



# Lunsumio<sup>TM</sup>

mosunetuzumab-axgb  
injection for intravenous use 1 mg | 30 mg

After 2 or more treatments for  
follicular lymphoma (FL)

## LUNSUMIO<sup>TM</sup> offers hope for remission



Explore more at  
[www.LUNSUMIO.com](http://www.LUNSUMIO.com)

Images in this piece are actor portrayals.

### What is LUNSUMIO?

LUNSUMIO (mosunetuzumab-axgb) is a prescription medicine used to treat adults with follicular lymphoma whose cancer has come back or did not respond to previous treatment, and who have already received two or more treatments for their cancer.

It is not known if LUNSUMIO is safe and effective in children.

The conditional approval of LUNSUMIO is based on response rate. There are ongoing studies to establish how well the drug works.

### What is the most important information I should know about LUNSUMIO?

**LUNSUMIO may cause Cytokine Release Syndrome (CRS)**, a serious side effect that is common during treatment with LUNSUMIO and can also be severe or life-threatening. Get medical help right away if you develop any signs or symptoms of CRS at any time.

Please see Important Safety Information, including **Serious Side Effects** throughout this brochure, as well as the accompanying LUNSUMIO full Prescribing Information and Medication Guide.

# After multiple FL treatments, the option for innovative treatment remains

This brochure can help you and your loved ones further understand your diagnosis and what to expect from your treatment journey, including:

- Understanding your type of follicular lymphoma
- Understanding how LUNSUMIO™ is thought to work and what you can expect from treatment



Please contact your healthcare team with any questions you may have

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Underlined, bold medical terms used in this guide are defined in the glossary.

### Important Safety Information (cont'd)

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

LUNSUMIO may cause Cytokine Release Syndrome (CRS), a serious side effect that is common during treatment with LUNSUMIO and can also be severe or life-threatening.

Get medical help right away if you develop any signs or symptoms of CRS at any time, including:

- |                                     |                                 |
|-------------------------------------|---------------------------------|
| • fever of 100.4°F (38°C) or higher | • headache                      |
| • chills                            | • confusion                     |
| • low blood pressure                | • feeling anxious               |
| • fast or irregular heartbeat       | • dizziness or light-headedness |
| • tiredness or weakness             | • nausea                        |
| • difficulty breathing              | • vomiting                      |

Please see Important Safety Information, including **Serious Side Effects** throughout this brochure, as well as the accompanying LUNSUMIO full Prescribing Information and Medication Guide.

About follicular lymphoma

# What is follicular lymphoma?

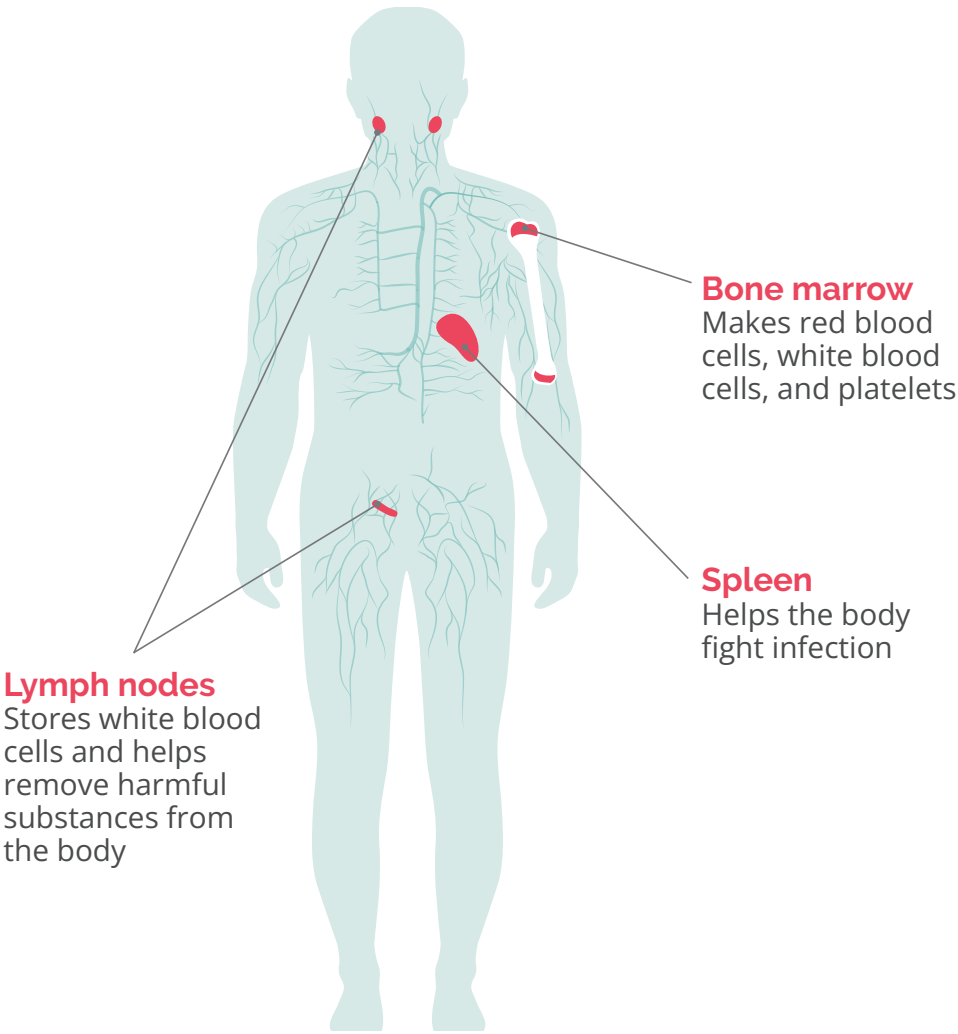
**Follicular lymphoma (FL)** is a form of non-Hodgkin’s lymphoma (NHL), a blood cancer that involves white blood cells.

White blood cells help fight infections. However, unhealthy white blood cells can build up in the **lymph nodes**, **bone marrow**, and **spleen** (see picture below).

FL can be a life-long disease. FL is the most common type of slow-growing NHL.

## What does third-line or later (3L+) follicular lymphoma mean?

3L+ FL means that after at least 2 prior treatments, your FL has **relapsed** (returned) or is **refractory** (has not responded to treatment).



Understanding FL that has returned or has not responded to treatment

# What can 3L+ FL look like?

When your FL has not responded or has returned following 2 treatments, symptoms may be similar to ones you have experienced before, but they can vary from patient to patient.

## You and your doctor can look for some of these possible symptoms:

- Swelling in your lymph nodes, liver, or spleen
- An increase in the number of abnormal white blood cells
- A decrease in the number of normal blood cells
- Fever, fatigue, and night sweats
- Unexplained weight loss
- Severe or frequent infections
- Easy bruising or bleeding
- Numbness or tingling in feet and/or hands
- Headaches and/or blurry vision

Symptoms of FL may be seen in other conditions as well. Only your doctor will be able to tell if your symptoms are related to FL.



**While you are being treated and after your treatment stops, your doctor will continue to monitor your FL in order to decide how best to take care of it**

This may include routine tests, such as physical exams, blood cell counts, and bone marrow biopsies to identify the sources of symptoms.



**Be sure to discuss symptoms with your doctor and understand when treatment is right for you**

4 Please see Important Safety Information, including **Serious Side Effects** throughout this brochure, as well as the accompanying LUNSUMIO™ full Prescribing Information and Medication Guide.



Treatment goals and options

## What are treatment goals for 3L+ FL?



There is no cure for FL. However, based on your experience with FL, you may have different treatment goals, such as:

- 1 Achieving **remission** (disappearance of signs and symptoms)
- 2 Maintaining remission

### Discuss your treatment goals with your doctor

If your doctor has concluded that your FL is relapsed or refractory to at least 2 prior treatments, you may be a candidate for an innovative option: **bispecific antibody** treatment.

## What is bispecific antibody treatment?

### Antibody treatment

**Antibody treatment** is designed to find and destroy specific cells within the body. This therapy is an important part of FL treatment plans. It can also harm healthy cells in the body.



### How bispecific antibody treatment works

Bispecific antibodies are designed to target 2 different sites on different cells or the same cell. For example, a bispecific antibody binding to 2 different cells is thought to bring the cells together, such as an immune cell and a cancer cell. LUNSUMIO is designed to target and bind to CD3 proteins found on T cells and CD20 proteins found on FL cells and may bind to some healthy cells.

### Important Safety Information (cont'd)

**Due to the risk of CRS, you will receive LUNSUMIO on a “step-up dosing schedule.”**

- The step-up dosing schedule is when you receive smaller “step-up” doses of LUNSUMIO on Day 1 and Day 8 of your first cycle of treatment
- You will receive a higher dose of LUNSUMIO on Day 15 of your first cycle of treatment
- If your dose of LUNSUMIO is delayed for any reason, you may need to repeat the step-up dosing schedule
- Before each dose in Cycle 1 and Cycle 2, you will receive medicines to help reduce your risk of CRS

Your healthcare provider will check you for CRS during treatment with LUNSUMIO and may treat you in a hospital if you develop signs and symptoms of CRS. Your healthcare provider may temporarily stop or completely stop your treatment with LUNSUMIO, if you have severe side effects.

**Lunsumio**<sup>™</sup>  
mosunetuzumab-axgb  
injection for intravenous use 1 mg | 30 mg

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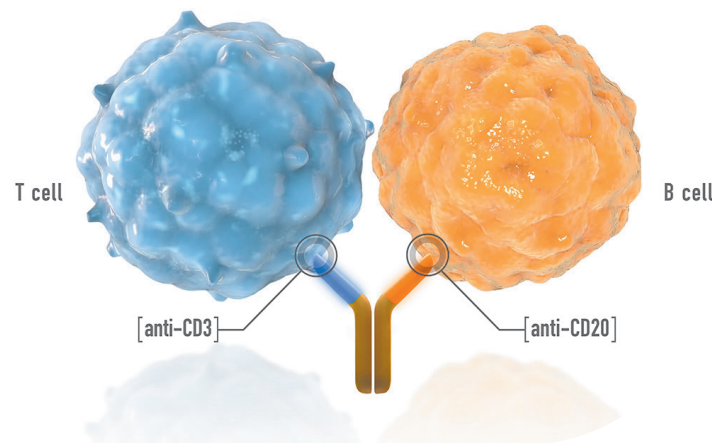
About LUNSUMIO™: What is it?

## How does LUNSUMIO treat 3L+ FL?

LUNSUMIO is a treatment designed to link your powerful immune cells (T cells) to eliminate B cells, including those that cause cancer

### How is LUNSUMIO thought to work?

- LUNSUMIO is a first-of-its-kind bispecific antibody therapy for relapsed and refractory FL
- It is designed to attach to 2 specific proteins called CD20 and CD3. CD20 is a protein on the surface of B cells and CD3 is a protein on T cells (a kind of white blood cell)
- This dual binding process helps your T cells kill cancerous B cells. It may also harm healthy cells



### Important Safety Information (cont'd)

What are the possible side effects of LUNSUMIO?

LUNSUMIO may cause serious side effects, including:

- **Neurologic problems.** Your healthcare provider will check you for neurologic problems during treatment with LUNSUMIO. Your healthcare provider may also refer you to a healthcare provider who specializes in neurologic problems. Tell your healthcare provider right away if you develop any signs or symptoms of neurologic problems during or after treatment with LUNSUMIO, including:
  - headache
  - numbness and tingling of the arms, legs, hands, or feet
  - dizziness
  - confusion and disorientation
  - difficulty paying attention or understanding things
  - forgetting things or forgetting who or where you are
  - trouble speaking, reading, or writing

About LUNSUMIO: How was it studied?

## LUNSUMIO was evaluated in 90 patients with 3L+ FL

This study was a **phase 2 clinical trial**. This is a phase of a clinical trial that studies an investigational treatment to test how well it works and monitors for potential side effects. The effectiveness of LUNSUMIO was evaluated in 90 patients and the safety was evaluated in 218 patients.

Patients were monitored in order to determine whether LUNSUMIO produced **overall response**. This is a response to treatment that means patients either achieved **complete remission** (disappearance of all signs and symptoms of FL) or **partial remission** (some measurable decrease in presence of lymphoma).

### This study included 90 patients with 3L+ FL who:

- Had FL that **relapsed** or was **refractory**
- Received **2 prior treatments** for FL\*
- May have received **a range of prior treatments** for FL\*
- Were **29 to 90** years old

\*Treatments included alkylating agents and anti-CD20 therapies (100%), autologous stem cell transplant (21%), PI3K inhibitors (19%), rituximab + lenalidomide therapy (9%), and CAR-T therapies (3%).

### Important Safety Information (cont'd)

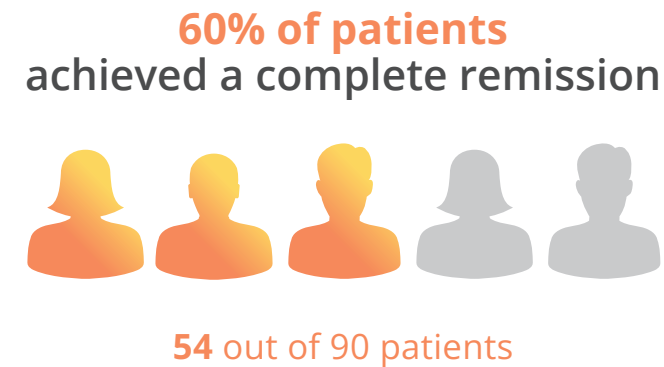
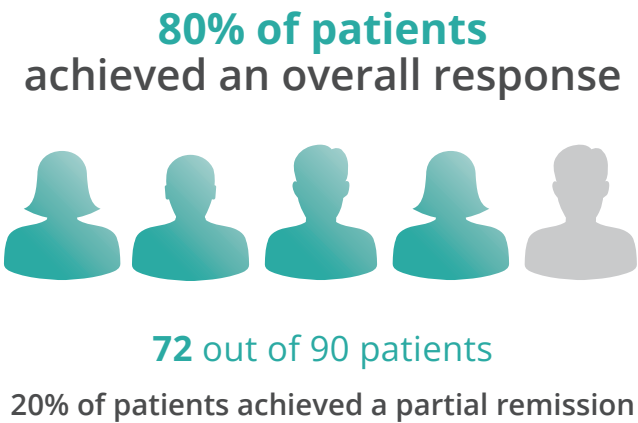
- **Neurologic problems (cont'd)**
  - sleepiness or trouble sleeping
  - tremors
  - loss of consciousness
  - seizures
  - muscle problems or muscle weakness
  - loss of balance or trouble walking



Clinical trial results with LUNSUMIO™

LUNSUMIO offers renewed hope with the possibility of remission that lasts

Half of patients achieving an overall response stayed in remission at 23 months



Important Safety Information (cont'd)

- **Serious infections.** LUNSUMIO can cause serious infections that may lead to death. Your healthcare provider will check you for signs and symptoms of infection before and during treatment. Tell your healthcare provider right away if you develop any signs or symptoms of infection during treatment with LUNSUMIO, including:
  - fever of 100.4°F (38°C) or higher
  - chest pain
  - tiredness
  - cough
  - painful rash
  - sore throat
  - shortness of breath
  - pain during urination
  - feeling weak or generally unwell



There's hope for remission in FL after 2 prior treatments. Ask your doctor if LUNSUMIO may be right for you



Please see Important Safety Information, including **Serious Side Effects** throughout this brochure, as well as the accompanying LUNSUMIO full Prescribing Information and Medication Guide.



Select serious side effects

Cytokine release syndrome



LUNSUMIO™ may cause **Cytokine Release Syndrome (CRS)**, a serious side effect that is common during treatment with LUNSUMIO, and can also be severe or life-threatening.

Get medical help right away if you develop any signs or symptoms of CRS at any time, including:

- Fever of 100.4 °F (38 °C) or higher
- Chills
- Low blood pressure
- Fast or irregular heartbeat
- Tiredness or weakness
- Difficulty breathing
- Headache
- Confusion
- Feeling anxious
- Dizziness or light-headedness
- Nausea
- Vomiting



Most CRS events occurred during the first cycle of treatment. CRS occurred in 39% of patients (86 of 218 patients). CRS was generally managed with appropriate treatment in the clinical trial. CRS should be managed by your healthcare team

**Do not** drive, operate heavy machinery, or do other dangerous activities if you develop dizziness, confusion, tremors, sleepiness, or any other symptoms that impair consciousness until your signs and symptoms go away. These may be signs and symptoms of CRS or neurologic problems.

Most common side effects of LUNSUMIO



**The most common side effects of LUNSUMIO include:** tiredness, rash, fever, and headache.

**The most common severe abnormal lab test results with LUNSUMIO include:** decreased phosphate, increased glucose, and increased uric acid levels.

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

Important Safety Information (cont'd)

- **Low blood cell counts.** Low blood cell counts are common during treatment with LUNSUMIO and can also be severe. Your healthcare provider will check your blood cell counts during treatment with LUNSUMIO. LUNSUMIO may cause the following low blood cell counts:
  - **low white blood cell counts (neutropenia).** Low white blood cells can increase your risk for infection
  - **low red blood cell counts (anemia).** Low red blood cells can cause tiredness and shortness of breath
  - **low platelet counts (thrombocytopenia).** Low platelet counts can cause bruising or bleeding problems
- **Growth in your tumor or worsening of tumor related problems (Tumor flare).** LUNSUMIO may cause serious or severe worsening of your tumor. Tell your healthcare provider if you develop any of these signs or symptoms of tumor flare during your treatment with LUNSUMIO: tender or swollen lymph nodes, chest pain, cough, trouble breathing, and pain or swelling at the site of the tumor

What to expect during treatment with LUNSUMIO™: How and when?

How and when am I given LUNSUMIO?



LUNSUMIO is an intravenous (IV) infusion—or an infusion delivered through a needle placed in a vein. Your treatment may begin in a clinic, local infusion center, or hospital. Some patients may be required to go to the hospital to manage certain side effects.



Some patients may have side effects during or after the infusion process, and you may react differently to each dose you receive. Please refer to pages 12-13 for more information about these reactions. Speak with your doctor if you miss a dose of LUNSUMIO.



LUNSUMIO is given for a total of ~6 months (total 8 cycles) or ~1 year (total 17 cycles), depending on your response to treatment. If you have not achieved complete remission during the first 6 months of treatment, your doctor may recommend LUNSUMIO for 6 more months. Treatment may be stopped if it cannot be tolerated or your disease worsens. Treatment will only occur on certain days of each week, usually followed by several weeks of rest, recovery, and no LUNSUMIO infusions.

Important Safety Information (cont'd)



Your healthcare provider may temporarily stop or permanently stop treatment with LUNSUMIO if you develop severe side effects.

The most common side effects of LUNSUMIO include: tiredness, rash, fever, and headache.

The most common severe abnormal lab test results with LUNSUMIO include: decreased phosphate, increased glucose, and increased uric acid levels.

Please see Important Safety Information, including **Serious Side Effects** throughout this brochure, as well as the accompanying LUNSUMIO full Prescribing Information and Medication Guide.

With LUNSUMIO, you can look forward to time without continuous FL treatment

	Week 1	Week 2	Week 3
CYCLE 1	 Day 1	 Day 8	 Day 15
CYCLE 2 +	 Day 1		

LUNSUMIO is given for approximately 6 months (8 cycles) or 1 year (17 cycles) depending on response

- To get started, you'll receive an infusion **3 times in Cycle 1** (once every 7 days).
- The doses you will receive on day 1 of weeks 1 and 2 will be smaller than the ones you will receive throughout the rest of your treatment. This is called a “step-up dosing schedule”
  - You will receive a higher dose of LUNSUMIO on Day 15 of your first cycle of treatment
  - If your dose of LUNSUMIO is delayed for any reason, you may need to repeat the “step-up dosing schedule”
  - Before each dose in Cycle 1 and Cycle 2, you will receive medicines to help reduce your risk of CRS

You will then receive an infusion on **Day 1 of each following cycle or once every 21 days**. You will either receive 8 or 17 cycles depending on your response to treatment.



Your healthcare provider will check you for CRS during treatment with LUNSUMIO and may treat you in a hospital if you develop signs and symptoms of CRS. Your healthcare provider may temporarily stop or completely stop your treatment with LUNSUMIO if you have severe side effects



What to expect during treatment with LUNSUMIO™: Starting treatment

# Starting treatment with LUNSUMIO



## Before your treatment

- **Tell your doctor about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements
- Remember to follow any changes your doctor made to your regular medicine schedule
- Drink plenty of fluids as it is important to be hydrated before receiving your LUNSUMIO infusion



## Premedications

- Your doctor may have you take medicines before weeks 1 to 4 of your treatment to reduce possible side effects and may have you repeat this process depending on your reaction. Your doctor may refer to this kind of medicine as premedications or premeds
  - Common premeds include acetaminophen, antihistamines, and steroid medications. Taking the suggested medicine before treatment may reduce the chance of possible side effects during or after your LUNSUMIO infusion
- **It is important to tell your doctor if you have allergies or other reactions to any of these medicines**



## On the day of your treatment

- You can expect to spend most of the day at the clinic or infusion center, so you may want to bring a water bottle, book, or anything else that will keep you comfortable
- Your healthcare provider may temporarily stop or permanently stop treatment with LUNSUMIO if you develop severe side effects. You may also require treatment, including other medications, or a hospital visit for certain side effects



## After your treatment

- Side effects may be serious, so let your doctor know of any problems you may experience. Certain side effects may require other medications and care in the hospital to manage
- After your infusion, tell your doctor if you experience symptoms that may include fever, chills, low blood pressure (fatigued or dizzy), fast heart rate, or headache (see page 12)
- Your healthcare provider will check for these symptoms during treatment with LUNSUMIO
- Your healthcare provider may temporarily stop or completely stop your treatment with LUNSUMIO, if you have severe side effects
- It is important that you tell all your healthcare providers that you received LUNSUMIO

### Important Safety Information (cont'd)

Before receiving LUNSUMIO, tell your healthcare provider about all of your medical conditions, including if you:

- have ever had an infusion reaction after receiving LUNSUMIO
- have an infection, or have had an infection in the past which lasted a long time or keeps coming back
- have or have had Epstein-Barr Virus
- are pregnant or plan to become pregnant. LUNSUMIO may harm your unborn baby. Tell your healthcare provider right away if you become pregnant or think you may be pregnant during treatment with LUNSUMIO

### Important Safety Information (cont'd)

Females who are able to become pregnant:

- your healthcare provider should do a pregnancy test before you start treatment with LUNSUMIO
- you should use an effective method of birth control during your treatment and for 3 months after the last dose of LUNSUMIO
- are breastfeeding or plan to breastfeed. It is not known if LUNSUMIO passes into your breast milk. Do not breastfeed during treatment and for 3 months after the last dose of LUNSUMIO

# There is patient support available for LUNSUMIO™



We believe every person should get the LUNSUMIO their doctor prescribed, and here are some programs that may help



## The Genentech Oncology Co-pay Assistance Program\*

Genentech co-pay programs help people with commercial health insurance. This might be a plan you get through your employer or one you purchased through a health insurance marketplace like HealthCare.gov. To qualify, you must also meet other criteria.

\*Eligibility criteria apply. Not valid for patients using federal or state government programs to pay for their medications and/or administration of their Genentech medication. Patient must be taking the Genentech medication for an FDA-approved indication. See full Terms and Conditions at [copayassistancenow.com](https://copayassistancenow.com).

## Independent Co-pay Assistance Foundations†

If you need help with the co-pay for LUNSUMIO, Genentech Access Solutions can refer you to an independent co-pay assistance foundation. Independent co-pay assistance foundations help patients with public or commercial health insurance.

†Independent co-pay assistance foundations have their own rules for eligibility. Genentech has no involvement or influence in independent foundation decision-making or eligibility criteria and does not know if a foundation will be able to help you. We only can refer you to a foundation that supports your disease state. Genentech does not endorse or show preference for any particular foundation. The foundations we refer you to may not be the only ones that might be able to help you.

## Genentech Patient Foundation‡

If you don't have health insurance coverage or have financial concerns and meet eligibility criteria, you may be able to get free medicine from the Genentech Patient Foundation.

‡If you have health insurance, you should try to get other types of financial assistance, if available. You also need to meet income requirements. If you do not have insurance, or if your insurance does not cover your Genentech medicine, you must meet a different set of income requirements. Genentech reserves the right to modify or discontinue the program at any time and to verify the accuracy of information submitted.

## LUNSUMIO Patient Support Program

Our patient treatment resources provide information and assistance to help you learn about LUNSUMIO. These resources are provided for informational purposes only and are not medical advice. You should ask your healthcare providers any questions you may have about your diagnosis and treatment with LUNSUMIO.

### Patient Welcome Program (LUNSUMIO On Your Side)

This program can provide you with helpful resources and information throughout your treatment journey.



Scan to join  
LUNSUMIO On Your Side



To learn how we can help, visit [LUNSUMIO.com](https://LUNSUMIO.com) or call (888) 249-4918



Support and resources

## Helpful resources

Many patient support groups offer helpful information about cancer. Some may also help you connect with a local support group. You can share your experiences and learn more about 3L+ FL. Many people find this helps them stay informed and stay positive.

### Cancer organizations

**American Cancer Society**  
1-800-ACS-2345 (1-800-227-2345)  
[www.cancer.org](http://www.cancer.org)

**CancerCare, Inc.**  
1-800-813-HOPE (1-800-813-4673)  
[www.cancercare.org](http://www.cancercare.org)

**National Cancer Institute**  
1-800-4-CANCER (1-800-422-6237)  
[www.cancer.gov](http://www.cancer.gov)

**National Comprehensive Cancer Network®**  
[www.nccn.org/patients](http://www.nccn.org/patients)

### Lymphoma organizations

**Lymphoma Research Foundation**  
1-800-500-9976  
[www.lymphoma.org](http://www.lymphoma.org)

**The Leukemia & Lymphoma Society**  
1-800-955-4572  
[www.lls.org](http://www.lls.org)

### Support organizations

**Cancer Hope Network**  
1-877-HOPENET (1-877-467-3638)  
[www.cancerhopenetwork.org](http://www.cancerhopenetwork.org)

**Cancer Support Community**  
1-888-793-WELL (1-888-793-9355)  
[www.cancersupportcommunity.org](http://www.cancersupportcommunity.org)

**Patient Advocate Foundation**  
1-800-532-5274  
[www.patientadvocate.org](http://www.patientadvocate.org)

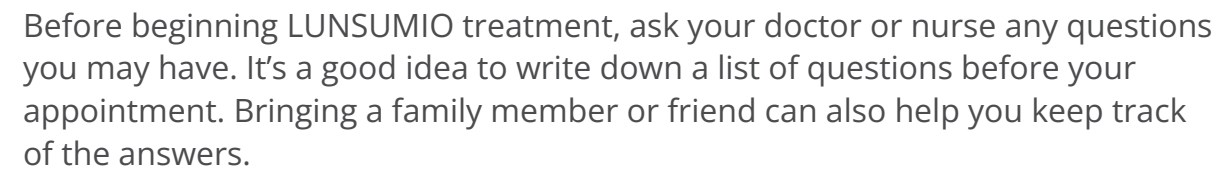
Genentech does not control or endorse third-party organizations. The information provided by Genentech or these organizations is meant for informational purposes only. It is not meant to replace your physician’s medical advice.

Please see Important Safety Information, including **Serious Side Effects** throughout this brochure, as well as the accompanying LUNSUMIO™ full Prescribing Information and Medication Guide.





# Talking to your doctor about LUNSUMIO™



- How is LUNSUMIO designed to work differently?
- Do I need to take premedications at home prior to treatment?
- What resources exist if I cannot afford LUNSUMIO?
- Where will I be receiving LUNSUMIO?
- What symptoms should I monitor myself for at home?
- How long will I be taking LUNSUMIO?

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## Important Safety Information (cont'd)

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

### What should I avoid while receiving LUNSUMIO™?

**Do not** drive, operate heavy machinery, or do other dangerous activities if you develop dizziness, confusion, tremors, sleepiness, or any other symptoms that impair consciousness until your signs and symptoms go away. These may be signs and symptoms of CRS or neurologic problems.

These are not all the possible side effects of LUNSUMIO. Talk to your health care provider for more information about the benefits and risks of LUNSUMIO.

You may report side effects to the FDA at (800) FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).  
You may also report side effects to Genentech at (888) 835-2555.





Keep track of your LUNSUMIO™ conversations  
with your treatment team

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## Important contact information

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# Important terms found in this guide

## Antibody treatment

A type of immunotherapy used to find and destroy specific cells within the body (for example, the cells where follicular lymphoma starts). Antibody treatment can also harm healthy cells in the body.

## Bispecific antibody

Bispecific antibodies are designed to target 2 different sites on different cells or the same cell. For example, a bispecific antibody binding to 2 different cells is thought to bring the cells together, such as an immune cell and cancer cell.

## Bone marrow

The soft spongy material that fills the inside of bones. Bone marrow is the source of new blood cells, and platelets are made in the bone marrow.

## Complete remission

Also called complete response—the disappearance of all signs of cancer in response to treatment. This does not mean the cancer has been cured.

## Cytokine release syndrome (CRS)

A side effect when your immune system responds too strongly by rapidly releasing a large amount of substances known as cytokines. It may cause fever, nausea, or other symptoms.

## Follicular lymphoma

The most common type of indolent non-Hodgkin’s lymphoma (NHL). With NHL, abnormal lymphocytes build up in the lymph nodes, bone marrow, and spleen. FL can be a chronic disease.

## Lymph node

A small bean-shaped organ that stores white blood cells.

## Overall response

A partial or complete remission.

## Partial remission

Also called partial response—some measurable decrease in size of the cancer.

## Phase 2 clinical trial

The second phase of a clinical trial that studies an investigational treatment to test how well it works and monitors for potential side effects.

## Refractory

A term used to describe disease that has not responded to previous treatment.

## Relapsed

A term used to describe disease that has returned after responding to previous treatment.

## Remission

A term used to describe a response to treatment. Partial remission means the cancer is significantly improved, but evidence of the cancer remains. Complete remission means all evidence of the cancer is gone for a period of time. Overall response is a term that may be used when speaking about remission and means any partial or complete remission.

## Spleen

An organ that is part of the lymphatic system. The spleen makes lymphocytes, filters blood, stores blood cells, and destroys old blood cells. It is located on the left side of the abdomen near the stomach.

After 2 or more treatments for follicular lymphoma

# LUNSUMIO™ offers a chance for remission



Scan to learn more at  
[www.LUNSUMIO.com](http://www.LUNSUMIO.com)

## What is LUNSUMIO?

LUNSUMIO (mosunetuzumab-axgb) is a prescription medicine used to treat adults with follicular lymphoma whose cancer has come back or did not respond to previous treatment, and who have already received two or more treatments for their cancer.

It is not known if LUNSUMIO is safe and effective in children.

The conditional approval of LUNSUMIO is based on response rate. There are ongoing studies to establish how well the drug works.

## What is the most important information I should know about LUNSUMIO?

LUNSUMIO may cause **Cytokine Release Syndrome (CRS)**, a serious side effect that is common during treatment with LUNSUMIO and can also be severe or life-threatening. Get medical help right away if you develop any signs or symptoms of CRS at any time.

Please see Important Safety Information, including **Serious Side Effects** throughout this brochure, as well as the accompanying LUNSUMIO full Prescribing Information and Medication Guide.

**Lunsumio**™  
mosunetuzumab-axgb  
injection for intravenous use 1 mg | 30 mg

**Genentech**  
*A Member of the Roche Group*



**HIGHLIGHTS OF PRESCRIBING INFORMATION**

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

LUNSUMIO™ (mosunetuzumab-axgb) injection, for intravenous use  
Initial U.S. Approval: 2022

**WARNING: CYTOKINE RELEASE SYNDROME**

See full prescribing information for complete boxed warning.

Cytokine release syndrome (CRS), including serious or life-threatening reactions, can occur in patients receiving LUNSUMIO. Initiate treatment with the LUNSUMIO step-up dosing schedule to reduce the risk of CRS. Withhold LUNSUMIO until CRS resolves or permanently discontinue based on severity. (2.1, 2.4, 5.1)

**RECENT MAJOR CHANGES**

Warnings and Precautions (5.2)	11/2024
Warnings and Precautions (5.4)	11/2024

**INDICATIONS AND USAGE**

LUNSUMIO is a bispecific CD20-directed CD3 T-cell engager indicated for the treatment of adult patients with relapsed or refractory follicular lymphoma after two or more lines of systemic therapy.

This indication is approved under accelerated approval based on response rate. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s). (1.1)

**DOSAGE AND ADMINISTRATION**

- Premedicate to reduce risk of cytokine release syndrome and infusion-related reactions. (2.3, 5.1)
- Administer only as an intravenous infusion. (2.1)
- Recommended dosage:
  - Cycle 1 Day 1 – 1 mg
  - Cycle 1 Day 8 – 2 mg
  - Cycle 1 Day 15 – 60 mg
  - Cycle 2 Day 1 – 60 mg
  - Cycle 3+ Day 1 – 30 mg

See Full Prescribing Information for instructions on preparation and administration. (2.5)

**DOSAGE FORMS AND STRENGTHS**

Injection:

- 1 mg/mL solution in a single-dose vial. (3)

- 30 mg/30 mL (1 mg/mL) solution in a single-dose vial. (3)

**CONTRAINDICATIONS**

None. (4)

**WARNINGS AND PRECAUTIONS**

- Neurologic Toxicity, including Immune Effector Cell-Associated Neurotoxicity Syndrome: Can cause serious and life-threatening neurologic toxicity, including immune effector cell-associated neurotoxicity syndrome (ICANS). Monitor patients for signs and symptoms of neurologic toxicity during treatment; withhold or permanently discontinue based on severity. (5.2)
- Infections: Can cause serious or fatal infections. Monitor patients for signs and symptoms of infection, including opportunistic infections, and treat as needed. (5.3)
- Hemophagocytic Lymphohistiocytosis: Can cause serious or fatal reactions. For suspected cases, interrupt LUNSUMIO and evaluate and treat promptly. (5.4)
- Cytopenias: Monitor complete blood cell counts during treatment. (5.5)
- Tumor Flare: Can cause serious tumor flare reactions. Monitor patients at risk for complications of tumor flare. (5.6)
- Embryo-Fetal Toxicity: May cause fetal harm. Advise females of reproductive potential of the potential risk to the fetus and to use effective contraception. (5.7, 8.1, 8.3)

**ADVERSE REACTIONS**

The most common adverse reactions (≥ 20%) are cytokine release syndrome, fatigue, rash, pyrexia, and headache.

The most common Grade 3 to 4 laboratory abnormalities (≥ 10%) are decreased lymphocyte count, decreased phosphate, increased glucose, decreased neutrophil count, increased uric acid, decreased white blood cell count, decreased hemoglobin, and decreased platelets. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Genentech at 1-888-835-2555 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

**USE IN SPECIFIC POPULATIONS**

Lactation: Advise not to breastfeed. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 11/2024

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## FULL PRESCRIBING INFORMATION

### WARNING: CYTOKINE RELEASE SYNDROME

Cytokine release syndrome (CRS), including serious or life-threatening reactions, can occur in patients receiving LUNSUMIO. Initiate treatment with the LUNSUMIO step-up dosing schedule to reduce the risk of CRS. Withhold LUNSUMIO until CRS resolves or permanently discontinue based on severity [see *Dosage and Administration (2.1 and 2.4) and Warnings and Precautions (5.1)*].

## 1 INDICATIONS AND USAGE

### 1.1 Follicular Lymphoma

LUNSUMIO is indicated for the treatment of adult patients with relapsed or refractory follicular lymphoma after two or more lines of systemic therapy.

This indication is approved under accelerated approval based on response rate [see *Clinical Studies (14.1)*]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s).

## 2 DOSAGE AND ADMINISTRATION

### 2.1 Important Dosing Information

- Administer LUNSUMIO to well-hydrated patients.
- Premedicate before each dose in Cycle 1 and Cycle 2 [see *Dosage and Administration (2.3)*].
- Administer only as an intravenous infusion through a dedicated infusion line. **Do not use an in-line filter to administer LUNSUMIO.** Drip chamber filters can be used to administer LUNSUMIO.
- LUNSUMIO should only be administered by a qualified healthcare professional with appropriate medical support to manage severe reactions such as cytokine release syndrome and neurologic toxicity, including ICANS [see *Warnings and Precautions (5.1 and 5.2)*].

### 2.2 Recommended Dosage

The recommended dosage for LUNSUMIO is presented in Table 1.

Administer for 8 cycles, unless patients experience unacceptable toxicity or disease progression.

For patients who achieve a complete response, no further treatment beyond 8 cycles is required. For patients who achieve a partial response or have stable disease in response to treatment with LUNSUMIO after 8 cycles, an additional 9 cycles of treatment (17 cycles total) should be administered, unless a patient experiences unacceptable toxicity or disease progression.

**Table 1. Recommended LUNSUMIO Dose and Schedule (21-Day Treatment Cycles)**

Day of Treatment		Dose of LUNSUMIO	Rate of Infusion
Cycle 1	Day 1	1 mg	Administer over a minimum of 4 hours.
	Day 8	2 mg	
	Day 15	60 mg	
Cycle 2	Day 1	60 mg	Administer over 2 hours if infusions from Cycle 1 were well-tolerated.
Cycles 3+	Day 1	30 mg	

**Table 2. Recommendations for Restarting Therapy with LUNSUMIO After Dose Delay**

Last Dose Administered	Time Since the Last Dose Administered	Action for Next Dose(s)
1 mg Cycle 1 Day 1	1 to 2 weeks	Administer 2 mg (Cycle 1 Day 8), then resume the planned treatment schedule.
	Greater than 2 weeks	Repeat 1 mg (Cycle 1 Day 1), then administer 2 mg (Cycle 1 Day 8) and resume the planned treatment schedule.
2 mg Cycle 1 Day 8	1 to 2 weeks	Administer 60 mg (Cycle 1 Day 15), then resume the planned treatment schedule.
	Greater than 2 weeks to less than 6 weeks	Repeat 2 mg (Cycle 1 Day 8), then administer 60 mg (Cycle 1 Day 15) and resume the planned treatment schedule.
	Greater than or equal to 6 weeks	Repeat 1 mg (Cycle 1 Day 1) and 2 mg (Cycle 1 Day 8), then administer 60 mg (Cycle 1 Day 15) and resume the planned treatment schedule.
60 mg Cycle 1 Day 15	1 week to less than 6 weeks	Administer 60 mg (Cycle 2 Day 1), then resume the planned treatment schedule.
	Greater than or equal to 6 weeks	Repeat 1 mg (Cycle 2 Day 1) and 2 mg (Cycle 2 Day 8), then administer 60 mg (Cycle 2 Day 15), followed by 30 mg (Cycle 3 Day 1) and then resume the planned treatment schedule.
60 mg Cycle 2 Day 1	3 weeks to less than 6 weeks	Administer 30 mg (Cycle 3 Day 1), then resume the planned treatment schedule.
	Greater than or equal to 6 weeks	Repeat 1 mg (Cycle 3 Day 1) and 2 mg (Cycle 3 Day 8), then administer 30 mg (Cycle 3 Day 15)*, followed by 30 mg (Cycle 4 Day 1) and then resume the planned treatment schedule.
30 mg Cycle 3 onwards	3 weeks to less than 6 weeks	Administer 30 mg, then resume the planned treatment schedule.
	Greater than or equal to 6 weeks	Repeat 1 mg on Day 1 and 2 mg on Day 8 during the next cycle, then administer 30 mg on Day 15*, followed by 30 mg on Day 1 of subsequent cycles.

\* For the Day 1, Day 8, and Day 15 doses in the next cycle, administer premedication as per Table 3 for all patients

### 2.3 Recommended Premedication and Prophylactic Medication

Premedication to reduce the risk of cytokine release syndrome and infusion-related reactions are outlined in Table 3 [see *Warnings and Precautions (5.1)*].



**Table 3. Premedication to be Administered to Patients Prior to LUNSUMIO Infusion**

Treatment Cycle	Patients Requiring Premedication	Premedication	Dosage	Administration
Cycle 1 and Cycle 2	All patients	Corticosteroid	Dexamethasone 20 mg intravenous or methylprednisolone 80 mg intravenous	Complete at least 1 hour prior to infusion
		Antihistamine	Diphenhydramine hydrochloride 50 mg to 100 mg or equivalent oral or intravenous antihistamine	At least 30 minutes prior to infusion
		Antipyretic	Oral acetaminophen (500 mg to 1,000 mg)	At least 30 minutes prior to infusion
Cycles 3+	Patients who experienced any grade CRS with the previous dose	Corticosteroid	Dexamethasone 20 mg intravenous or methylprednisolone 80 mg intravenous	Complete at least 1 hour prior to infusion
		Antihistamine	Diphenhydramine hydrochloride 50 mg to 100 mg or equivalent oral or intravenous antihistamine	At least 30 minutes prior to infusion
		Antipyretic	Oral acetaminophen (500 mg to 1,000 mg)	At least 30 minutes prior to infusion

## 2.4 Dosage Modifications for Adverse Reactions

See Tables 4 and 5 for the recommended dosage modifications for adverse reactions of CRS and neurologic toxicity, including immune effector cell-associated neurotoxicity (ICANS). See Table 6 for the recommended dosage modifications for other adverse reactions following administration of LUNSUMIO.

### Dosage Modifications for 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, withhold LUNSUMIO until CRS resolves, manage according to the recommendations in Table 4 and per current practice guidelines. Administer supportive therapy for CRS, which may include intensive care for severe or life-threatening CRS.

**Table 4. Recommendations for Management of Cytokine Release Syndrome**

Grade <sup>a</sup>	Presenting Symptoms	Actions <sup>b</sup>
Grade 1	Fever $\geq 100.4^{\circ}\text{F}$ ( $38^{\circ}\text{C}$ ) <sup>c</sup>	<ul style="list-style-type: none"> <li>Withhold current infusion of LUNSUMIO and manage per current practice guidelines. <ul style="list-style-type: none"> <li>If symptoms resolve, restart infusion at the same rate.</li> </ul> </li> <li>Ensure CRS symptoms are resolved for at least 72 hours prior to the next dose of LUNSUMIO.<sup>d</sup></li> <li>Administer premedication<sup>e</sup> prior to next dose of LUNSUMIO and monitor patient more frequently.</li> </ul>

Grade <sup>a</sup>	Presenting Symptoms	Actions <sup>b</sup>
Grade 2	Fever $\geq 100.4^{\circ}\text{F}$ ( $38^{\circ}\text{C}$ ) <sup>c</sup> with:  Hypotension not requiring vasopressors  and/or  hypoxia requiring low-flow oxygen <sup>f</sup> by nasal cannula or blow-by.	<ul style="list-style-type: none"> <li>Withhold current infusion of LUNSUMIO and manage per current practice guidelines. <ul style="list-style-type: none"> <li>If symptoms resolve, restart infusion at 50% rate.</li> </ul> </li> <li>Ensure CRS symptoms are resolved for at least 72 hours prior to the next dose of LUNSUMIO.<sup>d</sup></li> <li>Administer premedication<sup>e</sup> prior to next dose of LUNSUMIO and consider infusing the next dose at 50% rate.</li> <li>For the next dose of LUNSUMIO, monitor more frequently and consider hospitalization.</li> </ul>
		Recurrent Grade 2 CRS <ul style="list-style-type: none"> <li>Manage per Grade 3 CRS.</li> </ul>
Grade 3	Fever $\geq 100.4^{\circ}\text{F}$ ( $38^{\circ}\text{C}$ ) <sup>c</sup> with:  Hypotension requiring a vasopressor (with or without vasopressin)  and/or  hypoxia requiring high flow oxygen <sup>f</sup> by nasal cannula, face mask, non-rebreather mask, or Venturi mask.	<ul style="list-style-type: none"> <li>Withhold LUNSUMIO, manage per current practice guidelines and provide supportive therapy, which may include intensive care.</li> <li>Ensure CRS symptoms are resolved for at least 72 hours prior to the next dose of LUNSUMIO.<sup>d</sup></li> <li>Administer premedication<sup>e</sup> prior to next dose of LUNSUMIO and infuse the next dose at 50% rate.</li> <li>Hospitalize for the next dose of LUNSUMIO.</li> </ul>
		Recurrent Grade 3 CRS <ul style="list-style-type: none"> <li>Permanently discontinue LUNSUMIO.</li> <li>Manage CRS per current practice guidelines and provide supportive therapy, which may include intensive care.</li> </ul>
Grade 4	Fever $\geq 100.4^{\circ}\text{F}$ ( $38^{\circ}\text{C}$ ) <sup>c</sup> with:  Hypotension requiring multiple vasopressors (excluding vasopressin)  and/or  hypoxia requiring oxygen by positive pressure (e.g., CPAP, BiPAP, intubation and mechanical ventilation).	<ul style="list-style-type: none"> <li>Permanently discontinue LUNSUMIO.</li> <li>Manage CRS per current practice guidelines and provide supportive therapy, which may include intensive care.</li> </ul>
<sup>a</sup> Based on American Society for Transplantation and Cellular Therapy (ASTCT) 2019 grading for CRS. <sup>b</sup> If CRS is refractory to management, consider other causes including hemophagocytic lymphohistiocytosis [ <i>see Warnings and Precautions (5.4)</i> ]. <sup>c</sup> Premedication may mask fever, therefore if clinical presentation is consistent with CRS, follow these management guidelines. <sup>d</sup> Refer to Table 2 for information on restarting LUNSUMIO after dose delays [ <i>see Dosage and Administration (2.2)</i> ]. <sup>e</sup> Refer to Table 3 for additional information on premedication. <sup>f</sup> Low-flow oxygen defined as oxygen delivered at $< 6$ L/minute; high-flow oxygen defined as oxygen delivered at $\geq 6$ L/minute.		

### Dosage Modifications for Neurologic Toxicity, including ICANS

Management recommendations for neurologic toxicity, including ICANS, is summarized in Table 5. At the first sign of neurologic toxicity, including ICANS, consider neurology evaluation and withholding of LUNSUMIO based on the type and severity of neurotoxicity. Rule out other causes of neurologic symptoms. Provide supportive therapy, which may include intensive care.



**Table 5. Recommendations for Management of Neurologic Toxicity (including ICANS)**

Adverse Reaction	Severity <sup>1,2</sup>	Actions
Neurologic Toxicity <sup>1</sup> (including ICANS <sup>2</sup> )	Grade 1	<ul style="list-style-type: none"> <li>Continue LUNSUMIO and monitor neurologic toxicity symptoms.</li> <li>If ICANS, manage per current practice guidelines.</li> </ul>
	Grade 2	<ul style="list-style-type: none"> <li>Withhold LUNSUMIO until neurologic toxicity symptoms improve to Grade 1 or baseline for at least 72 hours.<sup>3</sup></li> <li>Provide supportive therapy, and consider neurologic evaluation.</li> <li>If ICANS, manage per current practice guidelines.</li> </ul>
	Grade 3	<ul style="list-style-type: none"> <li>Withhold LUNSUMIO until neurologic toxicity symptoms improve to Grade 1 or baseline for at least 72 hours.<sup>3</sup></li> <li>Provide supportive therapy, which may include intensive care, and consider neurology evaluation.</li> <li>If ICANS, manage per current practice guidelines.</li> <li>If recurrence of ICANS, permanently discontinue LUNSUMIO.</li> </ul>
	Grade 4	<ul style="list-style-type: none"> <li>Permanently discontinue LUNSUMIO.</li> <li>Provide supportive therapy, which may include intensive care, and consider neurology evaluation.</li> <li>If ICANS, manage per current practice guidelines.</li> </ul>
<sup>1</sup> Based on National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE), version 4.0. <sup>2</sup> Based on American Society for Transplantation and Cellular Therapy (ASTCT) 2019 grading for ICANS. <sup>3</sup> See Table 2 for recommendations on restarting LUNSUMIO after dose delays [see <i>Dosage and Administration</i> (2.2)].		

**Table 6. Recommended Dosage Modification for Other Adverse Reactions**

Adverse Reactions <sup>1</sup>	Severity <sup>1</sup>	Actions
Infections [see <i>Warnings and Precautions</i> (5.3)]	Grades 1 – 4	<ul style="list-style-type: none"> <li>Withhold LUNSUMIO in patients with active infection until the infection resolves.<sup>2</sup></li> <li>For Grade 4, consider permanent discontinuation of LUNSUMIO.</li> </ul>
Neutropenia [see <i>Warnings and Precautions</i> (5.4)]	Absolute neutrophil count less than $0.5 \times 10^9/L$	<ul style="list-style-type: none"> <li>Withhold LUNSUMIO until absolute neutrophil count is <math>0.5 \times 10^9/L</math> or higher.<sup>2</sup></li> </ul>
Other Adverse Reactions [see <i>Warnings and Precautions</i> (5.5) and <i>Adverse Reactions</i> (6.1)]	Grade 3 or higher	<ul style="list-style-type: none"> <li>Withhold LUNSUMIO until the toxicity resolves to Grade 1 or baseline.<sup>2</sup></li> </ul>
<sup>1</sup> Based on National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE), version 4.0. <sup>2</sup> See Table 2 for recommendations on restarting LUNSUMIO after dose delays [see <i>Dosage and Administration</i> (2.2)].		

## 2.5 Preparation and Administration

### Preparation

Use aseptic technique to prepare LUNSUMIO.

- Inspect the vial visually for any particulate matter, prior to administration. Do not use if the solution is discolored, or cloudy, or if foreign particles are present.
- Determine the dose, the total volume of LUNSUMIO solution required, and the number of LUNSUMIO vials needed.

### Dilution

1. Withdraw the volume from an infusion bag of 0.9% Sodium Chloride Injection, USP or 0.45% Sodium Chloride Injection, USP equal to the volume of the LUNSUMIO required for the patient's dose and discard. Only use infusion bags made of polyvinyl chloride (PVC) or polyolefin (PO) such as polyethylene (PE) and polypropylene.
2. Withdraw the required volume of LUNSUMIO from the vial using a sterile needle and syringe and dilute into the infusion bag of 0.9% Sodium Chloride Injection, USP or 0.45% Sodium Chloride Injection, USP according to Table 7. Discard any unused portion left in the vial.

**Table 7. Dilution of LUNSUMIO**

Dose of LUNSUMIO	Volume of LUNSUMIO in 0.9% or 0.45% Sodium Chloride Solution	Size of Infusion Bag
1 mg	1 mL	50 mL or 100 mL
2 mg	2 mL	50 mL or 100 mL
60 mg	60 mL	100 mL or 250 mL
30 mg	30 mL	50 mL, 100 mL, or 250 mL

3. Gently mix the intravenous bag by slowly inverting the bag. *Do not shake.*
4. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Do not use if visibly opaque particles, discoloration, or foreign particles are observed.
5. Apply the peel-off label from the package insert to the infusion bag.
6. Immediately use diluted LUNSUMIO infusion solution. If not used immediately, the diluted solution can be stored refrigerated at 2°C to 8°C (36°F to 46°F) for up to 24 hours and at ambient temperature 9°C to 30°C (48°F to 86°F) for up to 16 hours. Prior to administration, ensure the infusion solution comes to reach room temperature.

### Administration

- Administer as an intravenous infusion only.
- **Do not use an in-line filter to administer LUNSUMIO.**
- Do not mix LUNSUMIO with, or administer through the same infusion line, as other medicinal products.
- No incompatibilities have been observed between LUNSUMIO and intravenous infusion bags with product contacting materials of polyvinyl chloride (PVC), or polyolefins (PO) such as polyethylene (PE) and polypropylene (PP). In addition, no incompatibilities have been observed with infusion sets or infusion aids with product contacting materials of PVC, PE, polyurethane (PUR), polybutadiene (PBD), silicone, acrylonitrile butadiene styrene (ABS), polycarbonate (PC), polyetherurethane (PEU),

fluorinated ethylene propylene (FEP), or polytetrafluorethylene (PTFE), or with drip chamber filter membrane composed of polyamide (PA).

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

LUNSUMIO is a sterile, colorless solution available as:

- Injection: 1 mg/mL mosunetuzumab-axgb of solution in a single-dose vial
- Injection: 30 mg/30 mL (1 mg/mL) mosunetuzumab-axgb of solution in a single-dose vial

### **4 CONTRAINDICATIONS**

None.

### **5 WARNINGS AND PRECAUTIONS**

#### **5.1 Cytokine Release Syndrome**

LUNSUMIO can cause cytokine release syndrome (CRS), including serious or life-threatening reactions [*see Adverse Reactions (6.1)*].

Cytokine release syndrome occurred in 39% of patients who received LUNSUMIO at the recommended dose in the clinical trial, with Grade 1 CRS occurring in 28%, Grade 2 in 15%, Grade 3 in 2%, and Grade 4 in 0.5% of patients. Recurrent CRS occurred in 11% of patients. Most patients experienced CRS following doses of 1 mg on Cycle 1 Day 1 (15%), 2 mg on Cycle 1 Day 8 (5%), and 60 mg on Cycle 1 Day 15 (33%). Five percent of patients experienced CRS after receiving 60 mg on Cycle 2 Day 1 with 1% of patients experiencing CRS following subsequent dosages of LUNSUMIO.

The median time to onset of CRS from the start of administration in Cycle 1 Day 1 was 5 hours (range: 1 hour to 3 days), Cycle 1 Day 8 was 28 hours (range: 5 hours to 3 days), Cycle 1 Day 15 was 25 hours (range: 0.1 hours to 16 days), and Cycle 2 Day 1 was 46 hours (range: 12 hours to 3 days). The median duration of CRS was 3 days (range: 1 to 29 days).

Clinical signs and symptoms of CRS included, but were not limited to, fever, chills, hypotension, tachycardia, hypoxia, and headache. Concurrent neurologic adverse reactions occurred in 6% of patients and included but were not limited to headache, confusional state, and anxiety.

Initiate therapy according to LUNSUMIO step-up dosing schedule to reduce the risk of CRS [*see Dosage and Administration (2.3)*]. Administer pretreatment medications to reduce the risk of CRS, ensure adequate hydration, and monitor patients following administration of LUNSUMIO accordingly.

At the first sign of CRS, immediately evaluate patients for hospitalization, manage per current practice guidelines and administer supportive care; withhold or permanently discontinue LUNSUMIO based on severity [*see Dosage and Administration (2.4)*].

Patients who experience CRS (or other adverse reactions that impair consciousness) should be evaluated and advised not to drive and to refrain from operating heavy or potentially dangerous machinery until resolution.

#### **5.2 Neurologic Toxicity, including Immune Effector Cell-Associated Neurotoxicity Syndrome**

LUNSUMIO can cause serious and life-threatening neurologic toxicity, including immune effector cell-associated neurotoxicity syndrome (ICANS) [*see Adverse Reactions (6.1)*].

Neurologic toxicity occurred in 39% of patients who received LUNSUMIO at the recommended dose in the clinical trial, with Grade 3 neurologic toxicity occurring in 3% of patients. The most frequent neurologic toxicities were headache (21%), peripheral neuropathy (13%), dizziness (11%), and mental status changes (6%, including confusional state, disturbance in attention, cognitive disorder, delirium, encephalopathy, and somnolence). ICANS was reported in 1% of patients (Grade 1: 0.5%, Grade 2: 0.5%) who received LUNSUMIO at the recommended dose in the clinical trial.

Across a broader clinical trial population, ICANS or suspected ICANS occurred in 2.1% (20/949) of patients who received LUNSUMIO. The most frequent manifestations included confusional state and lethargy. Nineteen patients had Grade 1-2 events and 1 patient had a Grade 3 event. The majority of cases (75%) occurred during the first cycle of treatment. The median time to onset was 17 days (range: 1 to 48 days). In total, 87% of cases resolved after a median duration of 3 days (range: 1-20 days).

Coadministration of LUNSUMIO with other products that cause dizziness or mental status changes may increase the risk of neurologic toxicity.

Monitor patients for signs and symptoms of neurologic toxicity during treatment. At the first sign of neurologic toxicity, including ICANS, immediately evaluate the patient, consider neurology evaluation as appropriate, and provide supportive therapy based on severity; withhold or permanently discontinue LUNSUMIO based on severity and follow management recommendations [*see Dosage and Administration (2.4)*].

Patients who experience neurologic toxicity such as tremors, dizziness, insomnia, severe neurotoxicity, or any other adverse reactions that impair consciousness should be evaluated, including potential neurology evaluation, and patients at increased risk should be advised not to drive and to refrain from operating heavy or potentially dangerous machinery until resolution.

### **5.3 Infections**

LUNSUMIO can cause serious or fatal infections [*see Adverse Reactions (6.1)*].

Among patients who received LUNSUMIO at the recommended dose in the clinical trial, serious infections, including opportunistic infections, occurred in 17%, with Grade 3 or 4 infections in 14%, and fatal infections in 0.9% of patients. The most common Grade 3 or greater infections were pneumonia, sepsis, and upper respiratory tract infection.

Monitor patients for signs and symptoms of infection prior to and during treatment with LUNSUMIO and treat appropriately. LUNSUMIO should not be administered in the presence of active infection. Caution should be exercised when considering the use of LUNSUMIO in patients with a history of recurring or chronic infections (e.g., chronic, active Epstein-Barr Virus), with underlying conditions that may predispose to infections or who have had significant prior immunosuppressive treatment. Administer prophylactic antimicrobials according to guidelines.

Withhold LUNSUMIO or consider permanent discontinuation of LUNSUMIO based on severity [*see Dosage and Administration (2.4)*].

### **5.4 Hemophagocytic Lymphohistiocytosis**

LUNSUMIO can cause fatal or serious hemophagocytic lymphohistiocytosis (HLH). HLH is a potentially life-threatening, hyperinflammatory syndrome that is independent of CRS. Common manifestations include fever, elevated ferritin, hemophagocytosis, cytopenias, coagulopathy, hepatitis, and splenomegaly.

Across a broader clinical trial population, HLH occurred in 0.5% (7/1536) of patients. Most cases (5/7) were identified within the first 28 days following initiation of LUNSUMIO, with 3 cases preceded by diagnosed or suspected CRS. Of the 7 cases of HLH, 6 had fatal outcomes, with 2 deaths from HLH alone and 4 deaths with concurrent unresolved HLH. Of the 7 cases of HLH, 4 occurred in the context of concurrent EBV and/or CMV infection.

Monitor for clinical signs and symptoms of HLH. Consider HLH when the presentation of CRS is atypical or prolonged, or when there are features of macrophage activation. For suspected HLH, interrupt LUNSUMIO and evaluate and treat promptly for HLH per current practice guidelines.

### **5.5 Cytopenias**

LUNSUMIO can cause serious or severe cytopenias, including neutropenia, anemia, and thrombocytopenia [*see Adverse Reactions (6.1)*].



Among patients who received the recommended dosage in the clinical trial, Grade 3 or 4 decreased neutrophils occurred in 38%, decreased hemoglobin in 19%, and decreased platelets in 12% of patients. Grade 4 decreased neutrophils occurred in 19% and decreased platelets in 5% of patients. Febrile neutropenia occurred in 2%.

Monitor complete blood counts throughout treatment. Based on the severity of cytopenias, temporarily withhold, or permanently discontinue LUNSUMIO. Consider prophylactic granulocyte colony-stimulating factor administration as applicable [see *Dosage and Administration* (2.4)].

## **5.6 Tumor Flare**

LUNSUMIO can cause serious or severe tumor flare [see *Adverse Reactions* (6.1)].

Among patients who received LUNSUMIO at the recommended dosage in the clinical trial, tumor flare occurred in 4% of patients. Manifestations included new or worsening pleural effusions, localized pain and swelling at the sites of lymphoma lesions, and tumor inflammation.

Patients with bulky tumors or disease located in close proximity to airways or a vital organ should be monitored closely during initial therapy. Monitor for signs and symptoms of compression or obstruction due to mass effect secondary to tumor flare. If compression or obstruction develops, institute standard treatment of these complications.

## **5.7 Embryo-Fetal Toxicity**

Based on its mechanism of action, LUNSUMIO may cause fetal harm when administered to a pregnant woman. Advise pregnant women of the potential risk to the fetus. Advise females of reproductive potential to use effective contraception during treatment with LUNSUMIO and for 3 months after the last dose [see *Use in Specific Populations* (8.1, 8.3)].

# **6 ADVERSE REACTIONS**

The following adverse reactions are described elsewhere in the labeling:

- Cytokine Release Syndrome [see *Warnings and Precautions* (5.1)]
- Neurologic Toxicity, including Immune Effector Cell-associated Neurotoxicity Syndrome [see *Warnings and Precautions* (5.2)]
- Infections [see *Warnings and Precautions* (5.3)]
- Hemophagocytic Lymphohistiocytosis [see *Warnings and Precautions* (5.4)]
- Cytopenias [see *Warnings and Precautions* (5.5)]
- Tumor Flare [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 pooled safety population described in the WARNINGS AND PRECAUTIONS reflects exposure to LUNSUMIO as a single agent in GO29781 in 218 patients with hematologic malignancies in an open-label, multicenter, multi-cohort study. Patients received step-up doses of 1 mg on Cycle 1 Day 1 and 2 mg on Cycle 1 Day 8, followed by 60 mg on Cycle 1 Day 15, and 60 mg on Cycle 2 Day 1, then 30 mg every 3 weeks in subsequent cycles. A treatment cycle was 21 days. Among 218 patients who received LUNSUMIO, 52% were exposed for at least 8 cycles and 8% were exposed for 17 cycles.

In this pooled safety population, the most common ( $\geq 20\%$ ) adverse reactions were cytokine release syndrome (39%), fatigue (36%), rash (34%), pyrexia (24%), and headache (21%). The most common Grade 3 to 4 laboratory abnormalities ( $\geq 10\%$ ) were decreased lymphocyte count (92%), decreased phosphate (41%),

increased glucose (40%), decreased neutrophil count (38%), increased uric acid (15%), decreased white blood cell count (22%), decreased hemoglobin (19%), and decreased platelets (12%).

### Relapsed or Refractory Follicular Lymphoma

#### *GO29781*

The safety of LUNSUMIO was evaluated in GO29781, an open-label, multicenter, multi-cohort study which included a cohort of 90 patients with relapsed or refractory follicular lymphoma (FL) [see *Clinical Studies (14)*]. In this cohort, patients with relapsed or refractory FL were required to have received at least two prior lines of systemic therapy, including an anti-CD20 monoclonal antibody and an alkylating agent. Patients received step-up doses of 1 mg on Cycle 1 Day 1 and 2 mg on Cycle 1 Day 8, followed by 60 mg on Cycle 1 Day 15 and 60 mg on Cycle 2 Day 1, then 30 mg every 3 weeks in subsequent cycles. A treatment cycle was 21 days. The median number of cycles was 8 (range: 1 – 17). In the relapsed or refractory FL cohort, 77% were exposed for at least 8 cycles and 12% were exposed for 17 cycles.

The median age of the patients who received LUNSUMIO in the relapsed or refractory FL cohort was 60 years (range: 29 to 90 years), 61% were male, 82% were White, 4% were Black or African American, 9% were Asian, and 8% were Hispanic or Latino.

Serious adverse reactions occurred in 47% of patients who received LUNSUMIO. Serious adverse reactions in  $\geq 2\%$  of patients included cytokine release syndrome, infection (including urinary tract infection, sepsis, pneumonia, EBV viremia, and COVID-19), renal insufficiency, pyrexia, and tumor flare.

Permanent discontinuation of LUNSUMIO due to an adverse reaction occurred in 3% of patients. Adverse reactions resulting in permanent discontinuation of LUNSUMIO included cytokine release syndrome and EBV viremia.

Dosage interruptions of LUNSUMIO due to an adverse reaction occurred in 37% of patients. Adverse reactions which required dosage interruption in  $\geq 5\%$  of patients included neutropenia, infection, and cytokine release syndrome.

Table 8 summarizes the adverse reactions in patients with relapsed or refractory FL in GO29781.

**Table 8. Adverse Reactions ( $\geq 10\%$ ) in Patients with Relapsed or Refractory FL Who Received LUNSUMIO in GO29781**

Adverse Reaction <sup>1</sup>	LUNSUMIO (N = 90)	
	All Grades (%)	Grade 3 or 4 (%)
<b>Immune system disorders</b>		
Cytokine release syndrome	44	2.2
<b>General disorders and administration site conditions</b>		
Fatigue <sup>2</sup>	42	0
Pyrexia	29	1.1 <sup>#</sup>
Edema <sup>3</sup>	17	1.1
Chills	13	1.1 <sup>#</sup>
<b>Skin and subcutaneous tissue disorders</b>		
Rash <sup>4</sup>	39	4.4 <sup>#</sup>
Pruritus	21	0
Dry skin	16	0
Skin exfoliation	10	0
<b>Nervous system</b>		
Headache <sup>5</sup>	32	1.1 <sup>#</sup>

Adverse Reaction <sup>1</sup>	LUNSUMIO (N = 90)	
	All Grades (%)	Grade 3 or 4 (%)
Peripheral neuropathy <sup>6</sup>	20	0
Dizziness <sup>7</sup>	12	0
<b>Musculoskeletal and connective tissue disorders</b>		
Musculoskeletal pain <sup>8</sup>	28	1.1 <sup>#</sup>
Arthralgia	11	0
<b>Respiratory, thoracic, and mediastinal disorders</b>		
Cough <sup>9</sup>	22	0
Dyspnea <sup>10</sup>	11	1.1 <sup>#</sup>
<b>Gastrointestinal disorders</b>		
Diarrhea	17	0
Nausea	17	0
Abdominal pain <sup>11</sup>	12	1.1 <sup>#</sup>
<b>Infections</b>		
Upper respiratory tract infection <sup>12</sup>	14	2.2 <sup>#</sup>
Urinary tract infection <sup>13</sup>	10	1.1 <sup>#</sup>
<b>Psychiatric disorder</b>		
Insomnia	12	0
<sup>1</sup> Adverse reactions were graded based on CTCAE Version 4.0, with the exception of CRS, which was graded per ASTCT 2019 criteria <sup>2</sup> Fatigue includes fatigue, asthenia, and lethargy <sup>3</sup> Edema includes edema, edema peripheral, peripheral swelling, face edema, swelling face, pulmonary edema, fluid overload, and fluid retention <sup>4</sup> Rash includes rash, rash erythematous, exfoliative rash, rash macular, rash maculo-papular, rash papular, rash pruritic, rash pustular, erythema, palmar erythema, dermatitis, and dermatitis acneiform <sup>5</sup> Headache includes headache and migraine <sup>6</sup> Peripheral neuropathy includes peripheral neuropathy, peripheral sensory neuropathy, paresthesia, dysaesthesia, hypoaesthesia, burning sensation, and neuralgia <sup>7</sup> Dizziness includes dizziness and vertigo <sup>8</sup> Musculoskeletal pain includes musculoskeletal pain, back pain, myalgia, musculoskeletal chest pain, and neck pain <sup>9</sup> Cough includes cough, productive cough, and upper airway cough syndrome <sup>10</sup> Dyspnea includes dyspnea and dyspnea exertional <sup>11</sup> Abdominal pain includes abdominal pain, lower abdominal pain, and abdominal discomfort <sup>12</sup> Upper respiratory tract infection includes upper respiratory tract infection, nasopharyngitis, sinusitis, and rhinovirus infection <sup>13</sup> Urinary tract infection includes urinary tract infection and acute pyelonephritis <sup>#</sup> Only Grade 3 adverse reactions occurred		

Clinically relevant adverse reactions in < 10% of patients who received LUNSUMIO included pneumonia, sepsis, COVID-19, EBV viremia, mental status changes, tumor lysis syndrome, renal insufficiency, anxiety, motor dysfunction (including ataxia, gait disturbance and tremor), tumor flare, and ICANS.

Table 9 summarizes the laboratory abnormalities in patients with relapsed or refractory FL in GO29781.

**Table 9. Select Laboratory Abnormalities ( $\geq 20\%$ ) That Worsened from Baseline in Patients with Relapsed or Refractory FL Who Received LUNSUMIO in GO29781**

Laboratory Abnormality	LUNSUMIO <sup>1</sup>	
	All Grades (%)	Grade 3 or 4 (%)
<b>Hematology</b>		
Lymphocyte count decreased	100	98
Hemoglobin decreased	68	12
White blood cells decreased	60	13
Neutrophils decreased	58	40
Platelets decreased	46	10
<b>Chemistry</b>		
Phosphate decreased	78	46
Glucose increased	42	42
Aspartate aminotransferase increased	39	4.4
Gamma-glutamyl transferase increased	34	9
Magnesium decreased	34	0
Potassium decreased	33	6
Alanine aminotransferase increased	32	7
Uric acid increased	22	22
<sup>1</sup> The denominator used to calculate the rate varied from 72 to 90 based on the number of patients with a baseline value and at least one post-treatment value.		

## 7 DRUG INTERACTIONS

### Effect of LUNSUMIO on CYP450 Substrates

LUNSUMIO causes release of cytokines [see *Clinical Pharmacology (12.2)*] that may suppress activity of CYP450 enzymes, resulting in increased exposure of CYP450 substrates. Increased exposure of CYP450 substrates is more likely to occur after the first dose of LUNSUMIO on Cycle 1 Day 1 and up to 14 days after the second 60 mg dose on Cycle 2 Day 1 and during and after CRS [see *Warnings and Precautions (5.1)*]. Monitor for toxicity or concentrations of drugs that are CYP450 substrates where minimal concentration changes may lead to serious adverse reactions. Consult the concomitant CYP450 substrate drug prescribing information for recommended dosage modification.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

Based on the mechanism of action, LUNSUMIO may cause fetal harm when administered to a pregnant woman [see *Clinical Pharmacology (12.1)*]. There are no available data on the use of LUNSUMIO in pregnant women to evaluate for a drug-associated risk. No animal reproductive or developmental toxicity studies have been conducted with mosunetuzumab-axgb.

Mosunetuzumab-axgb causes T-cell activation and cytokine release; immune activation may compromise pregnancy maintenance. In addition, based on expression of CD20 on B-cells and the finding of B-cell depletion in non-pregnant animals, mosunetuzumab-axgb can cause B-cell lymphocytopenia in infants exposed to mosunetuzumab-axgb in-utero. Human immunoglobulin G (IgG) is known to cross the placenta; therefore, LUNSUMIO has the potential to be transmitted from the mother to the developing fetus. Advise women of the potential risk to the fetus.

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



## 8.2 Lactation

### Risk Summary

There is no information regarding the presence of mosunetuzumab-axgb in human milk, the effect on the breastfed child, or milk production. Because human IgG is present in human milk, and there is potential for mosunetuzumab-axgb absorption leading to B-cell depletion, advise women not to breastfeed during treatment with LUNSUMIO and for 3 months after the last dose.

## 8.3 Females and Males of Reproductive Potential

LUNSUMIO may cause fetal harm when administered to a pregnant woman [*see Use in Specific Populations (8.1)*].

### Pregnancy Testing

Verify pregnancy status in females of reproductive potential prior to initiating LUNSUMIO.

### Contraception

#### *Females*

Advise females of reproductive potential to use effective contraception during treatment with LUNSUMIO and for 3 months after the last dose.

## 8.4 Pediatric Use

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

## 8.5 Geriatric Use

Among the 90 patients with relapsed or refractory follicular lymphoma treated with LUNSUMIO, 33% were 65 years of age or older, and 8% were 75 years of age or older. There is an insufficient number of patients 65 years of age or older and 75 years of age or older to assess whether there are differences in safety or effectiveness in patients 65 years of age and older compared to younger adult patients.

## 11 DESCRIPTION

Mosunetuzumab-axgb is a bispecific CD20-directed CD3 T-cell engager. It is a humanized monoclonal anti-CD20xCD3 T-cell-dependent bispecific antibody of the immunoglobulin G1 (IgG1) isotype. Mosunetuzumab-axgb is produced in Chinese Hamster Ovary (CHO) cells by recombinant DNA technology. The approximate molecular weight is 146 kDa.

LUNSUMIO (mosunetuzumab-axgb) injection is a sterile, preservative-free, colorless solution for intravenous use.

Each single-dose vial contains a 1 mL solution of mosunetuzumab-axgb (1 mg), acetic acid (0.4 mg), histidine (1.6 mg), methionine (1.5 mg), polysorbate 20 (0.6 mg), sucrose (82.1 mg), and Water for Injection, USP. The pH is 5.8.

Each single-dose vial contains a 30 mL solution of mosunetuzumab-axgb (30 mg), acetic acid (12.8 mg), histidine (46.6 mg), methionine (44.8 mg), polysorbate 20 (18 mg), sucrose (2,462.4 mg), and Water for Injection, USP. The pH is 5.8.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Mosunetuzumab-axgb is a T-cell engaging bispecific antibody that binds to the CD3 receptor expressed on the surface of T-cells and CD20 expressed on the surface of lymphoma cells and some healthy B-lineage cells.

In vitro, mosunetuzumab-axgb activated T-cells, caused the release of proinflammatory cytokines, and induced lysis of B-cells.

## 12.2 Pharmacodynamics

After administration of the recommended dosage of LUNSUMIO, peripheral B-cell counts decreased to undetectable levels (< 5 cells/microliter) in most patients (92%) by Cycle 2 Day 1 and the depletion was sustained at later cycles including at Cycle 4 and Cycle 8.

LUNSUMIO caused hypogammaglobulinemia (defined as IgG levels < 500 mg/dL). Among 67 patients with baseline IgG levels  $\geq$  500 mg/dL, 40% had their IgG level decreased to < 500 mg/dL after administration of the recommended dosage of LUNSUMIO.

Plasma concentrations of cytokines (IL-2, IL-6, IL-10, TNF- $\alpha$ , and IFN- $\gamma$ ) were measured, and transient elevation of cytokines were observed at doses of 0.4 mg and above. After administration of the recommended dosage of LUNSUMIO, the highest elevation of cytokines was observed within 24 hours after first dose on Cycle 1 Day 1 and after the first 60 mg dose on Cycle 1 Day 15. The elevated cytokine levels generally returned to baseline prior to the next infusion on Cycle 1 Day 8 and on Cycle 2 Day 1. Limited data is available in subsequent treatment cycles.

## 12.3 Pharmacokinetics

Mosunetuzumab-axgb PK exposure increased proportionally over a dose range from 0.2 mg to 60 mg (0.007 to 2 times the recommended treatment dosage). PK exposures are summarized for the recommended dosage of LUNSUMIO in Table 10 and Figure 1.

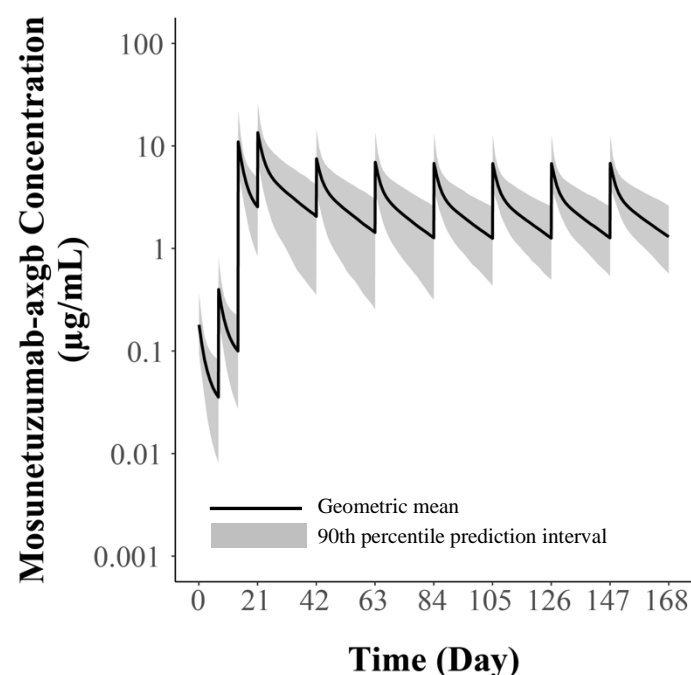
**Table 10. Exposure Parameters of Mosunetuzumab-axgb**

	AUC (day• $\mu$ g/mL) <sup>1</sup>	C <sub>max</sub> ( $\mu$ g/mL) <sup>1</sup>	C <sub>trough</sub> ( $\mu$ g/mL) <sup>1</sup>
Cycle 1 (0 – 21 days)	35.2 (36.6)	11.1 (36.7)	2.57 (54.0)
Cycle 2 (21 – 42 days)	90.3 (48.5)	13.6 (37.7)	1.97 (83.1)
Steady state <sup>2</sup>	52.9 (40.7)	7.02 (37.9)	1.29 (59.9)

<sup>1</sup> Values are geometric mean with geometric CV%

<sup>2</sup> Steady state values are approximated at Cycle 4 (63 – 84 days)

**Figure 1. Model-Predicted Mosunetuzumab Concentration Time Profile**



### Distribution

The mean (CV%) volume of distribution of mosunetuzumab-axgb was 5.49 L (31%).

## Elimination

The steady-state geometric mean (CV%) terminal elimination half-life of mosunetuzumab-axgb was 16.1 (17.3%) days. The geometric mean (CV%) clearance at baseline and at steady state are 1.08 L/day (63%) and 0.584 L/day (18%), respectively.

## Specific Populations

There were no clinically significant differences in the pharmacokinetics of mosunetuzumab-axgb based on age (19 to 96 years), sex, race (Asian and Non-Asian), ethnicity (Hispanic/Latino and not Hispanic/Latino), mild or moderate renal impairment (estimated Creatinine clearance [CrCL] by Cockcroft-Gault formula: 30 to 89 mL/min), or mild hepatic impairment (total bilirubin less than or equal to upper limit of normal [ULN] with AST greater than ULN or total bilirubin greater than 1 to 1.5 times ULN with any AST).

The effects of severe renal impairment (CrCL 15 to 29 mL/min) or moderate to severe hepatic impairment (total bilirubin greater than 1.5 times ULN with any AST) on the pharmacokinetics of mosunetuzumab-axgb are unknown.

## Drug Interaction Studies

No clinical studies evaluating the drug interaction potential of mosunetuzumab-axgb have been conducted.

## **12.6 Immunogenicity**

The observed incidence of anti-drug antibodies is highly dependent on the sensitivity and specificity of the assay. Differences in assay methods preclude meaningful comparisons of the incidence of anti-drug antibodies in the study described below with the incidence of anti-drug antibodies in other studies, including those of mosunetuzumab-axgb.

During treatment in Study GO29781 (up to 12 months) [*see Clinical Studies (14)*], using an enzyme-linked immunosorbent assay (ELISA), no patients (N = 418) treated with LUNSUMIO developed anti-mosunetuzumab-axgb antibodies. Based on these data, the clinical relevance of anti-mosunetuzumab-axgb antibodies could not be assessed.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

No carcinogenicity or genotoxicity studies have been conducted with mosunetuzumab-axgb.

No dedicated studies have been conducted to evaluate the effects of mosunetuzumab-axgb on fertility. No adverse effects on either male or female reproductive organs were identified in a 26-week repeat dose chronic toxicity study in sexually mature cynomolgus monkeys.

## **14 CLINICAL STUDIES**

The efficacy of LUNSUMIO was evaluated in an open-label, multicenter, multi-cohort study (GO29781, NCT02500407) in patients with relapsed or refractory follicular lymphoma (FL) who had received at least two prior therapies, including an anti-CD20 monoclonal antibody and an alkylating agent. The study excluded patients with active infections, history of autoimmune disease, prior allogeneic transplant, or any history of CNS lymphoma or CNS disorders.

Patients received step-up doses of 1 mg on Cycle 1 Day 1 and 2 mg on Cycle 1 Day 8, followed by 60 mg on Cycle 1 Day 15, and 60 mg on Cycle 2 Day 1, then 30 mg every 3 weeks in subsequent cycles. A treatment cycle was 21 days. LUNSUMIO was administered for 8 cycles unless patients experienced progressive disease or unacceptable toxicity. After 8 cycles, patients with a complete response discontinued therapy; patients with a partial response or stable disease continued treatment up to 17 cycles, unless patients experienced progressive disease or unacceptable toxicity.

Among the 90 patients with relapsed or refractory FL, the median age was 60 years (range: 29 to 90 years), 33% were 65 years of age or older, 61% were male, 82% were White, 9% were Asian, 4% were Black or African

American, and 8% were Hispanic or Latino. A total of 77% of patients had Stage III-IV disease, 34% had bulky disease, and all patients had an Eastern Cooperative Oncology Group (ECOG) performance status of 0 or 1. The median number of prior therapies was 3 (range: 2 to 10), with 38% receiving 2 prior therapies, 31% receiving 3 prior therapies, and 31% receiving more than 3 prior therapies.

Seventy-nine percent of patients were refractory to prior anti-CD20 monoclonal antibody therapy, 53% were refractory to both anti-CD20 monoclonal antibody and alkylator therapy, 9% received prior rituximab plus lenalidomide therapy, 21% received prior autologous stem cell transplant, and 3% received prior CAR T therapy. Fifty-two percent of patients had progression of disease within 24 months of first systemic therapy.

Efficacy was established on the basis of objective response rate (ORR) and duration of response (DOR) as assessed by an independent review facility according to standard criteria for NHL (Cheson 2007). The median follow-up for DOR was 14.9 months. The efficacy results are summarized in Table 11.

**Table 11. Efficacy Results in Patients with Relapsed or Refractory FL**

<b>Response</b>	<b>LUNSUMIO N = 90</b>
<b>Objective response rate (ORR), n (%)</b> (95% CI)	72 (80) (70, 88)
Complete response rate (CR), n (%) (95% CI)	54 (60) (49, 70)
Partial response rate (PR), n (%) (95% CI)	18 (20) (12, 30)
<b>Duration of Response (DOR)</b>	N = 72
Median DOR <sup>1,2</sup> , months (95% CI)	22.8 (10, NR)
Rate of Continued Response <sup>2</sup>	
At 12 months, % (95% CI)	62 (50, 74)
At 18 months, % (95% CI)	57 (44, 70)
CI = confidence interval; NR = not reached	
<sup>1</sup> DOR is defined as the time from the initial occurrence of a documented PR or CR until the patient experienced an event (documented disease progression or death due to any cause, whichever occurs first), among patients who achieved a PR or CR.	
<sup>2</sup> Kaplan-Meier estimate.	

The median time to first response was 1.4 months (range: 1.1 to 8.9).

## 16 HOW SUPPLIED/STORAGE AND HANDLING

LUNSUMIO (mosunetuzumab-axgb) injection is a sterile, colorless, preservative-free solution supplied as follows:

- One 1 mg/mL single-dose vial in a carton (NDC 50242-159-01)
- One 30 mg/30 mL (1 mg/mL) single-dose vial in a carton (NDC 50242-142-01).

Store refrigerated at 2°C to 8°C (36°F to 46°F) in the original carton to protect from light.

Do not freeze. Do not shake.

## 17 PATIENT COUNSELING INFORMATION

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

**Cytokine Release Syndrome (CRS)** – Discuss the signs and symptoms associated with CRS, including fever, chills, hypotension, tachycardia, hypoxia, and headache. Counsel patients to seek immediate medical attention should signs or symptoms of CRS occur at any time. Advise patients who experience symptoms that impair



consciousness not to drive and refrain from operating heavy or potentially dangerous machinery until events resolve [*see Warnings and Precautions (5.1)*].

Neurologic Toxicity, including ICANS – Discuss the signs and symptoms associated with neurologic toxicity, including ICANS, headache, peripheral neuropathy, dizziness, or mental status changes. Advise patients to immediately contact their healthcare provider if they experience any signs or symptoms of neurologic toxicity. Advise patients who experience neurologic toxicity that impairs consciousness to refrain from driving or operating heavy or potentially dangerous machinery until neurologic toxicity resolves [*see Warnings and Precautions (5.2)*].

Infections – Discuss the signs or symptoms associated with infection [*see Warnings and Precautions (5.3)*].

Hemophagocytic Lymphohistiocytosis (HLH) – Discuss the signs and symptoms associated with HLH, including fever, coagulopathy, cytopenias, and splenomegaly [*see Warnings and Precautions (5.4)*].

Cytopenias – Discuss the signs and symptoms associated with cytopenias, including neutropenia and febrile neutropenia, anemia, and thrombocytopenia [*see Warnings and Precautions (5.5)*].

Tumor Flare – Inform patients of the potential risk of tumor flare reaction and to report any signs and symptoms associated with this event to their healthcare provider for evaluation [*see Warnings and Precautions (5.6)*].

Embryo-Fetal Toxicity – Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to inform their healthcare provider if they are pregnant or become pregnant [*see Use in Specific Populations (8.1)*]. Advise females of reproductive potential to use effective contraception during treatment with LUNSUMIO and for 3 months after the last dose [*see Use in Specific Populations (8.3)*].

Lactation – Advise women not to breastfeed during treatment with LUNSUMIO and for 3 months after the last dose [*see Use in Specific Populations (8.2)*].

Manufactured by:

**Genentech, Inc.**

A Member of the Roche Group

1 DNA Way

South San Francisco, CA 94080-4990

U.S. License No.: 1048

LUNSUMIO is a trademark of Genentech, Inc.

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**MEDICATION GUIDE**  
**LUNSUMIO™ (lun-SUM-mee-oh)**  
**(mosunetuzumab-axgb)**  
**injection, for intravenous infusion**

**What is the most important information I should know about LUNSUMIO?**

**LUNSUMIO may cause Cytokine Release Syndrome (CRS)**, a serious side effect that is common during treatment with LUNSUMIO, and can also be severe or life-threatening.

**Get medical help right away if you develop any signs or symptoms of CRS at any time, including:**

- fever of 100.4°F (38°C) or higher
- chills
- low blood pressure
- fast or irregular heartbeat
- tiredness or weakness
- difficulty breathing
- headache
- confusion
- feeling anxious
- dizziness or light-headedness
- nausea
- vomiting

**Due to the risk of CRS, you will receive LUNSUMIO on a “step-up dosing schedule”.**

- The step-up dosing schedule is when you receive smaller “step-up” doses of LUNSUMIO on Day 1 and Day 8 of your first cycle of treatment.
- You will receive a higher dose of LUNSUMIO on Day 15 of your first cycle of treatment.
- If your dose of LUNSUMIO is delayed for any reason, you may need to repeat the “step-up dosing schedule.”
- Before each dose in Cycle 1 and Cycle 2, you will receive medicines to help reduce your risk of CRS.
- See **“How will I receive LUNSUMIO?”** for more information about how you will receive LUNSUMIO.

Your healthcare provider will check you for CRS during treatment with LUNSUMIO and may treat you in a hospital if you develop signs and symptoms of CRS. Your healthcare provider may temporarily stop or completely stop your treatment with LUNSUMIO if you have severe side effects.

See **“What are the possible side effects of LUNSUMIO?”** for more information about side effects.

**What is LUNSUMIO?**

LUNSUMIO is a prescription medicine used to treat adults with follicular lymphoma whose cancer has come back or did not respond to previous treatment, and who have already received two or more treatments for their cancer.

It is not known if LUNSUMIO is safe and effective in children.

**Before receiving LUNSUMIO, tell your healthcare provider about all of your medical conditions, including if you:**

- have ever had an infusion reaction after receiving LUNSUMIO.
- have an infection or have had an infection in the past which lasted a long time or keeps coming back.
- have or had Epstein-Barr Virus.
- are pregnant or plan to become pregnant. LUNSUMIO may harm your unborn baby. Tell your healthcare provider right away if you become pregnant or think you may be pregnant during treatment with LUNSUMIO.

**Females who are able to become pregnant:**

- your healthcare provider should do a pregnancy test before you start treatment with LUNSUMIO.
- you should use an effective method of birth control (contraception) during your treatment and for 3 months after the last dose of LUNSUMIO.
- are breastfeeding or plan to breastfeed. It is not known if LUNSUMIO passes into your breast milk. Do not breastfeed during treatment and for 3 months after the last dose of LUNSUMIO.

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

### How will I receive LUNSUMIO?

- LUNSUMIO will be given to you by your healthcare provider by infusion through a needle placed in a vein (intravenous infusion).
- After you complete the weekly “step-up dosing schedule” in Cycle 1, LUNSUMIO is given every 21 days.
- After Cycle 1 and Cycle 2, your healthcare provider will decide if you need to continue to take other medicines to help reduce side effects from LUNSUMIO during future cycles.
- Your healthcare provider will decide how many treatment cycles you will receive of LUNSUMIO.

See “**What is the most important information I should know about LUNSUMIO?**” for more information about how you will receive LUNSUMIO.

### What should I avoid while receiving LUNSUMIO?

Do not drive, operate heavy machinery, or do other dangerous activities if you develop dizziness, confusion, tremors, sleepiness, or any other symptoms that impair consciousness until your signs and symptoms go away. These may be signs and symptoms of CRS or neurologic problems.

See “**What is the most important information I should know about LUNSUMIO?**” and “**What are the possible side effects of LUNSUMIO?**” for more information about signs and symptoms of CRS and neurologic problems.

### What are the possible side effects of LUNSUMIO?

**LUNSUMIO may cause serious side effects, including:**

See “**What is the most important information I should know about LUNSUMIO?**”

- **neurologic problems.** LUNSUMIO can cause serious and life-threatening neurologic problems. Your healthcare provider will check you for neurologic problems during treatment with LUNSUMIO. Your healthcare provider may also refer you to a healthcare provider who specializes in neurologic problems. Tell your healthcare provider right away if you develop any signs or symptoms of neurologic problems during or after treatment with LUNSUMIO, including:
  - headache
  - numbness and tingling of the arms, legs, hands, or feet
  - dizziness
  - confusion and disorientation
  - difficulty paying attention or understanding things
  - forgetting things or forgetting who or where you are
  - trouble speaking, reading, or writing
  - sleepiness or trouble sleeping
  - tremors
  - loss of consciousness
  - seizures
  - muscle problems or muscle weakness
  - loss of balance or trouble walking
  - tiredness
- **serious infections.** LUNSUMIO can cause serious infections that may lead to death. Your healthcare provider will check you for signs and symptoms of infection before and during treatment. Tell your healthcare provider right away if you develop any signs or symptoms of infection during treatment with LUNSUMIO, including:
  - fever of 100.4°F (38°C) or higher
  - cough
  - chest pain
  - tiredness
  - shortness of breath
  - painful rash
  - sore throat
  - pain during urination
  - feeling weak or generally unwell
- **hemophagocytic lymphohistiocytosis (HLH).** LUNSUMIO can cause overactivity of the immune system, a condition called hemophagocytic lymphohistiocytosis (HLH). HLH can be life-threatening and has led to death in people treated with LUNSUMIO. Your healthcare provider will check you for HLH especially if your CRS lasts longer than expected. Signs and symptoms of HLH include:
  - fever
  - enlarged spleen
  - easy bruising
  - low blood cell counts
  - liver problems
- **low blood cell counts.** Low blood cell counts are common during treatment with LUNSUMIO and can also be serious or severe.

Your healthcare provider will check your blood cell counts during treatment with LUNSUMIO. LUNSUMIO can cause the following low blood cell counts:

  - **low white blood cell counts (neutropenia).** Low white blood cells can increase your risk for infection.
  - **low red blood cell counts (anemia).** Low red blood cells can cause tiredness and shortness of breath.
  - **low platelet counts (thrombocytopenia).** Low platelet counts can cause bruising or bleeding problems.

- **growth in your tumor or worsening of tumor related problems (tumor flare).** LUNSUMIO can cause serious or severe worsening of your tumor.

Tell your healthcare provider if you develop any of these signs or symptoms of tumor flare during your treatment with LUNSUMIO:

- chest pain
- cough
- trouble breathing
- tender or swollen lymph nodes
- pain or swelling at the site of the tumor

**Your healthcare provider may temporarily stop or permanently stop treatment with LUNSUMIO if you develop severe side effects.**

**The most common side effects of LUNSUMIO include:** tiredness, rash, fever, and headache.

**The most common severe abnormal blood test results with LUNSUMIO include:** decreased phosphate, increased glucose, and increased uric acid levels.

These are not all the possible side effects of LUNSUMIO.

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 LUNSUMIO.**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. You can ask your pharmacist or healthcare provider for information about LUNSUMIO that is written for health professionals.

#### **What are the ingredients in LUNSUMIO?**

**Active ingredient:** mosunetuzumab-axgb

**Inactive ingredients:** acetic acid, histidine, methionine, polysorbate 20, sucrose, and Water for Injection

Manufactured by: **Genentech, Inc.**, A Member of the Roche Group, 1 DNA Way, South San Francisco, CA 94080-4990

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For more information, call 1-844-832-3687 or go to [www.LUNSUMIO.com](http://www.LUNSUMIO.com).