Evolent Clinical Guideline 3100 for Pyrukynd™ (mitapivat)

Guideline Number: Evolent_CG_3100	Applicable Codes	
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Original Date: June 2022	**Last Revised Date:** May 2026	**Implementation Date:** May 2026

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STATEMENT

Purpose

To define and describe the accepted indications for Pyrukynd (mitapivat) usage in the treatment of cancer, including FDA approved indications, and off-label indications.

Evolent is responsible for processing all medication requests from network ordering providers. Medications not authorized by Evolent may be deemed as not approvable and therefore not reimbursable.

The use of this drug must be supported by one of the following: FDA approved product labeling, CMS-approved compendia, National Comprehensive Cancer Network (NCCN), American Society of Clinical Oncology (ASCO) clinical guidelines, or peer-reviewed literature that meets the requirements of the CMS Medicare Benefit Policy Manual Chapter 15.

INDICATIONS

Continuation requests for a not-approvable medication shall be exempt from this Evolent policy provided

- The member has not experienced disease progression on the requested medication AND
- The requested medication was used within the last year without a lapse of more than 30 days of having an active authorization AND
- Additional medication(s) are not being added to the continuation request.

Hemolytic Anemia

- Pyrukynd (mitapivat) will be used in combination with oral folic acid in a member with hemolytic anemia and documented confirmation of pyruvate kinase deficiency (PKD) AND
    - For initial treatment: The member has a Hgb level less than or equal to 10 g/dL within the last 4 weeks OR
    - For continuation of treatment: Following at least 3 months on therapy, the member has a documented response defined as a rise in Hgb from baseline greater than or equal to 1.5 g/dL and this was sustained without requiring a blood transfusion, including improvement in hemolysis markers (e.g., LDH, haptoglobin, reticulocyte, indirect bilirubin).

CONTRAINDICATIONS/WARNINGS

- None

EXCLUSION CRITERIA

- Disease progression while taking Pyrukynd (mitapivat) or inadequate response to Pyrukynd (mitapivat) at the maximum tolerated daily dose (i.e., 100 mg/day).
- Concurrent use with hematopoietic stimulating agents (e.g., epoetin/darbepoetin alfa, filgrastim/pegfilgrastim, oprelvekin, romiplostim, eltrombopag) or anabolic steroids, including testosterone preparations.
- The member has a history of acute hemolytic anemia, drug induced liver injury, anaphylaxis, rash of erythema multiforme type or Stevens-Johnson syndrome, or cholestatic hepatitis.
- Dosing exceeds single dose limit of Pyrukynd (mitapivat) 50 mg.
- Treatment with Pyrukynd (mitapivat) exceeds the maximum limit of 56 (5 mg), 56 (20 mg), or 56 (50 mg) tablets/month.
- Investigational use of Pyrukynd (mitapivat) with an off-label indication that is not sufficient in evidence or is not generally accepted by the medical community. Sufficient evidence that is not supported by CMS recognized compendia or acceptable peer reviewed literature is defined as any of the following:
    - Whether the clinical characteristics of the patient and the cancer are adequately represented in the published evidence.
    - Whether the administered chemotherapy/biologic therapy/immune therapy/targeted therapy/other oncologic therapy regimen is adequately represented in the published evidence.
    - Whether the reported study outcomes represent clinically meaningful outcomes experienced by patients. Generally, the definition of Clinically Meaningful outcomes are those recommended by ASCO, e.g., Hazard Ratio of less than 0.80 and the recommended survival benefit for OS and PFS should be at least 3 months.
    - Whether the experimental design, in light of the drugs and conditions under investigation, is appropriate to address the investigative question. (For example, in some clinical studies, it may be unnecessary or not feasible to use randomization, double blind trials, placebos, or crossover).
    - That non-randomized clinical trials with a significant number of subjects may be a basis for supportive clinical evidence for determining accepted uses of drugs.
    - That case reports are generally considered uncontrolled and anecdotal information and do not provide adequate supportive clinical evidence for determining accepted uses of drugs.
    - That abstracts (including meeting abstracts) without the full article from the approved peer-reviewed journals lack supporting clinical evidence for determining accepted uses of drugs.

CODING AND STANDARDS

Codes

- J8499 - mitapivat

Applicable Lines of Business

☐	CHIP (Children's Health Insurance Program)
☒	Commercial
☒	Exchange/Marketplace
☒	Medicaid
☐	Medicare Advantage

POLICY HISTORY

Date	Summary
May 2026	• Updated references
May 2025	• Converted to new Evolent guideline template • This guideline replaces UM ONC_1464 Pyrukynd (mitapivat) • Updated maximum dosage form quantities in exclusion criteria • Updated exclusion criteria • Updated references
May 2024	• Updated NCH verbiage to Evolent

LEGAL AND COMPLIANCE

Guideline Approval

Committee

Reviewed / Approved by Evolent Specialty Services Clinical Guideline Review Committee

Disclaimer

Evolent Clinical Guidelines do not constitute medical advice. Treating health care professionals are solely responsible for diagnosis, treatment, and medical advice. Evolent uses Clinical Guidelines in accordance with its contractual obligations to provide utilization management. Coverage for services varies for individual members according to the terms of their health care coverage or government program. Individual members' health care coverage may not utilize some Evolent Clinical Guidelines. Evolent clinical guidelines contain guidance that requires prior authorization and service limitations. A list of procedure codes, services or drugs may not be all inclusive and does not imply that a service or drug is a covered or non-covered service or drug. Evolent reserves the right to review and update this Clinical Guideline in its sole discretion. Notice of any changes shall be provided as required by applicable provider agreements and laws or regulations. Members should contact their Plan customer service representative for specific coverage information.

REFERENCES

1. Al-Samkari H, et al; ACTIVATE Investigators. Mitapivat versus Placebo for Pyruvate Kinase Deficiency. *N Engl J Med*. 2022 Apr 14;386(15):1432-1442. doi: 10.1056/NEJMoa2116634.
2. Pyrukynd prescribing information. Agios Pharmaceuticals, Inc. Cambridge, MA 2025.
3. Clinical Pharmacology Elsevier Gold Standard 2026.
4. Micromedex® Healthcare Series: Micromedex Drugdex Ann Arbor, Michigan 2026.
5. National Comprehensive Cancer Network. Cancer Guidelines and Drugs and Biologics Compendium 2026.
6. AHFS Drug Information. American Society of Health-Systems Pharmacists or Wolters Kluwer Lexi-Drugs. Bethesda, MD 2026.
7. Ellis LM, et al. American Society of Clinical Oncology perspective: Raising the bar for clinical trials by defining clinically meaningful outcomes. *J Clin Oncol*. 2014 Apr 20;32(12):1277-80.
8. Medicare Benefit Policy Manual Chapter 15 Covered Medical and Other Health Services: **https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/bp102c15.pdf**.
9. Current and Resolved Drug Shortages and Discontinuations Reported to the FDA: **http://www.accessdata.fda.gov/scripts/drugshortages/default.cfm**.