Lomustine



# **Clinical Policy: Lomustine (Gleostine)**

Reference Number: PA.CP.PHAR.507 Effective Date: 10/2020 Last Review Date: 10/2024

### Description

Lomustine (Gleostine<sup>®</sup>) is a nitrosourea and an alkylating agent.

### FDA Approved Indication(s)

Gleostine is indicated for the treatment of patients with:

- Brain tumors, primary and metastatic, following appropriate surgical and/or radiotherapeutic procedures;
- Hodgkin's lymphoma in combination with other chemotherapies, following disease progression with initial chemotherapy.

### **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 PA Health & Wellness<sup>®</sup> that Gleostine is **medically necessary** when the following criteria are met:

### I. Initial Approval Criteria

- A. Brain Tumors (must meet all):
  - 1. Diagnosis of brain tumor;
  - 2. Prescribed by or in consultation with an oncologist;
  - 3. For brand Gleostine requests, member must use generic lomustine, if available, unless contraindicated or clinically significant adverse effects are experienced;
  - 4. Request meets one of the following (a or b):
    - a. Dose does not exceed  $130 \text{ mg/m}^2$  every 6 weeks.
    - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

#### **Approval duration: 6 months**

### B. Hodgkin's Lymphoma (must meet all):

- 1. Diagnosis of Hodgkin's lymphoma;
- 2. Prescribed by or in consultation with an oncologist or hematologist;
- 3. Failure of an initial chemotherapy regimen (*see Appendix B for examples*), unless contraindicated or clinically significant adverse effects are experienced;
- 4. Prescribed in combination with chemotherapy;
- 5. For brand Gleostine requests, member must use generic lomustine, if available, unless contraindicated or clinically significant adverse effects are experienced;
- 6. Request meets one of the following (a or b):
  - a. Dose does not exceed  $130 \text{ mg/m}^2$  every 6 weeks.
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).



### **Approval duration: 6 months**

#### C. Other diagnoses/indications

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

### **II.** Continued Therapy

- A. All Indications in Section I (must meet all):
  - 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies;
  - 2. Member is responding positively to therapy;
  - 3. For brand Gleostine requests, member must use generic lomustine, if available, unless contraindicated or clinically significant adverse effects are experienced;
  - 4. If request is for a dose increase, request meets one of the following (a or b):
    - a. New dose does not exceed  $130 \text{ mg/m}^2$  every 6 weeks;
    - b. New dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### Approval duration: 12 months

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

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies.

Approval duration: Duration of request or 6 months (whichever is less); or

2. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53

#### 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 – PA.CP.PMN.53

#### **IV. Appendices/General Information**

Appendix A: Abbreviation/Acronym Key FDA: Food and Drug Administration NCCN: National Comprehensive Cancer Network

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.

## **CLINICAL POLICY** Lomustine



Drug Name	Dosing Regimen	Dose Limit/
D 111	TT 1 1 ' Y T 1	Maximum Dose
Doxorubicin,	Hodgkin's Lymphoma	Varies
bleomycin, vinblastine,	Varies	
dacarbazine (ABVD)		
Bleomycin, etoposide,	Hodgkin's Lymphoma	Varies
doxorubicin,	Varies	
cyclophosphamide,		
vincristine,		
procarbazine,		
prednisone (Escalated		
BEACOPP)		
brentuximab vedotin,	Hodgkin's Lymphoma	Varies
etoposide,	Varies	
cyclophosphamide,		
doxorubicin,		
dacarbazine,		
dexamethasone		
(BrECADD)		
Brentuximab vedotin,	Hodgkin's Lymphoma	Varies
doxorubicin,	Varies	
vinblastine,		
dacarbazine (BV +		
AVD)		
$Opdivo^{(R)}$ (nivolumab) +	Hodgkin's Lymphoma	Varies
doxorubicin,	Varies	( units
vinblastine,	v urres	
dacarbazine (AVD)		
Cyclophosphamide,	Hodgkin's Lymphoma	Varies
doxorubicin,	Varies	v unos
vincristine, prednisone	v uries	
$(CHOP) + Rituxan^{\mbox{\ensuremath{\mathbb{R}}}}$		
(rituximab)		
Cyclophosphamide,	Hodgkin's Lymphoma	Varies
vinblastine,	Varies	v aries
prednisolone (CVbP) +	v a1105	
Rituxan (rituximab)		
	ted as Brand name <sup>®</sup> (generic) when the dr	

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): none reported
- Boxed warning(s):
  - Delayed myelosuppression
  - o Risk of overdosage.



### V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Brain tumors, Hodgkin's	$130 \text{ mg/m}^2 \text{ PO one time}$	130 mg/m <sup>2</sup> every 6 weeks
lymphoma	every 6 weeks	

### VI. Product Availability

Capsules: 5 mg, 10 mg, 40 mg, 100 mg

### VII. References

- 1. Gleostine Prescribing Information. Miami, FL: NextSource Biotechnology; September 2018. Available at: <u>http://www.nextsourcepharmaceuticals.com/docs/pi/Gleostine-PI.pdf</u>. Accessed August 2, 2024.
- 2. National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at: <u>http://www.nccn.org/professionals/drug\_compendium</u>. Accessed August 2, 2024.
- 3. National Comprehensive Cancer Network. Central Nervous System Cancers Version 2.2024. Available at: <u>https://www.nccn.org/professionals/physician\_gls/pdf/cns.pdf</u>. Accessed August 2, 2024.
- 4. National Comprehensive Cancer Network. Hodgkin Lymphoma Version 3.2024. Available at: <u>https://www.nccn.org/professionals/physician\_gls/pdf/hodgkins.pdf</u>. Accessed August 2, 2024.
- 5. Clinical Pharmacology [database online]. Tampa, FL: Elsevier, Inc.; 2024. Available at: https://www.clinicalkey.com/pharmacology/.

Reviews, Revisions, and Approvals	Date
Policy created	10/2020
4Q 2021 annual review: for brain tumors, removed temozolomide re-direction	10/2021
per SDC; for Hodgkin's lymphoma, added requirement for combination use	
per FDA label; references reviewed and updated.	
4Q 2022 annual review: no significant changes; revised FDA approved	10/2022
indication to mirror prescribing information; added redirection to generic	
equivalents when available; references reviewed and updated.	
4Q 2023 annual review: no significant changes; references reviewed and	10/2023
updated.	
4Q 2024 annual review: no significant changes; references reviewed and	10/2024
updated.	