

VIGADRON® for oral solution

IN0556AU R0220

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use VIGADRON® FOR ORAL SOLUTION safely and effectively. See full prescribing information for VIGADRON® (vigabatrin) powder for oral solution.

Initial U.S. Approval: 2009

WARNING: PERMANENT VISION LOSS See full prescribing information for complete boxed warning.

- VIGADRON can cause permanent bilateral concentric visual field constriction, including tunnel vision that can result in disability. In some cases, VIGADRON may also decrease visual acuity (5.1).
- Risk increases with increasing dose and cumulative exposure, but there is no dose or exposure to VIGADRON known to be free of risk of vision loss (5.1).
- Risk of new and worsening vision continues as long as VIGADRON is used, and possibly after discontinuing VIGADRON (5.1).
- Baseline and periodic vision assessment is recommended for patients on VIGADRON. However, this assessment cannot always prevent vision damage (5.1).
- VIGADRON is available through a restricted program called the **Vigabatrin REMS Program (5.2)**.

RECENT MAJOR CHANGES

Indications and Usage (1.1) 1/2020
Dosage and Administration (2.2, 2.3) 1/2020
Warnings and Precautions (5.3) 1/2020
Warnings and Precautions (5.8) 7/2019

INDICATIONS AND USAGE

VIGADRON is indicated for the treatment of:

- Refractory Complex Partial Seizures as adjunctive therapy in patients 2 years of age and older who have resisted adequately to several alternative treatments; VIGADRON is not indicated as a first line agent (1.1).
- Infantile Spasms – monotherapy in patients 1 month to 2 years of age when the potential benefits outweigh the potential risk of vision loss (1.2).

DOSE AND ADMINISTRATION

- Adults (17 years of age and older): Initiate at 1000 mg/day (500 mg twice daily); increase total daily dose weekly in 500 mg/day increments, to the recommended dose of 3000 mg/day (1500 mg twice daily) (2.2).
- Pediatric (2 to 16 years of age): The recommended dose is based on body weight and administered as two divided doses (2.2).

CONTRAINDICATIONS

- None (4).

WARNINGS AND PRECAUTIONS

- Abnormal MRI signal changes and intracranial edema have been reported in some infants with Infantile Spasms receiving vigabatrin (5.3, 5.4).
- Suicidal behavior and ideation: Antiepileptic drugs, including VIGADRON, increase the risk of suicidal thoughts and behavior (5.5).
- Withdrawal of AEDs: Taper dose to avoid withdrawal seizures (5.6).
- Anemia: Monitor for symptoms of anemia (5.7).
- Antiepileptic drug failure: Advise patients with AEDs to not operate machinery until they have gained sufficient experience on VIGADRON (5.8).

ADVERSE REACTIONS

Refractory Complex Partial Seizures

- Most common adverse reactions in controlled studies include (incidence ≥2% over placebo):

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VIGADRON powder for oral solution should be mixed with water prior to administration [see Dosage and Administration (2.2)]. A calibrated measuring device is recommended to measure and deliver the prescribed dose accurately. A household teaspoon or tablespoon is not an adequate measuring device.

It is advised to make to discontinue VIGADRON, the dose should be gradually reduced [see Dosage and Administration (2.2, 2.3) and Warnings and Precautions (5.8)].

2.2 Refractory Complex Partial Seizures

Adults (Patients 17 Years of Age and Older)

Initiate at 1000 mg/day (500 mg twice daily). Total daily dose may be increased in 500 mg increments at weekly intervals, depending on response. The recommended dose of VIGADRON in adults is 3000 mg/day (1500 mg twice daily). A 6000 mg/day dose has not been shown to confer additional benefit over the 3000 mg/day dose and is associated with an increased incidence of adverse events.

In controlled clinical studies in adults with complex partial seizures, vigabatrin was tapered by decreasing the daily dose 1000 mg/day on a weekly basis until discontinued [see Warnings and Precautions (5.8)].

The recommended dosage is based on body weight and administered as two divided doses, as shown in Table 1. The dosage may be increased in weekly intervals to the total daily maintenance dosage, depending on clinical response. Nausea/vomiting is unknown [see Warnings and Precautions (5.8)].

(Pediatric patients weighing more than 60 kg should be dosed according to adult recommendations.)

Body Weight [kg]	Starting Daily Total Dose (mg/day)	Maximum Daily Total Dose (mg/day)
10 kg to 15 kg	350 mg	1,050 mg
Greater than 15 kg to 20 kg	450 mg	1,350 mg
Greater than 20 kg to 25 kg	500 mg	1,500 mg
Greater than 25 kg to 60 kg	500 mg	2,000 mg

* Administered in two divided doses.
† Maintenance dose is based on 3000 mg/day adult equivalent dose.
‡ Patients weighing more than 60 kg should be dosed according to adult recommendations.

In patients with refractory complex partial seizures, VIGADRON should be withdrawn if a substantial clinical benefit is not observed within 3 months of initiating treatment. If, in the clinical judgment of the prescriber, evidence of treatment failure becomes obvious earlier than 3 months, treatment should be discontinued at that time [see Dosage and Administration (2.2)].

In a controlled study in pediatric patients with complex partial seizures, vigabatrin was tapered by decreasing the daily dose by one third every week for three weeks [see Warnings and Precautions (5.8)].

2.3 Infantile Spasms

The initial daily dosing is 50 mg/kg/day given in two divided doses (25 mg/kg twice daily); subsequent dosing can be titrated by 25 mg/kg/day to 50 mg/kg/day increments every 3 days, up to a maximum of 150 mg/kg/day given in 2 divided doses (75 mg/kg twice daily) [see Use in Specific Populations (6.1)].

Table 2 provides the volume of the 50 mg/mL dosing solution that should be administered as individual doses in infants of various weights.

Weight (kg)	Starting Dose (mg/kg/day)	Maximum Dose (mg/kg/day)
1.5	1.5 mL twice daily	4.5 mL twice daily
2	2 mL twice daily	6 mL twice daily
4	2.5 mL twice daily	7.5 mL twice daily
6	3 mL twice daily	9 mL twice daily
7	3.5 mL twice daily	10.5 mL twice daily
8	4 mL twice daily	12 mL twice daily
9	4.5 mL twice daily	13.5 mL twice daily
10	5 mL twice daily	15 mL twice daily
11	5.5 mL twice daily	16.5 mL twice daily
12	6 mL twice daily	18 mL twice daily
13	6.5 mL twice daily	19.5 mL twice daily
14	7 mL twice daily	21 mL twice daily
15	7.5 mL twice daily	22.5 mL twice daily
16	8 mL twice daily	24 mL twice daily

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Patients must enroll in the program. Pharmacy must be certified and must only dispense to patients authorized to receive VIGADRON.

Further information is available at www.vigabatrinREMS.com or call 1-866-244-8175.

5.3 Magnetic Resonance Imaging (MRI) Abnormalities in Infants

Abnormal MRI signal changes characterized by increased T2 signal and restricted diffusion in a number of MRI regions including the brainstem, brain stem, and cerebellum have also been observed in some infants treated with vigabatrin.

In a retrospective epidemiologic study in infants with infantile spasms (N=205), the prevalence of abnormal MRI signal changes was 45% in infants treated with vigabatrin and 15% in those who were not. In this study, in post-marketing experience, and in published literature, these changes generally resolved with discontinuation of treatment. In a few patients, the lesion was persistent. It has been suggested that these MRI changes are not necessarily epileptogenic motor abnormalities, but no causal relationship has been established and the potential for long-term clinical sequelae has not been adequately studied.

Neurotoxicity (brain histopathology and neurobehavioral abnormalities) was observed in rats treated during late gestation and the neonatal and juvenile periods of development, and brain histopathological changes were observed in dogs exposed to vigabatrin during the juvenile period of development. The relationship between these findings and the abnormal MRI signal changes observed in infants with refractory complex partial seizures (CPS) 3 years and older (N=656), no difference was observed in anatomic distribution or prevalence of MRI signal changes between vigabatrin treated and placebo treated patients. In post-marketing setting, MRI changes have also been reported in patients 6 years of age and younger being treated for refractory CPS.

5.4 Neurotoxicity

Intracranial Edema (IME) has been reported in postmortem examination of infants being treated for infantile spasms with vigabatrin.

Abnormal MRI signal changes characterized by increased T2 signal and restricted diffusion in a number of MRI regions including the brainstem, brain stem, and cerebellum have also been observed in some infants treated for IS with vigabatrin. Studies of the effects of vigabatrin on MRI and evoked potentials (EP) in adult epileptic patients have demonstrated no clear-cut relationship between MRI changes and clinical status.

Vacuolation, characterized by thick accumulation and separation of the outer layers of myelin, has been observed in brain white matter tracts in adult and juvenile rats and adult mice, dogs, and possibly monkeys following administration of vigabatrin. This lesion, referred to as vacuolation in MRI, was seen in the animals at doses within the human therapeutic range. A no-effect dose was not established in rodents or dogs. In the rat and dog, vacuolation was followed by discontinuation of vigabatrin treatment, but, in the rat, the pathologic changes persisted for several months. The relationship between these findings and the abnormal MRI signal changes observed in infants with refractory complex partial seizures (CPS) 3 years and older (N=656), no difference was observed in anatomic distribution or prevalence of MRI signal changes between vigabatrin treated and placebo treated patients. In post-marketing setting, MRI changes have also been reported in patients 6 years of age and younger being treated for refractory CPS.

5.5 Social Behavior and Ideation

Antiepileptic drugs (AEDs), including VIGADRON, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with any AED for any indication should be monitored for changes in behavior, including depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior.

Administration of vigabatrin to rats during the neonatal and juvenile periods of development produced vacuolar changes in the brain gray matter (including the thalamus, midbrain, deep cerebellar nuclei, substantia nigra, hippocampus, and forebrain) when they are considered distinct from the IME observed in patients. Decreases in myelination and evidence of oligodendrocyte injury were additional findings in the brains of vigabatrin-treated rats. An increase in apoptosis was seen in some brain regions following vigabatrin exposure during the early neonatal period. Similar neurobehavioral abnormalities (convulsions, tremor, and learning deficits) were also observed following vigabatrin treatment of young rats. Administration of vigabatrin to juvenile dogs produced vacuolar changes in the brain gray matter (including the thalamus, midbrain, and forebrain). Neurobehavioral effects of vigabatrin were not assessed in the juvenile dog. These effects in young animals occurred at doses lower than those producing neurotoxicity in adult patients, but were not necessarily lower than those achieved clinically in infants and children [see Use in Specific Populations (6.1, 6.2)].

In a published study, vigabatrin (200, 400 mg/kg/day) induced apoptotic neurodegeneration in the brain of young rats when administered by intraperitoneal injection on postnatal days 5 to 7. Administration of vigabatrin to female rats during pregnancy and lactation at doses below those clinically used resulted in vigabatrin vacuolation and convulsions in the mature offspring.

5.6 Withdrawal of Antiepileptic Drugs (AEDs)

As with all AEDs, VIGADRON should be withdrawn gradually. If withdrawal is needed because of a serious adverse event, rapid discontinuation can be considered. Patients and caregivers should be advised to discontinue VIGADRON gradually.

In controlled clinical studies in adults with complex partial seizures, vigabatrin was tapered by decreasing the daily dose 1000 mg/day on a weekly basis until discontinued.

In a controlled study in pediatric patients with complex partial seizures, vigabatrin was tapered by decreasing the daily dose by one third every week for three weeks.

In a controlled clinical study in patients with infantile spasms, vigabatrin was tapered by decreasing the daily dose at a rate of 25 mg/kg every 3 to 4 days [see Warnings and Precautions (5.8)].

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6 ADVERSE REACTIONS

The following serious and otherwise important adverse reactions are described elsewhere in labeling:

- Permanent Vision Loss [see **BOXED WARNING** and Warnings and Precautions (5.1)]
- Magnetic Resonance Imaging (MRI) Abnormalities in Infants [see Warnings and Precautions (5.3)]
- Neurotoxicity [see Warnings and Precautions (5.4)]
- Suicidal Behavior and Ideation [see Warnings and Precautions (5.5)]
- Withdrawal of Antiepileptic Drugs (AEDs) [see Warnings and Precautions (5.6)]
- Anemia [see Warnings and Precautions (5.7)]
- Somnolence and Fatigue [see Warnings and Precautions (5.8)]
- Peripheral Neuropathy [see Warnings and Precautions (5.9)]
- Weight Gain [see Warnings and Precautions (5.10)]
- Forma [see Warnings and Precautions (5.11)]

6.1 Clinical Trials

Clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In U.S. and primary non-U.S. clinical studies of 4,079 vigabatrin-treated patients, the most common (≥5%) adverse reactions associated with the use of vigabatrin in combination with antiepileptic drugs (AEDs) were: dizziness, blurred vision, weight gain, upper respiratory tract infection, visual field defect, depression, tremor, nystagmus, nausea, diarrhea, memory impairment, insomnia, irritability, abnormal coordination, blurred vision, dizziness, influenza, pyrexia, and, in adults, headache.

The adverse reactions most commonly associated with vigabatrin treatment discontinuation in ≥1% of patients were convulsion and depression.

In patients with infantile spasms, the adverse reactions most commonly associated with vigabatrin treatment discontinuation in ≥1% of patients were infections, status epilepticus, developmental coordination disorder, dystonia, hystonia, hypotonia, weight gain, and insomnia.

Refractory Complex Partial Seizures

Adults

Table 5 lists the adverse reactions that occurred in ≥2% and more than one patient per vigabatrin-treated group and that occurred more frequently than in placebo patients in 2 U.S. and 1 non-U.S. clinical trial.

Table 10. Spasm Freedom by Primary Criteria (Study 1)		
Patients who Achieved Spasm Freedom	Vigabatrin Treatment Group	
	18 to 36 mg/kg/day (N=114) n (%)	100 to 148 mg/kg/day (N=107) n (%)
p=0.0375 Note: Primary criteria were evaluated based on caregiver assessment plus CCTV EEG confirmation within 3 days of the seventh day of spasm freedom.	8 (7.0)	17 (15.9)

Study 2
Study 2 (N=40) was a multicenter, randomized, double-blind, placebo-controlled, parallel-group study consisting of a pre-treatment (baseline) period of 2 to 3 days, followed by a 5-day double-blind treatment phase during which patients were treated with vigabatrin (initial dose of 50 mg/kg/day with titration allowed to 150 mg/kg/day) or placebo. The primary efficacy endpoint in this study was the average percent change in daily spasm frequency, assessed during a pre-defined and consistent 2-hour window of evaluation, comparing baseline to the final 2 days of the 5-day double-blind treatment phase. No statistically significant differences were observed in the average frequency of spasms using the 2-hour evaluation window. However, a post-hoc alternative efficacy analysis, using a 24-hour clinical evaluation window found a statistically significant difference in the overall percentage of reductions in spasms between the vigabatrin group (68.9%) and the placebo group (17.0%) (p=0.030).

Duration of therapy for infantile spasms was evaluated in a post hoc analysis of a Canadian Pediatric Epilepsy Network (CPEN) study of developmental outcomes in infantile spasms patients. The 38/58 infants in the study who had responded to vigabatrin therapy (complete cessation of spasms and hypsarrhythmia) continued vigabatrin therapy for a total duration of 6 months therapy. The 38 infants who responded were then followed for an additional 18 months after discontinuation of vigabatrin to determine their clinical outcome. A post hoc analysis indicated no observed recurrence of infantile spasms in any of these 38 infants.

16 HOW SUPPLIED/STORAGE AND HANDLING
16.1 How Supplied
VIGADRONE® powder for oral solution, 500 mg packets contain a white to off-white granular powder. They are supplied in cartons of 50 packets (NDC 0245-0556-50).
The oral syringes are provided separately by the pharmacy.

16.2 Storage and Handling
Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION
Advise patients and caregivers to read the FDA-approved patient labeling (Medication Guide and Instructions for Use).

Administration Instructions for VIGADRONE Powder for Oral Solution
Physicians should confirm that caregiver(s) understand how to mix VIGADRONE for Oral Solution and to administer the correct dose to their infants and pediatric patients [see Dosage and Administration (2.5)].

Permanent Vision Loss
Inform patients and caregivers of the risk of permanent vision loss, particularly loss of peripheral vision, from VIGADRONE, and the need for monitoring vision [see Warnings and Precautions (5.1)].

Monitoring of vision, including assessment of visual fields and visual acuity, is recommended at baseline (no later than 4 weeks after starting VIGADRONE), at least every 3 months while on therapy, and about 3 to 6 months after discontinuation of therapy. In patients for whom vision testing is not possible, treatment without recommended testing according to clinical judgment with appropriate patient or caregiver counseling. Patients or caregivers should be informed that if baseline or subsequent vision is not normal, VIGADRONE should only be used if the benefits of VIGADRONE treatment clearly outweigh the risks of additional vision loss.

Advise patients and caregivers that vision testing may be insensitive and may not detect vision loss before it is severe. Also advise patients and caregivers that if vision loss is documented, such loss is irreversible. Ensure that both of these points are understood by patients and caregivers.

Patients and caregivers should be informed that if changes in vision are suspected, they should notify their physician immediately.

Vigabatrin REMS Program

VIGADRONE is available only through a restricted program called the Vigabatrin REMS Program [see Warnings and Precautions (5.2)]. Inform patients/caregivers of the following:

- Patients/caregivers must be enrolled in the program.
- VIGADRONE is only available through pharmacies that are enrolled in the Vigabatrin REMS Program.

MRI Abnormalities in Infants
Inform caregiver(s) of the possibility that infants may develop an abnormal MRI signal of unknown clinical significance [see Warnings and Precautions (5.3)].

Suicidal Thinking and Behavior
Counsel patients, their caregiver(s), and families that AEs, including VIGADRONE, may increase the risk of suicidal thoughts and behavior. Also advise patients and caregivers of the need to be alert for the emergence or worsening of symptoms of depression, any unusual changes in mood or behavior, or the emergence of suicidal thoughts, behavior, or thoughts of self-harm. Behaviors of concern should be reported immediately to healthcare providers [see Warnings and Precautions (5.5)].

Pregnancy
Advise pregnant women and women of child-bearing potential that the use of VIGADRONE during pregnancy can cause fetal harm which may occur early in pregnancy before many women know they are pregnant. Instruct patients to notify their physician if they become pregnant or intend to become pregnant during therapy. Advise patients that there is a pregnancy exposure registry that collects information about the safety of antiepileptic drugs during pregnancy [see Use in Specific Populations (8.1)].

Nursing
Counsel patients that VIGADRONE is excreted in breast milk. Because of the potential for serious adverse reactions in nursing infants from VIGADRONE, breastfeeding is not recommended. If a decision is made to breastfeed, nursing mothers should be counseled to observe their infants for signs of vision loss, sedation and poor sucking [see Use in Specific Populations (8.2)].

Withdrawal of VIGADRONE Therapy
Instruct patients and caregivers not to suddenly discontinue VIGADRONE therapy without consulting with their healthcare provider. As with all AEs, withdrawal should normally be gradual [see Warnings and Precautions (5.6)].

Manufactured for
UPSHER-SMITH LABORATORIES, LLC
Maple Grove, MN 55369
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MEDICATION GUIDE VIGADRONE® (vi-ga-drōne) (vigabatrin) Powder for oral solution	
What is the most important information I should know about VIGADRONE? VIGADRONE can cause serious side effects, including:	
<ul style="list-style-type: none"> Permanent vision loss Magnetic resonance imaging (MRI) changes in babies with infantile spasms (IS) Risk of suicidal thoughts or actions 	
1. Permanent vision loss: VIGADRONE can damage the vision of anyone who takes it. Some people can have severe loss particularly to their ability to see to the side when they look straight ahead (peripheral vision). With severe vision loss, you may only be able to see things straight in front of you (sometimes called “tunnel vision”). You may also have blurry vision. If this happens, it will not get better.	
<ul style="list-style-type: none"> Vision loss and use of VIGADRONE in adults and children 2 years and older: Because of the risk of vision loss, VIGADRONE is used to treat complex partial seizures (CPS) only in people who do not respond well enough to several other medicines. 	
Tell your healthcare provider right away if you (or your child):	
<ul style="list-style-type: none"> might not be seeing as well as before starting VIGADRONE start to trip, bump into things, or are more clumsy than usual are surprised by people or things coming in front of you that seem to come out of nowhere These changes can mean that you (or your child) have damage to your vision. It is recommended that your healthcare provider test your (or your child’s) vision (including peripheral vision) and visual acuity (ability to read an eye chart) before you (or your child) start VIGADRONE or within 4 weeks after starting VIGADRONE, and at least every 3 months after that until VIGADRONE is stopped. It is also recommended that you (or your child) have a vision test about 3 to 6 months after VIGADRONE is stopped. Your vision loss may get worse after you stop taking VIGADRONE. Some people are not able to complete testing of vision. Your healthcare provider will determine if you (or your child) can be tested. If you (or your child) cannot complete vision testing, your healthcare provider may continue prescribing VIGADRONE, but your healthcare provider will not be able to watch for any vision loss you (or your child) may get. 	

- Even if your vision (or your child’s vision) seems fine, it is important that you (or your child) get these regular vision tests because vision damage can happen before you (or your child) notice any changes.
- These vision tests cannot prevent the vision damage that can happen with VIGADRONE, but they do allow the healthcare provider to decide if you (or your child) should stop VIGADRONE if your vision has gotten worse.
- Vision testing may not detect vision loss before it is severe.
- If you do not have these vision tests regularly, your healthcare provider may stop prescribing VIGADRONE.
- If you drive and your vision is damaged by VIGADRONE, driving might be more dangerous, or you may not be able to drive safely at all. Talk about this with your healthcare provider.
- Vision loss in babies:** Because of the risk of vision loss, VIGADRONE is used in babies 1 month to 2 years of age with infantile spasms (IS) only when you and your healthcare provider decide that the possible benefits of VIGADRONE are more important than the risks.
- Parents or caregivers are not likely to recognize the symptoms of vision loss in babies until it is severe. Healthcare providers may not find vision loss in babies until it is severe.
- It is difficult to test vision in babies, but, to the extent possible, all babies should have their vision tested before starting VIGADRONE or within 4 weeks after starting VIGADRONE, and every 3 months after that until VIGADRONE is stopped. Your baby should also have a vision test about 3 to 6 months after VIGADRONE is stopped.
- Your baby may not be able to be tested. Your healthcare provider will determine if your baby can be tested. If your baby cannot be tested, your healthcare provider may continue prescribing VIGADRONE, but your healthcare provider will not be able to watch for any vision loss.

Tell your healthcare provider right away if you think that your baby is:

- not seeing as well as before taking VIGADRONE
- acting differently than normal
- Even if your baby’s vision seems fine, it is important to get regular vision tests because damage can happen before your baby acts differently. Even these regular vision exams may not show the damage to your baby’s vision before it is severe and permanent.

All people who take VIGADRONE:
<ul style="list-style-type: none"> You are at risk for permanent vision loss with any amount of VIGADRONE. Your risk of vision loss may be higher the more VIGADRONE you take daily and the longer you take it. It is not possible for your healthcare provider to know when vision loss will happen. It could happen soon after starting VIGADRONE or any time during treatment. It may even happen after treatment has stopped.

- Because VIGADRONE might cause permanent vision loss, it is available to healthcare providers and patients only under a special program called the Vigabatrin Risk Evaluation and Mitigation Strategy (REMS) Program. VIGADRONE can only be prescribed to people who are enrolled in this program. As part of the Vigabatrin REMS Program, it is recommended that your healthcare provider test your (or your child’s) vision from time to time (periodically) while you (or your child) are being treated with VIGADRONE, and even after you (or your child) stop treatment. Your healthcare provider will explain the details of the Vigabatrin REMS Program to you. For more information, go to www.vigabatrinREMS.com or call 1-866-244-8175.
- 2. Magnetic resonance imaging (MRI) changes in babies with infantile spasms:**
Brain pictures taken by magnetic resonance imaging (MRI) show changes in some babies after they are given VIGADRONE. It is not known if these changes are harmful.
- 3. Risk of suicidal thoughts or actions:**
Like other antiepileptic drugs, VIGADRONE may cause suicidal thoughts or actions in a very small number of people, about 1 in 500 people taking it. Call a healthcare provider right away if you or your child have any of these symptoms, especially if they are new, worse, or worry you:
 - thoughts about suicide or dying
 - attempts to commit suicide
 - new or worse depression
 - new or worse anxiety
 - feeling agitated or restless
 - panic attacks
 - trouble sleeping (insomnia)
 - new or worse irritability
 - acting aggressive, being angry, or violent
 - acting on dangerous impulses
 - an extreme increase in activity and talking (mania)
 - other unusual changes in behavior or mood

Suicidal thoughts or actions can be caused by things other than medicines. If you or your child have suicidal thoughts or actions, your healthcare provider may check for other causes.

- How can I watch for early symptoms of suicidal thoughts and actions?**
- Pay attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings.
 - Keep all follow-up visits with your healthcare provider as scheduled.

- Call your healthcare provider between visits as needed, especially if you are worried about symptoms.
- Do not stop VIGADRONE without first talking to a healthcare provider.**
- Stopping VIGADRONE suddenly can cause serious problems. Stopping a seizure medicine suddenly can cause seizures that will not stop (status epilepticus) in people who are being treated for seizures.

What is VIGADRONE?
VIGADRONE is a prescription medicine used along with other treatments to treat adults and children 2 years and older with complex partial seizures (CPS) if:

- the CPS do not respond well enough to several other treatments, and
- you and your healthcare provider decide the possible benefit of taking VIGADRONE is more important than the risk of vision loss.

VIGADRONE should not be the first medicine used to treat CPS.
VIGADRONE is also used to treat babies 1 month to 2 years of age who have infantile spasms (IS) if you and your healthcare provider decide the possible benefits of taking VIGADRONE are more important than the possible risk of vision loss.

What should I tell my healthcare provider before starting VIGADRONE?

If you or your child has CPS, before taking VIGADRONE tell your healthcare provider about all of your medical conditions, including if you or your child:

- have or had an allergic reaction to VIGADRONE, such as hives, itching, or trouble breathing
- have or had any vision problems
- have or had any kidney problems
- have or had low red blood cell counts (anemia)
- have or had any nervous or mental illnesses, such as depression, mood problems, thoughts of suicide, or attempts at suicide
- are breastfeeding or planning to breastfeed. VIGADRONE can pass into breast milk and may harm your baby. Talk to your healthcare provider about the best way to feed your baby if you take VIGADRONE.
- are pregnant or plan to become pregnant. VIGADRONE can cause harm to your unborn baby. You and your healthcare provider will have to decide if you should take VIGADRONE while you are pregnant.

Pregnancy Registry:
If you become pregnant while taking VIGADRONE, talk to your healthcare provider about registering with the North American Antiepileptic Drug Pregnancy Registry. You can enroll in this registry by calling 1-888-233-2334. Information on the registry can also be found at the website <http://www.aedpregnancy.org/>. The purpose of this registry is to collect information about the safety of antiepileptic medicine during pregnancy.

If you are a parent or caregiver whose baby has IS, before giving VIGADRONE to your baby, tell your healthcare provider about all of your baby’s medical conditions, including if your baby has or ever had:

- an allergic reaction to VIGADRONE, such as hives, itching, or trouble breathing
- any vision problems
- any kidney problems

Tell your healthcare provider about all the medicines you or your child take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. VIGADRONE and other medicines may affect each other causing side effects.

How should I take VIGADRONE?

- You or your child will receive VIGADRONE from a specialty pharmacy.
- Take VIGADRONE exactly as your healthcare provider tells you to. VIGADRONE is usually taken 2 times each day.
- VIGADRONE may be taken with or without food.
- Before starting to take VIGADRONE, talk to your healthcare provider about what you or your child should do if a VIGADRONE dose is missed.
- If you or your child are taking VIGADRONE for CPS and the seizures do not improve enough within 3 months, your healthcare provider will stop prescribing VIGADRONE.
- If your child is taking VIGADRONE for IS and the seizures do not improve within 2 to 4 weeks, your healthcare provider will stop prescribing VIGADRONE.
- Do not stop taking VIGADRONE suddenly.** This can cause serious problems. Stopping VIGADRONE or any seizure medicine suddenly can cause seizures that will not stop (status epilepticus) in people who are being treated for seizures. You should follow your healthcare provider’s instructions on how to stop taking VIGADRONE.
- Tell your healthcare provider right away about any increase in seizures when VIGADRONE treatment is being stopped.** Before your child starts taking VIGADRONE, speak to your child’s healthcare provider about what to do if your baby misses a dose, vomits, spits up, or only takes part of the dose of VIGADRONE.
- Do not stop taking VIGADRONE without talking to your healthcare provider.** If VIGADRONE improves your (or your child’s) seizures, you and your healthcare provider should talk about whether the benefit of taking VIGADRONE is more important than the risk of vision loss and decide if you (or your child) will continue to take VIGADRONE.
- If you are giving VIGADRONE powder for oral solution to your child, it can be given at the same time as their meal. **VIGADRONE for oral solution powder should be mixed with water only.**
- See “Instructions for Use” for detailed information about how to mix and give VIGADRONE powder for oral solution to your child the right way.**

What should I avoid while taking VIGADRONE?
VIGADRONE causes sleepiness and tiredness. Adults taking VIGADRONE should not drive, operate machinery, or perform any hazardous task, unless you and your healthcare provider have decided that you can do these things safely.

What are the possible side effects of VIGADRONE? VIGADRONE can cause serious side effects, including:

- See “What is the most important information I should know about VIGADRONE?”**
- sleepiness and tiredness.** See “What should I avoid while taking VIGADRONE?”
- VIGADRONE may cause your baby to be sleepy.** Sleepy babies may have a harder time suckling and feeding or may be irritable.
- weight gain that happens without swelling**

The following serious side effects happen in **adults**. It is not known if these side effects also happen in babies who take VIGADRONE.

- low red blood cell counts (anemia)**
- nerve problems.** Symptoms of a nerve problem can include numbness and tingling in your toes or feet. It is not known if nerve problems will go away after you stop taking VIGADRONE.
- swelling**

If you or your child has CPS, VIGADRONE may make certain types of seizures worse. Tell your healthcare provider right away if you (or your child’s) seizures get worse.

The most common side effects of VIGADRONE in **adults** include blurred vision, sleepiness, dizziness, problems walking or feeling uncoordinated, shaking (tremor) and tiredness.

The most common side effect of VIGADRONE in **children 3 to 16 years of age** is weight gain. Also expect side effects like those seen in adults.

If you are giving VIGADRONE to your baby for IS:
VIGADRONE may make certain types of seizures worse. You should tell your baby’s healthcare provider right away if your baby’s seizures get worse. Tell your baby’s healthcare provider if you see any changes in your baby’s behavior.

The most common side effects of VIGADRONE in **babies** include:

- sleepiness – VIGADRONE may cause your baby to be sleepy. Sleepy babies may have a harder time suckling and feeding or may be irritable.
- swelling in the bronchial tubes (bronchitis)
- ear infection
- irritability

Tell your healthcare provider if you or your child have any side effect that bothers you or that does not go away. These are not all the possible side effects of VIGADRONE.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store VIGADRONE?

- Store VIGADRONE packets at room temperature between 20° to 25°C (68° to 77°F).

Keep VIGADRONE and all medicines out of the reach of children.

General information about the safe and effective use of VIGADRONE.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. You can ask your pharmacist or healthcare provider for information about VIGADRONE that is written for health professionals. Do not use VIGADRONE for a condition for which it was not prescribed. Do not give VIGADRONE to other people, even if they have the same symptoms that you have. It may harm them.

What are the ingredients in VIGADRONE?
Active Ingredient: vigabatrin

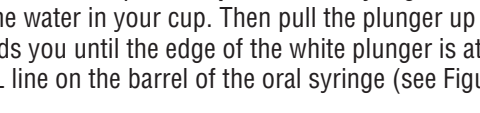
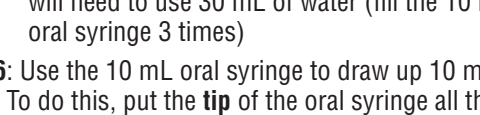
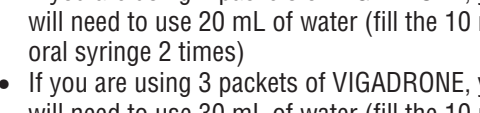
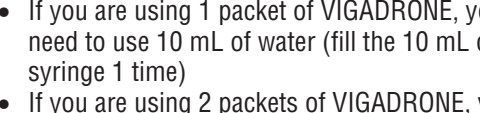
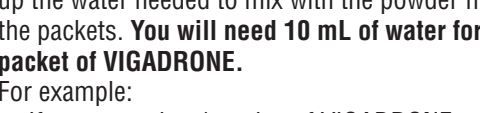
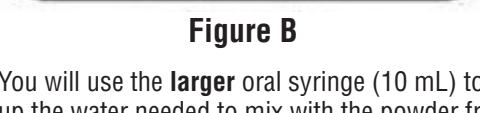
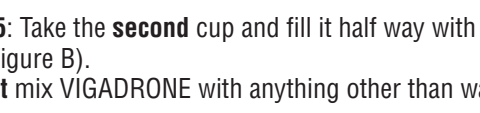
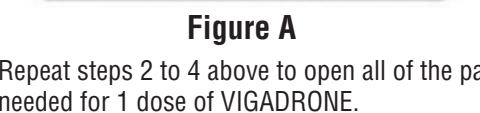
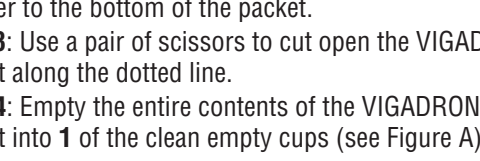
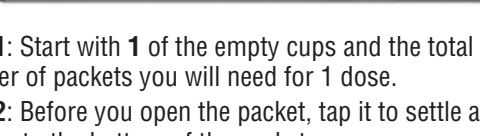
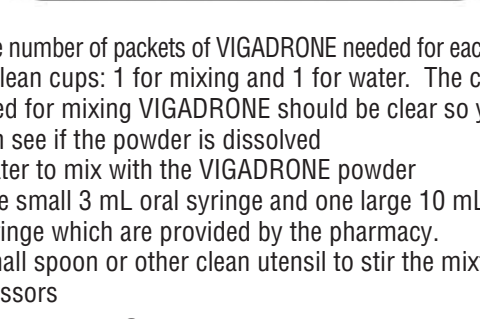
For Medication Guides, please visit www.upsher-smith.com or call 1-888-650-3789.

Manufactured for
UPSHER-SMITH LABORATORIES, LLC
Maple Grove, MN 55369
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Made in Germany

This Medication Guide has been approved by the U.S. Food and Drug Administration.
IN0556AU Revised 0220

INSTRUCTIONS FOR USE VIGADRONE® (vi-ga-drōne) (vigabatrin) Powder for oral solution	
Read this Instructions for Use before your child starts taking VIGADRONE and each time you get a refill. There may be new information. This information does not take the place of talking with your healthcare provider about your child’s medical condition or treatment. Talk to your healthcare provider if you have any questions about the right dose of medicine to give your child or how to mix it.	
Important Note:	
<ul style="list-style-type: none"> VIGADRONE comes in a packet Each packet contains 500 mg of VIGADRONE powder VIGADRONE powder must be mixed with water only. The water may be cold or at room temperature. Your healthcare provider will tell you: <ul style="list-style-type: none"> how many packets of VIGADRONE you will need for each dose how many milliliters (mL) of water to use to mix one dose of VIGADRONE how many milliliters (mL) of the powder and water mixture you will need for each dose of medicine VIGADRONE should be given right away after it is mixed Use the oral syringes, provided by the pharmacy, to measure and give the correct dose. Do not use a household teaspoon or tablespoon. 	

Supplies you will need to mix 1 dose of VIGADRONE:



- If you see bubbles of air in the oral syringe after drawing up the water, turn the oral syringe so the tip is pointing up (see Figure D). The air will move to the top of the oral syringe. Pull the plunger back towards you and then push it back gently into the oral syringe to get rid of the bubbles. Tiny bubbles are normal.

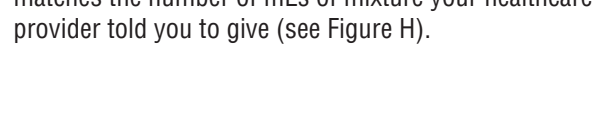
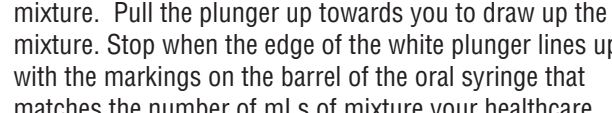
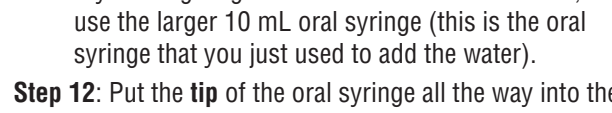
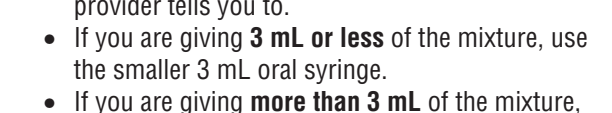
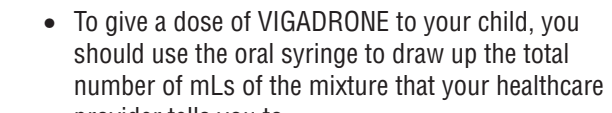
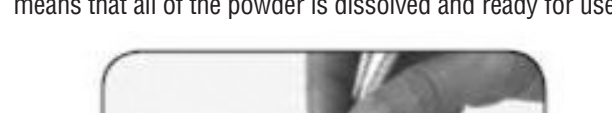
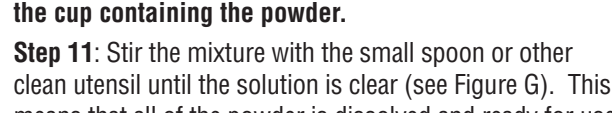
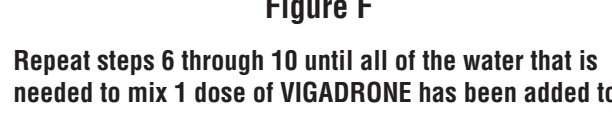
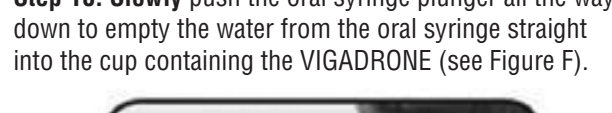
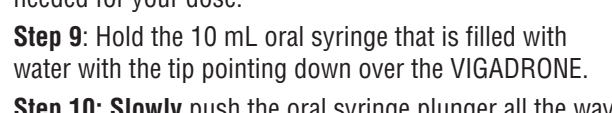
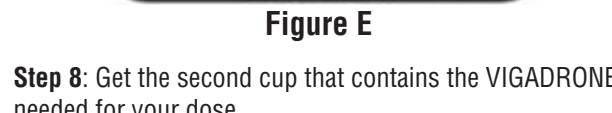
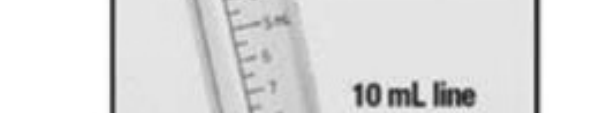
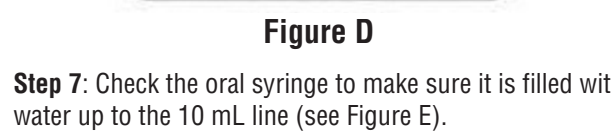


Figure H

- If you see bubbles of air in the oral syringe after drawing up the mixture, turn the oral syringe so the tip is pointing up (see Figure I). The air will move to the top of the oral syringe. Pull the plunger back towards you and then gently push it back in the oral syringe in order to get rid of the bubbles. Tiny bubbles are normal.



Figure I

Step 7: Check the oral syringe to make sure it is filled with water up to the 10 mL line (see Figure E).

Step 8: Get the second cup that contains the VIGADRONE needed for your dose.

Step 9: Hold the 10 mL oral syringe that is filled with water with the tip pointing down over the VIGADRONE.

Step 10: Slowly push the oral syringe plunger all the way down to empty the water from the oral syringe straight into the cup containing the VIGADRONE (see Figure F).



Figure J

- If the dose you are giving your child is more than 10 mLs, repeat steps 12 and 13 until you give the total dose of mixture prescribed by your healthcare provider.

Step 14: Throw away any mixture that is left over. **Do not** save or reuse any leftover mixture.

Step 15: Wash the oral syringes and mixing cups in