

# UTILIZATION MANAGEMENT MEDICAL POLICY

**POLICY:** Metabolic Disorders – Primary Hyperoxaluria Medications – Rivfloza Utilization

Management Medical Policy

Rivfloza<sup>™</sup> (nedosiran subcutaneous injection – Novo Nordisk)

**REVIEW DATE:** 11/20/2024; selected revision 12/18/2024

#### **OVERVIEW**

Rivfloza, a lactate dehydrogenase A-directing (LDHA) small interfering RNA, is indicated for the treatment of **primary hyperoxaluria type 1** (PH1) to lower urinary and plasma oxalate levels in adults and children  $\geq 9$  years of age with relatively preserved kidney function.<sup>1</sup>

### **Disease Overview**

Primary hyperoxaluria type 1 is a rare autosomal recessive inborn error of glyoxylate metabolism that results in the overproduction of oxalate, which forms insoluble calcium oxalate crystals that accumulate in the kidney and other organs, leading to issues such as nephrocalcinosis, formation of renal stones, and renal impairment.<sup>2</sup> Mutations in the alanine:glyoxylate aminotransferase gene (AGXT) cause primary hyperoxaluria type 1.<sup>3</sup> Liver transplantation is the only curative intervention for primary hyperoxaluria type 1 as it corrects the underlying enzymatic defect due to mutations of the AGXT gene.<sup>2-4</sup>

# **Clinical Efficacy**

The efficacy of Rivfloza for the treatment of primary hyperoxaluria type 1 has been evaluated in one pivotal study. <sup>1,5</sup> The study included patients  $\geq 9$  years of age with genetically confirmed PH1 and urinary oxalate excretion  $\geq 0.7$  mmol/24 hr/1.73 m<sup>2</sup>. An ongoing open-label extension trial is following patients for up to 4 years. <sup>6</sup> The primary efficacy endpoint of the area under the curve (AUC) percent change from baseline in 24-hour urinary oxalate excretion was assessed following 6 months of Rivfloza therapy.

#### Dosing

Dosing of Rivfloza is a weight-based monthly subcutaneous injection.<sup>1</sup>

Table 1. Rivfloza Dosing Regimen.<sup>1</sup>

Tuble 1: Ktvitožu Dosnig Keginien:				
Age	Body Weight	Dosing Regimen		
Adults and adolescents ≥ 12 years of age	≥ 50 kg	160 mg once monthly		
	< 50 kg	128 mg once monthly		
Children 9 to 11 years of	≥ 50 kg	160 mg once monthly		
age	< 50 kg	3.3 mg/kg once monthly, not to exceed 128 mg		

### **POLICY STATEMENT**

Prior Authorization is recommended for medical benefit coverage of Rivfloza. Approval is recommended for those who meet the **Criteria** and **Dosing** for the listed indication. 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. In cases where the approval is authorized in months, 1 month is equal to 30 days. Because of the specialized skills required for evaluation and diagnosis of patients treated with Rivfloza as well as the monitoring required for adverse events and long-term efficacy, initial approval requires Rivfloza to be prescribed by or in consultation with a physician

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who specializes in the condition being treated. All reviews will be forwarded to the Medical Director for evaluation.

**Documentation:** Documentation is required for use of Rivfloza as noted in the criteria as **[documentation required]**. Documentation may include, but is not limited to chart notes, laboratory tests, claims records, and/or other information. Subsequent coverage reviews for a patient who has previously met the documentation requirements and related criteria in the *Rivfloza Utilization Management Medical Policy* through the Coverage Review Department, and who is requesting reauthorization, are NOT required to resubmit documentation for reauthorization, except for the criterion requiring documentation of a continued benefit from Rivfloza therapy.

**Automation:** None.

# RECOMMENDED AUTHORIZATION CRITERIA

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

# **FDA-Approved Indication**

- **1. Primary Hyperoxaluria Type 1.** Approve Rivfloza for the duration noted if the patient meets ONE of the following (A <u>or</u> B):
  - **A)** <u>Initial Therapy</u>. Approve for 6 months if the patient meets ALL of the following (i, ii, iii, iv, v, <u>and</u> vi):
    - i. Patient is  $\geq 9$  years of age; AND
    - **ii.** Patient has had a genetic test confirming the diagnosis of Primary Hyperoxaluria Type 1 via identification of an alanine:glyoxylate aminotransferase gene (AGXT) mutation [documentation required]; AND
    - iii. Patient has an estimated glomerular filtration rate (eGFR)  $\geq 30$  ml/min per 1.73 m<sup>2</sup> [documentation required]; AND
    - iv. Patient meets ONE of the following (a, b, or c):
      - a) Patient has a urinary oxalate excretion  $\geq 0.5$  mmol/24 hours/1.73 meters<sup>2</sup> with the absence of secondary sources of oxalate [documentation required]; OR
      - **b**) Patient has a urinary oxalate:creatinine ratio above the age-specific upper limit of normal **[documentation required]**; OR
      - c) Patient has a plasma oxalate level ≥ 20 µmol/L [documentation required]; AND
    - v. Patient has <u>not</u> previously received a liver transplant for Primary Hyperoxaluria Type 1; AND
    - vi. The medication is prescribed by or in consultation with a nephrologist or urologist.
  - **B)** Patient is Currently Receiving Rivfloza. Approve for 1 year if the patients meets BOTH of the following (i and ii):
    - i. The patient is continuing to derive benefit from Rivfloza, according to the prescriber, [documentation required]; AND
      - <u>Note</u>: Examples of responses to Rivfloza therapy are reduced urinary oxalate excretion, decreased urinary oxalate:creatinine ratio, or reduced plasma oxalate levels from baseline (i.e., prior to Rivfloza therapy) or improved or stabilized clinical signs/symptoms of Primary Hyperoxaluria Type 1 (e.g., nephrocalcinosis, formation of renal stones, renal impairment).
    - ii. Patient has not previously received a liver transplant for Primary Hyperoxaluria Type 1.

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

- A) If weight is  $\geq 50$  kg, approve for 160mg once monthly.
- **B)** If weight is < 50 kg, approve 3.3 mg/kg once monthly, not to exceed 128mg.

## CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of Rivfloza is not recommended in the following situations:

- **1. Primary Hyperoxaluria Type 2 (PH2).** Rivfloza may have benefit in PH2; however, the efficacy and safety of Rivfloza in patients with PH2 have not been established. Clinical trials are ongoing.
- **2. Primary Hyperoxaluria Type 3 (PH3).** Rivfloza may have benefit in PH3; however, the efficacy and safety of Rivfloza in patients with PH3 have not been established. Clinical trials are ongoing.
- **3. Primary Hyperoxaluria with end stage renal disease (ESRD).** Rivfloza may have benefit in patients with PH1 or PH2 and ESRD; however, the efficacy and safety of Rivfloza in this patient population have not been established. Clinical trials are ongoing.
- **4.** Concurrent use of Rivfloza with Oxlumo (lumasiran subcutaneous injection). Oxlumo is another small interfering RNA agent and should not be used with Rivfloza.
- **5.** Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

# REFERENCES

- 1. Rivfloza<sup>TM</sup> subcutaneous injection [prescribing information]. Plainsboro, NJ: Novo Nordisk; September 2023.
- 2. Milliner DS, Harris PC, Sas DJ, et al. Primary Hyperoxaluria Type 1. Gene Reviews® Available at: <a href="https://www.ncbi.nlm.nih.gov/books/NBK1283/#:~:text=In%20primary%20hyperoxaluria%20type%201.deposit%20in%20the%20renal%20parenchyma">https://www.ncbi.nlm.nih.gov/books/NBK1283/#:~:text=In%20primary%20hyperoxaluria%20type%201.deposit%20in%20the%20renal%20parenchyma</a>. Updated August 15, 2024. Accessed on November 15, 2024.
- 3. Primary Hyperoxaluria: MedlinePlus Genetics. U.S. National Library of Medicine; National Institutes of Health; Department of Health and Human Services. Available at: <a href="https://medlineplus.gov/genetics/condition/primary-hyperoxaluria/#resources">https://medlineplus.gov/genetics/condition/primary-hyperoxaluria/#resources</a>. Accessed on November 15, 2024.
- 4. Cochat P, Rumsby G. Primary hyperoxaluria. N Engl J Med. 2013;369(7):649-658.
- 5. Baum MA, Langman C, Cochat P, et al. PHYOX2: a pivotal randomized study of nedosiran in primary hyperoxaluria type 1 or 2. *Kidney Int.* 2023;103(1):207-217.
- Hoppe B, Coenen M, Schalk G, et al. Nedosiran in primary hyperoxaluria subtype 1: interim results from an open label extension trial (PHYOX3) [poster]. Presented at: 19<sup>th</sup> International Pediatric Nephrology Association (IPNA) Congress. Calgary, Canada. September 7-11, 2022.
- Michael M, Harvey E, Milliner DS, et al. Diagnosis and management of primary hyperoxalurias: best practices. *Pediatr Nephrol.* 2024;39(11):3143-3155.

## **HISTORY**

Type of Revision	Summary of Changes	Review Date
New Policy		11/22/2023
Annual Revision	No criteria changes.	11/20/2024
Selected	<b>Primary Hyperoxaluria Type 1:</b> For Initial Therapy, the option of approval that the	12/18/2024
Revision	patient has a urinary oxalate excretion ≥ 0.7 mmol/24 hours/1.73 m2 was revised to the	
	patient has a urinary oxalate excretion $\geq 0.5$ mmol/24 hours/1.73 m2 with the absence of	
	secondary sources of oxalate. For Patient is Currently Receiving Rivfloza, the	
	requirement that the patient is continuing to derive benefit from Rivfloza was revised to	
	remove the qualifier that this was "as determined by the most recent (i.e., within the past	
	6 months) objective measurement". Also, the requirement that the patient has not	
	previously received a liver transplant was added to the Patient is Currently Receiving	
	Rivfloza criteria set (previously, was only in the Initial Therapy criteria set).	