

Clinical Policy: Daunorubicin/Cytarabine (Vyxeos)

Reference Number: CP.PHAR.352

Effective Date: 12.01.17

Last Review Date: 11.18

Line of Business: Medicaid, HIM-Medical Benefit

[Coding Implications](#)

[Revision Log](#)

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

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 adults with newly-diagnosed therapy-related acute myeloid leukemia (t-AML) or AML with myelodysplasia-related changes (AML-MRC).

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 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 or AML-MRC;
2. Prescribed by or in consultation with an oncologist or hematologist;
3. Age \geq 18 years;
4. Dose does not exceed:
 - a. Induction (up to 2 cycles): 44 mg/m² daunorubicin liposomal and 100 mg/m² cytarabine liposomal;
 - b. Consolidation (up to 2 cycles): 29 mg/m² daunorubicin liposomal and 65 mg/m² cytarabine liposomal.

Approval duration: 6 months

B. 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 and CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Acute Myeloid Leukemia (must meet all):

1. Currently receiving medication via Centene 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, new dose does not exceed:
 - a. Induction (up to 2 cycles total): 44 mg/m² daunorubicin liposomal and 100 mg/m² cytarabine liposomal;
 - b. Consolidation (up to 2 cycles total): 29 mg/m² daunorubicin liposomal and 65 mg/m² cytarabine liposomal.

Approval duration: 6 months

B. 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 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 policy – HIM.PHAR.21 for health insurance marketplace and CP.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

FDA: Food and Drug Administration

MDS: myelodysplastic syndrome

MDS/MPN: myelodysplastic/
myeloproliferative neoplasm

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

Appendix D: General Information

- t-AML is a clinical syndrome occurring as a late complication following cytotoxic therapy and/ or ionizing radiotherapy for an unrelated disease.
- AML-MRC includes those forms of AML occurring in patients with a history of a myelodysplastic syndrome (MDS) or a myelodysplastic/myeloproliferative neoplasm (MDS/MPN); it also includes those forms of AML with morphologic features or cytogenetic abnormalities characteristic of an MDS.
 - The World Health Organization, as discussed in Vardiman et al, defines AML-MRC as cases with 20% or more blasts in the peripheral blood or bone marrow and one or more of the following: (1) history of MDS or MDS/MPN, (2) multilineage dysplasia (dysplasia in $\geq 50\%$ of the cells in at least two lineages), or (3) specific myelodysplasia-related cytogenetic abnormalities - e.g. $-7/\text{del}(7q)$, $-5/\text{del}(5q)$, $i(17q)/t(17p)$, $-13/\text{del}(13q)$, $\text{del}(13q)$, $\text{del}(12p)/t(12p)$, $\text{del}(9q)$, $\text{idic}(X)(q13)$, $t(11;16)(q23;p13.3)$, $t(3;21)(q26.2;q22.1)$, $t(1;3)(p36.3;q21.1)$, $t(2;11)(p21;q23)$, $t(5;12)(q33;p12)$, $t(5;7)(q33;q11.2)$, $t(5;17)(q33;p13)$, $t(5;10)(q33;q21)$, $t(3;5)(q25;q34)$.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
t-AML or AML-MRC	<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 • 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 regimen

VI. Product Availability

Single-dose vial for reconstitution: 44 mg daunorubicin and 100 mg cytarabine

VII. References

1. Vyxeos Prescribing Information. Palo Alto, CA: Jazz Pharmaceuticals, Inc.; August 2017. Available at: <https://vyxeos.com/>. Accessed July 23, 2018.

2. Godley LA, Larson RA. Therapy-related Myeloid Leukemia. *Seminars in oncology*. 2008;35(4):418-429. doi:10.1053/j.seminoncol.2008.04.012.
3. Vardiman J, Reichard K. Acute myeloid leukemia with myelodysplasia-related changes. *Am J Clin Pathol*. 2015 Jul;144(1):29-43.
4. National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at: http://www.nccn.org/professionals/drug_compendium. Accessed July 23, 2018.

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
C9024	Injection, liposomal, 1 mg daunorubicin and 2.27 mg cytarabine

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created	09.06.17	11.17
4Q 2018 annual review: no significant changes; HIM-Medical added; added specialist prescriber requirement; added continuation of therapy language to Section II; references reviewed and updated.	07.23.18	11.18

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.

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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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