

# An introduction to KYMRIAH THERAPY

# THE FIRST FDA-APPROVED CAR-T for patients up to 25 years of age with relapsed/refractory ALL

#### **Approved Use**

#### What is KYMRIAH?

KYMRIAH is made from your own white blood cells and is a prescription cancer treatment used in patients up to 25 years of age who have acute lymphoblastic leukemia (ALL) that has relapsed (went into remission, then came back) or is refractory (did not go into remission with other leukemia treatments).

#### **Important Safety Information**

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

KYMRIAH may cause side effects that are severe or life-threatening, such as cytokine release syndrome (CRS) and neurological toxicities. Call your health care provider or get emergency help right away if you get any of the following signs and symptoms of:

- Cytokine Release Syndrome:
- Difficulty breathing
- ° Fever (100.4°F/38°C or higher)
- o Chills/shaking chills
- Severe nausea, vomiting, diarrhea
- Severe muscle or joint pain
- Very low blood pressure
- Dizziness/ lightheadedness

Please see additional Important Safety Information throughout and Summary of Important Safety Information on pages 22 and 23.

### An innovative kind of treatment

Finding out that your cancer has returned or hasn't responded to treatment can be devastating. However, advancements in treatment have led to more options. Learning about these treatments can help you navigate your next steps.

This brochure will explain an innovative treatment that uses your own immune system to fight your cancer.

Read on to learn more about KYMRIAH® (tisagenlecleucel).



KYMRIAH is a type of <u>immunotherapy</u> for patients with <u>relapsed</u> or <u>refractory</u> B-cell ALL whose previous treatments have not kept their cancer in remission.

#### Important Safety Information (continued)

What is the most important information I should know about KYMRIAH? (continued)

- Neurological Toxicities:
- Altered or decreased consciousness

Delirium

- Confusion
- ° Agitation
- Seizures

- Difficulty speaking and understanding
- Loss of balance

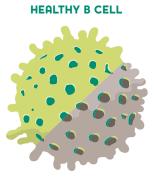
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#### What is B-cell ALL?

<u>B cells</u> are defenders of your body. Along with other cells, they make up your body's immune system. When B cells become cancerous, they can grow out of control and cause a type of blood cancer called B-cell acute lymphoblastic leukemia (ALL). While many patients with leukemia get better after their first treatment, some may not.



**CANCEROUS B CELL** 

#### What does relapsed/refractory mean?

About 20% of patients with B-cell ALL will not have success with initial treatments. This means either their cancer has returned (<u>relapsed</u>) or their cancer did not respond to treatment (<u>refractory</u>).

In the past, the only choices for patients with relapsed or refractory B-cell ALL were chemotherapy, radiation, or stem cell transplant. But there have been advancements in different types of treatment options, including KYMRIAH® (tisagenlecleucel).

A glossary of terms is included on page 21 of this brochure to help you understand words you may not have heard before.

#### Important Safety Information (continued)

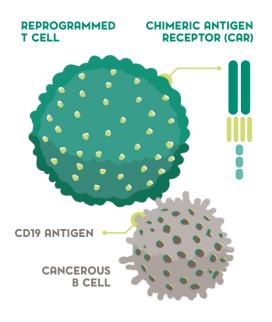
What is the most important information I should know about KYMRIAH? (continued)

You may be admitted to the hospital and treated with other medications if you have any of these side effects. If you are admitted to the hospital, tell the health care provider that you have received KYMRIAH.

#### What is KYMRIAH?

KYMRIAH is a type of cutting-edge <u>immunotherapy</u> that uses the power of your own immune system to treat your cancer. KYMRIAH is not a pill, chemotherapy, or stem cell transplant. It is a type of treatment called <u>CAR-T</u>. The **CAR** in **CAR-T** stands for <u>chimeric</u> antigen receptor, and the **T** stands for <u>T cell</u>.

# KYMRIAH enhances the ability of your T cells to detect and destroy your B cells



- Your immune system includes T cells, which are natural defenders of the body
- T cells detect and destroy infected or cancerous cells by looking for certain antigens
- Antigens are markers on cells that help your immune system identify normal cells from infected or cancerous cells; however, your cancerous B cells look like normal B cells, so your T cells don't always recognize them
- KYMRIAH reprograms your own T cells into CAR-T cells, which allows them to recognize the CD19 antigen on the surface of your B cells.
   Your new CAR-T cells can destroy the cancerous and other B cells they could not find before

Because KYMRIAH uses your own T cells, you may hear it referred to as an "individualized" therapy. After being treated with KYMRIAH, you may not need any other treatment for your cancer, though you will continue to be closely monitored by your doctor.



# Is KYMRIAH right for me?

KYMRIAH® (tisagenlecleucel) is approved to treat children and young adults whose B-cell ALL is refractory or in second or later relapse.

#### Talk with your doctor about KYMRIAH

If your treatment isn't working and your cancer has returned, KYMRIAH might be an appropriate next step. It's important to talk with your doctor early in the process. Your doctor may ask you questions about your treatment history and overall health to determine if you can receive KYMRIAH.

#### Topics to discuss with your doctor:

- Your treatment history
- Your cancer's past response to chemotherapy
- Any previous stem cell transplants
- Other conditions you may have
- All current medications, including supplements or steroids
- What tests are needed to make sure KYMRIAH is right for you

# YOUR DOCTOR YOU storoids

#### Important Safety Information (continued)

What are other serious side effects of KYMRIAH?

• Hemophagocytic Lymphohistiocytosis (HLH)/Macrophage Activation Syndrome (MAS): Be sure to discuss with your health care provider the possibility of developing this lifethreatening condition, and thereafter, your doctor will monitor you for the possibility of developing HLH/MAS

# What makes KYMRIAH different from other therapies?



KYMRIAH is different from other cancer therapies because it is an **individualized therapy made just for you**. KYMRIAH is a <u>CAR-T therapy</u> that uses the power of your own immune system to fight your cancer.

- Even if you aren't in remission, you can start KYMRIAH therapy
- KYMRIAH is typically given in a single infusion, unlike other treatments delivered more than once
- KYMRIAH uses a short course of chemotherapy to prepare your body for infusion
- Because KYMRIAH uses your own cells, you do not need a donor

Please see <u>page 12</u> of this brochure for more information about the side effects of KYMRIAH.

#### Important Safety Information (continued)

What are other serious side effects of KYMRIAH? (continued)

• Allergic Reactions: Serious allergic reactions, including anaphylaxis, which is a life-threatening allergic reaction, may occur after you receive KYMRIAH. Some signs and symptoms may include difficulty breathing, very low blood pressure, dizziness, swelling under skin, rash, nausea, and vomiting. You should seek emergency medical treatment right away if you have an allergic reaction



### How well does KYMRIAH work?

KYMRIAH® (tisagenlecleucel) was originally studied in a global clinical trial of children and young adults with <u>relapsed</u> or <u>refractory</u> B-cell ALL, with many achieving an early and lasting <u>remission</u>. While many patients have been successfully treated with KYMRIAH, not all patients will respond the same way.

The goal of KYMRIAH therapy is long-term remission of your cancer

#### MONTH 3

# MORE 8 OUT OF 10

patients treated with KYMRIAH went into remission

Nearly 100% of the patients who went into remission after KYMRIAH treatment had no detectable signs of cancer

#### Important Safety Information (continued)

What are other serious side effects of KYMRIAH? (continued)

• **Serious Infections:** KYMRIAH can increase the risk of life-threatening infections that may lead to death. Tell your health care provider right away if you develop fever, chills, or any signs or symptoms of an infection

# What are the long-term results?

Since KYMRIAH was approved, patients from the clinical trial have been followed to see how well they do over the course of years. A long-term follow-up of patients in the clinical trial was done at 24 months from the date of infusion of KYMRIAH.

#### **MONTH 6**





#### MONTH 24





At 24 months, almost 9 out of 10 patients had not gone on to receive a stem cell transplant.

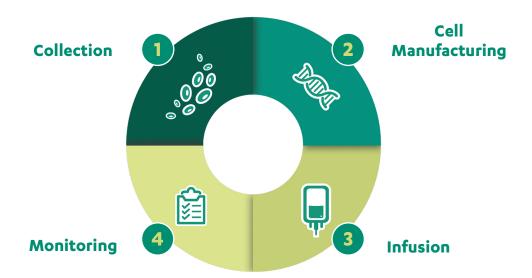
#### Important Safety Information (continued)

What are other serious side effects of KYMRIAH? (continued)

• **Prolonged Low Blood Cell Counts (Cytopenia):** KYMRIAH can lower 1 or more types of your blood cells (red blood cells, white blood cells, or platelets). After treatment, your health care provider may test your blood to check cell counts. Tell your health care provider right away if you get a fever or other symptoms of an infection, are feeling tired, weak, or short of breath, or have unusual bruising or bleeding



# What is the process for getting KYMRIAH?



Collection

First, your doctor takes some of your blood to collect your <u>T cells</u>. This T cell collection process is called <u>leukapheresis</u> (loo-kuh-fuh-REE-sis), which usually takes 3 to 6 hours.

2 Cell Manufacturing

Your collected T cells will be reprogrammed into KYMRIAH® (tisagenlecleucel) <u>CAR-T</u> cells at a specialized manufacturing facility. The process usually takes 3 to 4 weeks, but timing and manufacturing outcomes can vary. Your treatment team can help guide you through the process.

#### Important Safety Information (continued)

What are other serious side effects of KYMRIAH? (continued)

- **Hypogammaglobulinemia:** A condition in which the level of immunoglobulins (antibodies) in your blood is low and the risk of infection is increased. It is expected that you may develop hypogammaglobulinemia with KYMRIAH, and you may need to receive immunoglobulin replacement for an indefinite amount of time following treatment with KYMRIAH. Tell your health care provider about your treatment with KYMRIAH before receiving a live vaccine
- **Secondary Cancers:** KYMRIAH may increase your risk of getting cancers, including certain types of blood cancers. Your health care provider should monitor you for this

3 Infusion

About 2 to 14 days before your CAR-T cells are ready, you will receive a short course of chemotherapy over 4 days that helps prepare your body to receive your reprogrammed KYMRIAH CAR-T cells.

Once your treatment team decides you are ready, you will receive your CAR-T cells through an infusion that takes less than 30 minutes.

4 Monitoring

**In the short term,** regular monitoring to manage side effects is important. Whether you received your infusion in an inpatient or outpatient setting, it will be necessary to stay close to a health care facility for at least 2 weeks after receiving KYMRIAH. Avoid driving for at least 2 weeks after you get KYMRIAH.

In the long term, your treatment team will establish a monitoring plan for ongoing follow-ups. The US Food and Drug Administration (FDA) recommends that all patients who are treated with KYMRIAH be followed for 15 years after infusion. Your treatment team will offer you participation in a long-term registry conducted by the Center for International Blood and Marrow Transplant Research (CIBMTR) for this follow-up. This information is used to help future patients and contributes to the understanding of the effects of CAR-T cell therapy.

Your treatment team will be there to help guide you through the process.



# What side effects may I experience with KYMRIAH?

KYMRIAH® (tisagenlecleucel) may cause side effects that are severe or life-threatening. Your treatment team is specially trained to monitor for and manage these potential side effects. Most side effects happen in the weeks following infusion with KYMRIAH.

Get help immediately if you experience any of the following:

- Difficulty breathing
- Fever (100.4°F/38°C or higher)
   Very low blood pressure
- Chills/shaking chills
- Confusion



- Severe muscle or joint pain
- Dizziness/lightheadedness
- Severe nausea, vomiting, diarrhea

# **Cytokine Release Syndrome**

Cytokine release syndrome (CRS) may occur when your immune system becomes highly active. It is the most common and expected side effect of KYMRIAH, as well as other <u>CAR-T therapies</u>. Symptoms range from fever or low blood pressure to irregular or rapid heartbeat. CRS may be associated with liver, kidney, and heart dysfunction and bleeding disorders.

Most patients in the clinical trial experienced CRS, usually within 10 days after infusion. Your treatment team will check your progress after infusion. Members of your team are trained to recognize the symptoms of CRS and have specific medicines to treat it.

#### **Neurological Events**

KYMRIAH may also have effects on the central nervous system, making you feel confused, agitated, dizzy, or disoriented. More severe symptoms might affect your speech or consciousness or cause seizures. Be sure to tell your treatment team right away if you experience any neurological symptoms. Most neurological events went away on their own in the clinical trials.

# Hemophagocytic Lymphohistiocytosis (HLH)/Macrophage Activation Syndrome (MAS)

Presenting signs and symptoms are similar to those of CRS and infections.

#### Allergic Reactions

Serious allergic reactions, including anaphylaxis, which is a life-threatening allergic reaction, may occur after you receive KYMRIAH. Some signs and symptoms may include difficulty breathing, very low blood pressure, dizziness, swelling under skin, rash, nausea, and vomiting. You should seek emergency medical treatment right away if you have an allergic reaction.

#### **Serious Infections**

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

Please see additional Important Safety Information throughout and Summary of Important Safety Information on pages 22 and 23.

#### Prolonged Low Blood Cell Counts (Cytopenia)

KYMRIAH may cause a condition called cytopenia. This is when you have low levels of 1 or more types of blood cells. Your treatment team will do blood tests to check all your blood cell counts after treatment with KYMRIAH. Cytopenia that lasts a long time (prolonged) may increase your risk of infection. Cytopenia will be monitored, and your treatment team is prepared to manage it. Tell your doctor right away if you get a fever, are feeling tired, or have bruising or bleeding.

#### Low Antibody Levels (Hypogammaglobulinemia)

Because KYMRIAH CAR-T cells are designed to detect and destroy your B cells, they will also attack the normal B cells in your body. B cells defend your body by producing antibodies. Antibodies bind to invaders so other immune cells can destroy them.

After KYMRIAH, you may have fewer normal B cells and, therefore, fewer antibodies. A low level of antibodies in your blood is a condition called hypogammaglobulinemia (HY-po-GAM-muh-GLOB-u-lin-EEM-ee-uh). If untreated, a low antibody level may increase your risk for infections. Your treatment team can manage this with antibody replacement medications (for example, intravenous immunoglobulin infusions, also known as IVIG infusions). Hypogammaglobulinemia can last for a long time, so regular IVIG infusions may be needed. Tell your doctor right away if you develop signs or symptoms of an infection.

#### **Secondary Cancers**

KYMRIAH may increase your risk of getting cancers, including certain types of blood cancers. Your health care provider should monitor you for this.

#### Most Common Side Effects of KYMRIAH are:

- Difficulty breathing
- Fever (100.4°F/38°C or higher)
- Chills/shaking chills
- Confusion
- Severe nausea, vomiting, diarrhea
- Severe muscle or joint pain
- Very low blood pressure
- Dizziness/lightheadedness
- Headache

Please note that these are not all the possible side effects of KYMRIAH treatment. Talk to your treatment team about other possible side effects and how to manage them.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.



# What kind of support is available?

Whether you have questions about KYMRIAH, treatment center locations, or insurance coverage, **KYMRIAH CARES™** is here to help.





Please call **1-844-4KYMRIAH (1-844-459-6742)** to learn more.

#### **Important Safety Information** (continued)

#### How will I get KYMRIAH?

- Since KYMRIAH is made from your own white blood cells, your health care provider has to take some of your blood. This is called "leukapheresis." It takes 3 to 6 hours and may need to be repeated. A tube (intravenous catheter) will be placed in your vein to collect your blood
- Your blood cells are frozen and sent to the manufacturing site to make KYMRIAH. It takes about 3 to 4 weeks from the time your cells are received at the manufacturing site and shipped to your health care provider, but the time may vary
- While waiting for KYMRIAH to be made, your health care provider may give you therapy to stabilize your cancer
- In addition, before you get KYMRIAH, your health care provider may give you chemotherapy for a few days to prepare your body. When your body is ready, your health care provider will give you KYMRIAH through a tube (intravenous catheter) in your vein. This usually takes less than 1 hour
- You should plan to stay close to a health care facility for at least 2 weeks after getting KYMRIAH. Your health care provider will check to see if your treatment is working and help you with any side effects that occur

# Support comes in many forms

No matter how positive or strong you are, cancer treatment can be stressful for everyone involved. It is important to seek care for not only your physical health, but also your mental and emotional well-being.

- Know that it is okay to ask for help.
   Establish a support network of family,
   friends, and/or religious or spiritual groups
- Consider counseling services for yourself
- Maintain a schedule to help bring a sense of normalcy, with planned times for meals, homework, or entertainment
- Keep in mind that no 2 cancer experiences are the same and that your family and friends may cope with your cancer differently
- Remember to make room for fun. Take time to do something you like, such as meet a friend for coffee, see a movie, etc

#### Important Safety Information (continued)

#### What are the possible or reasonably likely side effects of KYMRIAH?

The most common side effects of KYMRIAH include:

- Difficulty breathing
- Fever (100.4°F/38°C or higher)
- Chills/shaking chills
- Confusion
- Severe nausea, vomiting, diarrhea
- Very low blood pressure

Headache

- Dizziness/lightheadedness
- Severe muscle or joint pain

These are not all the possible side effects of KYMRIAH. Talk to your health care provider for medical advice about side effects.

#### What should I tell my health care provider before receiving KYMRIAH?

- Tell your health care provider if you are pregnant, planning to be pregnant, or breastfeeding. Your health care provider may do a pregnancy test prior to your starting treatment. No information is available of KYMRIAH use in pregnant or breastfeeding women. Therefore, KYMRIAH is not recommended for women who are pregnant or breastfeeding. Talk to your health care provider about birth control and pregnancy
- Tell your health care provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements



### How do I learn more about KYMRIAH?

You and your treatment team will discuss the KYMRIAH® (tisagenlecleucel) therapy process. Talk with your treatment team about any questions you may have.

To learn more, visit **KYMRIAH.com** for educational materials and frequently asked questions.

KYMRIAH.com offers an interactive map to help you find certified treatment centers in the United States.



#### Share your KYMRIAH story

Sometimes hearing other patients' experiences with relapsed or refractory B-cell ALL can make all the difference to a new patient. If you would like to share your story, please call 1-844-606-3339 or email ShareYourStory@inspired-patients.com.



#### **KYMRIAH.com**

Watch other patients and their families talk about their experiences with KYMRIAH.

#### Like us on Facebook



Explore our Facebook page at Facebook.com/KYMRIAH and check back frequently to view new posts.

# **Additional support resources**



#### American Cancer Society | www.Cancer.org

The American Cancer Society is committed to attacking cancer from every angle, from launching breakthrough research to empowering patients with resources, information, and support.

#### CancerCare | www.cancercare.org

Cancer Care provides counseling, support groups, education, and financial assistance to cancer patients and their caregivers.

#### Cancer Support Community (CSC) | www.cancersupportcommunity.org

The largest professionally led nonprofit network of cancer support worldwide, the CSC builds community and offers resources to those impacted by cancer.

#### Leukemia & Lymphoma Society (LLS) | www.lls.org

The mission of LLS is to cure blood cancers and improve the quality of life of patients and their families

#### Support for young adults

#### **B+ Foundation** | www.bepositive.org

B+ Foundation focuses on delivering financial assistance, cancer research, awareness, and positivity.

#### Children's Cancer Cause (CCC) | www.childrenscancercause.org

The CCC works to expand resources and access to better treatments for pediatric patients and their families.

#### **Emily Whitehead Foundation** | www.emilywhiteheadfoundation.org

Initially founded to support a pediatric cancer patient, this foundation's mission is to raise awareness and funding for innovative childhood cancer treatments.

#### St. Baldrick's Foundation | www.stbaldricks.org

St. Baldrick's helps raise awareness and funding around childhood cancers.

#### **Stupid Cancer** | www.stupidcancer.org

Stupid Cancer is a US-based charity that supports young adults with cancer worldwide by providing information, online community forums, and regional support groups, as well as large-scale summits and meet-ups throughout the year.

The organizations and websites listed on this page are maintained by third parties over whom Novartis Pharmaceuticals Corporation has no control. As such, Novartis Pharmaceuticals Corporation makes no representation as to the accuracy or any other aspect of the information supplied by these organizations or contained in these websites. The organizations listed on this page do not specifically endorse the use of KYMRIAH.



# What should I ask my treatment team?

It is important to know who is on your KYMRIAH® (tisagenlecleucel) treatment team and how to get in touch with them. Remember to ask for names, telephone numbers, email addresses, and any other contact information.

Here are some suggested questions to ask your medical team during each step of your KYMRIAH treatment process.

#### **Initial Discussion**

- How does my treatment history affect my eligibility for KYMRIAH?
- Can I receive KYMRIAH if I've already received a stem cell transplant?
- Can I receive a stem cell transplant if I've already received KYMRIAH?
- What if I have other health conditions?
- How will I feel throughout the treatment process?
- Where can I receive KYMRIAH therapy?
- How long will I need to stay near a health care facility?
- Will my insurance cover KYMRIAH therapy?



#### Ask your doctor for a KYMRIAH Patient Binder.

It can help you keep track of important information such as appointments, business cards, emergency numbers, and notes from your discussions with your medical team.

#### Important Safety Information (continued)

#### What should I be aware of after receiving KYMRIAH?

- Avoid driving for at least 2 weeks after you get KYMRIAH
- Do not donate blood, organs, tissues, sperm, oocytes, and other cells
- $\bullet$  Some commercial HIV tests may cause a false positive HIV test result

This is a summary of the most important safety information about KYMRIAH. Talk with your health care provider or pharmacist about side effects. If you would like more information, the FDA-approved product labeling for KYMRIAH can be found at www.KYMRIAH.com or call 1-888-669-6682.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.

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#### Collection

- How should I prepare for collection?
- How long will it take?
- What can I do during collection?
- Will there be any limitations or side effects afterward?
- How soon after collection will my KYMRIAH CAR-T cells be ready for infusion?

#### **Preinfusion Lymphodepleting Chemotherapy**

- How is this chemotherapy different from the chemotherapy I previously received?
- How long will it take?
- Will there be side effects?
- How far in advance of my infusion do I receive chemotherapy?

#### Infusion

- How should I prepare for infusion?
- What will infusion be like?
- How long will it take?

#### **Side Effects and Monitoring**

- What side effects should I expect after infusion?
- How will serious side effects be managed after therapy?
- How will I know KYMRIAH is working?
- When do I need to check in with my treatment team?
- How long do I need to stay close to a health care facility?
- After returning home, what kind of side effects require a hospital visit?
- How quickly can I get back to my daily routine?





My notes Use these pages to write down any notes or questions you may have for your treatment team.

# Glossary

Here are some definitions of certain terms in this brochure that may be unfamiliar to you.



**Antibody:** A protein made by your B cells that helps to protect the body against infection.

**Antigen:** A marker on cells that helps your immune system identify normal cells from infected or cancerous cells.

**B cells:** Along with other cells, they make up your body's immune system. They defend the body by producing antibodies.

**CAR-T cell therapy:** A specific type of cancer treatment. The **CAR** in **CAR-T** stands for chimeric antigen receptor, and the **T** stands for T cell.

**CD19:** An antigen located on your B cells.

**Chimeric:** Cells coming from genetic materials (such as DNA) that are from more than one organism.

**CRS (Cytokine Release Syndrome):** A side effect that can happen when the immune system is highly activated.

**Immunotherapy:** A type of cancer treatment that helps your immune system fight cancer.

**IVIG (intravenous immunoglobulin) therapy:** An infusion that gives you antibodies to help fight infections and make your immune system stronger.

**Leukapheresis:** When your doctor takes some of your blood to collect your T cells.

**Refractory:** Your cancer did not respond to treatment.

**Relapsed:** Your cancer has returned.

**Remission:** The signs of your cancer have disappeared, or else your disease is under control. It does not necessarily mean a cure.

**T cells:** Along with other cells, they make up your body's immune system. They are natural defenders that detect and destroy possible threats such as infected or cancerous cells.



# **Summary of Important Safety Information**

#### What is KYMRIAH?

KYMRIAH is made from your own white blood cells and is a prescription cancer treatment used in patients up to 25 years of age who have acute lymphoblastic leukemia (ALL) that is either relapsing (went into remission, then came back) or is refractory (did not go into remission after receiving other leukemia treatments).

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

KYMRIAH may cause side effects that are severe or life-threatening, such as cytokine release syndrome (CRS) and neurological toxicities. Call your health care provider or get emergency help right away if you get any of the following signs and symptoms of:

- Cytokine Release Syndrome:
- Difficulty breathing
- Fever (100.4°F/38°C or higher)
- Chills/shaking chills
- Severe nausea, vomiting, diarrhea
- Severe muscle or joint pain
- Very low blood pressure
- Dizziness/lightheadedness

#### Neurological Toxicities:

- Altered or decreased consciousness
- Delirium
- Confusion
- Agitation
- Seizures
- Difficulty speaking and understanding
- Loss of balance

You may be admitted to the hospital and treated with other medications if you have any of these side effects. If you are admitted to the hospital, tell the health care provider that you have received KYMRIAH.

#### What are other serious side effects of KYMRIAH?

- Hemophagocytic Lymphohistiocytosis (HLH)/Macrophage Activation Syndrome (MAS):

  Be sure to discuss with your health care provider the possibility of developing this life-threatening condition, and thereafter, your doctor will monitor you for the possibility of developing HLH/MAS
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- **Prolonged Low Blood Cell Counts (Cytopenias):** KYMRIAH can lower 1 or more types of your blood cells (red blood cells, white blood cells, or platelets). After treatment, your health care provider may test your blood to check cell counts. Tell your health care provider right away if you get a fever or other symptoms of an infection, are feeling tired, weak, or short of breath, or have unusual bruising or bleeding
- **Hypogammaglobulinemia:** A condition in which the level of immunoglobulins (antibodies) in your blood is low and the risk of infection is increased. It is expected that you may develop hypogammaglobulinemia with KYMRIAH, and you may need to receive immunoglobulin replacement for an indefinite amount of time following treatment with KYMRIAH. Tell your health care provider about your treatment with KYMRIAH before receiving a live vaccine
- **Secondary Cancers:** KYMRIAH may increase your risk of getting cancers, including certain types of blood cancers. Your health care provider should monitor you for this.

#### How will I get KYMRIAH?

- Since KYMRIAH is made from your own white blood cells, your health care provider has to take some of your blood. This is called "leukapheresis." It takes 3 to 6 hours and may need to be repeated. A tube (intravenous catheter) will be placed in your vein to collect your blood
- Your blood cells are frozen and sent to the manufacturing site to make KYMRIAH. It takes about 3 to 4 weeks from the time your cells are received at the manufacturing site and shipped to your health care provider, but the time may vary
- While waiting for KYMRIAH to be made, your health care provider may give you therapy to stabilize your cancer
- In addition, before you get KYMRIAH, your health care provider may give you chemotherapy for a few days to prepare your body. When your body is ready, your health care provider will give you KYMRIAH through a tube (intravenous catheter) in your vein. This usually takes less than 1 hour
- You should plan to stay close to a health care facility for at least 2 weeks after getting KYMRIAH. Your health care provider will check to see if your treatment is working and help you with any side effects that occur.

#### What are the possible or reasonably likely side effects of KYMRIAH?

The most common side effects of KYMRIAH include:

- Difficulty breathing
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- Severe muscle or joint pain
- Very low blood pressure
- Dizziness/lightheadedness
- Headache

These are not all the possible side effects of KYMRIAH. Talk to your health care provider for medical advice about side effects.

#### What should I tell my health care provider before receiving KYMRIAH?

- Tell your health care provider if you are pregnant, planning to be pregnant, or breastfeeding. Your health care provider may do a pregnancy test prior to your starting treatment. No information is available of KYMRIAH use in pregnant or breastfeeding women. Therefore, KYMRIAH is not recommended for women who are pregnant or breastfeeding. Talk to your health care provider about birth control and pregnancy
- 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 be aware of after receiving KYMRIAH?

- Avoid driving for at least 2 weeks after you get KYMRIAH
- Do not donate blood, organs, tissues, sperm, oocytes, and other cells
- Some commercial HIV tests may cause a false positive HIV test result

This is a summary of the most important safety information about KYMRIAH. Talk with your health care provider or pharmacist about side effects. If you would like more information, the FDA-approved product labeling for KYMRIAH can be found at www.KYMRIAH.com or call 1-888-669-6682.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.







#### **Have questions?**

Whether you have questions about KYMRIAH® (tisagenlecleucel), treatment center locations, or insurance coverage, **KYMRIAH CARES**<sup>TM</sup> is here to help.

Please call **1-844-4KYMRIAH** (1-844-459-6742) to learn more.

To learn more about KYMRIAH, talk to your doctor or visit KYMRIAH.com



Please see additional Important Safety Information throughout and Summary of Important Safety Information on pages 22 and 23.

