



# Policy Type: PA/SP

# Pharmacy Coverage Policy: EOCCO059

## Description

Sodium zirconium cyclosilicate (Lokelma) is an orally administered suspension that eliminates potassium through fecal excretion by binding potassium in the gastrointestinal tract in exchange for sodium and hydrogen.

### Length of Authorization

- Initial: One month
- Renewal: 12 months

#### Quantity limits

Product Name	Dosage Form	Indication	Quantity Limit	DDID
sodium zirconium cyclosilicate (Lokelma)	5 g packets	Hyperkalemia	30 packets/30 days	203578,
				202886
	10 g packets		Initial: 36 packets/30 days	203579, 202887
			Renewal: 30 packets/30 days	

#### **Initial Evaluation**

- I. Sodium zirconium cyclosilicate (Lokelma<sup>®</sup>) may be considered medically necessary when the following criteria below are met:
  - A. Member is 18 years of age or older; AND
  - B. A diagnosis of **hyperkalemia** (as noted by a baseline potassium level >5 mEq/L) when the following are met:
    - Provider attestation secondary causes have been ruled out (e.g., hypoaldosteronism, hyperglycemia/hyperosmolality, metabolic acidosis); AND
    - Treatment with one of the following has been ineffective, not tolerated, or all are contraindicated: loop diuretics (i.e., furosemide, toresemide), thiazide diuretics (i.e., hydrochlorothiazide, chlorthalidone), and/or dialysis; AND
    - 3. Provider indication that starting dose will be 10 g daily

#### **Renewal Evaluation**

I. Member has demonstrated a reduction of serum potassium and is now within normal limits (3.5-5 mEq/L)

Normal potassium level	3.5-5mEq/L
Mild hyperkalemia	5.1-6mEq/L
Moderate hyperkalemia	6.1-7mEq/L
Severe hyperkalemia	Greater than 7mEq/L



# Sodium Zirconium Cyclosilicate (Lokelma<sup>®</sup>) EOCCO POLICY



## **Supporting Evidence**

- I. The safety and efficacy of loop diuretics, thiazide diuretics, and dialysis for lowering serum potassium levels has been established. Use of these conventional agents with established therapeutic efficacy and a known safety profile will be considered as they are cost-effective therapies.
- II. Hyperkalemia may often be precipitated by other conditions such as hypoaldosteronism, hyperglycemia/hyperosmolarity and metabolic acidosis which should be ruled out to treat the root cause.
- III. Data from the HARMONIZE trial which was a randomized, double-blind, placebo-controlled trial supports the use of sodium zirconium cyclosilicate for up to 28 days. The study evaluated mean serum potassium levels during days 8-29 and found that sodium zirconium cyclosilicate reduced serum potassium to within the normal range across three different doses and was significantly superior to placebo (P<0.001). The study also demonstrated during the open-label phase that sodium zirconium cyclosilicate dropped the serum potassium levels from 5.6 mEq/L at baseline to 4.5 mEq/L at 48 hours.</p>
- IV. An additional multicenter, two-stage, double-blind, randomized, placebo-controlled trial was used to demonstrate the efficacy and safety of sodium zirconium cyclosilicate for hyperkalemia at 48 hours. The results demonstrated that patients receiving 2.5 g, 5 g, and 10 g all reduced their serum potassium levels to within a normal range.

#### References

- 1. Sodium Zirconium Cyclosilicate (Lokelma®) [Prescribing Information]. Wilmington, DE: AstraZeneca Pharmaceuticals. July 2018.
- 2. UpToDate, Inc. Treatment and prevention of hyperkalemia in adults. UpToDate [database online. Waltham, MA. Current through September 2018. [Accessed August 14, 2019]
- 3. Inker, Lesley A. et al. KDOQI US Commentary on the 2012 KDIGO Clinical Practice Guideline for the Evaluation and Management of CKD. *American Journal of Kidney Diseases*. 2012; Volume 63, Issue 5, 713 735.
- 4. Anker SD, Kosiborod M, Zannad F, et al. Maintenance of serum potassium with sodium zirconium cyclosilicate (ZS-9) in heart failure patients: results from a phase 3 randomized, double-blind, placebo-controlled trial. *European Journal of Heart Failure*. 2015; 17, 1050–1056.
- Kosiborod M, Rasmussen HS, Lavin P, et al. Effect of Sodium Zirconium Cyclosilicate on Potassium Lowering for 28 Days Among Outpatients With Hyperkalemia: The HARMONIZE Randomized Clinical Trial. JAMA. 2014;312(21):2223-2233.
- 6. Packham DK, Rasmussen HS, Lavin PT, et al. Sodium Zirconium Cyclosilicate in Hyperkalemia. *N Engl J Med.* 2015;372:222-31.
- 7. Reardon LC, Macpherson DS. Hyperkalemia in Outpatients Using Angiotensin-Converting Enzyme Inhibitors: How Much Should WE Worry? *Arch Intern Med.* 1998;158(1):26-32.
- 8. National Kidney Foundation: Clinical update on Hyperkalemia at: https://www.kidney.org/sites/default/files/02-10-6785\_HBE\_Hyperkalemia\_Bulletin.pdf.

# Policy Implementation/Update:





Date Created	October 2018
Date Effective	November 2018
Last Updated	August 2019
Last Reviewed	10/2018, 08/2019

Action and Summary of Changes	Date
Updated criteria to policy: Included provider attestation that secondary causes of hyperkalemia have been ruled out. Adjusted language regarding try and fail at least one alternative or show CI to use/intolerance: loop diuretics (i.e. furosemide, toresemide), thiazide diuretics (i.e. hydrochlorothiazide, chlorthalidone), and/or dialysis. Removed requirement members not be diagnosed with CKD.	08/2019

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