

Clinical Policy: Moxetumomab Pasudotox-tdfk (Lumoxiti)

Reference Number: CP.PHAR.398

Effective Date: 10.16.18

Last Review Date: 11.24

Line of Business: Commercial, HIM, Medicaid

[Coding Implications](#)
[Revision Log](#)

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

Description

Moxetumomab pasudotox-tdfk (Lumoxiti[™]) is a CD22-directed cytotoxin.

FDA Approved Indication(s)

Lumoxiti is indicated for the treatment of adult patients with relapsed or refractory hairy cell leukemia (HCL) who received at least two prior systemic therapies, including treatment with a purine nucleoside analog (PNA).

Limitation(s) of use: Not recommended in patients with severe renal impairment ($\text{CrCl} \leq 29$ mL/min).

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.

It is the policy of health plans affiliated with Centene Corporation[®] that Lumoxiti is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Hairy Cell Leukemia

1. Authorization is not permitted. Member may not initiate therapy with Lumoxiti. If member is currently using Lumoxiti, proceed to section II.A. Hairy Cell Leukemia for continued therapy (*see Appendix D*).

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 one of the following policies (a or b):
 - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or
 - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.103 for health insurance marketplace, and CP.PMN.16 for Medicaid; or

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: CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Hairy Cell Leukemia (must meet all):

1. Currently receiving medication via Centene benefit, or documentation supports that member is currently receiving Lumoxiti for a covered indication and has received this medication for at least 30 days;
2. Member is responding positively to therapy;
3. Member has not received ≥ 6 treatment cycles;
4. If request is for a dose increase, request meets one of the following (a or b):*
 - a. New dose does not exceed 0.04 mg/kg/dose (actual body weight) for three days of each 28-day cycle;
 - b. New dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

*Prescribed regimen must be FDA-approved or recommended by NCCN.

Approval duration: 6 months (total of 6 cycles)

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 one of the following policies (a or b):
 - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or
 - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.103 for health insurance marketplace, and CP.PMN.16 for Medicaid; or
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: CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.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 – CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

CLS: capillary leak syndrome	HUS: hemolytic uremic syndrome
FDA: Food and Drug Administration	NCCN: National Comprehensive Cancer
HCL: hairy cell leukemia	Cancer

Appendix B: Therapeutic Alternatives

Not applicable

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): none reported
- Boxed warning(s): capillary leak syndrome (CLS) and hemolytic uremic syndrome (HUS)

Appendix D: Permanent Withdrawal of Lumoxiti from the US Market

- On November 18, 2022, AstraZeneca announced the decision to permanently discontinue Lumoxiti from the US market in July 2023. AstraZeneca advises distributors to stop all distribution in August 2023. Also starting in August 2023, AstraZeneca will request returns of Lumoxiti packs from distributors.
- The removal of Lumoxiti from the US market is not related to the safety or efficacy of the medicinal product. There has been very low clinical uptake of Lumoxiti since FDA approval, due to the availability of other treatment options and possibly due to the specialized complexity of administration, toxicity prophylaxis and safety monitoring needs for patients.
- Action required for prescribers: Physicians should not initiate new treatment with Lumoxiti with immediate effect. Physicians who are currently treating patients with Lumoxiti will have adequate time to complete six cycles of treatment.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
HCL	0.04 mg/kg (actual body weight) IV on Days 1, 3, and 5 of each 28-day cycle. Continue treatment for maximum of 6 cycles, disease progression, or unacceptable toxicity.	See regimen

VI. Product Availability

Single-dose vial: 1 mg

VII. References

1. Lumoxiti Prescribing Information. Wilmington, DE: AstraZeneca Pharmaceuticals LP; February 2022. Available at: <https://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=d6510282-1a57-4614-9859-299a227a089c>. Accessed July 17, 2024.
2. AstraZeneca. Important prescribing information update – permanent withdrawal of Lumoxiti from the US market. November 18, 2022. Available at: <https://www.fda.gov/media/164425/download>. Accessed August 5, 2024.

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.

HCPCS Codes	Description
J9313	Injection, moxetumomab pasudotox-tdfk, 0.01 mg

Reviews, Revisions, and Approvals	Date	P&T Approval Date
4Q 2020 annual review: modified HIM-Medical Benefit to HIM line of business; added HCPCS codes; no significant changes; references reviewed and updated.	10.20.20	11.20
4Q 2021 annual review: no significant changes; modified reference from HIM.PHAR.21 to HIM.PA.154; references reviewed and updated.	08.11.21	11.21
4Q 2022 annual review: changed approval duration to 6 months for initial and continued therapy; added maximum of 6 cycles per PI; references reviewed and updated. Template changes applied to other diagnoses/indications.	08.11.22	11.22
4Q 2023 annual review: removed initial approval criteria for HCL due to manufacturer withdrawal, added Appendix E with details of market withdrawal; references reviewed and updated.	06.30.23	11.23
4Q 2024 annual review: no significant changes; removed Appendix D and drugs listed in Appendix B as they are not relevant to current criteria; references reviewed and updated.	08.05.24	11.24

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. The Health Plan 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. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

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 Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment, or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

This clinical policy is the property of the Health Plan. Unauthorized copying, use, and distribution of this clinical policy or any information contained herein are strictly prohibited. Providers, members, and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members and their representatives agree to be bound by such terms and conditions by providing services to members and/or submitting claims for payment for such services.

Note:

For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

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