

5.30.014

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<b>Section:</b>	Prescription Drugs	<b>Effective Date:</b>	April 1, 2024
<b>Subsection:</b>	Endocrine and Metabolic Drugs	<b>Original Policy Date:</b>	December 7, 2011
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**Last Review Date:** March 8, 2024

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## Sapropterin

### Description

#### Kuvan, Javygtor (**sapropterin**)

Preferred product: generic sapropterin

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#### Background

Prolonged high blood phenylalanine (Phe) levels are neurotoxic and lead to impairment of intelligence and other brain functions (such as attentiveness). Reduction of blood Phe levels through dietary control is an important determinant of long-term neurologic outcome in phenylketonuria (PKU) patients, and reduction of blood Phe levels in patients with PKU has been shown to decrease the long-term risk of neurologic injury. It is difficult for many patients to maintain reduced blood Phe, and many patients with PKU experience some degree of neurological impairment despite efforts to maintain dietary Phe control (1-2).

Response to treatment cannot be pre-determined by laboratory testing (e.g., genetic testing), and can only be determined by a therapeutic trial of sapropterin. Although long-term assessment of neurologic function in patients with PKU receiving sapropterin for the treatment of elevated blood Phe has not been done, sapropterin may help maintain reduced blood Phe levels as an adjunct to a Phe-controlled diet (1-2).

#### Regulatory Status

FDA-approved indication: Sapropterin is indicated to reduce blood phenylalanine (Phe) levels in patients with hyperphenylalaninemia (HPA) due to tetrahydrobiopterin- (BH<sub>4</sub>-) responsive phenylketonuria (PKU). Sapropterin is to be used in conjunction with a Phe-restricted diet (1-2).

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The most common side effects of sapropterin are headache, vomiting, diarrhea, runny nose, cough, and sore throat. Most of these side effects were mild and did not result in patients stopping sapropterin treatment (1-2).

During clinical trials, gastritis was reported as a serious adverse reaction. Monitor patients for signs and symptoms of gastritis (1-2).

Pediatric patients with PKU, 1 month to 16 years of age, have been treated with sapropterin in clinical studies (1-2).

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## Related policies

Palynziq

## Policy

*This policy statement applies to clinical review performed for pre-service (Prior Approval, Precertification, Advanced Benefit Determination, etc.) and/or post-service claims.*

Sapropterin may be considered **medically necessary** if the conditions indicated below are met.

Sapropterin may be considered **investigational** for all other indications.

## Prior-Approval Requirements

**Age** 1 month of age or older

### Diagnosis

Patient must have the following:  
Phenylketonuria (PKU)

**AND ALL** of the following:

- Tetrahydrobiopterin (BH<sub>4</sub>) deficiency has been ruled out
- Phenylalanine-restricted diet
- Prescriber agrees to monitor phenylalanine levels
- NOT** being used in combination with Palynziq (pegvaliase-pqpz)
- Brand Kuvan and Javygtor ONLY:** Patient **MUST** have tried the preferred product (generic Kuvan: sapropterin) unless the patient has a valid medical

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exception (e.g., inadequate treatment response, intolerance, contraindication)

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## Prior – Approval *Renewal* Requirements

**Age** 1 month of age or older

### Diagnosis

Patient must have the following:  
Phenylketonuria (PKU)

**AND ALL** of the following:

- Phenylalanine-restricted diet
- Reduction from baseline phenylalanine levels of 30% or greater
- NOT** being used in combination with Palyzinq (pegvaliase-pqpz)
- Brand Kuvan and Javygtor ONLY:** Patient **MUST** have tried the preferred product (generic Kuvan: sapropterin) unless the patient has a valid medical exception (e.g., inadequate treatment response, intolerance, contraindication)

### Policy Guidelines

#### Pre - PA Allowance

None

#### Prior - Approval Limits

**Duration** 12 weeks

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#### Prior – Approval *Renewal* Limits

**Duration** 12 months

### Rationale

#### Summary

Reduction of blood Phe levels in patients with PKU has been shown to decrease the long-term risk of neurologic injury. In clinical trials of sapropterin in patients with PKU, reductions in blood

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Phe levels were observed in some patients. Pediatric patients with PKU, 1 month to 16 years of age, have been treated with sapropterin in clinical studies (1-2).

Prior authorization is required to ensure the safe, clinically appropriate, and cost-effective use of sapropterin while maintaining optimal therapeutic outcomes.

## References

1. Kuvan [package insert]. Novato, CA: BioMarin Pharmaceutical Inc.; February 2021.
2. Javygtor [package insert]. Princeton, NJ: Dr. Ready's Laboratories Inc.; January 2022.

## Policy History

Date	Action
December 2011	Annual revision
December 2012	Annual revision
March 2014	Line-addition of 100mg oral powder packs
June 2014	Annual editorial review and reference update
October 2014	Change of age requirement to include 1 month of age and older
December 2014	Annual review and reference update
September 2015	Annual review and reference update
September 2016	Annual editorial review and reference update Policy number change from 5.08.14 to 5.30.14
December 2017	Annual review and reference update
September 2018	Annual editorial review, addition of no dual therapy with Palynziq. Addition of prescriber agrees to monitor phenylalanine levels for initiation. Removal of ruling out BH4 deficiency for continuation
December 2019	Annual review
December 2020	Annual review and reference update
June 2021	Annual review and reference update
December 2021	Annual review. Added requirement that brand Kuvan has to t/f the preferred product sapropterin
June 2022	Annual review

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January 2023	Changed policy name to Kuvan Javygtor. Addition of Javygtor to policy as a non-preferred medication. Changed policy number to 5.30.014. Removed hepatic monitoring from regulatory status per PI
March 2023	Annual review
March 2024	Annual review

## Keywords

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**This policy was approved by the FEP® Pharmacy and Medical Policy Committee on March 8, 2024 and is effective on April 1, 2024.**