

# UTILIZATION MANAGEMENT MEDICAL POLICY

**POLICY:** Oncology (Injectable) – Decitabine Products Utilization Management Medical Policy

• Dacogen® (decitabine intravenous infusion – Otsuka, generic)

**REVIEW DATE:** 12/11/2024

### **OVERVIEW**

Decitabine (Dacogen), a hypomethylating agent, is indicated for the treatment of **myelodysplastic syndromes** (MDS) in adults including previously treated and untreated, *de novo* and secondary MDS of all French-American-British subtypes (refractory anemia, refractory anemia with ringed sideroblasts, refractory anemia with excess blasts, refractory anemia with excess blasts in transformation, and chronic myelomonocytic leukemia) and intermediate-1, intermediate-2, and high-risk International Prognostic Scoring System groups.<sup>1</sup>

#### Guidelines

Decitabine is addressed in National Comprehensive Cancer Network (NCCN) guidelines:

- **Acute Myeloid Leukemia:** Guidelines (version 3.2024 May 17, 2024) recommend decitabine as a single agent, or in combination with Nexavar<sup>®</sup> (sorafenib tablet) or Venclexta<sup>®</sup> (venetoclax tablet) for lower intensity therapy, consolidation therapy, and for the treatment of relapsed/refractory disease.<sup>2,4</sup> Decitabine in combination with Venclexta is also recommended for intensive induction therapy. In addition, decitabine is recommended in combination with Venclexta for relapsed/refractory blastic plasmacytoid dendritic cell neoplasm or as palliative treatment.
- **Myelodysplastic Syndromes:** Guidelines (version 1.2025 November 15, 2024) recommend decitabine for the treatment of lower risk and higher risk MDS, and for the treatment of myelodysplastic/myeloproliferative neoplasms.<sup>2,3</sup>
- **Myeloproliferative Neoplasms:** Guidelines (version 2.2024 August 8, 2024) recommend decitabine for the treatment of myeloproliferative neoplasms (MPN)-accelerated phase or MPN-blast/acute myeloid leukemia phase. <sup>2,5</sup>

### **POLICY STATEMENT**

Prior Authorization is recommended for medical benefit coverage of decitabine. Approval is recommended for those who meet the **Criteria** and **Dosing** for the listed indications. Extended approvals are allowed if the patient continues to meet the Criteria and Dosing. Requests for doses outside of the established dosing documented in this policy will be considered on a case-by-case basis by a clinician (i.e., Medical Director or Pharmacist). All approvals are provided for the duration noted below. Because of the specialized skills required for evaluation and diagnosis of patients treated with decitabine as well as the monitoring required for adverse events and long-term efficacy, approval requires decitabine to be prescribed by or in consultation with a physician who specializes in the condition being treated.

**<u>Automation</u>**: None.

## RECOMMENDED AUTHORIZATION CRITERIA

Coverage of decitabine is recommended in those who meet one of the following criteria:

**FDA-Approved Indication** 

**1. Myelodysplastic Syndromes.** Approve for 1 year if the patient meets BOTH of the following (A <u>and</u> B):

<u>Note</u>: Examples include refractory anemia, refractory anemia with ringed sideroblasts, refractory anemia with excess blasts, refractory anemia with excess blasts in transformation, and chronic myelomonocytic leukemia.

- A) Patient is  $\geq 18$  years of age; AND
- **B**) The medication is prescribed by or in consultation with an oncologist.

**Dosing.** Approve ONE of the following dosing regimens (A or B):

- **A)** Each individual dose must not exceed 15 mg/m<sup>2</sup> administered by intravenous infusion up to 3 times daily for up to 3 days in each 42-day cycle; OR
- **B)** Each individual dose must not exceed 20 mg/m<sup>2</sup> administered by intravenous infusion once daily for up to 5 days in each 28-day cycle.

## **Other Uses with Supportive Evidence**

- 2. Acute Myeloid Leukemia. Approve for 1 year if the patient meets BOTH of the following (A and B):
  - A) Patient is  $\geq 18$  years of age; AND
  - **B**) The medication is prescribed by or in consultation with an oncologist.

**Dosing.** Each individual dose must not exceed 20 mg/m<sup>2</sup> administered by intravenous infusion once daily for up to 10 days of each 28-day cycle.

- **3. Blastic Plasmacytoid Dendritic Cell Neoplasm**. Approve for 1 year if the patient meets ALL of the following (A, B, C, <u>and</u> D):
  - A) Patient is  $\geq 18$  years of age; AND
  - **B)** Patient meets ONE of the following (i or ii):
    - i. Patient has relapsed or refractory disease; OR
    - ii. Decitabine is used for palliative treatment; AND
  - C) Decitabine is used in combination with Venclexta (venetoclax tablets); AND
  - **D)** The medication is prescribed by or in consultation with an oncologist.

**Dosing.** Approve ONE of the following dosing regimens (A or B):

- **A)** Each individual dose must not exceed 15 mg/m<sup>2</sup> administered by intravenous infusion up to 3 times daily for up to 3 days in each 42-day cycle; OR
- **B)** Each individual dose must not exceed 20 mg/m<sup>2</sup> administered by intravenous infusion once daily for up to 5 days in each 28-day cycle.
- **4. Myeloproliferative Neoplasms.** Approve for 1 year if the patient meets ALL of the following (A, B, and C):
  - A) Patient is  $\geq 18$  years of age; AND
  - **B**) Patient meets ONE of the following (i or ii):
    - i. Patient has accelerated phase; OR
    - ii. Patient has blast/acute myeloid leukemia phase; AND
  - C) The medication is prescribed by or in consultation with an oncologist.

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**Dosing.** Each individual dose must not exceed 20 mg/m<sup>2</sup> administered by intravenous infusion once daily for up to 5 days in each 28-day cycle.

### CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of decitabine is not recommended in the following situations:

1. Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

#### REFERENCES

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- The NCCN Drugs and Biologics Compendium. © 2024 National Comprehensive Cancer Network. Available at: http://www.nccn.org. Accessed on December 4, 2024. Search term: decitabine.
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- 4. The NCCN Acute Myeloid Leukemia Clinical Practice Guidelines in Oncology (version 3.2024 May 17, 2024). © 2024 National Comprehensive Cancer Network. Available at: <a href="http://www.nccn.org">http://www.nccn.org</a>. Accessed on December 4, 2024.
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- 6. Blum W, Garzon R, Klisovic RB, et al. Clinical response and *miR-29b* predictive significance in older AML patients treated with a 10-day schedule of decitabine. *Proc Natl Acad Sci USA*. 2010;107:7473-7478.
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- 8. Welch JS, Petti AA, Miller CA, et al. *TP53* and decitabine in acute myeloid leukemia and myelodysplastic syndromes. *N Engl J Med.* 2016;375:2023-2036.
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- 11. Rampal RK, Mascarenhas JO, Kosiorek HE, et al. Safety and efficacy of combined ruxolitinib and decitabine in accelerated and blast-phase myeloproliferative neoplasms. *Blood Res.* 2018;2:3572-3580.

# **HISTORY**

Type of Revision	Summary of Changes					Review Date	
Annual Revision	Acute Myeloid Leukemia: Removed requirement that the patient is $\geq 60$ years of age,						12/13/2023
	has relapsed or refractory disease, OR has unfavorable cytogenetics and TP53 mutation.						
Annual Revision	Myeloproliferative Neoplasms:	Name cl	hanged	from	Myelofibrosis	to	12/11/2024
	Myeloproliferative Neoplasms.						