

## Clinical Policy: Tisagenlecleucel (Kymriah)

Reference Number: PA.CP.PHAR.361

Effective Date: 09/2017

Last Review Date: 01/2025

### Description

Tisagenlecleucel (Kymriah™) is a CD19-directed, genetically modified, autologous T-cell immunotherapy.

### FDA Approved Indication(s)

Kymriah is indicated for the treatment of:

- Patients up to 25 years of age with B-cell precursor acute lymphoblastic leukemia (ALL) that is refractory or in second or later relapse
- Adult patients with relapsed or refractory large B-cell lymphoma (LBCL) after two or more lines of systemic therapy including diffuse large B-cell lymphoma (DLBCL) not otherwise specified, high grade B-cell lymphoma and DLBCL arising from follicular lymphoma
- Adult patients with relapsed or refractory follicular lymphoma (FL) after two or more lines of systemic therapy^

Limitation(s) of use: Kymriah is not indicated for treatment of patients with primary central nervous system lymphoma.\*

*\*Efficacy of Kymriah for the treatment of LBCL has not been established in patients with active CNS disease (see Appendix D)*

*^ This indication is approved under accelerated approval based on response rate and duration of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials.*

### Policy/Criteria

Provider must submit documentation (which may include office chart notes and lab results) supporting that member has met all approval criteria

It is the policy of PA Health & Wellness that Kymriah **medically necessary** when the following criteria are met:

#### I. Initial Approval Criteria

##### A. Acute Lymphoblastic Leukemia (must meet all):

1. Diagnosis of B-cell precursor ALL;
2. Age  $\leq 25$ ;
3. Prescribed by or in consultation with an oncologist or hematologist;
4. Documentation of CD19 tumor expression;
5. Recent (within the last 30 days) documentation of one of the following (a or b):
  - a. Absolute lymphocyte count (ALC)  $\geq 500/\mu\text{L}$ ;
  - b. CD3 (T-cells) cell count of  $\geq 150/\mu\text{L}$  if ALC  $< 500/\mu\text{L}$ ;
6. Request meets one of the following (a-f):

- a. Disease is refractory, defined as failure to achieve a complete response following induction therapy with  $\geq 2$  cycles of standard chemotherapy regimen (primary refractory) or after 1 cycle of standard chemotherapy for relapsed leukemia (chemorefractory);
- b. Member has had  $\geq 2$  relapses;
- c. Disease is relapsed or refractory, Philadelphia chromosome positive (Ph+): member has received 2 lines of chemotherapy that included 2 tyrosine kinase inhibitors (e.g., imatinib, Sprycel<sup>®</sup>, Tasigna<sup>®</sup>, Bosulif<sup>®</sup>, Iclusig<sup>®</sup>);  
*\*Prior authorization may be required for tyrosine kinase inhibitors*
- d. Disease is Philadelphia chromosome negative (Ph-) or Ph-like B-ALL that is minimal residual disease positive (MRD+) after consolidation therapy;
- e. Disease is Philadelphia chromosome positive (Ph+) with less than complete response or MRD+ at the end of consolidation;
- f. Member has relapsed following allogeneic stem cell transplantation (SCT) and must be  $\geq 6$  months from SCT at the time of Kymriah infusion;
7. Member has not previously received treatment with CAR T-cell immunotherapy (e.g., Abecma<sup>®</sup>, Carvykti<sup>™</sup>, Breyanzi<sup>™</sup>, Tecartus<sup>®</sup>, Yescarta<sup>™</sup>);
8. Kymriah is not prescribed concurrently with other CAR T-cell immunotherapy (e.g., Abecma, Carvykti, Breyanzi, Tecartus, Yescarta);
9. Dose does not exceed (a or b):
  - a. Weight  $\leq 50$  kg:  $5.0 \times 10^6$  chimeric antigen receptor (CAR)-positive viable T cells per kg of body weight;
  - b. Weight  $> 50$  kg:  $2.5 \times 10^8$  CAR-positive viable T cells.

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

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

1. Diagnosis of one of the following LBCL (a-i):
  - a. DLBCL;
  - b. Primary Mediastinal Large B Cell Lymphoma (PMBCL);
  - c. Transformed Follicular Lymphoma (TFL) to DLBCL;
  - d. Transformed Nodal Marginal Zone lymphoma (MZL) to DLBCL;
  - e. Transformed Indolent Lymphomas to CLBCL;
  - f. High-grade B-cell lymphomas with MYC and BCL2 rearrangements or high-grade B-cell lymphomas, not otherwise specified;
  - g. Monomorphic post-transplant lymphoproliferative disorders (B-cell type);
  - h. HIV-related DLBCL, primary effusion lymphoma, and HHV8-positive DLBCL;
  - i. Follicular Lymphoma grade 1-2;
2. Prescribed by or in consultation with an oncologist or hematologist;
3. Age  $\geq 18$  years;
4. Recent (within the last 30 days) ALC  $\geq 300/\mu\text{L}$ ;
5. Request is for one of the following (a or b):
  - a. Disease is refractory or member has relapsed after  $\geq 2$  lines of systemic therapy that includes rituximab and one anthracycline-containing regimen (e.g., doxorubicin);  
*\*Prior authorization may be required for rituximab*

- b. Disease relapsed more than 12 months after completion of first-line therapy and partial response following second-line therapy (off-label);
- 6. Member does not have active or primary CNS disease (*see Appendix D*);
- 7. Member has not previously received treatment with CAR T-cell immunotherapy (e.g., Abecma, Carvykti, Breyanzi, Tecartus, Yescarta);
- 8. Kymriah is not prescribed concurrently with other CAR T-cell immunotherapy (e.g., Abecma, Carvykti, Breyanzi, Tecartus, Yescarta);
- 9. Dose does not exceed  $6.0 \times 10^8$  CAR-positive viable T cells.

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

**C. Follicular Lymphoma\*** (must meet all):

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

- 1. Diagnosis of FL grade 1, 2, or 3a;
- 2. Prescribed by or in consultation with an oncologist or hematologist;
- 3. Age  $\geq 18$  years;
- 4. Request meets one of the following (a or b):
  - a. Disease is relapsed/refractory after  $\geq 2$  lines of systemic therapy that includes a combination of an anti-CD20 monoclonal antibody (e.g., rituximab or Gazyva<sup>®</sup>) and an alkylating agent (e.g., bendamustine, cyclophosphamide, chlorambucil)\*;  
*\*Prior authorization may be required*
  - b. Member has relapsed following autologous SCT;
- 5. Member does not have active CNS involvement by malignancy;
- 6. Member has not previously received treatment with CAR T-cell immunotherapy (e.g., Abecma, Carvykti, Breyanzi, Tecartus, Yescarta);
- 7. Kymriah is not prescribed concurrently with other CAR T-cell immunotherapy (e.g., Abecma, Carvykti, Breyanzi, Tecartus, Yescarta);
- 8. Dose does not exceed a single administration of  $6 \times 10^8$  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)**

**D. Other diagnoses/indications**

- 1. Refer to PA.CP.PMN.53 if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized).

**II. Continued Therapy**

**A. All Indications in Section I**

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

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

- 1. Refer to PA.CP.PMN.53 if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized).

**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 policy – PA.CP.PMN.53 or evidence of coverage documents.

**IV. Appendices/General Information**

*Appendix A: Abbreviation/Acronym Key*

ALC: absolute lymphocyte count  
ALL: acute lymphoblastic leukemia  
CAR: chimeric antigen receptor  
CML: chronic myelogenous leukemia  
CNS: central nervous system  
CRS: cytokine release syndrome  
CSF: cerebral spinal fluid  
DLBCL: diffuse large B-cell lymphoma  
FDA: Food and Drug Administration  
FL: follicular lymphoma  
LBCL: large B-cell lymphoma

MZL: marginal zone lymphoma  
Ph+: Philadelphia chromosome positive  
PMBCL: primary mediastinal large B-cell lymphoma  
r/r: relapsed or refractory  
REMS: risk evaluation and mitigation strategy  
SCT: stem cell transplantation  
TFL: transformed follicular lymphoma  
WBC: white blood cell

*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 and may require prior authorization.*

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
<b>Acute Lymphoblastic Leukemia</b>		
imatinib mesylate (Gleevec®)	Adults with Ph+ ALL: 600 mg/day Pediatrics with Ph+ ALL: 340 mg/m <sup>2</sup> /day	Adults: 800 mg/day Pediatrics: 600 mg/day
Sprycel® (dasatinib)	Ph+ ALL: 140 mg per day	180 mg/day
Iclusig® (ponatinib)	Ph+ ALL: 45 mg per day	45 mg/day
Tasigna® (nilotinib)	Resistant or intolerant Ph+ CML-CP and CML-AP: 400 mg twice per day	800 mg/day
Bosulif® (bosutinib)	Ph+ CML: 500 mg per day	600 mg/day
Various combination regimens that may include the following: daunorubicin, doxorubicin, vincristine, dexamethasone, prednisone, pegaspargase, nelarabine, methotrexate, cyclophosphamide, cytarabine, rituximab, 6-mercaptopurine	Ph- ALL: varies	Varies
<b>Large B-Cell Lymphoma</b>		

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
<i>First-Line Treatment Regimens</i>		
RCHOP (Rituxan <sup>®</sup> (rituximab), cyclophosphamide, doxorubicin, vincristine, prednisone)	Varies	Varies
RCEPP (Rituxan <sup>®</sup> (rituximab), cyclophosphamide, etoposide, prednisone, procarbazine)	Varies	Varies
RCDOP (Rituxan <sup>®</sup> (rituximab), cyclophosphamide, liposomal doxorubicin, vincristine, prednisone)	Varies	Varies
DA-EPOCH (etoposide, prednisone, vincristine, cyclophosphamide, doxorubicine) + Rituxan <sup>®</sup> (rituximab)	Varies	Varies
RCEOP (Rituxan (rituximab), cyclophosphamide, etoposide, vincristine, prednisone)	Varies	Varies
RGCVP (Rituxan <sup>®</sup> (rituximab), gemcitabine, cyclophosphamide, vincristine, prednisone)	Varies	Varies
Pola-R-CHP (polatuzumab vedotin-piiq, rituximab, cyclophosphamide, doxorubicin, prednisone)	Varies	Varies
<i>Second-Line Treatment Regimens</i>		
Bendeka <sup>®</sup> (bendamustine) ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
CEPP (cyclophosphamide, etoposide, prednisone, procarbazine) ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
CEOP (cyclophosphamide, etoposide, vincristine, prednisone) ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
DA-EPOCH ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
GDP (gemcitabine, dexamethasone, cisplatin) ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
gemcitabine, dexamethasone, carboplatin ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
GemOx (gemcitabine, oxaliplatin) ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
gemcitabine, vinorelbine ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
lenalidomide ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
Rituxan (rituximab)	Varies	Varies
DHAX (dexamethasone, cytarabine, oxaliplatin) ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
ESHAP (etoposide, methylprednisolone, cytarabine, cisplatin) ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
ICE (ifosfamide, carboplatin, etoposide) ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
MINE (mesna, ifosfamide, mitoxantrone, etoposide) ± Rituxan <sup>®</sup> (rituximab)	Varies	Varies
<b>FL First-Line and Second-Line + Subsequent Treatment Regimens</b>		
bendamustine + (Gazyva <sup>®</sup> (obinutuzumab) or rituximab)	Varies	Varies
CHOP (cyclophosphamide, doxorubicin, vincristine, prednisone) + (Gazyva <sup>®</sup> (obinutuzumab) or rituximab)	Varies	Varies
CHOP + Gazyva <sup>®</sup> (obinutuzumab) or rituximab	Varies	Varies
CVP (cyclophosphamide, vincristine, prednisone) + Gazyva <sup>®</sup> (obinutuzumab)		
rituximab ± (lenalidomide, chlorambucil, or cyclophosphamide)	Varies	Varies
rituximab	Varies	Varies
Gazyva <sup>®</sup> (obinutuzumab)	Varies	Varies

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
lenalidomide + Gazyva <sup>®</sup> (obinutuzumab)	Varies	Varies
Zevalin <sup>®</sup> (ibritumomab tiuxetan)	Varies	Varies
Tazverik <sup>™</sup> (tazemetostat)	800 mg PO BID	1,600 mg/day

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

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

- Contraindication(s): none reported
- Boxed warning(s):
  - Cytokine Release Syndrome (CRS), including fatal or life-threatening reactions, occurred in patients receiving Kymriah. Do not administer Kymriah to patients with active infection or inflammatory disorders. Treat severe or life-threatening CRS with tocilizumab or tocilizumab and corticosteroids.
  - Neurological toxicities, which may be severe or life-threatening, can occur following treatment with Kymriah, including concurrently with CRS. Monitor for neurological events after treatment with Kymriah. Provide supportive care as needed.
  - T cell malignancies have occurred following treatment of hematologic malignancies with BCMA- and CD19- directed genetically modified autologous T cell immunotherapies, including Kymriah.
  - Kymriah is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called the Kymriah REMS

#### *Appendix D: General Information*

- Refractory ALL is defined as complete remission not achieved after 2 cycles of standard chemotherapy or 1 cycle of standard chemotherapy due to relapsed leukemia.<sup>2</sup>
- Novartis, the manufacturer of Kymriah, recommends that patients with ALL have an ALC  $\geq 500/\mu\text{L}$  for leukapheresis collection. Patients with an ALC  $< 500/\mu\text{L}$  during leukapheresis screening should have had a CD3 (T-cells) cell count of  $\geq 150/\mu\text{L}$  to be eligible for leukapheresis collection.
- The JULIET trial in patients with DLBCL excluded patients with an ALC  $< 300/\mu\text{L}$ .
- Patients with active CNS disease were excluded in the ELIANA trial for ALL and the JULIET trial for DLBCL. In the ALL trial, active CNS involvement by malignancy was defined by CNS-3 per NCCN guidelines (WBC  $\geq 5/\text{mcL}$  in CSF with presence of lymphoblasts). In the DLBCL trial, active CNS involvement was assessed during screening by CNS symptom assessment to evaluate clinical evidence of CNS disease, CNS brain imaging (MRI/CT) if clinically indicated, and CSF cytology only if there was suspicion of CNS involvement.
- NCCN treatment guidelines for ALL state that CNS-directed therapy may include cranial irradiation, intrathecal chemotherapy (e.g., methotrexate, cytarabine, corticosteroids), and/or systemic chemotherapy (e.g., high-dose methotrexate, intermediate or high-dose cytarabine, pegaspargase). For primary DLBCL of the CNS (i.e., primary CNS lymphoma), NCCN treatment guidelines for CNS cancers recommend a high-dose

methotrexate induction based regimen or other systemic therapy regimen if patient is unsuitable for or intolerant to high-dose methotrexate. If a complete response is achieved, or complete response unconfirmed, continue with consolidation therapy with high-dose systemic therapy with stem cell rescue, high-dose cytarabine with or without etoposide, low dose whole brain radiation therapy, temozolomide (after whole brain radiation therapy), or continuation with monthly high-dose methotrexate/rituximab -based regimen. Alternatively, whole brain radiation therapy is recommended if patient is not a candidate for systemic chemotherapy.

- NCCN Pediatric ALL treatment guidelines state that Kymriah can be used in relapsed disease that includes medullary and/or extramedullary disease as CAR-T cells have shown activity against extramedullary disease. NCCN defines extramedullary as disease involving the CNS or testes.
- Frigault et al. 2019 reported on their institutional experience with 8 secondary CNS lymphoma patients treated with Kymriah. The best response assessed 28 days post-Kymriah infusion in these patients included complete responses (n = 2) and partial response (n = 2). Additionally, two patients died within 30 days of Kymriah infusion, the remaining two patients experienced disease progression. All patients were receiving CNS-directed therapy for refractory disease up until lymphodepletion.
- Enrollment in the JULIET trial in patients with DLBCL did not require CD19 positive tumor expression. In a subgroup analysis the best overall response rate was comparable between patients with unequivocal CD19 expression (49%, 95% CI 34 to 64, n = 49) and patients with low or negative CD19 expression (50%, 95% CI 29 to 71, n = 24).

## V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
ALL	≤ 50 kg: 0.2 to 5.0 x 10 <sup>6</sup> CAR-positive viable T cells per kg of body weight IV > 50 kg: 0.1 to 2.5 x 10 <sup>8</sup> CAR-positive viable T cells IV	≤ 50 kg: 5.0 x 10 <sup>6</sup> CAR-positive viable T cells per kg of body weight > 50 kg: 2.5 x 10 <sup>8</sup> CAR-positive viable T cells
LBCL	0.6 to 6.0 x 10 <sup>8</sup> CAR-positive viable T cells IV	6.0 x 10 <sup>8</sup> CAR-positive viable T-cells
FL	0.6 to 6.0 x 10 <sup>8</sup> CAR-positive viable T cells IV	6.0 x 10 <sup>8</sup> CAR-positive viable T-cells

*\*Kymriah should be administered at a certified healthcare facility*

## VI. Product Availability

Single-dose unit infusion bag: frozen suspension of genetically modified autologous T cells labeled for the specific recipient

## VII. References

1. Kymriah Prescribing Information. East Hanover, NJ: Novartis Pharmaceuticals Corporation; June 2024. Available at: <https://www.us.kymriah.com/>. Accessed October 17, 2024.
2. Data on File. Novartis Pharmaceuticals Corporation; East Hanover, NJ. November 2020.

3. National Comprehensive Cancer Network. Acute Lymphoblastic Leukemia Version 2.2021. Available at [https://www.nccn.org/professionals/physician\\_gls/pdf/all.pdf](https://www.nccn.org/professionals/physician_gls/pdf/all.pdf). Accessed October 22, 2024.
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11. Maude SL, Laetsch TW, Buechner J, et al. Tisagenlecleucel in Children and Young Adults with B-Cell Lymphoblastic Leukemia. N Engl J Med. 2018 Feb 1;378(5):439-448.
12. Fowler NH, Dickinson M, Dreyling M, et al. Tisagenlecleucel in adult relapsed or refractory follicular lymphoma: the phase 2 ELARA trial. Nature Medicine 2022; 28(2), 325-332.

### 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
Q2042	Tisagenlecleucel, up to 600 million car-positive viable t cells, including leukapheresis and dose preparation procedures, per therapeutic dose

Reviews, Revisions, and Approvals	Date
1Q 2019 annual review: added minimum ALC requirement per manufacturer and clinical trial exclusion criteria; added criteria for LBCL; added hematologist prescriber option; references reviewed and updated.	01/2019
2Q 2019: LBCL: Removed requirement for CD19 tumor expression.	04/2019
1Q 2020 annual review: Appendix D was updated to include information related to CNS disease; added requirement in Section IA and IB to	01/2020

Reviews, Revisions, and Approvals	Date
confirm “Member does not have active or primary central nervous system (CNS) disease”; ALL: per NCCN treatment guidelines and clinical trial inclusion criteria modified previous therapy requirement to require one of the following (a, b, or c): a) Disease is refractory or member has had $\geq 2$ relapses; b) Disease is Philadelphia chromosome positive: failure of 2 lines of chemotherapy that included 2 tyrosine kinase inhibitors; c) Member has relapsed following HSCT and must be $\geq 6$ months from HSCT at the time of Kymriah infusion; updated therapeutic alternatives to include regimens for Ph-negative ALL; added HCPCS codes; references reviewed and updated.	
1Q 2021 annual review: clarified acceptable types of LBCL diagnoses per FDA indication and NCCN compendium; for ALL removed exclusion for active CNS disease per NCCN support for use in extramedullary disease; references reviewed and updated.	01/2021
1Q 2022 annual review: to align with other CAR-T policies, added requirement that member has not previously received CAR-T therapy and Kymriah is not prescribed concurrently with other CAR-T therapy; for ALL clarified that hematopoietic stem cell transplantation should more specifically refer to allogeneic stem cell transplantation; references reviewed and updated.	01/2022
1Q 2023 annual review: added new FDA approved indication: r/r FL after 2 or more lines of systemic therapy; for LBCL added NCCN supported use in AIDS-related DLBCL, primary effusion lymphoma, and HHV8-positive DLBCL; references reviewed and updated.	01/2023
1Q 2024 annual review: per NCCN for Ph+ ALL, revised requirement to include relapse or refractory disease and modified verbiage from “failure of” to “member has received 2 lines of chemotherapy that included 2 tyrosine kinase inhibitors,” revised reference from AIDS to HIV consistent with NCCN; added Carvykti as an additional example of CAR T-cell immunotherapy that Kymriah should not be prescribed concurrently with or that member has previously received; references reviewed and updated.	01/2024
1Q 2025 annual review: per NCCN Compendium for LBCL added off-label use for disease relapsed more than 12 months after completion of first-line therapy and partial response following second-line therapy; added the following to Appendix C per updated prescribing information: T cell malignancies have occurred following treatment of hematologic malignancies with BCMA- and CD19- directed genetically modified autologous T cell immunotherapies, including Kymriah. Kymriah is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called the Kymriah REMS; references reviewed and updated.	01/2025