

## PRIOR AUTHORIZATION POLICY

**POLICY:** Immune Disorder – Joenja Prior Authorization Policy

- Joenja® (leniolisib tablets – Pharming)

**REVIEW DATE:** 03/20/2024; selected revision 5/29/2024

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### OVERVIEW

Joenja, a kinase inhibitor, is indicated for the treatment of **activated phosphoinositide 3-kinase delta (PI3Kδ) syndrome (APDS)** in adults and pediatric patients ≥12 years of age.<sup>1</sup>

### Disease Overview

APDS is an ultra-rare, genetic, progressive primary immunodeficiency disorder.<sup>2,3</sup> It is estimated to occur in 1 to 2 people per one million. APDS is an autosomal dominant disease caused by variants in *PIK3CD* or *PIK3R1* genes, resulting in hyperactivation of the PI3Kδ pathway. APDS is characterized by both immune deficiency and dysregulation, which causes various clinical manifestations, such as recurrent sinopulmonary infections, recurrent herpesvirus infections, lymphadenopathy, hepatomegaly, splenomegaly, nodular lymphoid hyperplasia, autoimmunity, cytopenias, enteropathy, and bronchiectasis. APDS can lead to end-organ damage, malignancy, and early mortality. There are no other FDA-approved treatments for APDS. Current APDS management includes immunosuppressants, prophylactic antimicrobials, immunoglobulin replacement therapy, sirolimus, hematopoietic stem cell transplantation (HSCT), and surgery or procedures.

### Clinical Efficacy

The efficacy of Joenja was evaluated in one Phase III, randomized, triple-blind, placebo-controlled, multicenter, pivotal study in 31 patients with APDS.<sup>2</sup> Eligible patients were 12 to 75 years of age, had pathogenic variants in *PIK3CD* or *PIK3R1* genes, had clinical findings consistent with APDS (e.g., of repeated oto-sino-pulmonary infection and organ dysfunction), and more than one measurable lymph node on computed tomography or magnetic resonance imaging scan. The co-primary outcomes were differences from baseline in the index lymph node size and the percentage of naïve B cells in peripheral blood, which are measures of immune dysregulation and deficiency.<sup>2</sup> Both co-primary endpoints were met. Joenja significantly reduced lymphadenopathy and significantly increased the percentage of naïve B cells. Joenja also improved other outcome measures, such as spleen size, lymphocyte subsets, cytopenias, and immunoglobulin (Ig)M levels. Although changes in health-related quality of life measures were not statistically significant, many patients reported increase in activity and energy levels. An ongoing open label extension study reported results in an interim analysis from 37 patients with least 5 years of Joenja exposure.<sup>3,4</sup> Joenja demonstrated a reduction in use of immunoglobulin replacement therapy and a decrease in the annualized yearly infection rate. Continued improvements in mean index lymph node size; mean immunoglobulin M (IgM) levels; and mean percentages of naïve B cells and transitional B cells were seen.

### POLICY STATEMENT

Prior Authorization is recommended for prescription benefit coverage of Joenja. 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 Joenja as well as the monitoring required for adverse events and long-term efficacy, approval requires Joenja to be prescribed by or in consultation with a physician who specializes in the condition being treated.

**Automation:** None.

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## RECOMMENDED AUTHORIZATION CRITERIA

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

### FDA-Approved Indication

1. **Activated phosphoinositide 3-kinase delta syndrome (APDS).** Approve for the duration noted if the patient meets the following (A or B):

A) **Initial Therapy.** Approve for 6 months if the patient meets all of the following (i, ii, iii, iv, and v):

- i. Patient is  $\geq 12$  years of age; AND
- ii. Patient weighs  $\geq 45$  kg; AND
- iii. Patient has a genetic phosphoinositide 3-kinase delta (PI3K $\delta$ ) pathogenic variant in the *PIK3CD* and/or *PIK3R1* genes; AND
- iv. Patient has at least one clinical finding or manifestation consistent with APDS; AND  
Note: Examples of clinical findings or manifestations of APDS include recurrent sinopulmonary infections, recurrent herpesvirus infections, lymphadenopathy, hepatomegaly, splenomegaly, nodular lymphoid hyperplasia, autoimmunity, cytopenias, enteropathy, bronchiectasis, and organ dysfunction.
- v. The medication is prescribed by or in consultation with an immunologist or a physician who treats patients with primary immune deficiencies.

B) **Patient is currently receiving Joenja.** Approve for 1 year if the patient meets all of the following (i, ii, iii, iv, and v):

- i. Patient has been established on therapy for at least 6 months; AND  
Note: A patient who has received  $< 6$  months of therapy or who is restarting therapy should be considered under criterion A (Initial Therapy).
- ii. Patient is  $\geq 12$  years of age; AND
- iii. Patient weighs  $\geq 45$  kg; AND
- iv. Patient has a genetic phosphoinositide 3-kinase delta (PI3K $\delta$ ) pathogenic variant in the *PIK3CD* and/or *PIK3R1* genes; AND
- v. Patient has had a positive clinical response in the signs and manifestations of APDS.  
Note: Examples of positive clinical response in the signs and manifestations of APDS include reduction of: lymph node size, spleen size, immunoglobulin replacement therapy use, infection rate, or immunoglobulin M (IgM) levels.

## CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of Joenja 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

1. Joenja® tablets [prescribing information]. Warren, NJ: Pharming; March 2023.
2. Rao V, Webster S, Sediva A, et al. A randomized, placebo-controlled phase 3 trial of the PI3K $\delta$  inhibitor leniolisib for activated PI3K $\delta$  syndrome. *Blood*. 2023;141(9):971-983.
3. Data on File. Leniolisib Pre-approved Product Dossier. Based on AMCP guidelines for formulary submission. Pharming; received March 23, 2023.
4. Rao VK, et al. Interim safety and efficacy analysis of an ongoing long-term open-label extension study of leniolisib for patients with activated PI3K delta syndrome (APDS). Presented at: European Society for Immunodeficiencies (ESID) 20th Biennial Meeting; Gothenburg, Sweden; October 12-15, 2022.

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