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Policy Number: C17924-A

## Givlaari (givosiran)

### PRODUCTS AFFECTED

Givlaari (givosiran)

### COVERAGE POLICY

Coverage for services, procedures, medical devices and drugs are dependent upon benefit eligibility as outlined in the member's specific benefit plan. This Coverage Guideline must be read in its entirety to determine coverage eligibility, if any.

This Coverage Guideline provides information related to coverage determinations only and does not imply that a service or treatment is clinically appropriate or inappropriate. The provider and the member are responsible for all decisions regarding the appropriateness of care. Providers should provide Molina Healthcare complete medical rationale when requesting any exceptions to these guidelines.

#### **Documentation Requirements:**

Molina Healthcare reserves the right to require that additional documentation be made available as part of its coverage determination; quality improvement; and fraud; waste and abuse prevention processes. Documentation required may include, but is not limited to, patient records, test results and credentials of the provider ordering or performing a drug or service. Molina Healthcare may deny reimbursement or take additional appropriate action if the documentation provided does not support the initial determination that the drugs or services were medically necessary, not investigational or experimental, and otherwise within the scope of benefits afforded to the member, and/or the documentation demonstrates a pattern of billing or other practice that is inappropriate or excessive.

#### **DIAGNOSIS:**

Acute Hepatic Porphyria (AHP)

#### **REQUIRED MEDICAL INFORMATION:**

This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. If a drug within this policy receives an updated FDA label within the last 180 days, medical necessity for the member will be reviewed using the updated FDA label information along with state and federal requirements, benefit being administered and formulary preferencing. Coverage will be determined on a case-by case basis until the criteria can be updated through Molina Healthcare, Inc. clinical governance. Additional information may be required on a case-by-case basis to allow for adequate review. When the requested drug product for coverage is dosed by weight, body surface area or other member specific measurement, this data element is required as part of the medical necessity review.

#### **A. ACUTE HEPATIC PORPHYRIA:**

1. Documented diagnosis of Acute Hepatic Porphyria [Acute Intermittent Porphyria, Hereditary Coproporphyrin, Variegate Porphyria, aminolevulinic acid (ALA) dehydratase deficient porphyria] confirmed by genetic testing OR positive urine test for PBG (porphobilinogen) or ALA (aminolevulinic acid) with symptomatic disease [DOCUMENTATION REQUIRED]

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## Drug and Biologic Coverage Criteria

AND

2. Active disease documented by at least 2 porphyria attacks\* within the last 6 months OR 4 or more attacks\* per year (\*attacks are defined as those that require hospitalizations, urgent healthcare visits, or intravenous hemin administration at home).  
AND
3. Prescriber attests that Member is NOT *prophylactically* using hemin while on the requested treatment (this does NOT include hemin treatment for acute attacks)  
AND
4. Prescriber attests or reviewer has found no evidence member has ANY of the following (exclusions to therapy): Anticipated liver transplantation, Active HIV, hepatitis C virus, or hepatitis B virus infection(s) or History of recurrent pancreatitis  
AND
5. Prescriber attests liver function tests have been/will be obtained prior to initiating treatment and repeated every month during the first 6 months of treatment, and as clinically indicated.  
AND
6. Prescriber attests that blood Homocysteine level has been/will be obtained prior to initiating treatment and repeated every month during the first 6 months of treatment, and as clinically indicated thereafter  
AND
7. Prescriber attests to (or the clinical reviewer has found that) the member not having any FDA labeled contraindications that haven't been addressed by the prescriber within the documentation submitted for review [Contraindications to Givlaari (givosiran) include: severe hypersensitivity to givosiran]

### CONTINUATION OF THERAPY:

#### A. ACUTE HEPATIC PORPHYRIA

1. Prescriber attests to monitoring liver function tests every month during the first 6 months of treatment (review for elevated transaminase levels which may indicate hepatic toxicity, and as clinically indicated thereafter) AND Homocysteine levels as clinically indicated during treatment.  
AND
2. Documentation of clinical efficacy confirmed by reduction in frequency of attacks, defined as: reduction from baseline in porphyria attacks that required hospitalizations, urgent healthcare visits or intravenous hemin administration at home. [DOCUMENTATION REQUIRED]  
AND
3. Prescriber attests to or clinical reviewer has found no evidence of intolerable adverse effects or drug toxicity (e.g., increased serum creatinine, decrease eGFR, etc.)

### DURATION OF APPROVAL:

Initial authorization: 6 months; Continuation of therapy: 12 months

### PRESCRIBER REQUIREMENTS:

Prescribed by, or in consultation with, a board-certified gastroenterologist, hepatologist, physician specializing in the treatment of porphyria, or specialist at a porphyria treatment center. [If prescribed in consultation, consultation notes must be submitted with initial request and reauthorization requests]

### AGE RESTRICTIONS:

18 years of age or older

### QUANTITY:

2.5mg/kg given subcutaneously (SC) once every month

### PLACE OF ADMINISTRATION:

The recommendation is that injectable medications in this policy will be for pharmacy or medical benefit

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coverage and the subcutaneous injectable products administered in a place of service that is a non-hospital facility-based location as per the Molina Health Care Site of Care program.

**Note:** Site of Care Utilization Management Policy applies for Givlaari (givosiran). For information on site of care, see [Specialty Medication Administration Site of Care Coverage Criteria \(molinamarketplace.com\)](https://www.molinamarketplace.com)

### DRUG INFORMATION

#### ROUTE OF ADMINISTRATION:

Subcutaneous

#### DRUG CLASS:

Aminolevulinic acid Synthase 1-Directed siRNA

#### FDA-APPROVED USES:

Indicated for the treatment of adults with acute hepatic porphyria (AHP)

#### COMPENDIAL APPROVED OFF-LABELED USES:

None

### APPENDIX

#### APPENDIX:

None

### BACKGROUND AND OTHER CONSIDERATIONS

#### BACKGROUND:

Acute Hepatic Porphyria (AHP)

- A group of four inherited diseases of heme biosynthesis that present with episodic, acute neurovisceral symptoms: acute intermittent porphyria (AIP; the most common AHP), variegate porphyria (VP), aminolevulinic acid dehydratase deficiency porphyria (ALAD), and hereditary coproporphyrinuria (HCP)
- Each type of AHP results from a genetic defect leading to deficiency in one of the enzymes of the heme biosynthesis pathway in the liver that, when mutated, lead to impaired production of heme, a vital molecule with responsibilities that include oxygen transport in the blood. As a result, particles generated in the process of making heme cannot be cleared by patients who have AHP, toxins that build up in the liver cause unpredictable episodes of pain and other symptoms.
- All 4 variants are characterized by episodic and potentially life-threatening acute neurologic attacks and more likely to manifest in women (80%) than in men and occurs most commonly in women in child-bearing years between 14 and 45 years of age and symptoms/attacks tend to decrease when women near the age of menopause
- Attacks may be associated with triggers, including certain drugs, smoking or stress; but many have no identifiable cause. Not all patients have frequent episodes, however, and some cases are milder than others.
- Diagnosed by finding significantly elevated levels of porphyrin precursors ALA and porphobilinogen in urine/plasma (American Porphyria Foundation, 2019)
- The combined prevalence of these diseases is approximately 5 cases per 100,000 persons (The Porphyrias Consortium, 2019). It is estimated that about 1 in 10,000 Europeans or people of European ancestry carries a mutation in one of the genes for acute porphyria, although mutations have been found in all races and many other ethnicities.
- Due to the rarity and the nonspecific nature of AHP signs and symptoms, the diagnosis is often missed or delayed as the clinical features resemble other more common medical conditions (i.e. gallstones, appendicitis, inflammatory bowel disease, irritable bowel syndrome, and fibromyalgia)
- Long-term complications and comorbidities of AHP include hypertension, chronic kidney disease

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or liver disease including hepatocellular carcinoma

### Treatment

- The aim of treatment for an acute attack of hepatic porphyria is to abate the attack as quickly as possible and to provide appropriate supportive care and symptomatic care until the acute attack resolves. Hospitalization is usually required.
- Therapy requires confirmation of acute porphyria, based on the finding of elevated urinary porphobilinogen (PBG), either at present or previously. It does not require a diagnosis of the exact type of acute porphyria. In a patient known to have an acute porphyria based on prior testing, the presence of an acute attack is largely established clinically.
- No FDA-approved medications indicated for the *prophylaxis* of porphyria attacks at this time. Current care options generally include trigger avoidance such as certain medications (including porphyrinogenic drugs, hormone drugs, recreation drugs), alcohol uses, dieting or fasting, exposures to sunlight, smoking, emotional or physical stress (including infections and illnesses), menses, and carbohydrate loading.
- There is one FDA-approved treatment option for recurrent attacks: Panhematin (an IV hemin), indicated for the treatment of *acute* attacks and debatable for prophylaxis (not an indication of heme). Blood-derived hemin given IV via central line: Hemin has a short duration of action, requires venous access (often through an indwelling venous catheter), and can have associated side effects (e.g., injection site reactions/phlebitis, coagulopathy, malaise, migraine, hemolysis); long-term administration may cause tachyphylaxis or lead to iron overload, venous scarring, and catheter-related infection (Sardh et al., 2019).
- *Orthotopic liver transplantation (OLT)* has been successful and indeed curative in patients with severe, disabling, intractable attacks that are refractory to hemin therapy; however, OLT is associated with morbidity and mortality it is considered a treatment of last resort. ([Wang et al., 2018](#)).
- Gene therapy is currently in early stages of research.

### Givlaari (givosiran)

- Indicated for the treatment of adults with AHP (FDA approved on November 20, 2019). Administered by a health care professional via subcutaneous injection once monthly at a dose based on actual body weight with medical support available to appropriately manage anaphylactic reactions
- An RNA interference (RNAi) agent that targets the enzyme aminolevulinic acid synthase 1 (ALAS1): First-in-class, small interfering RNA agent that causes degradation of ALAS1 mRNA in hepatocytes through RNA interference, reducing the elevated levels of liver ALAS1 mRNA which leads to reduced circulating levels of the neurotoxic intermediates aminolevulinic acid (ALA) and porphobilinogen (PBG), porphyrin molecules that contribute to the toxic buildup associated with porphyria attacks and other disease manifestations of AHP
- The best available published evidence includes the ENVISION phase III trial (Balwani et al., 2020). A [Phase 1 trial](#) (Sardh et al., 2019) is also published.
- *Pivotal Trial*. FDA-approval was based on positive results of the Phase 3 ENVISION study [*A Study to Evaluate the Efficacy and Safety of Givosiran (ALN-AS1) in Patients with Acute Hepatic Porphyrias*; [NCT03338816](#)] evaluated the safety and effectiveness of givosiran in reducing porphyria attacks in 94 individuals aged  $\geq 12$  years with AHP. Results found a significant reduction in the rate of acute attacks, defined as attacks requiring a medical visit, hospitalization, or home administration of hemin. Final data showed that patients' annual rate of porphyria attacks decreased by 74% in givosiran-treated patients compared with patients treated with a placebo. Levels of ALA, a key biomarker of AHP, was also reduced in patients' urine by 92%, which was consistent with previous interim data.
- Interim results of the ENVISION Phase 3 study published from the open-label extension period confirm the long-term therapeutic benefit of givosiran in patients with AHP who experience recurrent acute AHP attacks. Results show that the efficacy and safety of givosiran were maintained through 12 months of treatment, with sustained or enhanced reduction in AHP attacks over time. (June 30, 2020) The safety profile was consistent with that observed in the double-blind period of the study, and no new safety findings were reported.

### Phase I Trial (Sardh et al., 2019)

A multicenter randomized placebo-controlled trial evaluated the safety, pharmacokinetic, and

## Drug and Biologic Coverage Criteria

pharmacodynamic profiles of Givlaari of patients between the ages of 18 and 65 years with a mutation-confirmed diagnosis of acute intermittent porphyria (AIP) and had elevated urinary delta-aminolevulinic acid (ALA) and porphobilinogen (PBG) levels. A total of 40 patients were enrolled in the study and a total of 23 patients in parts A and B and 17 patients in part C underwent randomization.

The study assessed adverse events (AEs) as well as pharmacodynamic and pharmacokinetic outcomes. Exploratory endpoints were the effect of Givlaari on rates of attacks and hemin use for patients in part C of the study. Attacks were defined as those resulting in hospitalization, urgent care visits, or use of hemin at home.

- In part A of the trial, patients without recent porphyria attacks (i.e., no attacks in the 6 months before baseline) were randomly assigned to receive a single subcutaneous injection of one of five ascending doses of givosiran (0.035, 0.10, 0.35, 1.0, or 2.5 mg per kilogram of body weight) or placebo.
- In part B, patients without recent attacks were randomly assigned to receive once-monthly injections of one of two doses of givosiran (0.35 or 1.0 mg per kilogram) or placebo (total of two injections 28 days apart).
- In part C, patients who had recurrent attacks were randomly assigned to receive injections of one of two doses of givosiran (2.5 or 5.0 mg per kilogram) or placebo once monthly (total of four injections) or once quarterly (total of two injections) during a 12-week period, starting on day 0. Safety, pharmacokinetic, pharmacodynamic, and exploratory efficacy outcomes were evaluated.

**Results.** Patients with recurrent attacks (part C):

- A single 2.5 mg/kg givosiran dose resulted in rapid, dose-dependent reductions in urinary ALAS1 mRNA level (86%), urinary ALA (91%) and PBG levels (96%)
- Repeat doses of 1 mg/kg 28 days apart caused similar decreases, with levels remaining below baseline at day 70
- 4 monthly doses of 2.5 or 5 mg/kg resulted in ALAS1 mRNA reductions of 67% and 74%, respectively.
- ALA and PBG levels were reduced > 90% from baseline; Annualized attack rate among patients who received givosiran was 7.2, compared to 16.7 in the placebo group and annualized number of hemin doses was 12.1 in the givosiran versus 23.4 in the placebo group
- Association between lower ALA levels and reduced annualized attack rate

**Conclusion.** Once-monthly injections of givosiran in patients who had recurrent porphyria attacks resulted in mainly low-grade adverse events, reductions in induced ALAS1 mRNA levels, nearly normalized levels of the neurotoxic intermediates delta aminolevulinic acid and porphobilinogen, and a lower attack rate than that observed with placebo. (ClinicalTrials.gov number, NCT02452372).

## Pivotal Trial Phase 3 Trial

ENVISION: Efficacy and Safety of Givosiran (ALN-AS1) in Patients with Acute Hepatic Porphyrias (AHP) FDA approval of Givlaari was based on pivotal ENVISION trial, a Phase 3 randomized, double-blind, placebo-controlled, multinational study of 94 patients with AHP (median age 37.5 years, 89% female), at 36 study sites in 18 countries. This is the largest interventional study conducted in AHP to date.

- Efficacy in the 6-month double-blind period was measured by the rate of porphyria attacks that required hospitalizations, urgent healthcare visit, or intravenous hemin administration at home.
- All patients had  $\geq 2$  porphyria attacks (requiring hospitalization, urgent healthcare visit, or IV hemin administration at home) in  $\leq 6$  months before study
- Patients were randomized to receive once monthly injections of either givosiran or placebo for 6 months
- Primary Outcome Measures: Annualized rate of composite porphyria attacks, defined as those attacks requiring hospitalization, urgent healthcare visit, or intravenous hemin administration at home, in patients with acute intermittent porphyria (AIP), the most common form of AHP, over six months
  - Secondary outcome measures included the pharmacodynamic (PD) effect of Givlaari on urine levels of delta-aminolevulinic acid, PD effect of Givlaari on urine levels of PBG, annualized rate of hemin administrations, annualized rate of porphyria attacks in patients with AHP, pain as measured by the Brief Pain Inventory-Short Form numeric rating scale, nausea and fatigue as measured by the Brief Fatigue Inventory-Short Form numeric rating scale, and change from baseline in the Physical Component Summary of the 12-Item Short Form Survey (SF-12).

## Results

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## Drug and Biologic Coverage Criteria

- Comparing givosiran vs. placebo at 6 months:
  - Mean rate of porphyria attacks 1.9 vs. 6.5 ( $p < 0.0001$ ): The rate of porphyria attacks that required hospitalization, urgent healthcare visit, or IV hemin administration at home was significantly lower with givosiran treatment (mean rate, 1.9; 95% CI, 1.3 to 2.8) compared with placebo (mean rate, 6.5; 95% CI, 4.5 to 9.3).
  - Mean days of hemin use 4.7 vs. 12.8 ( $p = 0.0002$ ): The mean amount of days of hemin use was significantly lower in the givosiran group (mean days, 4.7 (95% CI, 2.8 to 7.9) vs 12.8 (95% CI, 7.6 to 21.4).
  - The rate of porphyria attacks that required hospitalization, urgent healthcare visit, or IV hemin administration at home was significantly lower with givosiran treatment compared with placebo, with 70% of patients receiving givosiran experiencing fewer porphyria attacks, in a randomized trial.
- Patients with AHP taking Givlaari on average experienced 70% fewer porphyria attacks (95% CI: 60%, 80%) compared to those taking placebo.
- Givlaari also resulted in a similar reduction in intravenous hemin use with an average reduction of 77% in the number of annualized days taking hemin, as well as reductions in urinary ALA and PBG, with mean reductions of 91% and 83% in urinary ALA at three months and six months, respectively.
- Results also showed that the 46 Givlaari-treated patients were on track for an expected average of 3.2 porphyria attacks per year after 6 months, versus an anticipated average of 12.5 attacks per year for the 43 patients in the placebo arm.
- The manufacturer also reported that 50% of Givlaari-treated patients were attack-free during the six-month treatment period as compared to 16.3% for those in the placebo arm.

### Adverse events

- Injection site reactions were reported in 25% of patients receiving Givlaari in the placebo-controlled trial. Symptoms included erythema, pain, pruritus, rash, discoloration, or swelling around the injection site.
- The most common AEs in the Givlaari groups were nasopharyngitis (27%), abdominal pain (24%), nausea (18%), and diarrhea (12%). Seven serious AEs in 6 patients were reported in the Givlaari groups. One patient receiving Givlaari died from hemorrhagic pancreatitis; however, it was determined that this incident was unlikely related to the study drug. Other adverse reactions seen in patients treated with Givlaari (givosiran) (occurring over 5% more frequently than placebo) include rash, serum creatinine increase, transaminase elevations and fatigue. There are warnings for anaphylactic reaction, hepatic toxicity, renal toxicity, and injection site reactions.

### **CONTRAINDICATIONS/EXCLUSIONS/DISCONTINUATION:**

All other uses of Givlaari (givosiran) are considered experimental/investigational and therefore, will follow Molina's Off- Label policy. Contraindications to Givlaari (givosiran) include: severe hypersensitivity to givosiran.

### **OTHER SPECIAL CONSIDERATIONS:**

Dosing of Givlaari (givosiran) is based on actual body weight.

Avoid concomitant use with CYP1A2 (caffeine) and CYP2D6 (dextromethorphan) substrates for which minimal concentration changes may lead to serious or life-threatening toxicities. If concomitant use is unavoidable, decrease the CYP1A2 or CYP2D6 substrate dosage in accordance with approved product labeling.

Administer GIVLAARI as soon as possible after a missed dose. Resume dosing at monthly intervals following administration of the missed dose.

## **CODING/BILLING INFORMATION**

*Note: 1) This list of codes may not be all-inclusive. 2) Deleted codes and codes which are not effective at the time the service is rendered may not be eligible for reimbursement*

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HCPCS CODE	DESCRIPTION
J0223	Injection, givosiran, 0.5 mg

### AVAILABLE DOSAGE FORMS:

Givlaari SOLN 189MG/ML single-dose vial

## REFERENCES

1. Givlaari (givosiran) [prescribing information]. Cambridge, MA: Alnylam Pharmaceuticals; February 2023.
2. FDA Grants Breakthrough Therapy Designation for Alnylam's Givosiran for the Prophylaxis of Attacks in Patients with Acute Hepatic Porphyria. Available at: Link. Accessed December 2019.
3. Alnylam Reports New 12-Month Interim Data from the ENVISION Phase 3 Study of Givosiran in Acute Hepatic Porphyria. Available at: <https://investors.alnylam.com/press-release?id=24946>. Accessed December 2020
4. U.S. Food & Drug Administration. Search Orphan Drug Designations and Approvals: Synthetic double-stranded small interfering RNA (siRNA) oligonucleotide targeting delta-aminolevulinic acid synthase 1. Available at: Link Accessed December 2019.
5. ClinicalTrials.gov. ENVISION: A Study to Evaluate the Efficacy and Safety of Givosiran (ALN-AS1) in Patients with Acute Hepatic Porphyrias (AHP). Available from: <https://clinicaltrials.gov/ct2/show/NCT03338816> Accessed December 2020.
6. Balwani M, Sardh E,. Phase 3 Trial of RNAi Therapeutic Givosiran for Acute Intermittent Porphyria. *N Engl J Med*. 2020 Jun 11;382(24):2289-2301. doi: 10.1056/NEJMoa1913147. PMID: 32521132. Available at: <https://www.nejm.org/doi/full/10.1056/NEJMoa1913147>. Accessed December 2020.
7. Ramanujam VM, Anderson KE. Porphyria Diagnostics-Part 1: A Brief Overview of the Porphyrias. *Curr Protoc Hum Genet*. 2015 Jul 01;86:17.20.1-26. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4640448/> Accessed December 2020.
8. Sardh E, Harper P, et al. Phase 1 Trial of an RNA Interference Therapy for Acute Intermittent Porphyria. *N Engl J Med*. 2019;380:549–58. Available at: <https://doi.org/10.1056/NEJMoa1807838>. Accessed December 2020.
9. Stolzel U., et al. Clinical Guide and Update on Porphyrias. *Gastroenterology*, 157(2): 365-381.e4. Available at: GastroJournal Accessed December 2020.
10. Wang, B., Rudnick, S., Cengia, B. and Bonkovsky, H.L. (2019), Acute Hepatic Porphyrias: Review and Recent Progress. *Hepatol Commun*, 3: 193-206. doi:10.1002/hep4.1297 Available at: <https://aasidpubs.onlinelibrary.wiley.com/doi/pdf/10.1002/hep4.1297> Accessed December 2020.
11. Whatley SD, Badminton MN. Acute Intermittent Porphyria. 2005 Sep 27 [Updated 2019 Dec 5]. In: Adam MP, Ardinger HH, Pagon RA, et al., editors. *GeneReviews* [Internet]. Seattle (WA): University of Washington, Seattle; 1993-2020. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK1193/> Accessed December 2019
12. Woolf J, Marsden JT, Degg T et al. Best practice guidelines on first-line laboratory testing for porphyria. *Annals of Clinical Biochemistry: International Journal of Laboratory Medicine*. 2017; 54(2): 188-198. Available at: <http://journals.sagepub.com/doi/10.1177/0004563216667965> Accessed December 2020.
13. American Porphyria Foundation, 2020. Available at: <https://www.porphyrifoundation.org/for-healthcare-professionals/diagnosis-and-testing/> Accessed December 2020.
14. Balwani M, Wang B, Anderson KE, et al. Acute hepatic porphyrias: Recommendations for evaluation and long-term management. *Hepatology*. 2017;66(4):1314–1322. doi:10.1002/hep.29313. Available at: Link Accessed December 2020.
15. Alnylam Pharmaceuticals, Inc. (2022). Testing for Acute Hepatic Porphyria (AHP). Retrieved June 29, 2023, from Porphyria.com/hcp website: <https://www.porphyrifoundation.org/for-healthcare-professionals/diagnosis-and-testing/>
16. Wang, B., Bonkovsky, H. L., Lim, J. K., & Balwani, M. (2023). AGA Clinical Practice Update on Diagnosis and Management of Acute Hepatic Porphyrias: Expert Review. *Gastroenterology*, 164(3). <https://doi.org/10.1053/j.gastro.2022.11.034>

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Drug and Biologic Coverage Criteria

SUMMARY OF REVIEW/REVISIONS	DATE
REVISION- Notable revisions: Required Medical Information Continuation of Therapy Prescriber Requirements Place of Administration Drug Class Contraindications/Exclusions/Discontinuation Other Special Considerations Available Dosage Forms References	Q3 2023
REVISION- Notable revisions: Required Medical Information Continuation of Therapy Duration of Approval Prescriber Requirements Age Restrictions Other Special Considerations References	Q3 2022
Q2 2022 Established tracking in new format	Historical changes on file

HIGH RISK ALERT