

Clinical Policy: Chlorambucil (Leukeran)

Reference Number: HIM.PA.SP59

Effective Date: 08.28.18 Last Review Date: 11.18 Line of Business: HIM

Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

Chlorambucil (Leukeran®) is an aromatic nitrogen mustard derivative and an alkylating agent.

FDA Approved Indication(s)

Leukeran is indicated for the treatment of chronic lymphatic (lymphocytic) leukemia, malignant lymphomas including lymphosarcoma, giant follicular lymphoma, and Hodgkin's disease.

Limitation(s) of use: Leukeran is not curative in any of these disorders but may produce clinically useful palliation.

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 Leukeran is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- A. Chronic Lymphatic (Lymphocytic) Leukemia (must meet all):
 - 1. Diagnosis of chronic lymphatic (lymphocytic) leukemia;
 - 2. Prescribed by or in consultation with an oncologist or hematologist;
 - 3. Age \geq 18 years;
 - 4. Dose does not exceed 0.4 mg per kg per day.

Approval duration: 6 months

B. Malignant Lymphomas (must meet all):

- 1. Diagnosis of malignant lymphoma;
- 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. Dose does not exceed 0.2 mg per kg per day;
 - 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. Follicular Lymphomas (must meet all):

1. Diagnosis of follicular lymphoma;



- 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. Dose does not exceed 0.2 mg per kg per day;
 - 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

D. Hodgkin Disease (Lymphoma):

- 1. Diagnosis of Hodgkin disease;
- 2. Prescribed by or in consultation with an oncologist or hematologist;
- 3. The use of Leukeran in the treatment of Hodgkin lymphoma is no longer supported by NCCN prescribers are encouraged to consult NCCN treatment guidelines for Hodgkin lymphoma for information on recommended treatment regimens (see Appendix B below for examples of NCCN-recommended regimens).

E. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): HIM.PHAR.21 for health insurance marketplace.

II. Continued Therapy

A. All Indications in Section I Except Hodgkin Disease (must meet all):

- 1. Currently receiving medication via Centene benefit, or documentation supports that member is currently receiving Leukeran for a covered indication and has received this medication for at least 30 days;
- 2. Member is responding positively to therapy;
- 3. If request is for a dose increase, request meets one of the following (a or b):
 - a. New dose does not exceed any of the following (i or ii):
 - i. Chronic lymphocytic (lymphatic) leukemia: 0.4 mg/kg/day;
 - Follicular lymphoma, malignant lymphomas including lymphosarcoma: 0.1 mg/kg/day;
 - 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. Hodgkin Disease:

- 1. Diagnosis of Hodgkin disease;
- 2. Prescribed by or in consultation with an oncologist or hematologist;
- 3. The use of Leukeran in the treatment of Hodgkin lymphoma is no longer supported by NCCN prescribers are encouraged to consult NCCN treatment guidelines for Hodgkin lymphoma for information on recommended treatment regimens (see Appendix B below for examples of NCCN-recommended regimens).

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



- 1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.
 - Approval duration: Duration of request or 6 months (whichever is less); or
- 2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): HIM.PHAR.21 for health insurance marketplace.

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 – HIM.PHAR.21 for health insurance marketplace or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key FDA: Food and Drug Administration

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.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
Doxorubicin,	Hodgkin's Lymphoma	Varies
bleomycin, vinblastine,	Varies per protocol and patient tolerance	
dacarbazine (ABVD)		
Doxorubicin,	Hodgkin's Lymphoma	Varies
vinblastine,	Varies per protocol and patient tolerance	
mechlorethamine,		
etoposide, vincristine,		
bleomycin, prednisone		
(Stanford V)		
Bleomycin, etoposide,	Hodgkin's Lymphoma	Varies
doxorubicin,	Varies per protocol and patient tolerance	
cyclophosphamide,		
vincristine,		
procarbazine,		
prednisone (Escalated		
BEACOPP)		
Brentuximab vedotin,	Hodgkin's Lymphoma	Varies
doxorubicin,	Varies per protocol and patient tolerance	
vinblastine,		
dacarbazine (Adcetris®		
+ AVD)		
Cyclophosphamide,	Hodgkin's Lymphoma	Varies
doxorubicin,	Varies per protocol and patient tolerance	
vincristine, prednisone,		



Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
rituximab (CVP + Rituxan®)		
Rituximab (Rituxan®)	Hodgkin's Lymphoma Varies per protocol and patient tolerance	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.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s):
 - o Patients whose disease has demonstrated a prior resistance to Leukeran;
 - o Patients who have demonstrated hypersensitivity to Leukeran;
- Boxed warning(s):
 - o Bone marrow suppression;
 - o Carcinogen;
 - o Mutagenic and teratogenic in humans;
 - o Produces human infertility.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Chronic lymphatic (lymphocytic) leukemia	0.1 mg/kg PO QD	0.4 mg/kg/day
	Intermittent schedules of	
	Leukeran begin with an	
	initial single dose of 0.4	
	mg/kg PO QD. Doses are	
	generally increased by 0.1	
	mg/kg until control of	
	lymphocytosis or toxicity is	
	observed. Subsequent doses	
	are modified to produce	
	mild hematologic toxicity.	
Malignant lymphomas	0.1 mg/kg PO QD	0.1 mg/kg/day
including lymphosarcoma,		
follicular lymphoma		
Hodgkin disease	The use of Leukeran in the	Not applicable
	treatment of Hodgkin	
	lymphoma is no longer	
	supported by NCCN –	
	prescribers are encouraged to consult NCCN treatment	
	guidelines for Hodgkin lymphoma for information	
	Tymphoma for illiormation	



Indication	Dosing Regimen	Maximum Dose
	on recommended treatment	
	regimens.	

VI. Product Availability

Tablets: 2 mg

VII. References

- 1. Leukeran Prescribing Information. Research Park Triangle, NC: GlaxoSmithKline; October 2011. Available at:
 - https://www.accessdata.fda.gov/drugsatfda_docs/label/2011/010669s032lbl.pdf. Accessed August 21, 2018.
- 2. Micromedex® Healthcare Series [Internet database]. Greenwood Village, Colo: Thomson Healthcare. Updated periodically. Accessed August 21, 2018.
- 3. National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at: http://www.nccn.org/professionals/drug_compendium. Accessed August 22, 2018.
- 4. National Comprehensive Cancer Network. Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma Version 1.2019. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cll.pdf. Accessed August 22, 2018.
- 5. National Comprehensive Cancer Network. B-Cell Lymphomas Version 4.2018. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed August 22, 2018.
- 6. National Comprehensive Cancer Network. Hodgkin Lymphoma Version 3.2018. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hodgkins.pdf. Accessed August 22, 2018.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created	08.22.18	10.18

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.

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Note:

For Health Insurance Marketplace members, when applicable, this policy applies only when the prescribed agent is on your health plan approved formulary. Request for non-formulary drugs must be reviewed using the non-formulary policy; HIM.PA.103.

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