

PRIOR AUTHORIZATION POLICY

POLICY: Oncology (Injectable – CAR-T) – Carvykti Prior Authorization Policy

- Carvykti® (ciltacabtagene autoleucel intravenous infusion – Janssen Biotech)

REVIEW DATE: 03/20/2024; selected revision 05/29/2024

OVERVIEW

Carvykti, a B-cell maturation antigen (BCMA)-directed genetically modified autologous T-cell immunotherapy, is indicated for the treatment of relapsed or refractory **multiple myeloma** in adults after at least one prior line of therapy, including a proteasome inhibitor and an immunomodulatory agent, and are refractory to lenalidomide.¹

Carvykti is supplied in one infusion bag containing a frozen suspension of genetically modified autologous T-cells in 5% dimethyl sulfoxide.¹ The bag is stored in the vapor phase of liquid nitrogen (-184°F).

Guidelines

The National Comprehensive Cancer Network clinical practice guidelines for multiple myeloma (version 4.2024 – April 26, 2024) recommend Carvykti as a “Preferred Regimen” for the treatment of multiple myeloma in patients who have received at least one prior therapy including a proteasome inhibitor and an immunomodulatory agent, and are refractory to lenalidomide.^{2,3} Carvykti is also recommended as a “Preferred Regimen” for the treatment of multiple myeloma in patients who have received four or more previous therapies including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 monoclonal antibody before receiving Carvykti.

Safety

Carvykti has a Boxed Warning for cytokine release syndrome, immune effector cell-associated neurotoxicity syndrome, parkinsonism and Guillain-Barre syndrome, hemophagocytic lymphohistiocytosis/macrophage activation syndrome, prolonged and/or recurrent cytopenias, and secondary hematological malignancies.¹ Carvykti is only available through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called the Carvykti REMS.

POLICY STATEMENT

Prior Authorization is recommended for prescription benefit coverage of Carvykti. All approvals are provided for the duration noted below. Because of the specialized skills required for evaluation and diagnosis of patients treated with Carvykti as well as the monitoring required for adverse events and long-term efficacy, approval requires Carvykti to be prescribed by or in consultation with a physician who specializes in the condition being treated. The approval duration is 6 months to allow for an adequate time frame to prepare and administer 1 dose of therapy.

Automation: None.

RECOMMENDED AUTHORIZATION CRITERIA

Coverage of Carvykti is recommended in those who meet the following criteria:

FDA-Approved Indication

03/20/2024

© 2024. All Rights Reserved.

This document is confidential and proprietary. Unauthorized use and distribution are prohibited.

- 1. Multiple Myeloma.** Approve a single dose if the patient meets ALL of the following (A, B, C, D, and E):
 - A)** Patient is ≥ 18 years of age; AND
 - B)** Patient meets ONE of the following (i or ii):
 - i.** Patient has received four or more lines of systemic therapy, including one from each of the following (a, b, and c):
 - a)** Immunomodulatory agent; AND
Note: Immunomodulatory agents include Thalomid (thalidomide capsules), lenalidomide capsules, and Pomalyst (pomalidomide capsules).
 - b)** Proteasome inhibitor; AND
Note: Proteasome inhibitors include bortezomib injection, Kyprolis (carfilzomib intravenous infusion), and Ninlaro (ixazomib capsules).
 - c)** Anti-CD38 monoclonal antibody; OR
Note: Anti-CD38 monoclonal antibodies include Darzalex (daratumumab intravenous infusion), Darzalex Faspro (daratumumab and hyaluronidase-fihj subcutaneous injection), and Sarclisa (isatuximab-irfc intravenous infusion).
 - ii.** Patient meets BOTH of the following (a and b):
 - a)** Patient has received one or more lines of systemic therapy, including one therapy from BOTH of the following [(1) and (2)]:
 - (1)** Immunomodulatory agent; AND
Note: Immunomodulatory agents include Thalomid (thalidomide capsules), lenalidomide capsules, and Pomalyst (pomalidomide capsules).
 - (2)** Proteasome inhibitor; AND
Note: Proteasome inhibitors include bortezomib injection, Kyprolis (carfilzomib intravenous infusion), and Ninlaro (ixazomib capsules).
 - b)** Patient is refractory to lenalidomide; AND
 - C)** Patient has received or plans to receive lymphodepleting chemotherapy prior to infusion of Carvykti; AND
 - D)** Patient has not been previously treated with chimeric antigen receptor (CAR-T) therapy; AND
Note: Examples of CAR-T therapy includes Carvykti, Abecma (idecabtagene vicleucel intravenous infusion), Breyanzi (lisocabtagene maraleucel intravenous infusion), Kymriah (tisagenlecleucel intravenous infusion), Tecartus (brexucabtagene intravenous infusion), and Yescarta (axicabtagene intravenous infusion).
 - E)** The medication is prescribed by or in consultation with an oncologist.

CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of Carvykti is not recommended in the following situations:

- 1.** Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

REFERENCES

1. Carvykti intravenous infusion [prescribing information]. Horsham, PA: Janssen Biotech; April 2024.
2. The NCCN Drugs & Biologics Compendium. © 2024 National Comprehensive Cancer Network. Available at: <http://www.nccn.org>. Accessed on May 24, 2024.
3. The NCCN Multiple Myeloma Clinical Practice Guidelines in Oncology (version 4.2024 – April 26, 2024). © 2024 National Comprehensive Cancer Network. Available at: <http://www.nccn.org>. Accessed on May 24, 2024.

