HIGHLIGHTS OF PRESCRIBING INFORMATION

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

BREYANZI® (lisocabtagene maraleucel) suspension for intravenous infusion Initial U.S. Approval: 2021

> WARNING: CYTOKINE RELEASE SYNDROME, NEUROLOGIC TOXICITIES, AND SECONDARY HEMATOLOGICAL MALIGNANCIES

See full prescribing information for complete boxed warning.

- Cytokine Release Syndrome (CRS), including fatal or life-threatening reactions, occurred in patients receiving BREYANZI. Do not administer BREYANZI to patients with active infection or inflammatory disorders. Treat severe or life-threatening CRS with tocilizumab with or without corticosteroids (2.2, 2.3, 5.1).
- Neurologic toxicities, including fatal or life-threatening reactions, occurred in patients receiving BREYANZI, including concurrently with CRS, after CRS resolution, or in the absence of CRS. Monitor for neurologic events after treatment with BREYANZI. Provide supportive care and/or corticosteroids as needed (2.2, 2.3, 5.2).
- T cell malignancies have occurred following treatment of hematologic malignancies with BCMA- and CD19-directed genetically modified autologous T cell immunotherapies, including BREYANZI (5.7).

------ RECENT MAJOR CHANGES ------

Dosage and Administration (2.2, 2.3)	6/2025	
Warnings and Precautions (5.1, 5.2)	6/2025	
Warnings and Precautions, BREYANZI REMS (5.3), Removed	6/2025	
Warnings and Precautions, Effects on Ability to Drive and Use Machines (5.9), Removed	6/2025	
INDICATIONS AND USAGE		

BREYANZI is a CD19-directed genetically modified autologous T cell immunotherapy indicated for the treatment of:

- adult patients with large B-cell lymphoma (LBCL), including diffuse large B-cell lymphoma (DLBCL) not otherwise specified (including DLBCL arising from indolent lymphoma), high-grade B-cell lymphoma, primary mediastinal large B-cell lymphoma, and follicular lymphoma grade 3B, who have:
- refractory disease to first-line chemoimmunotherapy or relapse within 12 months of first-line chemoimmunotherapy (1.1); or
- refractory disease to first-line chemoimmunotherapy or relapse after first-line chemoimmunotherapy and are not eligible for hematopoietic stem cell transplantation (HSCT) due to comorbidities or age (1.1); or
- relapsed or refractory disease after 2 or more lines of systemic therapy (1.1).

Limitations of Use: BREYANZI is not indicated for the treatment of patients with primary central nervous system lymphoma (1, 14).

- adult patients with relapsed or refractory chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL) who have received at least 2 prior lines of therapy, including a Bruton tyrosine kinase (BTK) inhibitor and a B-cell lymphoma 2 (BCL-2) inhibitor. This indication is approved under accelerated approval based on response rate and duration of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s) (1.2).
- adult patients with relapsed or refractory follicular lymphoma (FL) who have received 2 or more prior lines of systemic therapy (1.3). This indication is approved under accelerated approval based on response rate and duration of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s) (1.3).
- adult patients with relapsed or refractory mantle cell lymphoma (MCL) who have received at least 2 prior lines of systemic therapy, including a Bruton tyrosine kinase (BTK) inhibitor (1.4).

----- DOSAGE AND ADMINISTRATION------

For autologous use only. For intravenous use only.

- Do NOT use a leukodepleting filter (2.2).
- Administer a lymphodepleting regimen of fludarabine and cyclophosphamide before infusion of BREYANZI (lisocabtagene maraleucel) (2.2).
- Verify the patient's identity prior to infusion (2.2).
- Premedicate with acetaminophen and an H1 antihistamine (2.2).
- Confirm availability of tocilizumab prior to infusion (2.2, 5.1). .
- Dosing of BREYANZI is based on the number of chimeric antigen receptor (CAR)-positive viable T cells (2.1).

For LBCL:

- after one line of therapy, the dose is 90 to 110 × 10⁶ CAR-positive viable T cells (2.1).
- after two or more lines of therapy, the dose is 50 to 110×10^{6} CAR-positive viable T cells (2.1).

For CLL/SLL, FL and MCL:

• the dose is 90 to 110 × 10⁶ CAR-positive viable T cells (2.1).

--- DOSAGE FORMS AND STRENGTHS -----

- BREYANZI is a cell suspension for infusion (3).
- A single dose of BREYANZI consists of 1:1 CAR-positive viable T cells of the CD8 and CD4 components, with each component supplied separately in one to four single-dose 5 mL vials (3). Each mL contains $\ge 1.5 \times 10^6$ to 70 $\times 10^6$ CAR-positive viable T cells (3).

----- CONTRAINDICATIONS -

None (4).

- ------ WARNINGS AND PRECAUTIONS -------
- Hypersensitivity Reactions: Monitor for hypersensitivity reactions during infusion (5.3).
- Serious Infections: Monitor patients for signs and symptoms of infection; treat appropriately (5.4).
- Prolonged Cytopenias: Patients may exhibit Grade 3 or higher cytopenias for several weeks following BREYANZI infusion. Monitor complete blood counts (5.5).
- Hypogammaglobulinemia: Monitor and consider immunoglobulin replacement therapy (5.6).
- Secondary Malignancies: T cell malignancies have occurred following treatment of hematologic malignancies with BCMA- and CD19-directed genetically modified autologous T cell immunotherapies, including BREYANZI. In the event that a secondary malignancy occurs after treatment with BREYANZI, contact Bristol-Myers Squibb at 1-888-805-4555 (5.7).

---- ADVERSE REACTIONS -

The most common adverse reactions (incidence \geq 30%) in:

- LBCL are fever, cytokine release syndrome, fatigue, musculoskeletal pain, and nausea. The most common Grade 3-4 laboratory abnormalities include lymphocyte count decrease, neutrophil count decrease, platelet count decrease, and hemoglobin decrease (6.1).
- CLL/SLL are cytokine release syndrome, encephalopathy, fatigue, musculoskeletal pain, nausea, edema and diarrhea. The most common Grade 3-4 laboratory abnormalities include neutrophil count decrease, white blood cell decrease, hemoglobin decrease, platelet count decrease, and lymphocyte count decrease (6.1).
- FL are cytokine release syndrome. The most common Grade 3-4 laboratory abnormalities include lymphocyte count decreased, neutrophil count decreased, and white blood cell decreased (6.1).
- MCL are cytokine release syndrome, fatigue, musculoskeletal pain, and encephalopathy. The most common Grade 3-4 laboratory abnormalities include neutrophil count decrease, white blood cell decrease, and platelet count decrease (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Bristol-Myers Squibb at 1-800-721-5072 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

Revised: 6/2025

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WARNING: CYTOKINE RELEASE SYNDROME, NEUROLOGIC TOXICITIES, AND Secondary Hematological Malignancies

- Cytokine Release Syndrome (CRS), including fatal or life-threatening reactions, occurred in patients receiving BREYANZI (lisocabtagene maraleucel). Do not administer BREYANZI to patients with active infection or inflammatory disorders. Treat severe or life-threatening CRS with tocilizumab with or without corticosteroids [see Dosage and Administration (2.2, 2.3) and Warnings and Precautions (5.1)].
- Neurologic toxicities, including fatal or life-threatening reactions, occurred in patients receiving BREYANZI, including concurrently with CRS, after CRS resolution, or in the absence of CRS. Monitor for neurologic events after treatment with BREYANZI. Provide supportive care and/or corticosteroids as needed [see Dosage and Administration (2.2, 2.3) and Warnings and Precautions (5.2)].
- T cell malignancies have occurred following treatment of hematologic malignancies with BCMA- and CD19-directed genetically modified autologous T cell immunotherapies, including BREYANZI [see Warnings and Precautions (5.7)].

1 INDICATIONS AND USAGE

1.1 Large B-cell Lymphoma (LBCL)

BREYANZI is indicated for the treatment of adult patients with large B-cell lymphoma (LBCL), including diffuse large B-cell lymphoma (DLBCL) not otherwise specified (including DLBCL arising from indolent lymphoma), high-grade B-cell lymphoma, primary mediastinal large B-cell lymphoma, and follicular lymphoma grade 3B who have:

- refractory disease to first-line chemoimmunotherapy or relapse within 12 months of first-line chemoimmunotherapy; or
- refractory disease to first-line chemoimmunotherapy or relapse after first-line chemoimmunotherapy and are not eligible for hematopoietic stem cell transplantation (HSCT) due to comorbidities or age; or
- relapsed or refractory disease after 2 or more lines of systemic therapy.

Limitations of Use: BREYANZI is not indicated for the treatment of patients with primary central nervous system (CNS) lymphoma [see Clinical Studies (14.1)].

1.2 Chronic Lymphocytic Leukemia (CLL) or Small Lymphocytic Lymphoma (SLL)

BREYANZI is indicated for the treatment of adult patients with relapsed or refractory chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL) who have received at least 2 prior lines of therapy including, a Bruton tyrosine kinase (BTK) inhibitor and a B-cell lymphoma 2 (BCL-2) inhibitor.

This indication is approved under accelerated approval based on response rate and duration of response [see Clinical Studies (14.2)]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s).

1.3 Follicular Lymphoma (FL)

BREYANZI is indicated for the treatment of adult patients with relapsed or refractory follicular lymphoma (FL) who have received 2 or more prior lines of systemic therapy.

This indication is approved under accelerated approval based on response rate and duration of response [see Clinical Studies (14.3)]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s).

1.4 Mantle Cell Lymphoma (MCL)

BREYANZI is indicated for the treatment of adult patients with relapsed or refractory mantle cell lymphoma (MCL) who have received at least 2 prior lines of systemic therapy, including a Bruton tyrosine kinase (BTK) inhibitor.

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*Sections or subsections omitted from the full prescribing information are not listed.

2 DOSAGE AND ADMINISTRATION

For autologous use only. For intravenous use only.

2.1 Dose

See the respective Certificate of Release for Infusion (RFI Certificate) for each component, for the actual cell counts and volumes to be infused [see Dosage and Administration (2.2) and Dosage Forms and Strengths (3)].

A single dose of BREYANZI (lisocabtagene maraleucel) contains CAR-positive viable T cells (consisting of 1:1 CAR-positive viable T cells of the CD8 and CD4 components), with each component supplied separately in one to four single-dose vials. See Table 1 for dose range per indication.

Table 1: Dose Range

Indication	BREYANZI dose range	
LBCL after two or more lines of therapy (1.1)	50 to 110 \times 10 ⁶ CAR-positive viable T cells	
LBCL after one line of therapy (1.1)		
CLL or SLL (1.2)		
FL (1.3)	90 to 110 \times 10 ⁶ CAR-positive viable T cells	
MCL (1.4)	1	

2.2 Administration

BREYANZI is for autologous use only. The patient's identity must match the patient identifiers on the BREYANZI cartons, vials, and syringe labels. Do not infuse BREYANZI if the information on the patient-specific labels does not match the intended patient.

Preparing the Patient for BREYANZI

Confirm the availability of BREYANZI before starting lymphodepleting chemotherapy.

Pretreatment

Administer the lymphodepleting chemotherapy regimen before infusion of BREYANZI: fludarabine 30 mg/m²/day intravenously (IV), and cyclophosphamide 300 mg/m²/day IV for 3 days. See the prescribing information for fludarabine and cyclophosphamide for information on dose adjustment in renal impairment.

Infuse BREYANZI 2 to 7 days after completion of lymphodepleting chemotherapy.

Delay the infusion of BREYANZI if the patient has unresolved serious adverse events from preceding chemotherapies, active uncontrolled infection, or active graft-versus-host disease (GVHD).

Premedication

To minimize the risk of infusion reactions, premedicate the patient with acetaminophen (650 mg orally) and diphenhydramine (25-50 mg, IV or orally), or another H1-antihistamine, 30 to 60 minutes prior to treatment with BREYANZI.

Avoid prophylactic use of systemic corticosteroids, as they may interfere with the activity of BREYANZI.

Receipt of BREYANZI

- BREYANZI is shipped directly to the cell-associated lab or clinical pharmacy associated with the infusion center in the vapor phase of a liquid nitrogen shipper.
- Confirm the patient's identity with the patient identifiers on the shipper.
- If the patient is not expected to be ready for administration before the shipper expires and the infusion site is qualified for onsite storage, transfer BREYANZI to onsite vapor phase of liquid nitrogen storage prior to preparation.
- If the patient is not expected to be ready for administration before the shipper expires and the infusion site is not qualified for onsite storage, contact Bristol-Myers Squibb at 1-888-805-4555 to arrange for return shipment.

BREYANZI® (lisocabtagene maraleucel)

Preparing BREYANZI

Before thawing the vials

- · Confirm the patient's identity with the patient identifiers on the RFI Certificate.
- Read the RFI Certificate (affixed inside the shipper) for information on the number of syringes you will need to administer the CD8 and CD4 components (syringe labels are provided with the RFI Certificate). There is a separate RFI Certificate for each cell component.
- Confirm tocilizumab and emergency equipment are available prior to infusion and during the recovery period.
- Confirm the infusion time in advance and adjust the start time of BREYANZI thaw such that it will be available for infusion when the patient is ready.

Thawing the vials

 Confirm the patient's identity with the patient identifiers on the outer carton and on the syringe labels.

Once the vials of CAR-positive viable T cells (CD8 component and CD4 component) are removed from frozen storage, the thaw must be carried to completion and the cells administered within 2 hours.

- 2. Remove the CD8 component carton and CD4 component carton from the outer carton.
- 3. Confirm the patient's identity with the patient identifiers on the inner carton.
- Open each inner carton and visually inspect the vial(s) for damage. If the vials are damaged, contact Bristol-Myers Squibb at 1-888-805-4555.
- 5. Confirm the patient's identity with the patient identifiers on the vials.
- 6. Carefully remove the vials from the cartons, place vials on a protective barrier pad, and thaw at room temperature until there is no visible ice in the vials. Thaw all of the vials at the same time. Keep the CD8 and CD4 components separate.

Dose preparation

- Prepare BREYANZI using sterile technique.
- Based on the concentration of CAR-positive viable T cells for each component, more than
 one vial of each of the CD8 and CD4 components may be required to complete a dose.
 A separate syringe should be prepared for each CD8 or CD4 component vial received.
 Note: The volume to be drawn up and infused may differ for each component as indicated
 on the RFI Certificate. Do NOT draw up excess volume into the syringe.
- Each vial contains 5 mL with a total extractable volume of 4.6 mL of CD8 or CD4 component T cells. The RFI Certificate for each component indicates the volume (mL) of cells to be drawn up into each syringe. Use the smallest Luer-lock tip syringe necessary (1, 3, or 5 mL) to draw up the specified volume from each vial. A 5 mL syringe should not be used for volumes less than 3 mL.
- 7. **Prepare the syringe(s) of the CD8 component first.** Affix the CD8 syringe labels to the syringe(s) prior to pulling the required volume into the syringe(s).

Note: It is important to confirm that the volume drawn up for each component matches the volume specified in the respective RFI Certificate. Do NOT draw up excess volume into the syringe.

Withdrawal of the required volume of cells from each vial into a separate syringe should be carried out using the following instructions:

 Hold the thawed vial(s) upright and gently invert the vial(s) 5 times to mix the cell product. If any clumping is apparent, continue to invert the vial(s) until clumps have dispersed and cells appear to be evenly resuspended.



Vial upright \rightarrow Vial inverted

 Visually inspect the thawed vial(s) for damage or leaks. Do not use if the vial is damaged or if the clumps do not disperse; contact Bristol-Myers Squibb at 1-888-805-4555. The liquid in the vials should be slightly opaque to opaque, colorless to yellow or brownish-yellow. 10. Remove the polyaluminum cover (if present) from the bottom of the vial and swab the septum with an alcohol wipe. Allow to air dry before proceeding.

NOTE: The absence of the polyaluminum cover does not impact the sterility of the vial.



11. Keeping the vial(s) upright, cut the seal on the tubing line on the top of the vial immediately above the filter to open the air vent on the vial.

NOTE: Be careful to select the correct tubing line with the filter. Cut ONLY the tubing \underline{with} a filter.



- Hold a 20-gauge, 1-1 ½ inch needle, with the opening of the needle tip away from the retrieval port septum.
 - a. Insert the needle into the septum at a 45°- 60° angle to puncture the retrieval port septum.
 - b. Increase the angle of the needle gradually as the needle enters the vial.



 WITHOUT drawing air into the syringe, slowly withdraw the target volume (as specified in the RFI Certificate). Carefully inspect the syringe for signs of debris prior to proceeding. If there is debris, contact Bristol-Myers Squibb at 1-888-805-4555.



14. Verify that the volume of CD8/CD4 component matches the volume specified for the relevant component in the RFI Certificate.

Once the volume is verified, remove the syringe/needle from the vial, carefully detach the needle from the syringe and cap the syringe.



15. Continue to keep the vial horizontal and return it to the carton to avoid leaking from the vial.

- 16. Dispose of any unused portion of BREYANZI (according to local biosafety guidelines).
- 17. Repeat the process steps 7-16 for the CD4 Component.
- Transport the labeled CD8 and CD4 syringes to the bedside by placing with protective barrier pad inside an insulated room temperature container.

BREYANZI Administration

- **Do NOT** use a leukodepleting filter.
- Confirm tocilizumab and emergency equipment are available prior to infusion and during the recovery period.
- · Confirm the patient's identity matches the patient identifiers on the syringe label.
- Once BREYANZI has been drawn into syringes, proceed with administration as soon as possible. The total time from removal from frozen storage to patient administration should not exceed 2 hours as indicated by the time entered on the syringe label.
- 19. Use intravenous normal saline to flush all the infusion tubing prior to and after each CD8 or CD4 component administration.
- Administer the entire volume of the CD8 component intravenously at an infusion rate of approximately 0.5 mL/minute, using the closest port or Y-arm.

NOTE: The time for infusion will vary but will usually be less than 15 minutes for each component.

- 21. If more than one syringe is required for a full cell dose of the CD8 component, administer the volume in each syringe consecutively without any time between administering the contents of the syringes (unless there is a clinical reason (e.g., infusion reaction) to hold the dose).
- 22. After the CD8 component has been administered, flush the tubing with normal saline, using enough volume to clear the tubing and the length of the IV catheter.
- 23. Administer the CD4 component second, immediately after administration of the CD8 component is complete, using steps 1-4, as described for the CD8 component. Following administration of the CD4 component, flush the tubing with normal saline, using enough volume to clear the tubing and the length of the IV catheter.

BREYANZI contains human blood cells that are genetically modified with replicationincompetent, self-inactivating lentiviral vector. Follow universal precautions and local biosafety guidelines applicable for the handling and disposal, to avoid potential transmission of infectious diseases.

Monitoring

- Monitor patients daily for at least 7 days following BREYANZI infusion for signs and symptoms of CRS and neurologic toxicities.
- Instruct patients to remain within proximity of a healthcare facility for at least 2 weeks following infusion.
- Advise patients to avoid driving for at least 2 weeks following infusion.

2.3 Management of Severe Adverse Reactions

Cytokine Release Syndrome

Identify cytokine release syndrome (CRS) based on clinical presentation [see Warnings and Precautions (5.1)]. Evaluate for and treat other causes of fever, hypoxia, and hypotension. If CRS is suspected, manage according to the recommendations in Table 2. Physicians may also consider management per current practice guidelines.

Patients who experience Grade 2 or higher CRS (e.g., hypotension not responsive to fluids, or hypoxia requiring supplemental oxygenation) should be monitored with continuous cardiac telemetry and pulse oximetry. For patients experiencing severe CRS, consider performing an echocardiogram to assess cardiac function. For severe or life-threatening CRS, consider intensive-care supportive therapy.

If concurrent neurologic toxicity is suspected during CRS, administer:

- Corticosteroids according to the more aggressive intervention based on the CRS and neurologic toxicity grades in Tables 2 and 3
- Tocilizumab according to the CRS grade in Table 2
- Antiseizure medication according to the neurologic toxicity in Table 3

	ig and Management Guidance		
CRS Grade ^a	Tocilizumab	Corticosteroids ^b	
Grade 1 Fever	If less than 72 hours after infusion, consider tocilizumab 8 mg/kg IV over 1 hour (not to exceed 800 mg). If 72 hours or more after infusion, treat symptomatically.	If less than 72 hours after infusion, consider dexamethasone 10 mg IV every 24 hours. If 72 hours or more after infusion, treat symptomatically.	
Grade 2	Administer tocilizumab	If less than 72 hours after	
Symptoms require and respond to moderate intervention. Oxygen requirement less than 40% FiO ₂ , or hypotension responsive to fluids or low dose of one vasopressor, or Grade 2 organ toxicity.	8 mg/kg IV over 1 hour (not to exceed 800 mg). Repeat tocilizumab every 8 hours as needed if not responsive to intravenous fluids or increasing supplemental oxygen. Limit to a maximum of 3 doses in a 24-hour period; maximum total of 4 doses.	Infusion, administer dexamethasone 10 mg IV every 12-24 hours. If 72 hours or more after infusion, consider dexamethasone 10 mg IV every 12-24 hours.	
repeat tocilizumab and dexamethasone (10-20 r If no improvement or co dexamethasone, switch 2 mg/kg if needed. After		hin 24 hours or rapid progression, d escalate dose and frequency of 0 mg IV every 6 to 12 hours). continued rapid progression, maximize th to high-dose methylprednisolone er 2 doses of tocilizumab, consider ppressants. Do not exceed 3 doses s, or 4 doses in total.	
Grade 3 Symptoms require and	Per Grade 2.	Administer dexamethasone 10 mg IV every 12 hours.	
respond to aggressive intervention. Oxygen requirement greater than or equal to	If no improvement within 24 hours or rapid progression of CRS, repeat tocilizumab and escalate dose and frequency of dexamethasone (10-20 mg IV every 6 to 12 hours). If no improvement or continued rapid progression, maximize		
40% FiO ₂ , or hypotension requiring high-dose or multiple vasopressors, or Grade 3 organ toxicity, or Grade 4 transaminitis.	dexamethasone, switch to high-dose methylprednisolone 2 mg/kg if needed. After 2 doses of tocilizumab, consider alternative immunosuppressants. Do not exceed 3 doses tocilizumab in 24 hours, or 4 doses in total.		
Grade 4	Per Grade 2.	Administer dexamethasone	
Life-threatening symptoms Requirements for ventilator support or continuous veno- venous hemodialysis (CVVHD) or Grade 4 organ toxicity (excluding transaminitis).	20 mg IV every 6 hours. If no improvement within 24 hours or rapid progression of CRS, escalate tocilizumab and corticosteroid use. If no improvement or continued rapid progression, maximize dexamethasone, switch to high-dose methylprednisolone 2 mg/kg if needed. After 2 doses of tocilizumab, consider alternative immunosuppressants. Do not exceed 3 doses tocilizumab in 24 hours, or 4 doses in total.		

^a Lee criteria for grading CRS (Lee et al, 2014).

^b If corticosteroids are initiated, continue corticosteroids for at least 3 doses or until complete resolution of symptoms, and consider corticosteroid taper.

Neurologic Toxicity

Monitor patients for signs and symptoms of neurologic toxicities (Table 3). Rule out other causes of neurologic symptoms. Provide intensive care supportive therapy for severe or life-threatening neurologic toxicities. If neurologic toxicity is suspected, manage according to the recommendations in Table 3. Physicians may also consider management per current practice guidelines.

If concurrent CRS is suspected during neurologic toxicity, administer:

- Corticosteroids according to the more aggressive intervention based on the CRS and neurologic toxicity grades in Tables 2 and 3
 - Tocilizumab according to the CRS grade in Table 2
 - Antiseizure medication according to the neurologic toxicity in Table 3

Corticosteroids and Antiseizure Medication
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Start non-sedating, antiseizure medicines (e.g., levetiracetam) for seizure prophylaxis. If 72 hours or more after infusion, observe.
If less than 72 hours after infusion, consider dexamethasone 10 mg IV every 12 to 24 hours for 2 to 3 days.
Start non-sedating, antiseizure medicines (e.g., levetiracetam) for seizure prophylaxis.
Dexamethasone 10 mg IV every 12 hours for 2-3 days, or longer for persistent symptoms. Consider taper for a total steroid exposure of greater than 3 days.
If no improvement after 24 hours or worsening of neurologic toxicity, increase the dose and/or frequency of dexamethasone up to a maximum of 20 mg IV every 6 hours.
If no improvement after another 24 hours, rapidly progressing symptoms, or life-threatening complications arise, give methylprednisolone (2 mg/kg loading dose, followed by 2 mg/kg divided 4 times a day; taper within 7 days).
Start non-sedating, antiseizure medicines (e.g., levetiracetam) for seizure prophylaxis.
Dexamethasone 10 to 20 mg IV every 8 to 12 hours. Steroids are not recommended for isolated Grade 3 headaches.
If no improvement after 24 hours or worsening of neurologic toxicity, escalate to methylprednisolone (dose and frequency as per Grade 2).
If cerebral edema is suspected, consider hyperventilation and hyperosmolar therapy. Give high-dose methylprednisolone (1-2 g, repeat every 24 hours if needed; taper as clinically indicated) and cyclophosphamide 1.5 g/m ² .
Start non-sedating, antiseizure medicines (e.g., levetiracetam) for seizure prophylaxis.
Dexamethasone 20 mg IV every 6 hours.
If no improvement after 24 hours or worsening of neurologic toxicity, escalate to methylprednisolone (dose and frequency as per Grade 2).
If cerebral edema is suspected, consider hyperventilation and hyperosmolar therapy. Give high-dose methylprednisolone (1-2 g, repeat every 24 hours if needed; taper as clinically indicated), and cyclophosphamide 1.5 g/m ² .

^a NCI CTCAE criteria for grading neurologic toxicities, version 4.03.

3 DOSAGE FORMS AND STRENGTHS

BREYANZI is a cell suspension for infusion.

A single dose of BREYANZI contains CAR-positive viable T cells that consist of CD8 and CD4 components, with each component supplied separately in single-dose vials [see Dosage and Administration (2.1)].

More than one vial of each of the CD8 component and/or CD4 component may be needed to achieve the dose of BREYANZI.

Each vial contains between 6.9×10^6 and 322×10^6 CAR-positive viable T cells in 4.6 mL cell suspension (between 1.5×10^6 and 70 x 10^6 CAR-positive viable T cells/mL).

The infusion volume is calculated based on the concentration of cryopreserved drug product CAR-positive viable T cells. The volume may differ for each component infused. See the RFI Certificate for details [see How Supplied/Storage and Handling (16)].

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Cytokine Release Syndrome

Cytokine release syndrome (CRS), including fatal or life-threatening reactions, occurred following treatment with BREYANZI.

In clinical trials of BREYANZI, which enrolled a total of 702 patients with non-Hodgkin lymphoma (NHL), CRS occurred in 54% of patients, including \geq Grade 3 CRS (Lee grading system¹) in 3.2% of patients. The median time to onset was 5 days (range: 1 to 63 days). CRS resolved in 98% of patients with a median duration of 5 days (range: 1 to 37 days). One patient had fatal CRS and 5 patients had ongoing CRS at the time of death. The most common manifestations of CRS (\geq 10%) included fever, hypotension, chills, tachycardia, hypoxia, and headache.

Serious events that may be associated with CRS include cardiac arrhythmias (including atrial fibrillation and ventricular tachycardia), cardiac arrest, cardiac failure, diffuse alveolar damage, renal insufficiency, capillary leak syndrome, hypotension, hypoxia, and hemophagocytic lymphohistiocytosis/macrophage activation syndrome (HLH/MAS) [see Adverse Reactions (6.1)].

Ensure that 2 doses of tocilizumab are available prior to infusion of BREYANZI.

Monitor patients daily for at least 7 days following BREYANZI infusion for signs and symptoms of CRS. Continue to monitor patients for signs or symptoms of CRS for at least 2 weeks after infusion. At the first sign of CRS, institute treatment with supportive care, tocilizumab, or tocilizumab and corticosteroids as indicated [see Dosage and Administration (22, 23)].

Counsel patients to seek immediate medical attention should signs or symptoms of CRS occur at any time [see Patient Counseling Information (17)].

5.2 Neurologic Toxicities

Neurologic toxicities that were fatal or life-threatening, including immune effector cellassociated neurotoxicity syndrome (ICANS), occurred following treatment with BREYANZI. Serious events including cerebral edema and seizures occurred with BREYANZI. Fatal and serious cases of leukoencephalopathy, some attributable to fludarabine, also occurred.

In clinical trials of BREYANZI, CAR T cell-associated neurologic toxicities occurred in 31% of patients, including \geq Grade 3 cases in 10% of patients. The median time to onset of neurotoxicity was 8 days (range: 1 to 63 days). Neurologic toxicities resolved in 88% of patients with a median duration of 7 days (range: 1 to 119 days). Of patients developing neurotoxicity, 82% also developed CRS.

The most common neurologic toxicities (\geq 5%) included encephalopathy, tremor, aphasia, delirium, and headache.

Monitor patients daily for at least 7 days following BREYANZI infusion for signs and symptoms of neurologic toxicities and assess for other causes of neurological symptoms. Continue to monitor patients for signs or symptoms of neurologic toxicities for at least 2 weeks after infusion and treat promptly. Manage neurologic toxicity with supportive care and/or corticosteroid as needed [see Dosage and Administration (2.2, 2.3)]. Advise patients to avoid driving for at least 2 weeks following infusion.

Counsel patients to seek immediate medical attention should signs or symptoms of neurologic toxicity occur at any time [see Patient Counseling Information (17)].

5.3 Hypersensitivity Reactions

Allergic reactions may occur with the infusion of BREYANZI. Serious hypersensitivity reactions, including anaphylaxis, may be due to dimethyl sulfoxide (DMSO).

5.4 Serious Infections

Severe infections, including life-threatening or fatal infections, have occurred in patients after BREYANZI infusion.

In clinical trials of BREYANZI, infections of any grade occurred in 34% of patients, with Grade 3 or higher infections occurred in 12% of all patients. Grade 3 or higher infections with an unspecified pathogen occurred in 7%, bacterial infections in 3.7%, viral infections in 2%, and fungal infections in 0.7% of patients. One patient with FL, who received four prior lines of therapy developed a fatal case of John Cunningham (JC) virus progressive multifocal leukoencephalopathy four months after treatment with BREYANZI. One patient with BREYANZI. One patient with BREYANZI of the prior lines of therapy, developed a fatal case of cryptococcal meningoencephalitis 35 days after treatment with BREYANZI.

Febrile neutropenia developed after BREYANZI infusion in 8% of patients. Febrile neutropenia may be concurrent with CRS. In the event of febrile neutropenia, evaluate for infection and manage with broad-spectrum antibiotics, fluids, and other supportive care as medically indicated.

Monitor patients for signs and symptoms of infection before and after BREYANZI administration and treat appropriately. Administer prophylactic antimicrobials according to standard institutional guidelines.

Avoid administration of BREYANZI in patients with clinically significant, active systemic infections.

Viral Reactivation

Hepatitis B virus (HBV) reactivation, in some cases resulting in fulminant hepatitis, hepatic failure, and death, can occur in patients treated with drugs directed against B cells.

In clinical trials of BREYANZI, 35 of 38 patients with a prior history of HBV were treated with concurrent antiviral suppressive therapy. Perform screening for HBV, HCV, and HIV in accordance with clinical guidelines before collection of cells for manufacturing. In patients with prior history of HBV, consider concurrent antiviral suppressive therapy to prevent HBV reactivation per standard guidelines.

5.5 Prolonged Cytopenias

Patients may exhibit cytopenias not resolved for several weeks following lymphodepleting chemotherapy and BREYANZI infusion.

In clinical trials of BREYANZI, Grade 3 or higher cytopenias persisted at Day 29 following BREYANZI infusion in 35% of patients, and included thrombocytopenia in 25%, neutropenia in 22%, and anemia in 6% of patients.

Monitor complete blood counts prior to and after BREYANZI administration.

5.6 Hypogammaglobulinemia

B-cell aplasia and hypogammaglobulinemia can occur in patients receiving BREYANZI.

In clinical trials of BREYANZI, hypogammaglobulinemia was reported as an adverse reaction in 10% of patients. Hypogammaglobulinemia, either as an adverse reaction or laboratory IgG level below 500 mg/dL after infusion, was reported in 30% of patients.

Monitor immunoglobulin levels after treatment with BREYANZI and manage using infection precautions, antibiotic prophylaxis, and immunoglobulin replacement as clinically indicated.

Live Vaccines

The safety of immunization with live viral vaccines during or following BREYANZI treatment has not been studied. Vaccination with live virus vaccines is not recommended for at least 6 weeks prior to the start of lymphodepleting chemotherapy, during BREYANZI treatment, and until immune recovery following treatment with BREYANZI.

5.7 Secondary Malignancies

Patients treated with BREYANZI may develop secondary malignancies. T cell malignancies have occurred following treatment of hematologic malignancies with BCMA- and CDI9-directed genetically modified autologous T cell immunotherapies, including BREYANZI. Mature T cell malignancies, including CAR-positive tumors, may present as soon as weeks following infusion, and may include fatal outcomes [see Boxed Warning, Adverse Reactions (6.2), Patient Counseling Information (17)]. Monitor lifelong for secondary malignancies. In the event that a secondary malignancy occurs, contact Bristol-Myers Squibb at 1888-805-4555 for reporting and to obtain instructions on collection of patient samples for testing.

5.8 Immune Effector Cell-Associated Hemophagocytic Lymphohistiocytosis-Like Syndrome (IEC-HS)

Immune Effector Cell-Associated Hemophagocytic Lymphohistiocytosis-Like Syndrome (IEC-HS), including fatal or life-threatening reactions, occurred following treatment with BREYANZI. Three of 89 (3%) safety evaluable patients with R/R CLL/SLL developed IEC-HS. Time to onset of IEC-HS ranged from 7 to 18 days. Two of the 3 patients developed IEC-HS in the setting of ongoing CRS and 1 in the setting of ongoing neurotoxicity. IEC-HS was fatal in 2 of 3 patients. One patient had fatal IEC-HS and one had ongoing IEC-HS at time of death.

IEC-HS is a life-threatening condition with a high mortality rate if not recognized and treated early. Treatment of IEC-HS should be administered per current practice guidelines.

6 ADVERSE REACTIONS

The following adverse reactions are described elsewhere in the labeling:

- Cytokine Release Syndrome [see Warnings and Precautions (5.1)]
- Neurologic Toxicities [see Warnings and Precautions (5.2)]
- Hypersensitivity Reactions [see Warnings and Precautions (5.3)]
- Serious Infections [see Warnings and Precautions (5.4)]
- Prolonged Cytopenias [see Warnings and Precautions (5.5)]
- Hypogammaglobulinemia [see Warnings and Precautions (5.6)]

6.1 Clinical Trials Experience

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.

The safety data described in the WARNINGS and PRECAUTIONS (N=702) and in this section reflect exposure to a single dose of BREYANZI in one randomized, open-label study with 89 patients (TRANSFORM) with relapsed or refractory LBCL, and five open-label, single-arm studies with 61 patients (PILOT) and 268 patients (TRANSCEND) with relapsed or refractory LBCL, 89 patients with relapsed or refractory CLL/SLL (TRANSCEND-CLL), 107 patients with relapsed or refractory FL (TRANSCEND-FL), and 88 patients with relapsed or refractory MCL (TRANSCEND-MCL Cohort).

Relapsed or Refractory LBCL After One Line of Therapy

TRANSFORM

The safety of BREYANZI was evaluated in the TRANSFORM, a randomized, open-label, multicenter study, in which patients with primary refractory LBCL or relapse within 1 year of first-line chemoimmunotherapy received BREYANZI (N=89) or standard therapy (N=91) [see Clinical Studies (14.1)]. Patients had not yet received treatment for relapsed or refractory lymphoma and were potential candidates for autologous HSCT. The trial excluded patients who were ineligible for transplant or who had age >75 years, Eastern Cooperative Oncology Group (ECOG) performance status >1, history of central nervous system (CNS) disorders (such as seizures or cerebrovascular ischemia), uncontrolled infection, CrCl <45 mL/min, alanine aminotransferase (ALT) >5 times the upper limit of normal (ULN), left ventricular ejection fraction (LVEF) <40%, or absolute neutrophil count (ANC) <10 × 10⁹ cells/L or platelets <50 × 10⁹ cells/L in the absence of bone marrow involvement.

The planned dose of BREYANZI was 100×10^6 CAR-positive viable T cells. The median age of the BREYANZI-treated population was 59 years (range: 20 to 74 years); 47% were male; 58% were White, 11% were Asian, and 5% were Black.

Serious adverse reactions occurred in 38% of patients. The most common nonlaboratory serious adverse reactions (>2%) were CRS, sepsis, fever, febrile neutropenia, headache, aphasia, COVID-19 infection, and pulmonary embolism.

Table 4 presents selected nonlaboratory adverse reactions in patients treated with BREYANZI, and Table 5 describes selected new or worsening Grade 3 or 4 laboratory abnormalities.

The most common nonlaboratory adverse reactions (≥20%) were fever, CRS, musculoskeletal pain, headache, fatigue, nausea, constipation, and dizziness.

Table 4:	Adverse Reactions in ≥10% of Patients Treated with BREYANZI in the
	TRANSFORM Study (N=89)

TRANSFORM Study (N=89)		
Adverse Reaction	Any Grade (%)	Grade 3 or Higher (%)
Blood and lymphatic system disorders		
Febrile neutropenia	10	10
Cardiac disorders		
Tachycardiaª	15	1.1
Gastrointestinal disorders		
Nausea	24	0
Constipation	20	2.2
Diarrhea	18	0
Abdominal pain ^b	13	2.2
Vomiting	11	0
General disorders and administration s	ite conditions	
Fever	55	3.4
Fatigue ^c	28	1.1
Edema ^d	13	0
Immune system disorders		
Cytokine release syndrome	49	1.1
Infections and infestations ^e		
Bacterial infectious disorders	12	6
Infections with pathogen unspecified	12	6
Sepsis ^f	10	7
Metabolism and nutrition disorders		
Decreased appetite	15	0
Musculoskeletal and connective tissue	disorders	
Musculoskeletal pain ^g	36	3.4
Nervous system disorders		
Headache ^h	34	6
Dizziness ⁱ	20	1.1
Motor dysfunction ^j	12	3.4
Tremor ^k	11	1.1
Psychiatric disorders		
Insomnia ^I	15	0
Respiratory, thoracic, and mediastinal	disorders	
Cough ^m	11	0
Skin and subcutaneous tissue disorder	s	
Rash ⁿ	12	1.1
Vascular disorders		
Hypotension ^o	15	2.2
Hemorrhage ^p	12	0

^a Tachycardia includes atrial flutter, sinus tachycardia, supraventricular tachycardia, tachycardia.

^b Abdominal pain includes abdominal pain, abdominal pain lower, abdominal tenderness.

^c Fatigue includes asthenia, fatigue, malaise.

- ^d Edema includes edema peripheral, localized edema, pleural effusion swelling.
- ^e Infections and infestations are grouped per high-level grouped term.
- ^f Sepsis includes bacteremia, bacterial sepsis, enterococcal bacteremia, Escherichia bacteremia, Klebsiella bacteremia, Klebsiella sepsis, sepsis, septic shock, staphylococcal bacteremia.
- ⁹ Musculoskeletal pain includes arthralgia, back pain, bone pain, flank pain, musculoskeletal chest pain, musculoskeletal pain, musculoskeletal stiffness, myalgia, neck pain, osteoarthritis, pain in extremity.
- ^h Headache includes headache, migraine, migraine with aura.
- ⁱ Dizziness includes dizziness, dizziness postural, syncope, vertigo.
- ^j Motor dysfunction includes fine motor skill dysfunction, muscle spasms, muscular weakness. ^k Tremor includes resting tremor, tremor, essential tremor.
- Insomnia includes insomnia, sleep disorder.
- ^m Cough includes cough, productive cough.
- ⁿ Rash includes catheter site rash, dermatitis acneiform, dermatitis exfoliative generalized, erythema multiforme, rash, rash maculo-papular, rash pruritic.
- ^o Hypotension includes hypotension, orthostatic hypotension.
- P Hemorrhage includes conjunctival hemorrhage, cystitis hemorrhagic, epistaxis, gastrointestinal hemorrhage, hematoma, hematuria, retinal hemorrhage, vaginal hemorrhage.

Other clinically important adverse reactions in <10% of patients treated with BREYANZI included the following:

- Immune system disorders: Hemophagocytic lymphohistiocytosis (1.1%)
- Infections and infestations: Viral infection (9%), fungal infection (4.5%), pneumonia (2.2%)
- Nervous system disorders: Encephalopathy (8%), aphasia (4.5%), peripheral neuropathy (4.5%), ataxia (3.4%), paresis (1.1%)
- Psychiatric disorders: Delirium (2.2%)
- Renal and urinary disorders: Renal failure (3.4%)
- Respiratory, thoracic, and mediastinal disorders: Dyspnea (8%)
- Vascular disorders: Thrombosis (8%), hypertension (7%)

Table 5: Grade 3 or 4 Laboratory Abnormalities Occurring in ≥10% of Patients Treated with BREYANZI in the TRANSFORM Study

Laboratory Abnormality ^a	Grade 3 or 4 (%) ^b
Lymphocyte count decreased	98
Neutrophil count decreased	89
Platelet count decreased	48
Hemoglobin decreased	32

^a Baseline lab values were assessed prior to lymphodepleting chemotherapy.

^b Based on 88 evaluable patients, defined as those with both a baseline grade and at least one post-baseline grade for the particular lab.

Grade 4 laboratory abnormalities in \geq 10% of patients were lymphocyte decrease (64%), neutrophil decrease (66%), and platelet decrease (34%).

PILOT

The safety of BREYANZI was evaluated in the PILOT study, a single-arm open-label study in transplant-ineligible patients with R/R LBCL after one line of chemoimmunotherapy [see Clinical Studies (14.1)]. The study enrolled patients who were ineligible for high-dose therapy and autologous HSCT due to organ function or age, but who had adequate organ function for CAR-T cell therapy. Patients with a history of relevant CNS disorders (such as seizures or cerebrovascular ischemia), ECOG performance status >2, or uncontrolled infection were ineligible. The trial required LVEF \geq 40%, adequate oxygen saturation on room air with \leq Grade 1 dyspnea, AST, and ALT \leq 5 x ULN, total bilirubin <2.0 mg/dL, creatinine clearance >30 mL/min, and adequate bone marrow function to receive lymphodepleting chemotherapy. The planned dose of BREYANZI was 100 \times 10⁶ CAR-positive viable T cells.

The median age was 74 years (range: 53 to 84 years), 90% were age \geq 65 years, 61% were male. The ECOG performance status was 0 or 1 in 74% of patients and 2 in 26% of patients; 25% had CrCl <60 mL/min; 20% had a baseline ANC <1000/µL.

Serious adverse reactions occurred in 33% of patients. The most common nonlaboratory, serious adverse reactions (>2%) were CRS, confusional state, gastrointestinal hemorrhage, muscular weakness, musculoskeletal pain, pulmonary embolism, and sepsis.

Table 6 presents selected nonlaboratory adverse reactions, and Table 7 describes selected new or worsening Grade 3 or 4 laboratory abnormalities.

The most common nonlaboratory adverse reactions (≥20%) were fatigue, CRS, fever, nausea, encephalopathy, hypotension, musculoskeletal pain, and edema.

Table 6: Adverse Reactions in \geq 10% of Patients Treated with BREYANZI in the PILOT Study (N=61)

Adverse Reaction	Any Grade (%)	Grade 3 or Higher (%)
Cardiac disorders		•
Tachycardia ^a	10	0
Gastrointestinal disorders		•
Nausea	25	1.6
Diarrhea	15	0
Constipation	11	0
General disorders and administration	on site conditions	•
Fatigue ^b	44	1.6
Fever	38	1.6
Edema ^c	20	0
Immune system disorders	•	· ·
Cytokine release syndrome	39	1.6
		(0

(Continued)

Table 6:	Adverse Reactions in ≥10% of Patients Treated with BREYANZI in the
(Continued)	PILOT Study (N=61)

Adverse Reaction	Any Grade (%)	Grade 3 or Higher (%)
Infections and infestations		•
Infections with pathogen unspecified ^d	13	4.9
Upper respiratory tract infection ^e	13	0
Bacterial infectious disorders	10	3.3
Metabolism and nutrition disorders		
Decreased appetite	13	1.6
Musculoskeletal and connective tissue	disorders	
Musculoskeletal pain ^f	23	4.9
Nervous system disorders		
Encephalopathy ^g	23	4.9
Dizziness ^h	16	1.6
Tremor ⁱ	16	0
Headache	11	1.6
Psychiatric disorders		
Insomnia	11	0
Respiratory, thoracic, and mediastinal	disorders	
Cough ^j	18	0
Dyspnea ^k	16	4.9
Vascular disorders		
Hypotension ¹	23	1.6
Hypertension	10	4.9

^a Tachycardia includes atrial fibrillation, sinus tachycardia, tachycardia.

- ^b Fatigue includes asthenia, fatigue, malaise.
- ^c Edema includes edema peripheral, pleural effusion, swelling.
- ¹ Grouped per high-level grouped term.
- ^e Upper respiratory tract infection includes nasal congestion, paranasal sinus hypersecretion, rhinitis, rhinorrhea, upper respiratory tract infection.
- ^f Musculoskeletal pain includes arthralgia, back pain, bone pain, flank pain, musculoskeletal chest pain, musculoskeletal pain, musculoskeletal stiffness, myalgia, neck pain, osteoarthritis, pain in extremity, spinal pain.
- ^g Encephalopathy includes amnesia, apraxia, cognitive disorder, confusional state, depressed level of consciousness, disturbance in attention, dyscalculia, encephalopathy, lethargy, memory impairment, mental status changes, somnolence.
- ^h Dizziness includes dizziness, dizziness postural, syncope, vertigo.
- ⁱ Tremor includes resting tremor, tremor.
- ^j Cough includes cough, productive cough.
- ^k Dyspnea includes acute respiratory distress syndrome, dyspnea, tachypnea, wheezing.
- ¹ Hypotension includes hypotension, orthostatic hypotension.

Other clinically important adverse reactions in <10% of patients included the following:

- Blood and lymphatic system disorders: Febrile neutropenia (1.6%)
- Eye disorders: Vision blurred (3.3%)
- Gastrointestinal disorders: Vomiting (8%), abdominal pain (7%), gastrointestinal hemorrhage (4.9%)
- Infections and infestations: Fungal infection (4.9%), sepsis (3.3%), viral infection (3.3%)
- Nervous system disorders: Motor dysfunction (7%), aphasia (4.9%), ataxia (4.9%), peripheral neuropathy (4.9%)
- *Psychiatric disorders:* Delirium (3.3%)
- Renal and urinary disorders: Renal failure (7%)
- Respiratory, thoracic, and mediastinal disorders: Hypoxia (4.9%)
- Skin and subcutaneous tissue disorders: Rash (7%)
- Vascular disorders: Thrombosis (7%)

Table 7: Grade 3 or 4 Laboratory Abnormalities Occurring in ≥10% of Patients Treated with BREYANZI in the PILOT Study (N=61)

Laboratory Abnormality ^a	Grade 3 or 4 (%)
Lymphocyte count decreased	97
Neutrophil count decreased	80
Hemoglobin decreased	30
Platelet count decreased	26

^a Baseline lab values were assessed prior to lymphodepleting chemotherapy.

Grade 4 laboratory abnormalities in \geq 10% of patients were lymphocyte decrease (95%), neutrophil decrease (57%), and platelet decrease (20%).

Relapsed or Refractory LBCL After Two or More Lines of Therapy TRANSCEND

The safety of BREYANZI was evaluated in the TRANSCEND study, in which 268 adult patients with R/R LBCL after 2 or more prior lines of therapy received a single dose of CAR-positive viable T cells [see Clinical Studies (14.1)]. Patients with a history of CNS disorders (such as seizures or cerebrovascular ischemia) or autoimmune disease requiring systemic immunosuppression were ineligible. The median age of the study population was 63 years (range: 18 to 86 years); 65% were male. The ECOG performance status at screening was 0 in 41% of patients, 1 in 58% of patients, and 2 in 1.5% of patients.

Serious adverse reactions occurred in 46% of patients. The most common nonlaboratory serious adverse reactions (>2%) were CRS, encephalopathy, sepsis, febrile neutropenia, aphasia, pneumonia, fever, hypotension, dizziness, and delirium. Fatal adverse reactions occurred in 4% of patients.

Table 8 presents selected nonlaboratory adverse reactions reported in patients treated with BREYANZI, and Table 9 describes selected new or worsening Grade 3 or 4 laboratory abnormalities.

The most common nonlaboratory adverse reactions (≥20%) were fatigue, CRS, musculoskeletal pain, nausea, headache, encephalopathy, infections (pathogen unspecified), decreased appetite, diarrhea, hypotension, tachycardia, dizziness, cough, constipation, abdominal pain, vomiting, and edema.

Adverse Reactions in >10% of Patients Treated with RREYAN7I in the Table 8: TRANSCEND Study (N=268)

Adverse Reaction	Any Grade (%)	Grade 3 or Higher (%)
Cardiac disorders		
Tachycardiaª	25	0
Gastrointestinal disorders		
Nausea	33	1.5
Diarrhea	26	0.4
Constipation	23	0
Abdominal pain ^b	21	3.0
Vomiting	21	0.4
General disorders and administration	on site conditions	
Fatigue ^c	48	3.4
Edema ^d	21	1.1
Fever	16	0
Chills	12	0
Immune system disorders		
Cytokine release syndrome	46	4.1
Infections and infestations ^e		·
Infection with pathogen unspecified ^f	29	16
Bacterial infection ^g	13	5
Upper respiratory tract infection ^h	13	0.7
Viral infection	10	1.5
Metabolism and nutrition disorders	- -	1
Decreased appetite	28	2.6
Musculoskeletal and connective tis	sue disorders	•
Musculoskeletal pain ⁱ	37	2.2
Nervous system disorders		•
Headache ^j	30	1.1
Encephalopathy ^k	29	9
Dizziness ^I	24	2.6
Tremor ^m	16	0
Peripheral neuropathy ⁿ	11	0
Aphasiaº	10	2.2
Motor dysfunction ^p	10	1.1
Psychiatric disorders		
Insomnia ^q	14	0.4
Anxiety ^r	10	0
Delirium ^s	10	2.2
Renal and urinary disorders		
Renal failure ^t	11	3.0

Table 8: A	Adverse Reactions in ≥1	0% of Patients Treated w	ith BREYANZI in the
(Continued) T	FRANSCEND Study (N=2	68)	

Adverse Reaction	Any Grade (%)	Grade 3 or Higher (%)
Respiratory, thoracic, and mediastinal disorders		
Cough ^u	23	0
Dyspnea ^v	16	2.6
Skin and subcutaneous tissue disorders		
Rash ^w	13	0.4
Vascular disorders		
Hypotension ^x	26	3.4
Hypertension	14	4.5
Hemorrhage ^y	10	1.5

^a Tachycardia includes heart rate increased, sinus tachycardia, tachycardia.

^b Abdominal pain includes abdominal discomfort, abdominal pain, abdominal pain lower, abdominal pain upper, abdominal tenderness.

- ^c Fatigue includes asthenia, fatigue, malaise.
- ^d Edema includes edema, edema peripheral, fluid overload, fluid retention, generalized edema, hypervolemia, peripheral swelling, pulmonary congestion, pulmonary edema, swelling.
- Infections and infestations are grouped by pathogen type and selected clinical syndromes. Infections with pathogen unspecified contains febrile neutropenia (9%)
- ^g Bacterial infection includes infections by pathogen type plus appendicitis, diverticulitis, peritonitis, skin infection, tooth infection.
- Upper respiratory tract infections include nasopharyngitis, pharyngitis, rhinitis, rhinovirus infection, sinusitis, upper respiratory tract congestion, upper respiratory tract infection.
- Musculoskeletal pain includes arthralgia, back pain, bone pain, musculoskeletal chest pain, musculoskeletal discomfort, musculoskeletal pain, musculoskeletal stiffness, myalgia, neck pain, pain in extremity, spinal pain.
- Headache includes headache, head discomfort, migraine, sinus headache.
- Encephalopathy includes amnesia, bradyphrenia, cognitive disorder, confusional state, depersonalization/derealization disorder, depressed level of consciousness, disturbance in attention, encephalopathy, flat affect, hypersomnia, incoherent, lethargy, leukoencephalopathy, loss of consciousness, memory impairment, mental impairment, mental status changes, somnolence.
- Dizziness includes dizziness, presyncope, syncope, vertigo.
- ^m Tremor includes essential tremor, resting tremor, tremor.
- ⁿ Peripheral neuropathy includes hyperesthesia, hypoesthesia, meralgia paresthetica, neuralgia, neuropathy peripheral, paresthesia, peripheral sensory neuropathy, sciatica, sensory loss.
- Aphasia includes aphasia, disorganized speech, dysarthria, dysphemia, dysphonia, slow speech, speech disorder.
- ^p Motor dysfunction includes eyelid ptosis, motor dysfunction, muscle rigidity, muscle spasms, muscle spasticity, muscle tightness, muscle twitching, muscular weakness, myoclonus, myopathy.
- ^q Insomnia includes insomnia, somnambulism.
- Anxiety includes anxiety, panic attack.
- Delirium includes agitation, delirium, delusion, disorientation, hallucination, 'hallucination, visual', irritability, restlessness,
- Renal failure includes acute kidney injury, blood creatinine increased, chronic kidney disease, renal failure, renal injury.
- ^u Cough includes cough, productive cough, upper-airway cough syndrome.
- ^v Dyspnea includes acute respiratory failure, dyspnea, dyspnea exertional, respiratory failure. w Rash includes erythema, dermatitis acneiform, perineal rash, rash, rash erythematous, rash
- macular, rash maculo-papular, rash morbilliform, rash papular, rash pruritic, rash pustular.
- ^x Hypotension includes hypotension, orthostatic hypotension.
- ^y Hemorrhage includes catheter site hemorrhage, conjunctival hemorrhage, epistaxis, hematoma, hematuria, hemorrhage, hemorrhage intracranial, pulmonary hemorrhage, retinal hemorrhage, vaginal hemorrhage.

Other clinically important adverse reactions in <10% of patients included the following:

- Cardiac disorders: Arrhythmia (6%), cardiomyopathy (1.5%)
- Gastrointestinal disorders: Gastrointestinal hemorrhage (4.1%)
- Infections and infestations: Pneumonia (8%), fungal infection (8%), sepsis (4.5%), urinary tract infection (4.1%)
- Metabolism and nutrition disorders: Tumor lysis syndrome (0.7%)
- Nervous system disorders: Ataxia or gait disturbance (7%), visual disturbance (5%), paresis (2.6%), cerebrovascular events (1.9%), seizure (1.1%), brain edema (0.4%)
- Procedural complications: Infusion-related reaction (1.9%)
- Respiratory, thoracic, and mediastinal disorders: Pleural effusion (7%), hypoxia (6%)
- Vascular disorder: Thrombosis (7%)

Table 9: Grade 3 or 4 Laboratory Abnormalities Occurring in ≥10% of Patients Treated with BREYANZI in the TRANSCEND Study

Laboratory Abnormality ^a	Grade 3 or 4 (%) ^b
Lymphocyte count decreased	95
Neutrophil count decreased	88
Platelet count decreased	41
Hemoglobin decreased	32
Phosphate decreased	16
Fibrinogen decreased	14

^a Baseline lab values were assessed prior to lymphodepleting chemotherapy.

^b The denominator varied from 239 to 268, based on the number of patients with a baseline value and at least one post-treatment value for the particular lab.

Relapsed or Refractory CLL/SLL

TRANSCEND-CLL

The safety of BREYANZI was evaluated in the TRANSCEND-CLL study, which included 89 adult patients with R/R CLL/SLL who had received at least 2 prior lines of therapy including a BTK inhibitor and a BCL-2 inhibitor before receiving a single dose of CAR-positive viable T cells [see Clinical Studies (14.2)]. Patients with a history of CNS disorders (such as seizures or cerebrovascular ischemia) or autoimmune disease requiring systemic immunosuppression, Richter's transformation, ECOG performance status >1 were ineligible. The trial required LVEF >40%, adequate oxygen saturation on room air with ≤Grade 1 dyspnea, ALT ≤5 x ULN, total bilirubin <2.0 mg/dL, creatinine clearance >30 mL/min, and adequate bone marrow function to receive lymphodepleting chemotherapy.

The median age of the study population was 66 years (range: 49 to 82 years); 69% were male, 84% were White, 3% were Black, 1% were Asian. Two percent were Hispanic, and 89% were non-Hispanic. The ECOG performance status at screening was 0 in 40% of patients, and 1 in 60% of patients.

Serious adverse reactions occurred in 60% of patients. The most common nonlaboratory serious adverse reactions (>2%) were CRS, encephalopathy, febrile neutropenia, pneumonia, hemorrhage, fever, renal failure, aphasia, abdominal pain, delirium, tumor lysis syndrome, upper respiratory tract infection, and hemophagocytic lymphohistiocytosis [IEC-HS]. Fatal adverse reactions occurred in 11% of patients.

Table 10 presents selected nonlaboratory adverse reactions reported in patients treated with BREYANZI, and Table 11 describes selected new or worsening Grade 3 or 4 laboratory abnormalities.

The most common nonlaboratory adverse reactions (\geq 20%) were CRS, encephalopathy, fatigue, musculoskeletal pain, nausea, edema, diarrhea, dyspnea, headache, fever, decreased appetite, constipation, tremor, dizziness, Infection with pathogen unspecified, rash, tachycardia, cough, and delirium.

Table 10:	Adverse Reactions in ≥10% of Patients Treated with BREYANZI in the
	TRANSCEND-CLL Study (N=89)

TRANSCEND-CLL Sludy (N=09)		
Adverse Reaction	Any Grade (%)	Grade 3 or Higher (%)
Blood and lymphatic system disord	ers	-
Febrile neutropenia	12	12
Cardiac disorders		
Tachycardiaª	21	0
Gastrointestinal disorders		
Nausea	35	0
Diarrhea ^b	30	1.1
Constipation	24	0
Abdominal pain ^c	18	0
Vomiting	15	0
General disorders and administration	on site conditions	
Fatigue ^d	40	4.5
Edema ^e	30	4.5
Fever ^f	27	1.1
Chills	17	1.1
Immune system disorders		
Cytokine release syndrome	83	9
Infections and infestations		
Infection with pathogen unspecified ^g	23	10
Upper respiratory tract infection ^h	19	1.1
Viral infection ^g	10	1.1

(Continued)

Table 10:	Adverse Reactions in ≥10% of Patients Treated with BREYANZI in the
(Continued)	TRANSCEND-CLL Study (N=89)

(Continued) TRANSCEND-CLL Study (N=89)				
Adverse Reaction	Any Grade (%)	Grade 3 or Higher (%)		
Metabolism and nutrition disorders		·		
Decreased appetite	27	4.5		
Tumor lysis syndrome	11	11		
Musculoskeletal and connective tissu	e disorders			
Musculoskeletal pain ⁱ	42	1.1		
Nervous system disorders				
Encephalopathy ^j	44	18		
Headache ^k	28	1.1		
Tremor	24	2.2		
Dizziness ⁱ	21	1.1		
Motor dysfunction ^m	14	2.2		
Peripheral neuropathy ⁿ	12	0		
Taste disorder ^o	10	0		
Psychiatric disorders				
Delirium ^p	20	3.4		
Insomnia	16	1.1		
Anxiety	12	1.1		
Renal and urinary disorders				
Renal failure ^q	15	3.4		
Respiratory, thoracic, and mediastina	l disorders			
Dyspnea ^r	27	8		
Cough ^s	20	0		
Skin and subcutaneous tissue disorde	ers			
Rash ^t	23	2.2		
Vascular disorders				
Hypotension ^u	17	0		
Hemorrhage ^v	16	1.1		
Hypertension	10	4.5		

^a Tachycardia includes atrial fibrillation, atrial flutter, sinus tachycardia, tachycardia, ventricular tachycardia.

^b Diarrhea includes diarrhea.

Т

^c Abdominal pain includes abdominal pain, abdominal tenderness.

^d Fatigue includes asthenia, fatigue, malaise.

- ^e Edema includes ascites, face edema, hypervolemia, edema peripheral, pleural effusion, pulmonary edema, scrotal edema.
- Fever includes pyrexia.
- ^g Grouped per high-level grouped term.
- ^h Upper respiratory tract infection includes acute sinusitis, nasal congestion, nasopharyngitis, rhinitis, rhinovirus infection, sinusitis, upper respiratory tract infection.
- ⁱ Musculoskeletal pain includes arthralgia, arthritis, back pain, bone pain, flank pain, musculoskeletal chest pain, myalgia, neck pain, non-cardiac chest pain, pain in extremity.
- ^j Encephalopathy includes cognitive disorder, confusional state, disturbance in attention, encephalopathy, lethargy, memory impairment, mental status changes, somnolence.
- ^k Headache includes headache, sinus headache.
- ¹ Dizziness includes dizziness, presyncope, syncope, vertigo.
- ^m Motor dysfunction includes asterixis, muscle spasms, muscular weakness, myoclonus.
 ⁿ Peripheral neuropathy includes hyperesthesia, hypoesthesia, neuralgia, neuropathy
- peripheral, paresthesia, peripheral sensory neuropathy.
- ^o Taste disorder includes dysgeusia, taste disorder.
- P Delirium includes agitation, delirium, hallucination, hallucination visual, intensive care unit delirium, irritability, restlessness.
- ^q Renal failure includes acute kidney injury, chronic kidney disease, renal failure.
- ^r Dyspnea includes dyspnea, respiratory failure, tachypnea, wheezing.
- ^s Cough includes cough, productive cough, upper-airway cough syndrome.
- ^t Rash includes dermatitis contact, erythema, petechiae, rash, rash macular, rash maculo-papular, scrotal erythema, seborrheic keratosis, urticaria.
- ^u Hypotension includes hypotension, orthostatic hypotension.
- Y Hemorrhage includes epistaxis, hemorrhage intracranial, hematoma, hematuria, hemorrhoidal hemorrhage, intraventricular hemorrhage, lower gastrointestinal hemorrhage, traumatic hemothorax.

Other clinically important adverse reactions in <10% of patients included the following:

- Cardiac disorders: Chest discomfort (4.5%), Arrhythmia (2.2%).
- Eye disorders: Vision blurred (4.5%).
- Gastrointestinal disorders: Dyspepsia (9%), abdominal distension (7%).
- Immune system disorders: Hemophagocytic lymphohistiocytosis [IEC-HS] (3.4%).
- Infections and infestations: Fungal infection (9%), pneumonia (7%), urinary tract infection (7%), bacterial infectious disorders (4.5%), sepsis (2.2%).

- Injury, poisoning and procedural complications: Infusion related reaction (1.1%).
- Nervous system disorders: Aphasia (8%), Ataxia (3.4%), Paresis (3.4%), Seizure (1.1%).
- Psychiatric disorders: Affective disorder (7%).
- Respiratory, thoracic, and mediastinal disorders: Oral pain (8%), hypoxia (8%).
- Skin and subcutaneous tissue disorders: Ecchymosis (8%), xerosis (7%), pruritus (6%).
- Vascular disorder: Thrombosis (6%).

Table 11: Grade 3 or 4 Laboratory Abnormalities Occurring in ≥10% of Patients Treated with BREYANZI in the TRANSCEND-CLL Study

Laboratory Abnormality ^a	Grade 3 or 4 (%) ^b
Neutrophil count decreased	94
Lymphocyte count decreased	87
White blood cell decreased	85
Platelet count decreased	53
Hemoglobin decreased	49
Hypophosphatemia	24
Hyponatremia	18
Hypocalcemia	11

^a Baseline lab values were assessed prior to lymphodepleting chemotherapy.

^b The denominator ranged from 85 to 89 for other measurements, based on the number of patients with a baseline value and at least one post-treatment value for the particular lab.

Grade 4 laboratory abnormalities in \geq 10% of patients were neutrophil count decreased (81%), lymphocyte count decreased (73%), white blood cell decreased (72%), and platelet count decreased (30%).

Relapsed or Refractory FL

TRANSCEND-FL

The safety of BREYANZI was evaluated in the TRANSCEND-FL study, in which 107 adult patients with relapsed or refractory FL after two or more prior lines of therapy received a single dose of BREYANZI *[see Clinical Studies (14.3)]*. Patients with a history of CNS disorders and active autoimmune disease requiring immunosuppressive therapy were ineligible. The median age was 62 years (range: 23 to 80 years), 38% were female, and ECOG performance status was 0 in 61% and 1 in 39% of patients; 56% were White, 3% were Black, 9% were Asiar; 5% were Hispanic and 69% were non-Hispanic.

Serious adverse reactions occurred in 26% of patients. The most common nonlaboratory serious adverse reactions (>2%) were CRS, aphasia, febrile neutropenia, fever, and tremor.

Table 12 presents selected nonlaboratory adverse reactions reported in patients treated with BREYANZI, and Table 13 describes selected new or worsening Grade 3 or 4 laboratory abnormalities.

The most common nonlaboratory adverse reactions (\geq 20%) were CRS, headache, musculoskeletal pain, fatigue, constipation, and fever.

Table 12: Adverse Reactions* in ≥10% of Patients Treated with BREYANZI in the TRANSCEND-FL Study (N=107)

Adverse Reaction	Any Grade (%)	Grade 3 or Higher (%)
Gastrointestinal disorders		
Constipation	21	0
Diarrhea	15	0
General disorders and administration s	ite conditions	
Fatigue ^a	23	0
Fever ^b	20	0
Immune system disorders		
Cytokine release syndrome	59	0.9
Infections and infestations		
Infection with pathogen unspecified ^c	16	4.7
Musculoskeletal and connective tissue	disorders	
Musculoskeletal pain ^d	28	0
Nervous system disorders		
Headache	28	0
Tremor	15	0

* Includes adverse reactions up to 90 days following treatment with BREYANZI.

^a Fatigue includes asthenia, fatigue, somnolence.

^b Fever includes pyrexia.

^c Grouped per high-level grouped term.

^d Musculoskeletal pain includes arthralgia, back pain, bone pain, muscle spasms, flank pain, pain in extremity, myalgia, musculoskeletal pain, neck pain, muscle tightness, groin pain, tendonitis, and ligament sprain. Other clinically important adverse reactions in <10% of patients included the following:

- Blood and lymphatic system disorders: Febrile neutropenia (6%).
- Cardiac disorders: Tachycardia (2.8%).
- Eye disorders: Vision blurred (1.9%).
- Gastrointestinal disorders: Nausea (9%), abdominal pain (4.7%), vomiting (3.7%).
 - General disorders and administration site conditions: Edema (4.7%), chills (3.7%).
- Infections and infestations: Upper respiratory tract infection (8%), bacterial infectious disorders (6%), urinary tract infection (4.7%), viral infectious disorders (1.9%), pneumonia (1.9%), sepsis (0.9%).
- Nervous system disorders: Encephalopathy (7%), aphasia (8%), dizziness (4.7%), motor dysfunction (3.7%), ataxia (3.7%), neuropathy peripheral (4.7%).
- Psychiatric disorders: Insomnia (4.7%), delirium (4.7%), anxiety (1.9%).
- Renal and urinary disorders: Acute kidney injury (0.9%).
- Respiratory, thoracic and mediastinal disorders: Cough (7%), dyspnea (1.9%), hypoxia (1.9%).
- Vascular disorders: Hypotension (8%), hypertension (6%), thrombosis (4.7%).
- Skin and subcutaneous tissue disorders: Rash (7%).

Table 13:	Grade 3 or 4 Laboratory Abnormalities* Occurring in ≥10% of Patients
	Treated with BREYANZI in the TRANSCEND-FL Study (N=107)

Laboratory Abnormality ^a	Grade 3 or 4 (%) ^b
Lymphocyte count decreased	94
Neutrophil count decreased	79
White blood cell decreased	74
Platelet count decreased	17

* Includes laboratory abnormalities up to 90 days following treatment with BREYANZI.

^a Baseline lab values were assessed prior to lymphodepleting chemotherapy.

^b Based on the number of patients with a baseline value and at least one post treatment value for the particular lab.

Grade 4 laboratory abnormalities in \geq 10% of patients were lymphocyte count decreased (78%), neutrophil count decreased (61%), white blood cell decreased (41%), and platelet count decreased (11%).

Relapsed or Refractory MCL

TRANSCEND-MCL Cohort

The safety of BREYANZI was evaluated in the TRANSCEND Study-MCL Cohort, in which 88 adult patients with relapsed or refractory MCL received a single dose of CAR-positive viable T cells [see Clinical Studies (14.4)]. Patients with a history of CNS disorders (such as seizures or cerebrovascular ischemia) or autoimmune disease requiring systemic immunosuppression were ineligible. The trial required left ventricular ejection fraction \geq 40%, adequate oxygen saturation on room air with \leq Grade 1 dyspnea, ALT \leq 5 x ULN, total bilirubin <2.0 mg/dL, creatinine clearance >30 mL/min, and adequate bone marrow function to receive lymphodepleting chemotherapy. The median age of the study population was 69 years (range: 36 to 86 years); 76% were male, 88% were White, 6% were Asian and 2.3% were Black. Four percent were Hispanic, and 92% were non-Hispanic. The ECOG performance status at screening was 0 in 54% of patients, and 1 in 46% of patients.

Serious adverse reactions occurred in 53% of patients. The most common nonlaboratory serious adverse reactions (>2%) were CRS, confusional state, fever, encephalopathy, mental status changes, pleural effusion, upper respiratory tract infection, and decreased appetite. Fatal adverse reactions occurred in 4.5% of patients.

Table 14 presents selected nonlaboratory adverse reactions reported in patients treated with BREYANZI, and Table 15 describes selected new or worsening Grade 3 or 4 laboratory abnormalities.

The most common nonlaboratory adverse reactions (\geq 20%) were CRS, fatigue, musculoskeletal pain, encephalopathy, edema, headache, and decreased appetite.

Table 14: Adverse Reactions* in ≥10% of Patients Treated with BREYANZI in the TRANSCEND-MCL Cohort (N=88)

Adverse Reaction	Any Grade (%)	Grade 3 or Higher (%)
Cardiac disorders		
Tachycardia ^a	17	3.4
Gastrointestinal disorders		
Nausea	18	2.3
Diarrhea	17	0
Abdominal pain ^b	15	3.4
Constipation	14	0
General disorders and administration s	ite conditions	
Fatigue ^c	39	2.3
Edema ^d	25	1.1
Fever ^e	17	0
Chills	11	0
Immune system disorders		
Cytokine release syndrome	61	1.1
Infections and infestations		
Infection with pathogen unspecified ^f	16	6
Upper respiratory tract infection ^g	13	2.3
Metabolism and nutrition disorders		
Decreased appetite	21	4.5
Musculoskeletal and connective tissue	disorders	
Musculoskeletal pain ^h	38	2.3
Nervous system disorders		
Encephalopathy ⁱ	30	9
Headache	23	0
Dizziness ^j	11	2.3
Motor dysfunction ^k	11	0
Tremor	11	0
Psychiatric disorders		
Insomnia ^l	14	0
Anxiety	13	1.1
Renal and urinary disorders		
Renal failure ^m	15	0
Respiratory, thoracic, and mediastinal	disorders	
Dyspnea ⁿ	11	0
Cough	10	0
Skin and subcutaneous tissue disorder	s	
Rash ^o	11	1.1
Vascular disorders		
Hypotension ^p	15	0
Hemorrhage ^q	10	0
Hypertension	10	3.4

* Includes adverse reactions up to 90 days following treatment with BREYANZI.

^a Tachycardia includes atrial fibrillation, sinus tachycardia, tachycardia, ventricular tachycardia.

^b Abdominal pain includes abdominal discomfort, abdominal distension, abdominal pain, abdominal pain upper.

^c Fatigue includes asthenia, fatigue, malaise.

^d Edema includes hypervolemia, localized edema, edema, edema peripheral, peripheral swelling, pleural effusion, pulmonary edema.

e Fever includes pyrexia.

^f Grouped per high-level grouped term.

- ^g Upper respiratory tract infection includes nasal congestion, rhinitis, rhinorrhea, rhinovirus infection, upper respiratory tract infection.
- ^h Musculoskeletal pain includes arthralgia, back pain, bone pain, musculoskeletal pain, myalgia, neck pain, pain in extremity.
- ¹ Encephalopathy includes confusional state, depressed level of consciousness, encephalopathy, lethargy, memory impairment, mental status changes, somnolence.
- ¹ Dizziness includes dizziness, dizziness postural, syncope, vertigo.

^k Motor dysfunction includes fine motor skill dysfunction, muscle spasms, muscle tightness, muscular weakness.

- ¹ Insomnia includes insomnia, sleep disorder.
- ^m Renal failure includes acute kidney injury, blood creatinine increased.

ⁿ Dyspnea includes dyspnea, tachypnea, wheezing.

 Rash includes dermatitis contact, rash, rash erythematous, rash macular, rash maculo-papular, rash pruritic.

Table 14: Adverse Reactions* in ≥10% of Patients Treated with BREYANZI in the (Continued) TRANSCEND-MCL Cohort (N=88)

- ^p Hypotension includes hypotension, orthostatic hypotension.
- ^q Hemorrhage includes catheter site hemorrhage, epistaxis, hematoma, hematuria, hemorrhage, hemorrhoidal hemorrhage, rectal hemorrhage.

Other clinically important adverse reactions in <10% of patients included the following:

- Blood and lymphatic system disorders: Febrile neutropenia (6%).
- Cardiac disorders: Arrhythmia (2.3%).
- Eye disorders: Vision blurred (3.4%).
- Gastrointestinal disorders: Vomiting (6%).
- Infections and infestations: Bacterial infection (9%), viral infection (9%), fungal infection (8%), urinary tract infection (6%), sepsis (3.4%), pneumonia (2.3%).
- Injury, poisoning and procedural complications: Infusion related reaction (4.5%).
- Metabolism and nutrition disorders: Tumor lysis syndrome (2.3%).
- Nervous system disorders: Neuropathy peripheral (9%), aphasia (8%), ataxia (4.5%), cerebral infarction (1.1%), seizure (1.1%).
- Psychiatric disorders: Delirium (7%).
- Respiratory, thoracic, and mediastinal disorders: Hypoxia (3.4%).
- Vascular disorder: Thrombosis (4.5%).

Table 15: Grade 3 or 4 Laboratory Abnormalities* Occurring in ≥10% of Patients Treated with BREYANZI in the TRANSCEND-MCL Cohort

Laboratory Abnormality ^a	Grade 3 or 4 (%) ^b
Lymphocyte count decreased	89
Neutrophil count decreased	85
White blood cell decreased	83
Platelet count decreased	39
Hemoglobin decreased	33
Uric acid increased	10
Sodium decreased	10

* Includes lab abnormalities up to 90 days following treatment with BREYANZI.

^a Baseline lab values were assessed prior to lymphodepleting chemotherapy.

^b The denominator ranged from 87 to 88 for laboratory measurements, based on the number of patients with a baseline value and at least one post-treatment value for the particular lab.

Grade 4 laboratory abnormalities in \geq 10% of patients were lymphocyte count decreased (84%), neutrophil count decreased (52%), white blood cell decreased (52%), and platelet count decreased (22%).

6.2 Postmarketing Experience

Because adverse events to marketed products are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to product exposure.

The following adverse events have been identified during postmarketing use of BREYANZI.

Nervous System Disorder: Immune effector cell-associated neurotoxicity syndrome (ICANS).

Neoplasms: T cell malignancies

7 DRUG INTERACTIONS

7.1 Drug-Laboratory Test Interactions

HIV and the lentivirus used to make BREYANZI have limited, short spans of identical genetic material (RNA). Therefore, some commercial HIV nucleic acid tests may yield false-positive results in patients who have received BREYANZI.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no available data with BREYANZI use in pregnant women. No animal reproductive and developmental toxicity studies have been conducted with BREYANZI to assess whether it can cause fetal harm when administered to a pregnant woman.

It is not known if BREYANZI has the potential to be transferred to the fetus. Based on the mechanism of action, if the transduced cells cross the placenta, they may cause fetal toxicity, including B-cell lymphocytopenia and hypogammaglobulinemia. Therefore, BREYANZI is not recommended for women who are pregnant, and pregnancy after BREYANZI infusion should be discussed with the treating physician.

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

8.2 Lactation

Risk Summary

There is no information regarding the presence of BREYANZI in human milk, the effect on the breastfed infant, and the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for BREYANZI and any potential adverse effects on the breastfed infant from BREYANZI or from the underlying maternal condition.

8.3 Females and Males of Reproductive Potential

Pregnancy Testing

Pregnancy status of females with reproductive potential should be verified. Sexually active females of reproductive potential should have a pregnancy test prior to starting treatment with BREYANZI.

Contraception

See the prescribing information for fludarabine and cyclophosphamide for information on the need for effective contraception in patients who receive lymphodepleting chemotherapy. There are insufficient exposure data to provide a recommendation concerning duration of

There are insufficient exposure data to provide a recommendation concerning duration o contraception following treatment with BREYANZI.

Infertility

There are no data on the effects of BREYANZI on fertility.

8.4 Pediatric Use

The safety and efficacy of BREYANZI have not been established in pediatric patients.

8.5 Geriatric Use

In clinical trials of BREYANZI, 111 (41%) of 268 patients with two or more prior lines of therapy for LBCL, and 89 (59%) of 150 patients with one prior line of therapy for LBCL, were 65 years of age or older; 27 (10%) and 28 (19%) were 75 years of age or older, respectively. In patients with CLL/SLL, 51 (57%) of 89 were 65 years of age or older, and 9 (10%) were 75 years of age or older. In patients with FL, 42 (39%) of 107 were 65 years of age or older, and 10 (9%) were 75 years of age or older. In patients with MCL, 64 (73%) of 88 patients were 65 years of age or older, and 18 (21%) were 75 years of age or older. No clinically important differences in safety or effectiveness of BREYANZI were observed between patients aged \geq 65 and younger patients.

11 DESCRIPTION

BREYANZI (lisocabtagene maraleucel) is a CD19-directed genetically modified autologous T cell immunotherapy administered as a defined composition of CAR-positive viable T cells (consisting of CD8 and CD4 components). The CAR is comprised of the FMC63 monoclonal antibody-derived single-chain variable fragment (scFv), IgG4 hinge region, CD28 transmembrane domain, 4-1BB (CD137) costimulatory domain, and CD3 zeta activation domain. In addition, BREYANZI includes a nonfunctional truncated epidermal growth factor receptor (EGFRt) that is co-expressed on the cell surface with the CD19-specific CAR.

BREYANZI is a T cell product. BREYANZI is prepared from the patient's T cells, which are obtained via a standard leukapheresis procedure. The purified CD8-positive and CD4-positive T cells are separately activated and transduced with the replication-incompetent lentiviral vector containing the anti-CD19 CAR transgene. The transduced T cells are expanded in cell culture, washed, formulated into a suspension, and cryopreserved as separate CD8 and CD4 component vials that together constitute a single dose of BREYANZI. The product must pass a sterility test before release for shipping as a frozen suspension in patient-specific vials. The product is thawed prior to administration [see Dosage and Administration (2.2) and How Supplied/Storage and Handling (16)].

The BREYANZI formulation contains 75% (v/v) Cryostor[®] CS10 [containing 7.5% dimethylsulfoxide (v/v)], 24% (v/v) Multiple Electrolytes for Injection, Type 1, 1% (v/v) of 25% albumin (human).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

BREYANZI is a CD19-directed genetically modified autologous cell immunotherapy administered as a defined composition to reduce variability in CD8-positive and CD4-positive T cell dose. The CAR is comprised of an FMC63 monoclonal antibody-derived single chain variable fragment (scFv), IgG4 hinge region, CD28 transmembrane domain, 4-1BB (CD137) costimulatory domain, and CD3 zeta activation domain. CD3 zeta signaling is critical for initiating activation and antitumor activity, while 4-1BB (CD137) signaling enhances the expansion and persistence of BREYANZI.

CAR binding to CD19 expressed on the cell surface of tumor and normal B cells induces activation and proliferation of CAR-T cells, release of pro-inflammatory cytokines, and cytotoxic killing of target cells.

12.2 Pharmacodynamics

Following BREYANZI infusion, pharmacodynamic responses were evaluated over a 4-week period by measuring transient elevation of soluble biomarkers such as cytokines, chemokines, and other molecules. Peak elevation of soluble biomarkers was observed within the first 14 days after BREYANZI infusion and returned to baseline levels within 28 days.

B-cell aplasia, defined as CD19+ B cells comprising less than 3% of peripheral blood lymphocytes, is an on-target effect of BREYANZI. B-cell aplasia was observed in the majority of patients for up to 1 year following BREYANZI infusion.

12.3 Pharmacokinetics

Following infusion, BREYANZI exhibited an initial expansion followed by a bi-exponential decline.

Relapsed or Refractory LBCL

The median time of maximal expansion in peripheral blood occurred 10-12 days after infusion. BREYANZI was present in peripheral blood for an estimated median of 12.1 months (range: 0.1+ to 24.2+ months).

Among patients who received two or more prior lines of therapy for LBCL (TRANSCEND), responders (N=135) had a 2.3-fold higher median C_{max} than nonresponders (N=37) (35,335 vs. 15,527 copies/µg). Responders had a 1.8-fold higher median AUC_{0-28d} than nonresponders (273,552 vs. 155,240 day*copies/µg).

Patients <65 years old (N=142) had a 3.1-fold and 2.3-fold higher median C_{max} and AUC_{0-28d}, respectively, compared to patients ≥65 years old (N=96). Sex, race, ethnicity, and body weight did not show clear relationships to C_{max} and AUC_{0-28d}.

Relapsed or Refractory CLL/SLL

The median time of maximal expansion in peripheral blood occurred 14 days after infusion. BREYANZI was present in peripheral blood for an estimated median of 12.0 months (range: 0.1+ to 30.1+ months).

Among patients who received prior therapy for CLL/SLL (TRANSCEND-CLL), responders (N=27) had a 2.0-fold higher median C_{max} than nonresponders (N=25) (99,559 vs. 48,948 copies/µg). Responders had a 1.9-fold higher median AUC_{0-28d} than nonresponders (793,893 vs. 408,307 day*copies/µg).

Relapsed or Refractory FL

The median time of maximal expansion in peripheral blood occurred 10 days after infusion. Median C_{max} and AUC_{0-28d} are 30,530 copies/µg and 253,400 day*copies/µg, respectively. BREYANZI was present in peripheral blood for an estimated median of 12.0 months (range: 0.3+ to 24.0+ months).

Relapsed or Refractory MCL

The median time of maximal expansion in peripheral blood occurred 10 days after infusion. Median C_{max} and AUC_{0-28d} were 30,968 copies/µg and 375,006 day*copies/µg, respectively. BREYANZI was present in peripheral blood for an estimated median of 17.9 months (range: 0.1+ to 24.2+ months).

Patients receiving medications for CRS and/or neurologic toxicities

In general, patients with higher CAR-T cell expansion tended to have higher rates of CRS and neurologic toxicities. Some patients required tocilizumab and/or corticosteroids for the management of CRS or neurologic toxicities [see Dosage and Administration (2.3)]. BREVANZI continued to expand and persist in patients who received tocilizumab and/or corticosteroids treatment. In TRANSCEND, patients treated with tocilizumab (N=49) had a 3.6-fold and 3.7-fold higher median Cmax and AUC0-28d of BREVANZI, respectively, compared to patients who id not receive tocilizumab (N=50) had a 3.8-fold and 3.7-fold higher median Cmax and AUC0-28d of BREVANZI, respectively, compared to patients who did not receive corticosteroids (N=188).

12.6 Immunogenicity

BREYANZI has the potential to induce anti-product antibodies. The immunogenicity of BREYANZI has been evaluated using an electrochemiluminescence (ECL) immunoassay for the detection of binding antibodies against the extracellular CDI9-binding domain of BREYANZI. Pre-existing anti-product antibodies were detected in 11% (28/261) in TRANSCEND, 1% (1/89) in TRANSFORM, 0% (0/51) in PILOT, 2% (2/86) in TRANSCEND-CLL, 2% (2/102) in TRANSCEND-FL, and 13% (11/87) in TRANSCEND-MCL Cohort of patients. Treatment-induced or treatment-boosted anti-product antibodies were detected in 11% (27/257) in TRANSCEND, 1% (1/89) in TRANSFORM, 2% (1/49) in PILOT, 7% (6/84) in TRANSCEND-CLL, 18% (18/100) in TRANSCEND-FL, and 18% (15/85) in TRANSCEND-MCL Cohort of patients. Due to the small number of patients who had anti-product antibodies, the relationship between anti-product antibody status and efficacy, safety, or pharmacokinetics was not conclusive.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No carcinogenicity or genotoxicity studies have been conducted with BREYANZI. No studies have been conducted to evaluate the effects of BREYANZI on fertility. *In vitro* studies with BREYANZI manufactured from healthy donors and patients showed no evidence for transformation and/or immortalization and no preferential integration near genes associated with oncogenic transformation.

14 CLINICAL STUDIES

14.1 Relapsed or Refractory Large B-Cell Lymphoma

Relapsed or Refractory LBCL After One Line of Therapy

TRANSFORM

A randomized, open-label, multicenter trial evaluated the efficacy of BREYANZI in adult patients with relapsed or refractory LBCL after first-line chemoimmunotherapy (TRANSFORM; NCT03575351). Patients had not yet received treatment for relapsed or refractory lymphoma, were potential candidates for autologous HSCT, and were required to have primary refractory disease or relapse within 12 months from complete response (CR) to initial chemoimmunotherapy. Eligibility criteria required adequate organ function and blood counts for HSCT.

In total, 184 patients were randomized in a 1:1 ratio to receive a single infusion of BREYANZI (planned dose, 100×10^6 CAR-positive viable T cells) or to receive standard therapy consisting of 3 cycles of chemoimmunotherapy followed by high-dose therapy and autologous HSCT in patients who attained CR or PR. All patients underwent leukapheresis prior to randomization.

Patients randomized to BREYANZI were to receive lymphodepleting chemotherapy consisting of fludarabine 30 mg/m²/day and cyclophosphamide 300 mg/m²/day concurrently for 3 days followed by BREYANZI infusion 2 to 7 days after completion of lymphodepleting chemotherapy. Bridging chemotherapy was permitted between leukapheresis and the start of lymphodepleting chemotherapy. BREYANZI was administered in the inpatient (79%) and outpatient (21%) setting.

In the overall study population, the median age was 59 years (range: 20 to 75 years), 57% were male, 59% were White, 10% were Asian, and 4% were Black. Diagnoses included de novo DLBCL NOS (55%), high-grade B-cell lymphoma (23%), primary mediastinal large B-cell lymphoma (10%), and DLBCL arising from indolent lymphoma (8%). Of these patients, 73% had primary refractory disease to last therapy and 27% had relapsed disease within 12 months of achieving CR to first-line therapy.

Of 92 patients randomized to receive BREYANZI, 89 (97%) received BREYANZI. The median time from leukapheresis to product availability was 26 days (range: 19 to 84 days), and the median time from leukapheresis to product infusion was 36 days (range: 25 to 91 days). Fifty-eight (63%) patients received bridging therapy. One patient received a nonconforming product (manufacturing failure; 1.1%).

Of the 92 patients randomized to receive standard therapy, 91 started treatment and 43 (47%) received high-dose therapy and HSCT. The most common reason for not receiving HSCT was lack of efficacy of the salvage chemotherapy.

The primary efficacy measure was event-free survival (EFS) as determined by an independent review committee (IRC). Other efficacy measures included progression-free survival. Efficacy is summarized in Table 16 and Figure 1. The estimated 1-year EFS was 45% [95% Cl: 29, 59] in the BREYANZI arm and 24% [95% Cl: 14, 35] in the standard therapy arm.

Of the 92 patients in the BREYANZI arm, the estimated median duration of response (DOR) was not reached (95% CI: 7.9 months, NR) in patients who achieved CR (N=61) and 2.3 months (95% CI: 2.1, NR) in patients who achieved a best response of PR (N=18).

An interim analysis of overall survival was conducted at the time of the primary EFS analysis. The interim analysis of overall survival did not meet the criteria for statistical significance. Forty-six patients randomized to the standard therapy arm (50%) subsequently received BREYANZI on protocol.

Table 16: Efficacy Results in Patients with Relapsed or Refractory LBCL (TRANSFORM Study)

Outcome ^a	BREYANZI Arm (N=92)	Standard Therapy Arm (N=92)
Event-Free Survival ^b		
Number of events, n (%)	35 (38)	63 (69)
Median, months [95% CI] ^c	10.1 [6.1, NR]	2.3 [2.2, 4.3]
Hazard ratio [95% CI] ^d	0.34 [0.22, 0.52]	
One-sided p-value	<0.0001 ^f	
Complete Response Rate, % [95% CI]	66 [56, 76]	39 [29, 50]
Difference in CR rate, % [95% CI]	27 [12, 41]	
One-sided p-value ^e	<0.0001 ^f	
Progression-Free Survival		
Number of events, n (%)	28 (30)	43 (47)
Median, months [95% CI] ^c	14.8 [6.6, NR]	5.7 [3.9, 9.4]
Hazard ratio [95% CI] ^d	0.41 [0.25, 0.66]	
One-sided p-value	0.0001 ^f	

NR = not reached; CI = confidence interval.

^a Per the Lugano criteria, as assessed by an IRC.

^b EFS is defined as time from randomization to the earliest date of disease progression or relapse, death from any cause, failure to achieve CR or PR by 9 weeks post-randomization, or start of new lymphoma therapy due to efficacy concerns.

^c Kaplan-Meier estimate.

^d Based on a stratified Cox proportional hazards model. For all stratified analyses, stratification was based on response to first-line therapy (primary refractory vs relapsed) and second-line age-adjusted International Prognostic Index.

^e Cochran-Mantel-Haenszel test.

^f p-value is compared with 0.012 of the allocated alpha for this pre-specified interim analysis.





PILOT

The efficacy of BREYANZI was evaluated in a single-arm, open-label, multicenter trial (PILOT; NCT03483103) in transplant-ineligible patients with relapsed or refractory LBCL after one line of chemoimmunotherapy. The study enrolled patients who were not eligible for high-dose therapy and autologous HSCT due to organ function or age, while also having adequate organ function for CAR-T cell therapy. The study required at least one of the following criteria: age >70 years, adjusted diffusing capacity of the lung for carbon monoxide (DLCO) \leq 60%; LVEF <50%; creatinine clearance <60 mL/min; AST or ALT greater than 2 \times ULN, or ECOG performance status of 2. The planned dose of BREYANZI was 100 \times 10⁶ CAR-positive viable T cells. Bridging therapy for disease control was permitted between leukapheresis and the start of lymphodepleting chemotherapy. Of the 61 patients treated with BREYANZI, 32 (53%) received bridging therapy.

BREYANZI was administered 2 to 7 days following completion of lymphodepleting chemotherapy. The lymphodepleting chemotherapy regimen consisted of fludarabine 30 mg/m^2 /day and cyclophosphamide 300 mg/m^2 /day concurrently for 3 days. BREYANZI was administered in the inpatient (67%) and outpatient (33%) setting.

Of 74 patients who underwent leukapheresis, 61 (82%) received BREYANZI and comprise the main efficacy population; 1 (1.4%) received CAR-positive T cells that did not meet the product specifications for BREYANZI (manufacturing failure); and 12 (16%) did not receive CAR-positive T cells for other reasons.

Of the 61 patients who received BREYANZI, the median age was 74 years (range: 53 to 84 years), 61% were male, 89% were White, 3% were Asian, and 2% were Black. Diagnoses included de novo DLBCL NOS (51%), high-grade B-cell lymphoma (33%), and DLBCL arising from follicular lymphoma (15%). Of these patients, 53% had primary refractory disease, 23% had relapse within 12 months of completing first-line therapy, and 25% had relapse >12 months after first-line therapy.

Efficacy was based on CR rate and DOR, as determined by an independent review committee (IRC) using 2014 Lugano criteria (Tables 17 and 18). The median time to CR was 1 month (range 0.8 to 6.9 months).

Table 17:	Response Rate in Rela	psed or Refractory	/ LBCL (PILOT Stu	(vbi

Dutcomeª	BREYANZI-Treated (N=61)	All Leukapheresed Patients (N=74)
Overall Response, n (%)	49 (80%)	50 (68%)
[95% CI] ^b	[68%, 89%]	[56%, 78%]
Complete Response	33 (54%)	34 (46%)
[95% CI]	[41%, 67%]	[34%, 58%]
Partial Response	16 (26%)	16 (22%)
[95% CI]	[16%, 39%]	[13%, 33%]

CI=confidence interval; NR=Not reached.

^a Per the Lugano criteria, as assessed by an IRC.

^b 2-sided 95% exact Clopper-Pearson confidence intervals.

BREYANZI[®] (lisocabtagene maraleucel)

Table 18: Duration of Response in the PILOT Study

Outcome ^a	BREYANZI-Treated (N=61) 49	
Number of Responders		
DOR		
Median [95% CI], months ^b	11.2 [5.1, NR]	
Range, months	0.0 ⁺ to 22.8 ⁺	
DOR if Best Response is CR		
Median [95% CI], months	NR [11.2, NR]	
Range, months	2.0 ⁺ to 22.8 ⁺	
Rate at 6 months [95% CI] ^c	83% [64, 93]	
Rate at 12 months [95% CI] ^c	68% [45, 83]	
DOR if Best Response is PR		
Median [95% CI], months	2.1 [1.4, 2.3]	
Range, months	0.0+ to 7.9	
Rate at 6 months [95% CI] ^c	8.2% [0.5, 30.5]	

DOR = duration of response; CI = confidence interval; CR = complete response; PR = partial response; NR = not reached.

^a Per the Lugano criteria, as assessed by an IRC.

^b Kaplan-Meier method is used to obtain 2-sided 95% confidence intervals.

^c Kaplan-Meier estimate.

+ Indicates a censored value.

Relapsed or Refractory LBCL After Two or More Lines of Therapy

TRANSCEND

The efficacy of BREYANZI was evaluated in an open-label, multicenter, single-arm trial (TRANSCEND; NCT02631044) in adult patients with relapsed or refractory large B-cell non-Hodgkin lymphoma after at least 2 lines of therapy. The study included patients with ECOG performance status \leq 2, prior autologous and/or allogeneic HSCT, and secondary CNS lymphoma involvement. The study excluded patients with a creatinine clearance of less than 30 mL/min, ALT >5 times the ULN, or LVEF <40%. There was no prespecified threshold for blood counts; patients were eligible to enroll if they were assessed by the investigator to have adequate bone marrow function to receive lymphodepleting chemotherapy. Bridging therapy for disease control was permitted between apheresis and the start of lymphodepleting chemotherapy for treatment of CNS involvement with lymphoma.

BREYANZI was administered 2 to 7 days following completion of lymphodepleting chemotherapy. The lymphodepleting chemotherapy regimen consisted of fludarabine 30 mg/m^2 /day and cyclophosphamide 300 mg/m^2 /day concurrently for 3 days. BREYANZI was administered in the inpatient and outpatient setting.

Of 299 patients who underwent leukapheresis for whom BREYANZI was manufactured in the dose range of 50 to 110 \times 10^6 CAR-positive viable T cells:

- 44 (15%) did not receive CAR-positive T cells either due to manufacturing failures (n=2), death (n=29), disease complications (n=6), or other reasons (n=7).
- 204 (68%) received BREYANZI in the intended dose range, of whom 192 were evaluable for efficacy (main efficacy population); 12 were not evaluable due to absence of PET positive disease at study baseline or after bridging therapy.
- 51 (17%) either received BREYANZI outside of the intended dose range (n=26) or received CAR-positive T cells that did not meet the product specifications for BREYANZI (manufacturing failures; n=25).

Of the 192 patients in the main efficacy population, the median age was 63 years (range: 18 to 86 years), 69% were male, 84% were White, 6% were Black, and 4.7% were Asian. The median number of prior therapies was 3 (range: 1 to 8). Diagnoses were de novo DLBCL (53%), DLBCL transformed from indolent lymphoma (25%), high-grade B-cell lymphoma (14%), primary mediastinal large B-cell lymphoma (7%), follicular lymphoma, grade 3B (1.0%). Of these patients, 64% had disease refractory to last therapy, 53% had primary refractory disease, 37% had prior HSCT and 2.6% had CNS involvement.

Efficacy was based on CR rate and DOR, as determined by an IRC using 2014 Lugano criteria (Tables 19 and 20). The median time to first response (CR or partial response [PR]) was 1.0 month (range: 0.7 to 8.9 months). The median time to first CR was 1.0 month (range 0.8 to 12.5 months). Of the 104 patients who achieved CR, 23 initially had stable disease (6 patients) or PR (17 patients), with a median time to improvement of 2.2 months (range: 0.7 to 1.6 months).

Table 19:	Response Rate in Main Efficac	v Population	(TRANSCEND Study)

	BREYANZI-Treated N=192
Overall Response Rate ^a , n	141 (73%)
[95% CI]	[67%, 80%]
Complete Response, n	104 (54%)
[95% CI]	[47%, 61%]
Partial Response, n	37 (19%)
[95% CI]	[14%, 26%]
Cl = confidence interval. ^a Per the Lugano criteria, as assessed by an IBC.	

^a Per the Lugano criteria, as assessed by an IR

Table 20: Duration of Response in the TRANSCEND Study

	BREYANZI-Treated ^a N=192	
Number of Responders	141	
DOR (Months)		
Median [95% CI] ^b	16.7 [5.3, NR]	
Range	0.0 ⁺ to 23.5 ⁺	
DOR if Best Response is CR (Months)		
Median [95% CI]	NR [16.7, NR]	
Range	0.7 ⁺ to 23.5 ⁺	
DOR if Best Response is PR (Months)		
Median [95% CI]	1.4 [1.1, 2.2]	
Range	0.0 ⁺ to 22.8 ⁺	

DOR = duration of response; CI = confidence interval; CR = complete response; PR = partial response; NR = not reached.

^a Evaluable for efficacy.

^b KM method was used to obtain 2-sided 95% confidence intervals.

+ Indicates a censored value.

Response durations were longer in patients who achieved a CR, as compared to patients with a best response of PR (Table 20). Of the 104 patients who achieved CR, 68 (65%) had remission lasting at least 6 months and 64 (62%) had remission lasting at least 9 months.

Of the 287 patients who underwent leukapheresis and had radiographically evaluable disease, 27 additional patients achieved a response, apart from the responses noted in Table 19. The IRC-assessed overall response rate in the leukapheresed population (n=287) was 59% (95% CI: 53, 64), with a CR rate of 43% (95% CI: 37, 49) and PR rate of 15% (95% CI: 11, 20). These efficacy results include responses that may have been contributed solely by bridging therapy, responses after receipt of product outside of the intended dose range, and responses to product that did not meet release specifications.

14.2 Relapsed or Refractory Chronic Lymphocytic Lymphoma or Small Lymphocytic Lymphoma

TRANSCEND-CLL

The efficacy of BREYANZI was evaluated in a phase 1/2, open-label, multicenter, single-arm trial (TRANSCEND-CLL; NCT0333198) in adult patients with R/R CLL or SLL who had received at least 2 prior lines of therapy including a BTK inhibitor and a BCL-2 inhibitor. Patients with del(17p), complex karyotype, and unmutated immunoglobulin heavy chain variable region (IGHV) were included in the study. The study enrolled patients with ECOG performance status of <1. The study excluded patients with a creatinine clearance of less than 30 mL/min, ALT >5 times the ULN (except for subjects with leukemic infiltration of the liver), or LVEF <40%. There was no prespecified threshold for blood counts; patients were eligible to enroll if they were assessed by the investigator to have adequate bone marrow function to receive lymphodepleting chemotherapy. The planned dose of BREYANZI was 100 \times 10⁶ CARpositive viable T cells. Bridging therapy for disease control was permitted between apheresis and the start of lymphodepleting chemotherapy.

Of the 89 patients, BREYANZI was administered 2 to 11 days following completion of lymphodepleting chemotherapy. The lymphodepleting chemotherapy regimen consisted of fludarabine 30 mg/m²/day and cyclophosphamide 300 mg/m²/day concurrently for 3 days. BREYANZI was administered in the inpatient (88%) and outpatient (12%) settings.

Of 113 patients who underwent leukapheresis, 94 received BREYANZI. Of the 94, 84 received BREYANZI at 90 to 111 $\times 10^6$ CAR-positive T cells and 10 received a cell-dose outside of this dose range; 3 received CAR-positive T cells that did not meet the product specifications for BREYANZI (manufacturing failure); and 16 other patients did not receive BREYANZI for other reasons.

The median time from leukapheresis to product availability was 24 days (range: 19 to 84 days), and the median time from leukapheresis to product infusion was 36 days (range: 28 to 384 days). Of the 89 patients treated with BREYANZI, 69 (78%) received bridging therapy.

Patients had measurable disease present before BREYANZI administration based on IRC assessment. Nineteen of 84 patients were not evaluable for efficacy (13 patients did not have baseline disease assessments performed after completion of bridging therapy, 1 patient lacked measurable disease, and 5 had Richter's transformation). Of the 65 efficacy-evaluable patients, the median age was 66 years (range: 49 to 82 years), 68% were male, 80% were White, 3% were Black, 1% were Asian. Two percent were Hispanic and 89% were non-Hispanic. Eighty-three percent of patients had at least one high risk genetic attribute including 43% del(17p), 45% TP53 mutation, 45% unmutated IGHV, and 62% with complex karyotype. Fifty-one percent of the patients had bulky disease. The median number of prior therapies was 5 (range: 2 to 12). All 65 patients were exposed to a BTK inhibitor, of which 88% were refractory, 1.5% were refractory, none relapsed, and 6% were intolerant. A total of 83% had disease refractory to last therapy.

Efficacy was based on ORR (including CR and PR) and DOR as determined by an IRC using 2018 International Workshop CLL (iwCLL) criteria (Tables 21 and 22). The median time to first response (CR or PR) was 1.1 months (range: 0.8 to 17.4 months). The median time to first CR was 3.0 months (range 1.1 to 17.9 months).

Table 21: Response Rate in Relapsed or Refractory CLL/SLL (TRANSCEND-CLL Study)

BREYANZI Treated (N=65)	All Leukapheresed Patients (N=113)
29 (45)	42 (37)
[32.3, 57.5]	[28.3, 46.8]
13 (20)	16 (14)
[11.1, 31.8]	[8.3, 22.0]
16 (25)	26 (23)
[14.8, 36.9]	[15.6, 31.9]
	Treated (N=65) 29 (45) [32.3, 57.5] 13 (20) [11.1, 31.8] 16 (25)

CI=confidence interval; iwCLL=international workshop on chronic lymphocytic leukemia; IRC=independent review committee.

^a Per the 2018 iwCLL criteria, as assessed by IRC.

^b 2-sided 95% exact Clopper-Pearson Cls.

Table 22: Duration of Response in the TRANSCEND-CLL Study

	BREYANZI-Treated N=65
Number of Responders	29
DOR ^a (months)	
Median [95% CI] ^b	35.3 [12.4, NR]
Range	2.0 ⁺ , 35.3
DOR if Best Response is CR ^a (months)	N=13
Median [95% CI] ^b	NR [15.0, NR]
Range	2.0 ⁺ , 30.0 ⁺
Rate at 12 months (%) [95% CI] ^b	100 [NR, NR]
Rate at 18 months (%) [95% CI] ^b	87.5 [38.7, 98.1]
DOR if Best Response is PR ^a (months)	N=16
Median [95% CI] ^b	12.4 [8.9, NR]
Range	4.1, 35.3
Rate at 12 months (%) [95% CI] ^b	60.3 [32.0, 79.8]
Rate at 18 months (%) [95% CI] ^b	46.9 [21.4, 68.9]

^a Per the 2018 iwCLL criteria, as assessed by IRC.

^b Kaplan-Meier method was used to obtain 2-sided 95% Cls.

+ Indicates a censored value.

Minimal residual disease (MRD) negative status was defined as less than one CLL cell per 10⁴ leukocytes using ClonoSEQ, a next generation sequencing assay (NGS) at any time post infusion (MRD-negativity rate). There was no statistical testing of MRD-negativity rate. In patients who achieved CR, the MRD-negativity rate was 100% (13/13, 95% CI: 75.3, 100) in peripheral blood and 92.3% (12/13, 95% CI: 64, 99.8) in the bone marrow.

14.3 Relapsed or Refractory Follicular Lymphoma

TRANSCEND-FL

The efficacy of BREYANZI was evaluated in a Phase 2, open-label, multicenter, single-arm trial (TRANSCEND-FL; NCT04245839) in adult patients with relapsed or refractory FL after two or more lines of systemic therapy (including an anti-CD20 antibody and an alkylating agent). The study enrolled patients with ECOG performance status of \leq 1. The study excluded patients with a creatinine clearance of \leq 30 mL/min, ALT >5 times the ULN, or LVEF <40%. There was no prespecified threshold for blood counts; patients were eligible to enroll if they were assessed by the investigator to have adequate bone marrow function to receive lymphodepleting chemotherapy. The planned dose of BREYANZI was 100 × 10⁶ CAR-positive viable T cells. Bridging therapy for disease control was permitted between apheresis and the start of lymphodepleting chemotherapy.

A single dose of BREYANZI was administered 2 to 7 days following completion of lymphodepleting chemotherapy. The lymphodepleting chemotherapy regimen consisted of fludarabine 30 mg/m²/day and cyclophosphamide 300 mg/m²/day concurrently for 3 days. Six percent of patients were treated with BREYANZI in outpatient setting.

Of 114 patients who underwent leukapheresis, 107 received BREYANZI and the median dose administered was 100.02 x 10⁶ CAR-positive viable T cells (range: 93.4 to 109.2 x 10⁶ CAR-positive viable T cells). The primary efficacy analysis included 94 patients who had PET-positive disease at study baseline or confirmation of PET-positive disease after bridging therapy, received conforming product in intended dose range and had at least 9 months of follow up from the date of first response.

The median time from leukapheresis to product availability was 29 days (range: 20 to 55 days), and the median time from leukapheresis to product infusion was 50 days (range: 31 to 313 days). Of the 107 patients treated with BREYANZI, 40 (40%) received bridging therapy. The median age was 63 years (range: 23 to 80 years), 62% were male, ECOG performance status was 0 in 63% and 1 in 37% of patients; 55% were White, 3% were Black, 9% were Asian; 5% were Hispanic and 69% were non-Hispanic. The median number of prior systemic therapies was 3 (range: 2 to 10), with 46% receiving 2 prior lines, 22% receiving 3 prior lines and 32% received a P13K inhibitor, and 29% of patients had prior autologous HSCT. Eighty-nine percentage patients had Stage III-IV disease at study entry, 29% had bulky disease, 64% had progression within 6 months of the most recent regimen, and 50% had progression within 24 months of initial diagnosis (POD24).

Efficacy was based on ORR, defined as the percentage of patients with a best overall response (BOR) of CR or PR after BREYANZI infusion and duration of response as determined by an IRC (Tables 23 and 24). The median time to first response (CR or PR) was 1.0 month (range: 0.6 to 3.3 months). The median time to first CR was 3.0 months (range 0.6 to 18.0 months).

Table 23:	Response Rate in Patients with Relapsed or Refractory FL

	BREYANZI-Treated ^a (N=94)	All Leukapheresed Patients (N=114)
Overall Response Rate ^b , n (%)	90 (95.7)	105 (92.1)
[95% CI] ^c	[89.5, 98.8]	[85.5, 96.3]
Complete Response ^d , n (%)	69 (73.4)	78 (68.4)
[95% CI]	[63.3, 82.0]	[59.1, 76.8]
Partial Response, n (%)	21 (22.3)	27 (23.7)
[95% CI]	[14.4, 32.1]	[16.2, 32.6]

CI=confidence interval.

^a Evaluable for efficacy.

^b Per the Lugano criteria, as assessed by an IRC.

^c Two-sided 95% confidence interval based on exact Clopper-Pearson method.

^d CR required a negative bone marrow biopsy after treatment in patients who did not have a negative bone marrow biopsy between their most recent disease progression and prior to initiation of lymphodepleting chemotherapy.

Table 24: Duration of Response^a in Patients with Relapsed or Refractory FL

	BREYANZI Treated ^b N=94
Number of Responders	90
DOR (months)	
Median [95% CI] ^c	NR (18.0, NR)
Range	1.9, 23.1+
Rate at 12 months, (%) [95% Cl] ^d	80.9 (71.0, 87.7)
Rate at 18 months, (%) [95% CI] ^d	77.1 (65.9, 85.0)
DOR if Best Response is CR (months)	N=69
Median [95% CI] ^c	NR [NR, NR]
Range	2.8, 23.1+
Rate at 12 months, (%) [95% CI] ^d	88.2 (77.7, 93.9)
Rate at 18 months, (%) [95% CI] ^d	83.1 (70.0, 90.9)
DOR if Best Response is PR (months)	N=21
Median [95% CI] ^c	18.04 [4.17, NR]
Range	1.9, 22.4+
Rate at 12 months, (%) [95% CI] ^d	56.7 (33.3, 74.7)
Rate at 18 months, (%) [95% Cl] ^d	56.7 (33.3, 74.7)

DOR=duration of response; CI=confidence interval; CR=complete response; PR=partial response; NR=not reached.

^a Median follow-up for DOR is 16.8 months (95% CI: 16.3 to 17.0).

^b Evaluable for efficacy.

^c Median [95% Cl] are estimated from KM estimates.

 $^{\rm d}\,$ KM estimate of probability of continued response at the specified month.

+ Indicates a censored value.

14.4 Relapsed or Refractory Mantle Cell Lymphoma

TRANSCEND-MCL Cohort

The efficacy of BREYANZI was evaluated in an open-label, multicenter, single-arm trial (TRANSCEND-MCL Cohort; NCT02631044) in adult patients with relapsed or refractory MCL who had received at least two prior lines of therapy including a BTK inhibitor, an alkylating agent, and an anti-CD20 agent. The study included patients with ECOG performance status of ≤ 1 , prior autologous and/or allogeneic HSCT, and secondary CNS lymphoma involvement. The study excluded patients with a creatinine clearance ≤ 30 mL/min, alanine aminotransferase >5 times the upper limit of normal or left ventricular ejection fraction (LVEF) <40%. There was no prespecified threshold for blood counts; patients were eligible to enroll if they were assessed by the investigator to have adequate bone marrow function to receive lymphodepleting chemotherapy. The planned dose of BREYANZI was 100×10^6 CAR-positive viable T cells. Bridging therapy for disease control was permitted between apheresis and the start of lymphodepleting chemotherapy.

BREYANZI was administered 2 to 7 days following completion of lymphodepleting chemotherapy. The lymphodepleting chemotherapy regimen consisted of fludarabine 30 mg/m²/day and cyclophosphamide 300 mg/m²/day concurrently for 3 days. BREYANZI was administered in the inpatient (85%) and outpatient (15%) setting.

Of 89 patients who underwent leukapheresis, 71 received BREYANZI and the median dose administered was 99.8×10^6 CAR-positive viable T cells (range: 90 to 103×10^6 CAR-positive viable T cells). The primary efficacy analysis included a total of 68 patients with MCL who received at least 2 prior lines of therapy including a BTK inhibitor, had PET-positive disease at study baseline or after bridging therapy, received conforming product in the intended dose range, and had at least 6 months of follow up from the date of first response.

The median time from leukapheresis to product availability was 24 days (range: 17 to 80 days), and the median time from leukapheresis to product infusion was 36 days (range: 28 to 489 days). Of the 68 patients in the main efficacy population, 44 (65%) received bridging therapy.

The median age was 69 years (range: 36 to 86 years); 75% were male, ECOG performance status was 0 in 57% and 1 in 43% of patients; 87% were White, 1.5% were Black, 6% were Asian; 6% were Hispanic and 91% were non-Hispanic. The median number of prior therapies was 3 (range: 2 to 11) and 32% had received prior HSCT. Twenty-nine percent of patients had blastoid morphology and 10% had CNS lymphoma involvement at baseline. Sixty-nine percent of patients had disease refractory to their last therapy for MCL, defined as best response of partial response (PR), stable disease (SD), or progressive disease (PD) to last systemic or HSCT treatment with curative intent. All 68 patients were exposed to BTK inhibitor, of which 56% were refractory, defined as any response to prior BTK inhibitor that was less than PR.

Efficacy was based on ORR, defined as the percentage of patients with BOR of either CR or PR after BREYANZI infusion, as determined by an IRC using 2014 Lugano classification. Other efficacy measures included complete response rate and DOR, as determined by IRC (Tables 25 and Table 26).

Both the median time to first response (CR or PR) and the median time to first CR were 1 month (range: 0.7 to 3 months).

Table 25: Response Rate in Relapsed or Refractory MCL (TRANSCEND-MCL Cohort)

Outcome	BREYANZI-Treated ^a (N=68)	All Leukapheresed Patients (N=89)
Overall Response Rate ^b , n (%)	58 (85.3)	65 (73.0)
[95% CI] ^c	(74.6, 92.7)	(62.6, 81.9)
Complete Response, n (%)	46 (67.6)	51 (57.3)
[95% CI]	(55.2, 78.5)	(46.4, 67.7)
Partial Response, n (%)	12 (17.6)	14 (15.7)
[95% CI]	(9.5, 28.8)	(8.9, 25.0)

Cl=confidence interval. ^a Evaluable for efficacy.

Table 26:

^b Per the 2014 Lugano classification (including bone marrow biopsy assessments), as assessed by IRC.

Duration of Response^a in the TRANSCEND-MCL Cohort

^c 2-sided 95% exact Clopper-Pearson Cls.

	BREYANZI-Treated (N=68)	
Number of Responders	58	
DOR ^b (months)		
Median [95% CI]°	13.3 [6.0, 23.3]	
Range	0.0+, 23.3+	
Rate at 12 months (%) [95% Cl] ^d	51.4 [37.5, 63.7]	
Rate at 18 months (%) [95% Cl] ^d	38.8 [25.0, 52.4]	
DOR if Best Response is CR ^b (months)	N=46	
Median [95% CI]°	17.5 [7.5, NR]	
Range	0.6, 23.3+	
Rate at 12 months (%) [95% Cl] ^d	57.8 [41.9, 70.7]	
Rate at 18 months (%) [95% Cl] ^d	48.0 [31.6, 62.6]	
DOR if Best Response is PR ^b (months)	N=12	
Median [95% CI]°	2.2 [1.8, 13.3]	
Range	0.0+, 14.5	
Rate at 12 months (%) [95% Cl] ^d	27.3 [6.5, 53.9]	
Rate at 18 months (%) [95% CI] ^d	0.0 [NE, NE]	

Cl=confidence interval; NE=not evaluable; NR=not reached.

^a Median follow-up for DOR is 22.2 months (95% CI: 16.7 to 22.8).

^b Per the 2014 Lugano classification (including bone marrow biopsy assessments), as assessed by IRC.

^c Kaplan-Meier method was used to obtain 2-sided 95% Cls.

^d KM estimate of probability of continued response at the specified month.

Indicates a censored value.

15 REFERENCES

 Lee DW, Gardner R, Porter DL, et al. Current concepts in the diagnosis and management of cytokine release syndrome. *Blood*. 2014;124:188-195.

16 HOW SUPPLIED/STORAGE AND HANDLING

BREYANZI consists of genetically modified autologous T cells, supplied in vials as separate frozen suspensions of each CD8 component (NDC 73153-901-08) and CD4 component (NDC 73153-902-04). Each CD8 or CD4 component is packed in a carton containing up to 4 vials, depending upon the concentration of the cryopreserved drug product CAR-positive viable T cells. The cartons for each CD8 component and CD4 component are in an outer carton (NDC 73153-900-01). BREYANZI is shipped directly to the cell lab or clinical pharmacy associated with the infusion center in the vapor phase of a liquid nitrogen shipper. A Release for Infusion (RFI) Certificate for each component and patient-specific syringe labels are affixed inside the shipper.

- Confirm patient identity upon receipt.
- Store vials in the vapor phase of liquid nitrogen (less than or equal to minus 130°C) in a temperature-monitored system.
- Thaw BREYANZI prior to infusion [see Dosage and Administration (2.2)].

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Ensure that patients understand the risk (11%) of manufacturing failure. In case of a manufacturing failure, a second manufacturing of BREYANZI may be attempted. While the patient awaits the product, additional bridging therapy (not the lymphodepletion) may be necessary. This bridging therapy may be associated with adverse events during the pre-infusion period, which could delay or prevent the administration of BREYANZI.

Advise patients that they will be monitored daily for at least 7 days following the BREYANZI infusion and instruct patients to remain close to a healthcare facility for at least 2 weeks following the infusion.

Prior to infusion, advise patients of the following risks:

- <u>Cytokine Release Syndrome (CRS)</u> Signs and symptoms of CRS (fever, chills, hypotension, tachycardia, hypoxia, and fatigue). Counsel patients to seek immediate medical attention should signs or symptoms of CRS occur at any time [see Warnings and Precautions (5.1) and Adverse Reactions (6.1)].
- <u>Neurologic Toxicities</u> Signs or symptoms associated with neurologic events including encephalopathy, confusion, decreased consciousness, speech disorders, tremor, and seizures. Counsel patients to seek immediate medical attention should signs or symptoms of neurologic toxicity occur at any time [see Warnings and Precautions (5.2) and Adverse Reactions (6.1)].
- <u>Serious Infections</u> Signs or symptoms associated with infection [see Warnings and Precautions (5.4) and Adverse Reactions (6.1)].
- <u>Prolonged Cytopenias</u> Signs or symptoms associated with bone marrow suppression including neutropenia, anemia, thrombocytopenia, or febrile neutropenia [see Warnings and Precautions (5.5) and Adverse Reactions (6.1)].
- <u>Secondary Malignancies</u>: Secondary malignancies, including T cell malignancies, have occurred [see Boxed Warning, Warnings and Precautions (5.7), Adverse Reactions (6.2)].

Advise patients of the need to:

- Contact Bristol-Myers Squibb at 1-888-805-4555 if they are diagnosed with a secondary malignancy [see Warnings and Precautions (5.7)].
- Avoid driving for at least 2 weeks after BREYANZI administration.

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MEDICATION GUIDE

BREYANZI[®] (pronounced braye an' zee) (lisocabtagene maraleucel)

Read this Medication Guide before you start your BREYANZI treatment. The more you know about your treatment, the more active you can be in your care. Talk with your healthcare provider if you have questions about your health condition or treatment. Reading this Medication Guide does not take the place of talking with your healthcare provider about your treatment.

What is the most important information I should know about BREYANZI?

BREYANZI may cause side effects that are life-threatening and can lead to death. Call your healthcare provider or get emergency help right away if you get any of the following:

- difficulty breathing
- fever (100.4°F/38°C or higher)
- chills/shaking chills
- confusion
- severe nausea, vomiting, diarrhea
- fast or irregular heartbeat
- dizziness/lightheadedness
- severe fatigue or weakness

It is important that you tell your healthcare providers that you have received BREYANZI and to show them your BREYANZI Patient Wallet Card. Your healthcare provider may give you other medicines to treat your side effects.

What is BREYANZI?

BREYANZI is a prescription medicine used to treat four types of non-Hodgkin lymphoma:

- Large B cell lymphoma, when:
 - your first treatment has not worked or your cancer returned within a year of your first treatment OR
 - your first treatment has not worked or your cancer returned after the first treatment, and you are not eligible for hematopoietic stem cell transplantation because of medical conditions or age OR
 - \circ \quad two or more kinds of treatment have not worked or stopped working.
- Chronic lymphocytic leukemia or small lymphocytic lymphoma when two or more kinds of treatment have not worked or stopped working.
- Follicular lymphoma, when two or more kinds of treatment have not worked or stopped working.
- Mantle cell lymphoma when two or more kinds of treatment have not worked or stopped working, including a prior Bruton tyrosine kinase (BTK) inhibitor medicine.

BREYANZI is different than other cancer medicines because it is made from your own white blood cells, which have been genetically modified to recognize and attack your lymphoma cells.

Before getting BREYANZI, tell your healthcare provider about all your medical problems, including if you have or have had:

- Neurologic problems (such as seizures, stroke, or memory loss)
- Lung or breathing problems
- Heart problems
- Liver problems
- Kidney problems
- A recent or active infection

Tell your healthcare provider about all the medications you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How will I receive BREYANZI?

- BREYANZI is made from your own white blood cells, so your blood will be collected by a process called "leukapheresis" (LOO-kuh-feh-REE-sis).
- It takes about 3-4 weeks from the time your cells are received at the manufacturing site and are available to be shipped back to your healthcare provider, but the time may vary.
- Before you get BREYANZI, you will get 3 days of chemotherapy to prepare your body.
- When your BREYANZI is ready, your healthcare provider will give it to you through a catheter (tube) placed into your vein (intravenous infusion). BREYANZI is given as infusions of 2 different cell types.
 - You will receive infusions of one cell type, immediately followed by the other cell type.
 - The time for infusion will vary but will usually be less than 15 minutes for each of the 2 cell types.

- During the first week, you will be monitored daily.
- You should plan to stay close to a healthcare facility for at least 2 weeks after getting BREYANZI. Your healthcare provider will check to see that your treatment is working and help you with any side effects that may occur.
- You may be hospitalized for side effects and your healthcare provider will discharge you if your side effects are under control, and it is safe for you to leave the hospital.
- Your healthcare provider will want to do blood tests to follow your progress. It is important that you do have your blood tested. If you miss an appointment, call your healthcare provider as soon as possible to reschedule.

What should I avoid after receiving BREYANZI?

- Avoid driving for at least 2 weeks after you get BREYANZI.
- Do not donate blood, organs, tissues, or cells for transplantation.

What are the possible or reasonably likely side effects of BREYANZI?

The most common side effects of BREYANZI are:

- fatigue
- difficulty breathing
- fever (100.4°F/38°C or higher)
- chills/shaking chills
- confusion
- difficulty speaking or slurred speech
- severe nausea, vomiting, diarrhea
- headache
- dizziness/lightheadedness
- fast or irregular heartbeat
- swelling
- low blood pressure
- muscle pain

BREYANZI can increase the risk of life-threatening infections that may lead to death. Tell your healthcare provider right away if you develop fever, chills, or any signs or symptoms of an infection.

BREYANZI can lower one or more types of your blood cells (red blood cells, white blood cells, or platelets). After treatment, your healthcare provider will test your blood to check for this. Tell your healthcare provider right away if you get a fever, are feeling tired, or have bruising or bleeding.

BREYANZI may increase your risk of getting cancers including certain types of blood cancers. Your healthcare provider should monitor you for this.

Having BREYANZI in your blood may cause a false-positive HIV test result by some commercial tests.

These are not all the possible side effects of BREYANZI. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about the safe and effective use of BREYANZI

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. If you would like more information about BREYANZI, talk with your healthcare provider. You can ask your healthcare provider for information about BREYANZI that is written for health professionals.

For more information, go to BREYANZI.com or call 1-888-805-4555.

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BREMG.008 6/2025

This Medication Guide has been approved by the U.S. Food and Drug Administration.