

# **Tecartus® (brexucabtagene autoleucel) (Intravenous)**

**-E-**

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## **I. Length of Authorization**

Initial: Prior authorization validity will be provided initially for one treatment course (1 dose).

Renewal: Prior authorization validity may NOT be renewed.

## **II. Dosing Limits**

**Max Units (per dose and over time) [HCPCS Unit]:**

- 1 billable unit (1 infusion of up to 200 million autologous anti-CD19 CAR-positive viable T cells)

## **III. Initial Approval Criteria <sup>1-5</sup>**

Submission of supporting clinical documentation (including but not limited to medical records, chart notes, lab results, and confirmatory diagnostics) related to the medical necessity criteria is REQUIRED on all requests for authorizations. Records will be reviewed at the time of submission as part of the evaluation of this request. Please provide documentation related to diagnosis, step therapy, and clinical markers (i.e., genetic, and mutational testing) supporting initiation when applicable. Please provide documentation via direct upload through the PA web portal or by fax. Failure to submit the medical records may result in the denial of the request due to inability to establish medical necessity in accordance with policy guidelines.

Prior authorization validity is provided in the following conditions:

- Patient is at least 18 years of age, unless otherwise specified; **AND**
- Patient does not have a clinically significant active systemic infection or inflammatory disorder; **AND**
- Prophylaxis for infection will be followed according to local guidelines; **AND**
- Patient has not received live vaccines within 6 weeks prior to the start of lymphodepleting chemotherapy, and will not receive live vaccines during brexucabtagene autoleucel treatment and until immune recovery following treatment; **AND**

- Patient has been screened for hepatitis B virus (HBV), hepatitis C virus (HCV), and human immunodeficiency virus (HIV) in accordance with clinical guidelines prior to collection of cells (leukapheresis); **AND**
- Used as a single agent (*not applicable to lymphodepleting or additional chemotherapy while awaiting manufacture*); **AND**

Patient has an Eastern Cooperative Oncology Group (ECOG) performance status of 0-1; **AND**

- Patient has not received prior chimeric antigen receptor (CAR)-T cell therapy; **AND**

### **Mantle Cell Lymphoma † ‡ $\Phi$ <sup>1,2,4</sup>**

- Patient has relapsed or refractory disease; **AND**
- Used as subsequent therapy after prior covalent Bruton Tyrosine Kinase Inhibitor (BTKi) therapy; **AND**
- Patient received prior treatment with an anti-CD20 agent and anthracycline or bendamustine-containing chemotherapy, unless contraindicated; **AND**
  - Patient had no response or progressive disease following second-line therapy with covalent BTKi or other continuous treatment regimens (i.e., lenalidomide and rituximab); **OR**
  - Patient had partial response, no response, or progressive disease following second-line therapy with fixed-duration regimens; **OR**
  - Patient has relapsed or progressive disease that is in second or greater relapse

### **B-Cell Precursor Acute Lymphoblastic Leukemia (ALL)\* † ‡ $\Phi$ <sup>1,5</sup>**

- Patient has relapsed or refractory disease; **AND**
- Patient has not received other anti-CD19 therapy, (e.g., blinatumomab, tafasitamab, loncastuximab tesirine, etc.) OR patient previously received other anti-CD19 therapy and re-biopsy indicates CD-19 positive disease; **AND**
  - Patient has Philadelphia chromosome (Ph)-positive disease; **AND**
    - Disease is tyrosine kinase inhibitor (TKI) [i.e., bosutinib, dasatinib, imatinib, nilotinib, or ponatinib] intolerant; **OR**
    - Patient has relapsed or refractory disease to at least two (2) different TKIs; **OR**
  - Patient has Philadelphia chromosome (Ph)-negative disease

\*NCCN recommendations for ALL may be applicable to adolescent and young adult (AYA) patients 15 to 39 years of age.

**Preferred therapies and recommendations are determined by review of clinical evidence. NCCN category of recommendation is taken into account as a component of this review. Regimens deemed equally efficacious (i.e., those having the same NCCN categorization) are considered to be therapeutically equivalent.**

† FDA Approved Indication(s); ‡ Compendia Recommended Indication(s); Φ Orphan Drug

## IV. Renewal Criteria

Duration of authorization has not been exceeded (*refer to Section I*)

## V. Dosage/Administration <sup>1</sup>

Indication	Dose
Mantle Cell Lymphoma	<p><b>Lymphodepleting chemotherapy:</b></p> <ul style="list-style-type: none"> <li>Administer cyclophosphamide 500 mg/m<sup>2</sup> and fludarabine 30 mg/m<sup>2</sup> intravenously on the fifth, fourth, and third day before infusion of Tecartus.</li> </ul> <p><b>Tecartus infusion:</b></p> <ul style="list-style-type: none"> <li>Each single infusion bag of Tecartus contains a suspension of chimeric antigen receptor (CAR)-positive T cells in approximately 68 mL. The target dose is <math>2 \times 10^6</math> CAR-positive viable T cells per kg body weight, with a maximum of <math>2 \times 10^8</math> CAR-positive viable T cells (for patients 100 kg and above).</li> </ul>
B-Cell Precursor ALL	<p><b>Lymphodepleting chemotherapy:</b></p> <ul style="list-style-type: none"> <li>Administer fludarabine 25 mg/m<sup>2</sup> intravenously on the fourth, third, and second day and administer cyclophosphamide 900 mg/m<sup>2</sup> on the second day before infusion of Tecartus.</li> </ul> <p><b>Tecartus infusion:</b></p> <ul style="list-style-type: none"> <li>Each single infusion bag of Tecartus contains a suspension of chimeric antigen receptor (CAR)-positive T cells in approximately 68 mL. The target dose is <math>1 \times 10^6</math> CAR-positive viable T cells per kg body weight, with a maximum of <math>1 \times 10^8</math> CAR-positive viable T cells (for patients 100 kg and above).</li> </ul>
<p><b>For autologous use only. For intravenous use only.</b></p> <ul style="list-style-type: none"> <li>Tecartus is prepared from the patient's peripheral blood mononuclear cells, which are obtained via a standard leukapheresis procedure</li> <li>One treatment course consists of lymphodepleting chemotherapy followed by a single infusion of Tecartus.</li> <li>Confirm Tecartus availability prior to starting the lymphodepleting regimen.</li> <li>Confirm the patient's identity matches the patient identifiers on the Tecartus cassette.</li> </ul> <p><b>Premedication:</b></p> <ul style="list-style-type: none"> <li>Premedicate with acetaminophen and diphenhydramine (or another H1-antihistamine) 30-60 minutes prior to infusion. Avoid prophylactic systemic corticosteroids which may interfere with Tecartus activity.</li> </ul> <p><b>Monitoring after infusion:</b></p> <ul style="list-style-type: none"> <li>Monitor patients daily for at least seven days following infusion for signs and symptoms of Cytokine Release Syndrome (CRS) and neurologic events.</li> <li>Instruct patients to remain within proximity of a healthcare facility for at least 2 weeks following infusion.</li> <li>Instruct patients to refrain from driving for at least 2 weeks following infusion.</li> </ul> <p> <ul style="list-style-type: none"> <li>Store infusion bag in the vapor phase of liquid nitrogen (less than or equal to minus 150°C). Thaw prior to infusion.</li> <li>In case of manufacturing failure, a second manufacturing may be attempted.</li> <li>Additional chemotherapy (not the lymphodepletion) may be necessary while the patient awaits the product.</li> <li>Ensure that 2 doses of tocilizumab and emergency equipment are available prior to infusion and during the recovery period.</li> <li>Tecartus contains human blood cells that are genetically modified with replication incompetent retroviral vector. Follow universal precautions and local biosafety guidelines for handling and disposal.</li> </ul> </p>	

## VI. Billing Code/Availability Information

### HCPCS Code:

- Q2053 – Brexucabtagene autoleucel, up to 200 million autologous anti-CD19 CAR positive viable t cells, including leukapheresis and dose preparation procedures, per therapeutic dose; 1 billable unit = 200 million autologous anti-CD19 CAR positive viable t cells

### NDC(s):

- Tecartus suspension for intravenous infusion (MCL); 1 infusion bag (~68 mL): 71287-0219-xx
- Tecartus suspension for intravenous infusion (ALL); 1 infusion bag (~68 mL): 71287-0220-xx

## VII. References (STANDARD)

1. Tecartus [package insert]. Santa Monica, CA; Kite Pharma, Inc.; June 2025. Accessed October 2025.
2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) brexucabtagene autoleucel. National Comprehensive Cancer Network, 2025. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed October 2025.
3. Majzner RG, Mackall CL. Tumor Antigen Escape from CAR T-cell Therapy. *Cancer Discov* 2018;8:1219-1226.
4. Wang M, Munoz J, Goy A, et al. KTE-X19 CAR T-Cell Therapy in Relapsed or Refractory Mantle-Cell Lymphoma. *N Engl J Med.* 2020 Apr 2;382(14):1331-1342. doi: 10.1056/NEJMoa1914347.
5. Shah BD, Ghobadi A, Oluwole OO, et al. KTE-X19 for relapsed or refractory adult B-cell acute lymphoblastic leukaemia: phase 2 results of the single-arm, open-label, multicentre ZUMA-3 study. *Lancet.* 2021 Aug 7;398(10299):491-502. doi: 10.1016/S0140-6736(21)01222-8. Epub 2021 Jun 4.
6. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for Acute Lymphoblastic Leukemia Version 2.2025. National Comprehensive Cancer Network, 2025. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Guidelines, go online to NCCN.org. Accessed October 2025.

## VIII. References (ENHANCED)

- 1e. Maude SL, Laetsch TW, Buechner J, et al. Tisagenlecleucel in Children and Young Adults with B-Cell Lymphoblastic Leukemia. *N Engl J Med.* 2018;378(5):439-448.

- 2e. Kantarjian H, Stein A, Gökbüget N, et al. Blinatumomab versus Chemotherapy for Advanced Acute Lymphoblastic Leukemia. *N Engl J Med* 2017; 376:836-847.
- 3e. Kantarjian HM, DeAngelo DJ, Stelljes M, et al. Inotuzumab Ozogamicin versus Standard Therapy for Acute Lymphoblastic Leukemia. *N Engl J Med*. 2016;375(8):740–753.
- 4e. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) B-Cell Lymphomas, Version 3.2025. National Comprehensive Cancer Network, 2025. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the NCCN Guidelines, go online to NCCN.org. Accessed October 2025.
- 5e. Wang ML, Jurczak W, Zinzani PL, et al. Pirtobrutinib in Covalent Bruton Tyrosine Kinase Inhibitor Pretreated Mantle-Cell Lymphoma. *J Clin Oncol*. 2023 Aug 20;41(24):3988-3997. doi: 10.1200/JCO.23.00562.
- 6e. Wang M, Siddiqi T, Gordon LI, et al. Lisocabtagene Maraleucel in Relapsed/Refractory Mantle Cell Lymphoma (MCL): Primary Analysis of the MCL Cohort From TRANSCEND NHL 001, a Phase I Multicenter Seamless Design Study. *Journal of Clinical Oncology*. Published online December 10, 2023. doi:<https://doi.org/10.1200/jco.23.02214>
- 7e. Prime Therapeutics Management. Tecartus Clinical Literature Review Analysis. Last updated October 2025. Accessed October 2025.

## Appendix A – Non-Quantitative Treatment Limitations (NQTL) Factor Checklist

Non-quantitative treatment limitations (NQTLs) refer to the methods, guidelines, standards of evidence, or other conditions that can restrict how long or to what extent benefits are provided under a health plan. These may include things like utilization review or prior authorization. The utilization management NQTL applies comparably, and not more stringently, to mental health/substance use disorder (MH/SUD) Medical Benefit Prescription Drugs and medical/surgical (M/S) Medical Benefit Prescription Drugs. The table below lists the factors that were considered in designing and applying prior authorization to this drug/drug group, and a summary of the conclusions that Prime's assessment led to for each.

Factor	Conclusion
Indication	Yes: Consider for PA
Safety and efficacy	Yes: Consider for PA
Potential for misuse/abuse	No: PA not a priority
Cost of drug	Yes: Consider for PA

## Appendix 1 – Covered Diagnosis Codes

ICD-10	ICD-10 Description
C83.10	Mantle cell lymphoma, unspecified site
C83.11	Mantle cell lymphoma, lymph nodes of head, face and neck

C83.12	Mantle cell lymphoma, intrathoracic lymph nodes
C83.13	Mantle cell lymphoma, intra-abdominal lymph nodes
C83.14	Mantle cell lymphoma, lymph nodes of axilla and upper limb
C83.15	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb
C83.16	Mantle cell lymphoma, intrapelvic lymph nodes
C83.17	Mantle cell lymphoma, spleen
C83.18	Mantle cell lymphoma, lymph nodes of multiple sites
C83.19	Mantle cell lymphoma, extranodal and solid organ sites
C83.50	Lymphoblastic (diffuse) lymphoma, unspecified site
C83.51	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck
C83.52	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes
C83.53	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes
C83.54	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb
C83.55	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb
C83.56	Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes
C83.57	Lymphoblastic (diffuse) lymphoma, spleen
C83.58	Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites
C83.59	Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites
C91.00	Acute lymphoblastic leukemia not having achieved remission
C91.02	Acute lymphoblastic leukemia, in relapse

## Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

The preceding information is intended for non-Medicare coverage determinations. Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determinations (NCDs) and/or Local Coverage Determinations (LCDs) may exist and compliance with these policies is required where applicable. Local Coverage Articles (LCAs) may also exist for claims payment purposes or to clarify benefit eligibility under Part B for drugs which may be self-administered. The following link may be used to search for NCD, LCD, or LCA documents: <https://www.cms.gov/medicare-coverage-database/search.aspx>. Additional indications, including any preceding information, may be applied at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCA/LCD): N/A

Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC

Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)
6	MN, WI, IL	National Government Services, Inc. (NGS)
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)
N (9)	FL, PR, VI	First Coast Service Options, Inc.
J (10)	TN, GA, AL	Palmetto GBA
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)
15	KY, OH	CGS Administrators, LLC