

## Clinical Policy: Lisocabtagene Maraleucel (Breyanzi)

Reference Number: LA.PHAR.483

Effective Date:

Last Review Date: 05.01.23

Line of Business: Medicaid

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

**\*\*Please note: This policy is for medical benefit\*\***

### Description

Lisocabtagene maraleucel (Breyanzi<sup>®</sup>) is a CD19-directed genetically modified autologous T-cell immunotherapy.

### FDA Approved Indication(s)

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

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

Limitation of use: Breyanzi is not indicated for the treatment of patients with primary central nervous system (CNS) lymphoma.

### Policy/Criteria

*Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.*

All requests reviewed under this policy **require medical director review**.

It is the policy of Louisiana Healthcare Connections<sup>®</sup> that Breyanzi is **medically necessary** when the following criteria are met:

#### I. Initial Approval Criteria

##### A. Large B-Cell Lymphoma\* (must meet all):

*\*Only for initial treatment dose; subsequent doses will not be covered.*

1. Diagnosis of one of the following LBCL (a – h);
  - a. DLBCL;
  - b. DLBCL transformed from one of the following (i – v):
    - i. Follicular lymphoma;

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- ii. Nodal marginal zone lymphoma;
- iii. Gastric mucosa-associated lymphoid tissue (MALT) lymphoma;
- iv. Nongastric MALT Lymphoma (noncutaneous);
- v. Splenic marginal zone lymphoma;
- c. Primary mediastinal large B-cell lymphoma;
- d. Follicular lymphoma grade 3B;
- e. High-grade B-cell lymphomas with translocations of MYC and BCL2 and/or BCL6 (double/triple hit lymphoma) or high-grade B-cell lymphomas, not otherwise specified;
- f. Monomorphic post-transplant lymphoproliferative disorders (B-cell type);
- g. AIDS-related diffuse large B-cell lymphoma, primary effusion lymphoma, and HHV8-positive diffuse large B-cell lymphoma;
- h. T cell/histiocyte-rich LBCL and request is for second line therapy;
- 2. Prescribed by or in consultation with an oncologist or hematologist;
- 3. Age  $\geq 18$  years;
- 4. Request is for one of the following (a, b, or c):
  - a. Disease is refractory or member has relapsed after  $\geq 2$  lines of systemic therapy that includes an anti-CD20 therapy (e.g., rituximab) and one anthracycline-containing regimen (e.g., doxorubicin);\*
  - b. Disease that is refractory (defined as no complete remission) to or has relapsed (defined as complete remission followed by biopsy-proven disease relapse) no more than 12 months after first-line chemoimmunotherapy that included an anti-CD20 monoclonal antibody (e.g., rituximab\*) and anthracycline-containing regimen (e.g., doxorubicin);
  - c. Member is not eligible for HSCT due to comorbidities or age (see *Appendix D* for examples) and disease is refractory (defined as no complete remission) to or has relapsed (defined as complete remission followed by biopsy-proven disease relapse) after first-line chemoimmunotherapy that included an anti-CD20 monoclonal antibody (e.g., rituximab\*) and anthracycline-containing regimen (e.g., doxorubicin);
- \*Prior authorization may be required for rituximab
- 5. Member does not have primary CNS disease;
- 6. Member has not previously received treatment with CAR T-cell immunotherapy (e.g., Abecma®, Carvykti™, Kymriah™, Tecartus™, Yescarta™);
- 7. Breyanzi is not prescribed concurrently with other CAR T-cell immunotherapy (e.g., Abecma, Carvykti, Kymriah, Tecartus, Yescarta);
- 8. Dose does not exceed  $110 \times 10^6$  chimeric antigen receptor (CAR)-positive viable T cells.

**Approval duration:** 3 months (*1 dose only, with 4 doses of tocilizumab (Actemra) if requested at up to 800 mg per dose*)

#### **B. Other diagnoses/indications (must meet 1 or 2):**

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1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to LA.PMN.255
2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: LA.PMN.53 for Medicaid.

## II. Continued Therapy

### A. Large B-Cell Lymphoma

1. Continued therapy will not be authorized as Breyanzi is indicated to be dosed one time only.

**Approval duration:** Not applicable

### B. Other diagnoses/indications (must meet 1 or 2):

1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to LA.PMN.255 for Medicaid
2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: LA.PMN.53 for Medicaid.

## III. Diagnoses/Indications for which coverage is NOT authorized:

- A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – LA.PMN.53 for Medicaid or evidence of coverage documents;
- B. Primary CNS disease.

## IV. Appendices/General Information

### Appendix A: Abbreviation/Acronym Key

ALC: absolute lymphocyte count	FDA: Food and Drug Administration
CAR: chimeric antigen receptor	HSCT: hematopoietic stem cell transplantation
CNS: central nervous system	LBCL: large B-cell lymphoma
CRS: cytokine release syndrome	MALT: mucosa-associated lymphoid tissue
DLBCL: diffuse large B-cell lymphoma	

### Appendix B: Therapeutic Alternatives

*This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.*

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Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
<b>First-Line Treatment Regimens</b>		
RCHOP (Rituxan® (rituximab), cyclophosphamide, doxorubicin, vincristine, prednisone)	Varies	Varies
RCEPP (Rituxan® (rituximab), cyclophosphamide, etoposide, prednisone, procarbazine)	Varies	Varies
RCDO (Rituxan® (rituximab), cyclophosphamide, liposomal doxorubicin, vincristine, prednisone)	Varies	Varies
DA-EPOCH (etoposide, prednisone, vincristine, cyclophosphamide, doxorubicin) + Rituxan® (rituximab)	Varies	Varies
RCEOP (Rituxan® (rituximab), cyclophosphamide, etoposide, vincristine, prednisone)	Varies	Varies
RGCVP (Rituxan®, gemcitabine, cyclophosphamide, vincristine, prednisone)	Varies	Varies
<b>Second-Line Treatment Regimens</b>		
Bendeka® (bendamustine) ± Rituxan® (rituximab)	Varies	Varies
CEPP (cyclophosphamide, etoposide, prednisone, procarbazine) ± Rituxan® (rituximab)	Varies	Varies
CEOP (cyclophosphamide, etoposide, vincristine, prednisone) ± Rituxan® (rituximab)	Varies	Varies
DA-EPOCH ± Rituxan® (rituximab)	Varies	Varies
GDP (gemcitabine, dexamethasone, cisplatin) ± Rituxan® (rituximab)	Varies	Varies
gemcitabine, dexamethasone, carboplatin ± Rituxan® (rituximab)	Varies	Varies
GemOx (gemcitabine, oxaliplatin) ± Rituxan® (rituximab)	Varies	Varies
gemcitabine, vinorelbine ± Rituxan® (rituximab)	Varies	Varies
lenalidomide ± Rituxan® (rituximab)	Varies	Varies
Rituxan® (rituximab)	Varies	Varies
DHAP (dexamethasone, cisplatin, cytarabine) ± Rituxan® (rituximab)	Varies	Varies
DHAX (dexamethasone, cytarabine, oxaliplatin) ± Rituxan® (rituximab)	Varies	Varies
ESHAP (etoposide, methylprednisolone, cytarabine, cisplatin) ± Rituxan® (rituximab)	Varies	Varies
ICE (ifosfamide, carboplatin, etoposide) ± Rituxan® (rituximab)	Varies	Varies
MINE (mesna, ifosfamide, mitoxantrone, etoposide) ± Rituxan® (rituximab)	Varies	Varies

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.

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#### *Appendix C: Contraindications/Boxed Warnings*

- Contraindication(s): none reported
- Boxed warning(s): cytokine release syndrome and neurologic toxicities

#### *Appendix D: General Information*

- Patients with primary CNS disease were excluded from the TRANSCEND NHL 001 trial. For primary CNS lymphoma, NCCN treatment guidelines for CNS cancers recommend a high-dose methotrexate induction based regimen or whole brain radiation therapy, and consolidation therapy with high-dose chemotherapy with stem cell rescue, high-dose cytarabine with or without etoposide, low dose whole brain radiation therapy, or continuation with monthly high-dose methotrexate-based regimen.
- In the TRANSCEND NHL 001 trial, three of six patients in the efficacy-evaluable set with secondary CNS lymphoma achieved a complete response.
- No prespecified threshold for blood counts, including absolute lymphocyte count, was required for enrollment in the TRANSCEND NHL 001 trial.
- The PILOT study evaluated transplant-ineligible patients with relapsed or refractory LBCL after one line of chemoimmunotherapy. The study required at least one of the following criteria to identify patients who were not eligible for high-dose therapy and autologous HSCT: age  $\geq 70$  years, adjusted diffusing capacity of the lung for carbon monoxide (DLCO)  $\leq 60\%$ ; left ventricular ejection fraction (LVEF)  $< 50\%$ ; creatinine clearance  $< 60\text{mL/min}$ ; aspartate transaminase (AST) or alanine aminotransferase (ALT) greater than two times the upper limit or normal, or Eastern Cooperative Oncology Group (ECOG) performance status of 2 (capable of all self-care but unable to carry out any work activities; up and about  $>50\%$  of waking hours).

## V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
LBCL after two or more lines of therapy	Target dose: 50 to 110 x 10 <sup>6</sup> CAR-positive viable T cells	110 x 10 <sup>6</sup> CAR-positive viable T cells
LBCL after one line of therapy	Target dose: 90 to 110 x 10 <sup>6</sup> CAR-positive viable T cells	110 x 10 <sup>6</sup> CAR-positive viable T cells

## VI. Product Availability

Single-dose 5 mL vial: frozen suspension of genetically modified autologous T-cells labeled for the specific recipient

## VII. References

- Breyanzi Prescribing Information. Bothell, WA: Juno Therapeutics, Inc.; June 2022. Available at: [https://packageinserts.bms.com/pi/pi\\_breyanzi.pdf](https://packageinserts.bms.com/pi/pi_breyanzi.pdf). Accessed July 7, 2022.
- ClinicalTrials.gov [Internet]. Bethesda (MD): National Library of Medicine (US). Identifier NCT02631044, Study Evaluating the Safety and Pharmacokinetics of JCAR017 in B-cell Non-Hodgkin Lymphoma (TRANSCEND-NHL-001); 21 June 2021. Available at: <https://clinicaltrials.gov/ct2/show/NCT02631044?term=lisocabtagene&draw=2&rank=4>. Accessed February 1, 2022.

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- v. National Comprehensive Cancer Network Drug and Biologics Compendium. Available at [http://www.nccn.org/professionals/drug\\_compendium](http://www.nccn.org/professionals/drug_compendium). Accessed February 1, 2022.
- vi. National Comprehensive Cancer Network. Central Nervous System Cancers Version 2.2021. Available at: [https://www.nccn.org/professionals/physician\\_gls/pdf/cns.pdf](https://www.nccn.org/professionals/physician_gls/pdf/cns.pdf). Accessed February 1, 2022.
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- viii. Kamdar M, Solomon SR, Arnason JE, et al. Lisocabtagene Maraleucel Versus Standard of Care with Salvage Chemotherapy Followed By Autologous Stem Cell Transplantation As Second-Line Treatment in Patients with Relapsed or Refractory Large B-Cell Lymphoma: Results from an interim analysis of an open-label, randomized, phase 3 trial. *Lancet* 2022; 399: 2294-308.
- ix. ClinicalTrials.gov [Internet]. Bethesda (MD): National Library of Medicine (US). Identifier NCT03483103, Lisocabtagene Maraleucel (JCAR017) as Second-Line Therapy (TRANSCEND-PILOT-017006); 25, April 2022. Available at: <https://clinicaltrials.gov/ct2/show/NCT03483103>. Accessed July 7, 2022.
- x. Sehgal AR, Hildebrandt G, Ghosh N, et al. 2020 ASCO Annual Meeting I, Meeting Abstract: Lisocabtagene maraleucel (liso-cel) for treatment of second-line (2L) transplant noneligible (TNE) relapsed/refractory (R/R) aggressive large B-cell non-Hodgkin lymphoma (NHL): Updated results from the PILOT study. *Journal of Clinical Oncology*. 20, May 2020; 38 (15): 8040.

### Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPSC Codes	Description
Q2054	Lisocabtagene maraleucel, up to 110 million autologous anti-CD 19 CAR-positive viable T cells, including leukapheresis and dose preparation procedures, per therapeutic dose



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Reviews, Revisions, and Approvals	Date	LDH Approval Date
Policy created	05.01.23	

#### Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions, and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable LHCC administrative policies and procedures.

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