases that have developed in patients who have been treated with TREANDA, including myelodysplastic syndrome, myeloproliferative disorders, acute myeloid leukemia and bronchial carcinoma. The association with TREANDA therapy has not been determined.

#### 5.7 Extravasation Injury

TREANDA extravasations have been reported in post marketing resulting in hospitalizations from erythema, marked swelling, and pain. Assure good venous access prior to starting TREANDA infusion and monitor the intravenous infusion site for redness, swelling, pain, infection, and necrosis during and after administration of TREANDA.

#### 5.8 Embryo-fetal Toxicity

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TREANDA can cause fetal harm when administered to a pregnant woman. Single intraperitoneal doses of bendamustine in mice and rats administered during organogenesis caused an increase in resorptions, skeletal and visceral malformations, and decreased fetal body weights. [See Use in Specific Populations (8.1)]

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#### 6 ADVERSE REACTIONS

The following serious adverse reactions have been associated with TREANDA in clinical trials and are discussed in greater detail in other sections of the label.

- Myelosuppression [See Warnings and Precautions (5.1)]
- Infections [See Warnings and Precautions (5.2)]
- Anaphylaxis and Infusion Reactions [See Warnings and Precautions (5.3)]
- Tumor Lysis Syndrome [See Warnings and Precautions (5.4)]
- Skin Reactions [See Warnings and Precautions (5.5)]
- Other Malignancies [See Warnings and Precautions (5.6)]
- Extravasation injury [See Warnings and Precautions (5.7)]

The data described below reflect exposure to TREANDA in 329 patients who participated in an actively-controlled trial (N=153) for the treatment of CLL and two single-arm trials (N=176) for the treatment of indolent B-cell NHL. Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

#### 6.1 Clinical Trials Experience in CLL

The data described below reflect exposure to TREANDA in 153 patients with CLL studied in an active-controlled, randomized trial. The population was 45-77 years of age, 63% male, 100% white, and were treatment naïve. All patients started the study at a dose of 100 mg/m<sup>2</sup> intravenously over 30 minutes on Days 1 and 2 every 28 days.

Adverse reactions were reported according to NCI CTC v.2.0. Non-hematologic adverse reactions (any grade) in the TREANDA group that occurred with a frequency greater than 15% were pyrexia (24%), nausea (20%), and vomiting (16%).

Other adverse reactions seen frequently in one or more studies included asthenia, fatigue, malaise, and weakness; dry mouth; somnolence; cough; constipation; headache; mucosal inflammation and stomatitis.

Worsening hypertension was reported in 4 patients treated with TREANDA in the CLL trial and in none treated with chlorambucil. Three of these 4 adverse reactions were described as a hypertensive crisis and were managed with oral medications and resolved.

The most frequent adverse reactions leading to study withdrawal for patients receiving TREANDA were hypersensitivity (2%) and pyrexia (1%). Table 1 contains the treatment emergent adverse reactions, regardless of attribution, that were reported in  $\geq$  5% of patients in either treatment group in the randomized CLL clinical study.

#### Table 1: Non- Hematologic Adverse Reactions Occurring in Randomized CLL

#### Clinical Study in at Least 5% of Patients

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	Number (%) of patients			
	TREANDA (N=153)		Chlorambucil (N=143)	
System organ class Preferred term	All Grades	Grade 3/4	All Grades	Grade 3/4
Total number of patients with at least 1 adverse reaction	121 (79)	52 (34)	96 (67)	25 (17)
reaction	121 (77)	52 (54)	<b>JU</b> (07)	25 (17)
Gastrointestinal disorders				
Nausea	31 (20)	1 (<1)	21 (15)	1 (<1)
Vomiting	24 (16)	1 (<1)	9 (6)	0
Diarrhea	14 (9)	2 (1)	5 (3)	0
General disorders and				
administration site				
conditions				
Pyrexia	36 (24)	6 (4)	8 (6)	2(1)
Fatigue	14 (9)	2(1)	8 (6)	0
Asthenia	13 (8)	0	6 (4)	0
Chills	9 (6)	0	1 (<1)	0
Immune system disorders				
Hypersensitivity	7 (5)	2 (1)	3 (2)	0
Infections and infestations				
Nasopharyngitis	10(7)	0	12 (8)	0
Infection	9(6)	3(2)	1 (<1)	1 (<1)
Herpes simplex	5 (3)	0	7 (5)	0

Investigations Weight decreased	11 (7)	0	5 (3)	0
Metabolism and nutrition disorders Hyperuricemia	11 (7)	3 (2)	2 (1)	0
Respiratory, thoracic and mediastinal disorders Cough	6 (4)	1 (<1)	7 (5)	1 (<1)
Skin and subcutaneous tissue disorders				
Rash	12 (8)	4 (3)	7 (5)	3 (2)
Pruritus	8 (5)	0	2(1)	0

The Grade 3 and 4 hematology laboratory test values by treatment group in the randomized CLL clinical study are described in Table 2. These findings confirm the myelosuppressive effects seen in patients treated with TREANDA. Red blood cell transfusions were administered to 20% of patients receiving TREANDA compared with 6% of patients receiving chlorambucil.

	TREANDA N=150		Chlorambucil N=141	
Laboratory Abnormality	All Grades	Grade 3/4	All Grades	Grade 3/4
Hemoglobin Decreased	134 (89)	20 (13)	115 (82)	12 (9)
Platelets Decreased	116 (77)	16 (11)	110 (78)	14 (10)
Leukocytes Decreased	92 (61)	42 (28)	26 (18)	4 (3)
Lymphocytes Decreased	102 (68)	70 (47)	27 (19)	6 (4)
Neutrophils Decreased	113 (75)	65 (43)	86 (61)	30 (21)

 Table 2: Incidence of Hematology Laboratory Abnormalities in Patients Who

 Received TREANDA or Chlorambucil in the Randomized CLL Clinical Study

In the CLL trial, 34% of patients had bilirubin elevations, some without associated significant elevations in AST and ALT. Grade 3 or 4 increased bilirubin occurred in 3% of patients. Increases in AST and ALT of Grade 3 or 4 were limited to 1% and 3% of patients, respectively. Patients treated with TREANDA may also have changes in their creatinine levels. If abnormalities are detected, monitoring of these parameters should be continued to ensure that further deterioration does not occur.

#### 6.2 Clinical Trials Experience in NHL

reported in 5% of patients.

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The data described below reflect exposure to TREANDA in 176 patients with indolent B-cell NHL treated in two single-arm studies. The population was 31-84 years of age, 60% male, and 40% female. The race distribution was 89% White, 7% Black, 3% Hispanic, 1% other, and <1% Asian. These patients received TREANDA at a dose of 120 mg/m<sup>2</sup> intravenously on Days 1 and 2 for up to eight 21-day cycles.

The adverse reactions occurring in at least 5% of the NHL patients, regardless of severity, are shown in Table 3. The most common non-hematologic adverse reactions ( $\geq$ 30%) were nausea (75%), fatigue (57%), vomiting (40%), diarrhea (37%) and pyrexia (34%). The most common non-hematologic Grade 3 or 4 adverse reactions ( $\geq$ 5%) were fatigue (11%), febrile neutropenia (6%), and pneumonia, hypokalemia and dehydration, each

Table 3: Non-Hematologic Adverse Reactions Occurring in at Least 5% of NHL Patients Treated with TREANDA by System Organ Class and Preferred Term (N=176)

System organ class	Number (%) of patients*		
Preferred term	All Grades	Grade 3/4	
Total number of patients with at			
least 1 adverse reaction	176 (100)	94 (53)	
Cardiac disorders			
Tachycardia	13 (7)	0	
Gastrointestinal disorders			
Nausea	132 (75)	7 (4)	
Vomiting	71 (40)	5 (3)	
Diarrhea	65 (37)	6 (3)	
Constinution	51 (20)	1 (>1)	

# DOCKET



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