

Clinical Policy: Daunorubicin/Cytarabine (Vyxeos)

Reference Number: LA.PHAR.352

Effective Date: 11.04.23

Last Review Date: 04.09.24 ~~06.20.23~~

Line of Business: Medicaid

[Coding Implications](#)

[Revision Log](#)

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

****Please note: This policy is for medical benefit****

Description

Daunorubicin/cytarabine (Vyxeos®) is a liposomal combination of daunorubicin, an anthracycline topoisomerase inhibitor, and cytarabine, a nucleoside metabolic inhibitor.

FDA Approved Indication(s)

Vyxeos is indicated for the treatment of newly-diagnosed therapy-related acute myeloid leukemia (t-AML) or AML with myelodysplasia-related changes (AML-MRC) in adults and pediatric patients 1 year and older.

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 Louisiana Healthcare Connections that Vyxeos is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Acute Myeloid Leukemia (must meet all):

1. Diagnosis of t-AML, AML-MRC, or antecedent myelodysplastic syndrome/chronic myelomonocytic leukemia (MDS/CMML);
2. Prescribed by or in consultation with an oncologist or hematologist;
3. Age \geq 1 year;
4. Request meets one of the following (a, b, or c)*:
 - a. Induction (up to 2 cycles): Dose does not exceed 44 mg/m² daunorubicin liposomal and 100 mg/m² cytarabine liposomal on days 1, 3, and 5 of cycle 1, and days 1 and 3 if a second cycle;
 - b. Consolidation (up to 2 cycles): Dose does not exceed 29 mg/m² daunorubicin liposomal and 65 mg/m² cytarabine liposomal on days 1 and 3 of each cycle;
 - c. 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

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

CLINICAL POLICY

Daunorubicin/Cytarabine



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 LA.PMN.255
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: LA.PMN.53 for Medicaid.

II. Continued Therapy

A. Acute Myeloid Leukemia (must meet all):

1. Currently receiving medication via Louisiana Healthcare Connections benefit, or documentation supports that member is currently receiving Vyxeos 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 yet received ≥ 4 treatment cycles (up 2 to induction and 2 consolidation cycles);
4. If request is for a dose increase, request meets one of the following (a, b, or c)*:
 - a. Induction (up to 2 cycles total): New dose does not exceed 44 mg/m² daunorubicin liposomal and 100 mg/m² cytarabine liposomal on days 1, 3, and 5 of cycle 1, and days 1 and 3 if a second cycle;
 - b. Consolidation (up to 2 cycles total): New dose does not exceed 29 mg/m² daunorubicin liposomal and 65 mg/m² cytarabine liposomal on days 1 and 3 of each cycle;
 - c. 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

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 LA.PMN.
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: LA.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 policy – LA.PMN.53 for Medicaid, or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

AML: acute myeloid leukemia

AML-MRC: acute myeloid leukemia with myelodysplasia-related changes

CLINICAL POLICY

Daunorubicin/Cytarabine



FDA: Food and Drug Administration
 NCCN: National Comprehensive Cancer Network
 MDS-CMLL: myelodysplastic syndrome/chronic myelomonocytic leukemia

t-AML: therapy-related acute myeloid leukemia

Appendix B: Therapeutic Alternatives
 Not applicable

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): hypersensitivity to daunorubicin, cytarabine, or any component of the formulation
- Boxed warning(s): do not interchange with other daunorubicin and/or cytarabine-containing products

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
t-AML, AML-MRC, and antecedent MDS/CMML	<p>A full Vyxeos course consists of 1-2 cycles of induction and up to 2 cycles of consolidation.</p> <ul style="list-style-type: none"> • First Induction: Daunorubicin 44 mg/m² and cytarabine 100 mg/m² liposome IV over 90 minutes on days 1, 3 and 5 • Second Induction (Only for patients failing to achieve a response with the first induction cycle; administered 2 to 5 weeks after the first): Daunorubicin 44 mg/m² and cytarabine 100 mg/m² liposome IV over 90 minutes on days 1 and 3. Administer second induction cycle 2 to 5 weeks after the first induction if there was no unacceptable toxicity to Vyxeos in patients who do not achieve remission with the first induction cycle. • Consolidation: Daunorubicin 29 mg/m² and cytarabine 65 mg/m² liposome IV over 90 minutes on days 1 and 3. Administer the first consolidation cycle 5 to 8 weeks after the start of the last induction; administer the second consolidation cycle 5 to 8 weeks after the start of the first consolidation cycle in patients who do not show disease progression or unacceptable toxicity to Vyxeos. 	See dosing regimens

VI. Product Availability

Single-dose vial: 44 mg daunorubicin and 100 mg cytarabine encapsulated in liposomes

VII. References

CLINICAL POLICY

Daunorubicin/Cytarabine



1. Vyxeos Prescribing Information. Palo Alto, CA: Jazz Pharmaceuticals, Inc.; ~~March 2021~~September 2022. Available at: <https://vyxeos.com>. Accessed ~~July 28, 2022~~August 7, 2023.
2. National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at: http://www.nccn.org/professionals/drug_compendium. Accessed ~~July 28, 2022~~August 7, 2023.
3. National Comprehensive Cancer Network. Acute Myeloid Leukemia Version ~~2.2022~~4.2023. Available at: https://www.nccn.org/professionals/physician_gls/pdf/aml.pdf. Accessed ~~July 28, 2022~~August 7, 2023.
4. Godley LA, Larson RA. Therapy-related Myeloid Leukemia. Seminars in oncology. 2008;35(4):418-429. doi:10.1053/j.seminoncol.2008.04.012.
5. Vardiman J, Reichard K. Acute myeloid leukemia with myelodysplasia-related changes. Am J Clin Pathol. 2015 Jul;144(1):29-43.
6. Lencet JE, Uy GL, Cortes JE, et al. CPX-351 (cytarabine and daunorubicin) liposome for injection versus conventional cytarabine plus daunorubicin in older patients with newly diagnosed secondary acute myeloid leukemia. J Clin Oncol 2018; 36:2684-2692. Available at <https://www.ncbi.nlm.nih.gov/pubmed/30024784>. Accessed ~~July 28, 2022~~August 7, 2023.

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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
J9153	Injection, liposomal, 1 mg daunorubicin and 2.27 mg cytarabine

Reviews, Revisions, and Approvals	Date	LDH Approval Date
Converted corporate to local policy.	06.20.23	<u>10.05.23</u>
<u>Annual review: no significant changes; references reviewed and updated.</u>	<u>04.09.24</u>	

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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. LHCC 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.

CLINICAL POLICY

Daunorubicin/Cytarabine



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 LHCC administrative policies and procedures.

This clinical policy is effective as of the date determined by LHCC. 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. LHCC 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.

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