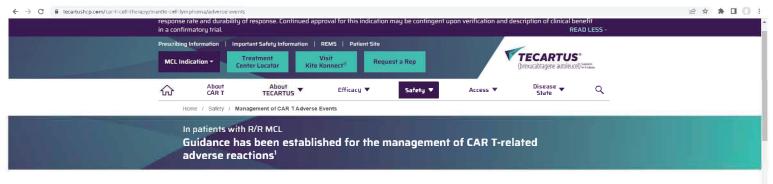
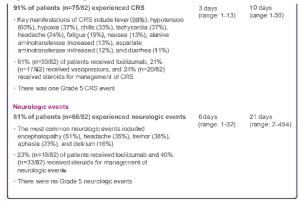
Screenshot from Applicant's website www.tecartushcp.com/car-t-cell-therapy/mantle-cell-lymphoma/adverse-events downloaded on February 6, 2023 displaying the mark in use



## 18% of patients experienced Grade 3 or higher CRS and 37% experienced Grade 3 or higher neurologic events<sup>1</sup>



- Most CRS or neurologic events occurred early<sup>1</sup>
  - 83% of all treated patients experienced the first CRS within the first 7 days after TECARTUS® infusion
  - 56% of all treated patients experienced the first neurologic event within the first 7 days after TECARTUS infusion
- In ZUMA-2, 99% of CRS events (n=74/75) and 79% of neurologic events (n=52/66) resolved 1.2,5
  - 66% (n=54/82) of patients experienced CRS before neurologic events started
  - = 6% (n=5/82) of patients who developed neurologic events did not have CRS
  - = 10% (n=9/92) developed neurologic events after the resolution of CRS

### Recommended monitoring based on the ZUMA-2 trial

Day O to Day 7	Day 8 to Day 28	After Day 28
signs and symptoms of CRS, neurologic events,	Patients instructed to remain within proximity of	referring office for routine monitoring <sup>5</sup>

# Guidance for monitoring and management of CAR T-related adverse reactions (CRS and neurologic events)<sup>1</sup>



Ensure that 2 doses of tocilizumab are available for each patient prior to infusion. For more information on CRS and neurologic events management, please see the full Prescribing Information for TECARTUS



Counsel patients to seek immediate medical attention should signs or symptoms of CRS or neurologic events occur at any time

Monitor patients daily for at least 7 days and 4 weeks postinfusion at the ATC for signs and symptoms of CRS and neurologic events. Please see TECARTUS full Prescribing Information for detailed adverse event management guidelines.

ATCs must ensure that healthcare providers who prescribe, dispense, or administer TECARTUS are trained about the management of CRS and neurologic toxicities.  $^{1}$ 

ATC=Authorized Treatment Center: CAR=chimenc antigen receptor: CRS=cytokine release syndrome: MCL=mantle cell lymphoma: R/R=relapsed or refractory

References: 1. TECARTUS® (prexucablegene autoleucel). Prescribing information. Kite Pharma, Inc. 2021 2. Data on file [1]. Kite Pharma, Inc. 2021 3. Data on file (Re Pharma, Inc. 2021 6. Data on file [2] Kite Pharma, Inc. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell therapy in relapsed or refractory mantle cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell therapy in relapsed or refractory mantle cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell therapy in relapsed or refractory mantle cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (herapy in relapsed or refractory mantle cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (herapy in relapsed or refractory mantle cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (herapy in relapsed or refractory mantle cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (herapy in relapsed or refractory mantle cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (herapy in relapsed or refractory mantle cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang Id. Munoz J, Goy A, et al. KTE-X19 CART-Cell (hyphotona – study protocol. N. Engl. 3. Med 2820 1. 2021 6. Wang

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#### IMPORTANT SAFETY INFORMATION

#### BOXED WARNING: CYTOKINE RELEASE SYNDROME and NEUROLOGIC TOXICITIES

- Cytokine Release Syndrome (CRS), including lifethreatening reactions, occurred in patients receiving TECARTUS. Do not administer TECARTUS to patients with active infection or inflammatory disorders. Treat severe or life-threatening CRS with tocilizumab or tocilizumab and corticosteroids.
- Neurologic toxicities, including life threatening reactions, occurred in patients receiving TECARTUS, including concurrently with CRS or after

TECARTUS is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called the YESCARTA and TECARTUS REMS Program

Cytokine Release Syndrome (CRS), including fatal or life-threatening reactions, occurred following treatment with TECARTUS. CRS occurred in 91% (75/82) of patients with MCL, including ≥ Grade 3 CRS in 18% of patients. Among the patients with MCL who died after receiving TECARTUS, one patient had a fatal CRS event. The median time to onset of CRS was 3 days (range: 1 to 13 days) and the median duration of CRS was 10 days (range: 1 to 50 days) for patients with MCL.

Among patients with CRS, the key manifestations (>10%) included fever (93%), hypotension (62%), tachycardia (59%), chills (32%), hypoxia (31%), headache (21%), fatigue (20%), and nausea (13%). Serious events associated with CRS included hypotension, fever, hypoxia, tachycardia, and dyspnea

Ensure that a minimum of 2 doses of tocilizumab are available for each patient prior to infusion of TECARTUS. Following infusion, monitor patients for signs and symptoms of CRS daily for at least 7 days at the certified healthcare facility, and for 4 weeks thereafter. Counsel patients to seek immediate medica attention should signs or symptoms of CRS occur at any time. At the first sign of CRS, institute treatment with supportive care, tocilizumab, or tocilizumab and corticosteroids as indicated

Neurologic Toxicities, including those that were fatal or life-threatening, occurred following treatment with TECARTUS. Neurologic eyents occurred in 81% (66/82) of patients with MCL, including ≥ Grade 3 in 37% of patients. The median time to onset for neurologic events was 6 days (range: 1 to 32 days) with a median duration of 21 days (range: 2 to 454 days) in patients with MCL. Neurologic events resolved for 119 out of 134 (89%) patients treated with TECARTUS. The onset of neurologic events can be concurrent with CRS following resolution of CRS or in the absence of CRS. 91% of all treated patients experienced the first CRS or neurological event within the first 7 days after TECARTUS infusion.

The most common neurologic events (>10%) included encephalopathy (57%), headache (37%), tremor (34%), confusional state (26%), aphasia (23%), delirium (17%), dizziness (15%), anxiety (14%), and agitation (12%). Serious events (≥ 2%) including encephalopathy, aphasia, confusional state, and seizures occurred after treatment with TECARTUS.

Monitor patients daily for at least 7 days at the certified healthcare facility and for 4 weeks following infusion for signs and symptoms of neurologic toxicities

REMS Program: Because of the risk of CRS and neurologic toxicities, TECARTUS is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called the YESCARTA and TECARTUS REMS Program which requires that

- Healthcare facilities that dispense and administer TECARTUS must be enrolled in and comply with the REMS requirements. Certified healthcare facilities must have on-site, immediate access to tocilizumab, and ensure that a minimum of two doses of tocilizumab are available for each patient for infusion within 2 hours after TECARTUS infusion, if needed for treatment of CRS.
- Certified healthcare facilities must ensure that healthcare providers who prescribe, dispense, or administer TECARTUS are trained in the management of CRS and neurologic toxicities. Further information is available at <a href="www.YescartaTecartusREMS.com">www.YescartaTecartusREMS.com</a> or 1-844-454-KITE (5483)

nhagocytic Lymphohistiocytosis/Macrophage Activation Syndrome (HLH/MAS), including life-threatening reactions, occurred following treatment with TECARTUS. HLH/MAS occurred in 4% (3/78) of patients with ALL. Two patients experienced Grade 3 events and 1 patient experienced a Grade 4 event. The median time to onset for HLH/MAS was 8 days (range: 6 to 9 days) with a median duration of 5 days (range: 2 to 8 days). All 3 patients with HLH/MAS had concurrent CRS symptoms and neurologic events after TECARTUS infusion. Treatment of HLH/MAS should be administered per institutional standards.

Hypersensitivity Reactions: Serious hypersensitivity reactions, including anaphylaxis, may occur due to dimethyl sulfoxide (DMSO) or residual gentamicin in TECARTUS

Severe Infections: Severe or life-threatening infections occurred in patients after TECARTUS infusion. Infections (all grades) occurred in 56% (46/82) of patients with MCL. Grade 3 or higher infections, including bacterial, viral, and fungal infections, occurred in 30% of patients. TECARTUS should not be administered to patients with clinically significant active systemic infections. Monitor patients for signs and symptoms of infection before and after infusion and treat appropriately. Administer prophylactic antimicrobials according to local guidelines

Febrile neutropenia was observed in 6% of patients with MCL after TECARTUS infusion and may be concurrent with CRS. In the event of febrile eutropenia, evaluate for infection and manage with broad-spectrum antibiotics, fluids, and other supportive care

In immunosuppressed patients, life-threatening and fatal opportunistic infections have been reported. The possibility of rare infectious etiologies (e.g., fungal and viral infections such as HHV-6 and progressive multifocal leukoencephalopathy) should be considered in patients with neurologic events and appropriate diagnostic evaluations should be performed.

Hepatitis B virus (HBV) reactivation, in some cases resulting in fulminant hepatitis, hepatic failure, and death, can occur in patients treated with drugs directed against B cells. Perform screening for HBV, HCV, and HIV in accordance with clinical guidelines before collection of cells for manufacturing

Prolonged Cytopenias: Patients may exhibit cytopenias for several weeks following lymphodepleting chemotherapy and TECARTUS infusion. In patients with MCL, Grade 3 or higher cytopenias not resolved by Day 30 following TECARTUS infusion occurred in 55% (45/82) of patients and included thrombocytopenia (38%), neutropenia (37%), and anemia (17%). Monitor blood counts after TECARTUS infusion.

nmaglobulinemia and B-cell aplasia can occur in patients receiving treatment with TECARTUS. Hypogammaglobulinemia was reported in 16% (13/82) of patients with MCL. Monitor immunoglobulin levels after treatment with TECARTUS and manage using infection precautions, antibiotic prophylaxis, and immunoglobulin replacement. The safety of immunization with live viral vaccines during or following TECARTUS treatment has not been studied. Vaccination with live virus vaccines is not recommended for at least 6 weeks prior to the start of lymphodepleting chemotherapy, during treatment, and until immune recovery following treatment with TECARTUS.

Secondary Malignancies may develop. Monitor life-long for secondary malignancies. In the event that one occurs, contact Kite at 1-844-454-KITE (5483) to obtain instructions on patient samples to collect for testing.

Fffects on Ability to Drive and Use Machines: Due to the potential for neurologic events, including altered mental status or seizures, patients are at risk for altered or decreased consciousness or coordination in the 8 weeks following TECARTUS infusion. Advise patients to refrain from driving and engaging in hazardous activities, such as operating heavy or potentially dangerous machinery, during this period.

Adverse Reactions: The most common adverse reactions (incidence ≥ 20%) were fever, CRS, hypotension, encephalopathy, fatigue, tachycardia arrhythmia, infection with pathogen unspecified, chills, hypoxia, cough, tremor, musculoskeletal pain, headache, nausea, edema, motor dysfunction, constipation, diarrhea, decreased appetite, dyspnea, rash, insomnia, pleural effusion, and aphasia.

Please see full <u>Prescribing Information</u>, including **BOXED WARNING** and Medication Guide

#### INDICATION

TECARTUS is a CD19-directed genetically modified autologous T cell immunotherapy indicated for the treatment of adult patients with relapsed or refractory mantle cell lymphoma (MCL).

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

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