

## **Clinical Policy: Tiopronin Delayed-Release (Thiola EC)**

Reference Number: CP.PCH.50

Effective Date: 06.01.23

Last Review Date: 05.23

Line of Business: Commercial, HIM

[Revision Log](#)

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

### **Description**

Delayed-release tiopronin (Thiola<sup>®</sup> EC) is a reducing and cystine-binding thiol.

### **FDA Approved Indication(s)**

Thiola EC is indicated, in combination with high fluid intake, alkali, and diet modification, for the prevention of cystine stone formation in adults and pediatric patients 20 kg and greater with severe homozygous cystinuria, who are not responsive to these measures alone.

### **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<sup>®</sup> that Thiola EC is **medically necessary** when the following criteria are met:

#### **I. Initial Approval Criteria**

##### **A. Severe Homozygous Cystinuria (must meet all):**

1. Diagnosis of severe homozygous cystinuria;
2. Prescribed for the prevention of cystine stone formation;
3. Body weight  $\geq$  20 kg;
4. Provider attestation that Thiola EC is prescribed in combination with all the following preventative measures (a, b, and c):
  - a. High fluid intake;
  - b. Urinary alkalization (e.g., potassium citrate, citric acid);
  - c. Dietary modification (*see Appendix D*);
5. Provider attestation that member has had prior failure or inadequate response to preventative measures alone (e.g., high fluid intake, urinary alkalization, and dietary modification)(*see Appendix D*);
6. Dose does not exceed any of the following (a or b):
  - a. Adult: 3,000 mg per day;
  - b. Pediatric: 50 mg/kg per day.

**Approval duration: 12 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 one of the following policies (a or b):

- a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, and HIM.PA.33 for health insurance marketplace; or
  - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial, and HIM.PA.103 for health insurance marketplace or
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: CP.CPA.09 for commercial, and HIM.PA.154 for health insurance marketplace.

## II. Continued Therapy

### A. Severe Homozygous Cystinuria (must meet all):

1. Member meets one of the following (a or b):
  - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
  - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member is responding positively to therapy;
3. If request is for a dose increase, new dose does not exceed any of the following (a or b):
  - a. Adult: 3,000 mg/day;
  - b. Pediatric 50 mg/kg per day.

**Approval duration: 12 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 one of the following policies (a or b):
  - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial and HIM.PA.33 for health insurance marketplace; or
  - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial and HIM.PA.103 for health insurance marketplace; or
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: CP.CPA.09 for commercial, and HIM.PA.154 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 – CP.CPA.09 for commercial, and HIM.PA.154 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*

Not applicable

*Appendix C: Contraindications/Boxed Warnings*

- Contraindication(s): hypersensitivity to tiopronin or any component of Thiola EC.
- Boxed warning(s): none reported

*Appendix D: General Information*

Per the 2019 American Urological Association Medical Management of Kidney Stones guideline, the following are examples of preventative measures for cysteine stone formation:

- Increasing fluid intake to achieve urine volume > 2.5 liters per day
- Limit sodium intake and consume 1,000-1,200 mg per day of dietary calcium
- Limited intake of non-dairy animal protein
- Limit intake of oxalate rich foods (e.g., spinach, rhubarb, rice bran, buckwheat, almonds, and miso)
- Urinary alkalization (potassium citrate/citric acid)

**V. Dosage and Administration**

<b>Indication</b>	<b>Dosing Regimen</b>	<b>Maximum Dose</b>
Prevention of cystine stones formation in severe homozygous cystinuria	<u>Adults:</u> 800 mg PO daily, administered in 3 divided doses	<u>Adults:</u> 3,000 mg/day*  *Usual adult dose rarely exceeds 2,000 mg/day
	<u>Pediatric:</u> 15 mg/kg/day PO, administered in 3 divided doses	<u>Pediatric:</u> 50 mg/kg/day or adult dose, whichever is less

**VI. Product Availability**

Tablets: 100 mg, 300 mg

**VII. References**

1. Thiola EC Prescribing Information. San Antonio, TX: Mission Pharmacal Company. March 2021. Available at [www.thiolaec.com](http://www.thiolaec.com). Accessed February 24, 2023.

2. Thiola EC Monograph. Clinical Pharmacology. Available at: [www.clinicalkeys.com/pharmacology](http://www.clinicalkeys.com/pharmacology). Accessed February 24, 2023.
3. American Urological Association. Medical Management of Kidney Stones (2019). Available at: [www.auanet.org/guidelines-and-quality/guidelines/kidney-stones-medical-mangement-guideline#x2870](http://www.auanet.org/guidelines-and-quality/guidelines/kidney-stones-medical-mangement-guideline#x2870). Accessed February 24, 2023.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created per February SDC.	02.21.23	05.23

**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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