

1.2 Infantile Spasms (IS)
VIGADROME is indicated as monotherapy for pediatric patients with infantile spasms 1 month to 2 years of age for whom the potential benefits outweigh the potential risk of vision loss. *See Warnings and Precautions (5.1).*

2. DOSAGE AND ADMINISTRATION

2.1 Important Dosing and Administration Instructions

Dosing
Use the lowest dosage and shortest exposure to VIGADROME consistent with clinical objectives. *See Warnings and Precautions (5.1).*

The VIGADROME dosing regimen depends on the indication, age group, weight, and dosage form (tablets or powder for oral solution). *See Dosage and Administration (2.2, 2.3).* Patients with impaired renal function require dose adjustment. *See Dosage and Administration (2.4).*

Vigabatrin tablets and powder for oral solution are bioequivalent. Either tablet or powder can be used for CPS. Powder for oral solution should be used for IS; tablets should not be used for IS because of difficulty in the administration of tablets to infants and young children.

Monitoring of VIGADROME plasma concentrations to optimize therapy is not helpful.

Administration
VIGADROME is given orally with or without food.

VIGADROME powder for oral solution should be mixed with water prior to administration. *See Dosage and Administration (2.5).*

If a decision is made to discontinue VIGADROME, the dose should be gradually reduced. *See Dosage and Administration (2.2, 2.3) and Warnings and Precautions (5.6).*

2.2 Refractory Complex Partial Seizures

Adults (Patients 12 Years of Age and Older)
Treatment should be initiated 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 VIGADROME in adults is 3000 mg/day (1500 mg twice daily). A 6000 mg/day dose has not been shown to confer additional benefit compared to 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 to 1000 mg/day on a weekly basis until discontinued. *See Warnings and Precautions (5.6).*

Pediatric (Patients 10 to 16 Years of Age)
Treatment is based on body weight as shown in Table 1. Treatment should be initiated at a total daily dose of 500 mg/day (250 mg twice daily) and may be increased weekly in 500 mg/day increments to a total maintenance dose of 2000 mg/day (1000 mg twice daily). Patients weighing more than 60 kg should be dosed according to adult recommendations.

	Table 1. Pediatric CPS Dosing Recommendations		
	Body Weight (kg)	Total Daily* Starting Dose (mg/day)	Total Daily* Maintenance Dose [†] (mg/day)
	25 to 60 ^{††}	500	2000
	* 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, VIGADROME 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 Warnings and Precautions (5.7.1).*

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 (5.6).*

1.3 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 to 25 mg/kg/day to 50 mg/kg/day increments every 3 days, up to a maximum of 150 mg/kg/day in two divided doses (75 mg/kg twice daily). *See Use in Specific Populations (8.4).* Table 2 provides the volume of the 50 mg/mL dosing solution that should be administered as individual doses in infants of various weights.

	Table 2. Infant Dosing Table			
	Weight (kg)	Starting Dose 50 mg/kg/day	Maximum Dose 150 mg/kg/day	Volume (mL)
	25 to 60 ^{††}	500	2000	
	* 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.			
	3	1.5 mL twice daily	4.5 mL twice daily	
	4	2 mL twice daily	6 mL twice daily	
	5	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	

In patients with infantile spasms, VIGADROME should be withdrawn if a substantial clinical benefit is not observed within 2 to 4 weeks. If, in the clinical judgment of the prescriber, evidence of treatment failure becomes obvious earlier than 2 to 4 weeks, treatment should be discontinued at that time. *See Warnings and Precautions (5.7.1).*

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 (5.6).*

2.4 Patients with Renal Impairment
VIGADROME is primarily eliminated through the kidney.

Infants
Information about how to adjust the dose of infants with renal impairment is unavailable.

Adults and pediatric patients 10 years and older
• Mild renal impairment (CL_{CR} 30 to 50 mL/min): dose should be decreased by 25%
• Moderate renal impairment (CL_{CR} 30 to 50 mL/min): dose should be decreased by 50%
• Severe renal impairment (CL_{CR} 10 to 30 mL/min): dose should be decreased by 75%.
CL_{CR} in mL/min may be estimated from serum creatinine (mg/dL) using the following formulas:

• Patients 10 to 12 years old: CL_{CR} (mL/min/1.73 m²) = (K × H) / Scr
height (H) in cm; serum creatinine (Scr) in mg/dL
K (proportionally constant): Female Child (<12 years): K=0.55; Male Child (<12 years): K=0.70

• Adult and pediatric patients 12 years or older: CL_{CR} (mL/min) = [(140-age (years)) × weight (kg)] / (72 × serum creatinine (mg/dL)) [±0.85 for female patients]

The effect of dialysis on VIGADROME clearance has not been adequately studied. *See Clinical Pharmacology (12.3) and Use in Specific Populations (8.6).*

2.5 Preparation and Administration Instructions for VIGADROME Powder for Oral Solution
When using VIGADROME powder for oral solution, physicians should review and discuss the Medication Guide and instructions for mixing and giving VIGADROME with the patient or caregiver(s). Physicians should confirm that patients or caregiver(s) understand how to mix VIGADROME powder with water and administer the correct daily dose.

Emply the entire contents of each 50 mL packet into a clean cup, and dissolve in 10 mL of cold or room temperature water per packet. Administer the resulting solution using the 10 mL oral syringe supplied with the medication. The concentration of the final solution is 50 mg/mL.

Table 3 below describes how many packets and how many milliliters (mL) of water will be needed to prepare each individual dose. The concentration after reconstitution is 50 mg/mL.

	Table 3. Volume of VIGADROME Packages and mL of Water Needed for Each Individual Dose		
	Individual Dose (mg) (Given Twice Daily)	Total Number of VIGADROME Packages	Total mL of Water Required for Dissolving
	0 to 500	1 Packet	10 mL
	501 to 1,000	2 Packages	20 mL
	1,001 to 1,500	3 Packages	30 mL

Discard the resulting solution if it is not clear (or free of particles) and colorless. Each individual dose should be prepared and used immediately. Discard any unused portion of the solution after administering the correct dose.

3. DOSAGE FORMS AND STRENGTHS
500 mg packets and a white to off-white granular powder.

4. CONTRAINDICATIONS

None.

5. WARNINGS AND PRECAUTIONS

5.1 Permanent Vision Loss
VIGADROME can cause permanent visual field constriction. Because of this risk and because, when it is effective, VIGADROME provides an observable symptomatic benefit, patient response and continued need for treatment should be periodically assessed.

Based upon adult studies, 30 percent or more of patients can be affected with bilateral concentric visual field constriction ranging in severity from mild to severe. Severe cases may be characterized by tunnel vision with loss to 10 degrees of visual fixation, which can result in disability. In some cases, VIGADROME also can damage the central retina and may decrease visual acuity. Symptoms of vision loss from VIGADROME are unlikely to be recognized by patients or caregivers unless vision loss is severe. Vision loss of mild severity, while often unrecognized by the patient or caregiver, can still adversely affect function.

Because assessing vision may be difficult in infants and children, the frequency and extent of vision loss is poorly characterized in these patients. For this reason, the understanding of the risk is primarily based on the adult experience. The possibility of irreversible vision loss from VIGADROME is a common concern, more severe, or have more severe functional consequences in infants and children than in adults cannot be excluded.

The onset of vision loss from VIGADROME is unpredictable, and can occur with weeks of starting treatment or sooner, or at any time after starting treatment, even after months or years.

Patients with refractory complex partial seizures, VIGADROME 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) and Warnings and Precautions (5.7.1).*

In patients with infantile spasms, VIGADROME should be withdrawn if a substantial clinical benefit is not observed within 2 to 4 weeks. If, in the clinical judgment of the prescriber, evidence of treatment failure becomes obvious earlier than 2 to 4 weeks, treatment should be discontinued at that time. *See Dosage and Administration (2.2) and Warnings and Precautions (5.6).*

5.2 Warnings and Precautions
VIGADROME should not be used in patients with, or at high risk of, other types of irreversible vision loss unless the benefits of treatment clearly outweigh the risks.

VIGADROME should not be used with other drugs associated with serious adverse ophthalmic effects such as retinopathy or glaucoma unless the benefits clearly outweigh the risks.

Use the lowest dosage and shortest exposure to VIGADROME consistent with clinical objectives. *See Dosage and Administration (2.1).*

Because of the risk of permanent vision loss, VIGADROME is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called the Vigabatrin REMS Program. *See Warnings and Precautions (5.2).* Further information is available at www.vigabatrinREMS.com or call 1-866-244-8175.

1. INDICATIONS AND USAGE

1.1 Refractory Complex Partial Seizures (CPS)
VIGADROME is indicated as adjunctive therapy for adults and pediatric patients 10 years of age and older with refractory complex partial seizures who have inadequately responded to several alternative treatments and for whom the potential benefits outweigh the potential risks of vision loss. *See Warnings and Precautions (5.1).* VIGADROME is not indicated as a first line agent for complex partial seizures.

VIGADROME should not be used with other drugs associated with serious adverse ophthalmic effects such as retinopathy or glaucoma unless the benefits clearly outweigh the risks.

Monitoring of Vision

Monitoring of vision by an ophthalmic professional with expertise in visual field interpretation and the ability to perform dilated ophthalmology of the retina is recommended. *See Warnings and Precautions (5.1).* Visual field testing is difficult, visual loss may not be detected until it is severe. For patients receiving VIGADROME, vision assessment is recommended at baseline (no later than 4 weeks after starting VIGADROME), at least every 3 months while on therapy, and about 3 to 6 months after the discontinuation of therapy. The diagnostic approach should be individualized for the patient and clinical situation.

In adults and cooperative pediatric patients, perimetry is recommended, preferably by automated threshold visual field testing. Additional testing may also include electrophysiology (e.g., electroretinography (ERG)), retinal imaging (e.g., optical coherence tomography (OCT)), and/or other methods appropriate for the patient. In patients who cannot be tested, treatment may continue according to clinical judgment, with appropriate patient counseling. Because of variability, results from ophthalmic monitoring must be interpreted with caution, and repeat assessment is recommended if difficulty in the administration of tablets to infants and young children. The first few weeks of treatment is recommended to establish it, and to what degree, reproducible results can be obtained, and to guide selection of appropriate ongoing monitoring for the patient.

The onset and progression of vision loss from VIGADROME is unpredictable, and it may occur or worsen unexpectedly between assessments. Once detected, vision loss due to VIGADROME is not reversible. It is expected that even with frequent monitoring, some VIGADROME patients will develop severe vision loss. Consider drug discontinuation, balancing benefit and risk, if vision loss is documented. It is possible that vision loss can worsen despite discontinuation of VIGADROME.

5.2 Vigabatrin REMS Program

VIGADROME is available only through a restricted distribution program called the Vigabatrin REMS Program, because of the risk of permanent vision loss.

Notable requirements of the Vigabatrin REMS program include the following:

• Prescribers must be certified by enrolling in the program, agreeing to consult patients on the risk of vision loss and the need for periodic monitoring of vision, and reporting any event suggestive of vision loss to www.vigabatrinREMS.com

• Patients must enroll in the program.

• Pharmacists must be certified and must only dispense to patients authorized to receive VIGADROME.

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 scan changes characterized by increased T2 signal and restricted diffusion in a symmetric pattern involving the thalamus, basal ganglia, brain stem, and cerebellum have been observed in some infants treated with vigabatrin for infantile spasms. In a retrospective epidemiologic study of hospitalized infants with MRI scans, the prevalence of these changes was 22% in vigabatrin treated patients versus 4% in patients treated with other therapies.

In the study above, in post marketing experience, and in published literature reports, these changes generally resolved with discontinuation of treatment. In a low-patients, the lesion resolved despite continued treatment. However, it is not clear whether these MRI abnormalities, but not causal relationships 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 exposed to vigabatrin during late gestation and early juvenile periods, and developmental 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 findings in infants treated with vigabatrin for infantile spasms is unknown. *See Warnings and Precautions (5.4) and Use in Specific Populations (8.1).*

The specific pattern of signal changes observed in IS patients was not observed in older pediatric and adult patients treated with vigabatrin for refractory CPS. In a blinded review of MRI images obtained in prospective clinical trials in patients with refractory CPS 3 years and older (N=656), no difference was observed in the anatomic distribution or prevalence of MRI signal changes between vigabatrin treated and placebo treated patients.

For adults treated with VIGADROME, routine MRI surveillance is unnecessary as there is no evidence that vigabatrin causes MRI changes in this population.

5.4 Neurotoxicity

Vaculation, characterized by fluid accumulation and separation of the outer layers of myelin, has been observed in brain white matter tracts in adult and juvenile rats, and dogs, and possibly monkeys following administration of vigabatrin. This lesion, referred to as intramyelinic edema (IME), was seen in 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 reversible following discontinuation of vigabatrin treatment, but, in the rat, pathologic changes consisting of swollen or degenerating axons, demyelination, and gliosis were seen in brain areas in which vacuolation had been previously observed. Vacuolation in adult animals was correlated with alterations in MRI and changes in visual evoked potentials (VEPs).

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) which are considered distinct from the IME observed in vigabatrin-treated adult animals. Disrupted myelin and advanced oligodendrocyte injury were additional findings in the brains of vigabatrin-treated rats. An increase in oligodendrocyte cell death was observed in the brains of vigabatrin-treated rats.

Neurotoxicity was observed in adult rats during pregnancy and lactation at doses below those used clinically resulting in hippocampal vacuolation and convulsions in the adult offspring.

In a published study, vigabatrin (200, 400 mg/kg/day) induced oligodendrocyte neurodegeneration in the brain of young rats when administered by intraperitoneal injection on postnatal days 5 to 7.

Administration of vigabatrin in female rats during pregnancy and lactation at doses below those used clinically resulted in hippocampal vacuolation and convulsions in the adult offspring.

Abnormal MRI signal changes characterized by increased T2 signal and restricted diffusion in a symmetric pattern involving the thalamus, basal ganglia, brain stem, and cerebellum have been observed in some infants treated with vigabatrin for infantile spasms. Studies of the effects of vigabatrin on MRI and EP in adult epilepsy patients have demonstrated no clear-cut abnormalities. *See Warnings and Precautions (5.3).*

5.5 Societal Behavior and Ideation

Antiepileptic drugs (AEDs), including VIGADROME, 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 the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior.

Pooled analyses of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 11 different AEDs showed that patients randomized to the AEDs had approximately twice the risk of suicidal thoughts or behavior compared to placebo. In these trials, which had a median duration of 12 weeks, the estimated incidence of suicidal thoughts or behavior in patients receiving AEDs was 0.43%, compared to 0.24% among placebo-treated patients, representing an increase of approximately one case of suicidal thinking or behavior for every 530 patients treated. There were four suicides in drug treated patients in the trials and none in placebo treated patients, but the number is too small to allow any conclusion about drug effect on suicidal behavior.

The increased risk of suicidal thoughts or behavior with AEDs was observed as early as one week after starting drug treatment with AEDs and persisted for the duration of treatment assessed. Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior beyond 24 weeks could not be assessed.

The risk of suicidal thoughts or behavior was generally consistent across trials in the data analyzed. The finding of increased risk with AEDs of varying mechanisms of action and across a range of indications suggests that the risk applies to all AEDs used for any indication. The risk did not vary substantially by age (18 to 100 years) in the clinical trials analyzed. Table 4 shows absolute and relative risk by indication for all evaluated AEDs.

Indication	Placebo Patients per 1,000 Patients	Drug Patients with Events per 1,000 Patients	Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients	
			Events per 1,000 Patients	Risk Difference: Additional Drug Patients with Events per 1,000 Patients
Epilepsy	1.0	3.4	3.5	2.4
Psychiatric	5.7	8.5	1.5	2.9
Other	1.0	1.8	1.9	0.9
Total	2.4	4.3	1.8	1.9

The relative risk for suicidal thoughts or behavior was higher in clinical trials for epilepsy than in clinical trials for psychiatric or other conditions, but the absolute risk differences were similar for the epilepsy and psychiatric indications.

Anyone considering prescribing VIGADROME or any other AED must balance the risk of suicidal thoughts or behavior with the risk of untreated illness. Epilepsy and many other illnesses for which AEDs are prescribed are themselves associated with morbidity and mortality and an increased risk of suicidal thoughts and behavior. Should suicidal thoughts and behavior emerge during treatment, the prescriber needs to consider whether the emergence of these symptoms in any given patient may be related to the illness being treated.

Patients, their caregivers, and families should be informed that AEDs increase the risk of suicidal thoughts and behavior and should be advised of the need to alert for the emergence or worsening of signs and symptoms of depression, any changes in behavior, or thoughts of suicide or death, or emergence of suicidal thoughts or behavior, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare providers.

5.6 Withdrawal of Antiepileptic Drugs (AEDs)
As with AEDs, VIGADROME should be withdrawn gradually. However, if withdrawal is needed because of a serious adverse event, discontinuation can be considered. Patients and caregivers should be told not to suddenly discontinue VIGADROME therapy.

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 3 weeks 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 26 to 50 mg/kg every 3 to 4 days.

5.7 Anemia
In North American controlled trials in adults, 6% of patients (16/280) receiving vigabatrin and 2% of patients (31/188) receiving placebo had adverse events of anemia and/or criteria for potentially clinically important hematologic changes involving hemoglobin, hematocrit, and/or RBC indices. Across U.S. controlled trials, there were mean decreases in hemoglobin of about 3% and in hematocrit and placebo treated patients, respectively, and a mean decrease in hematocrit of about 1% in vigabatrin treated patients compared to a mean gain of about 1% in patients treated with placebo.

In controlled and open label epilepsy trials in adults and pediatric patients, 3 viginabatrin patients (0.06%), 3/4 (85%) discontinued for anemia and 2/4 (50%) discontinued for anemia and/or anemia related abnormalities below 9 g/dL and/or hematocrit below 24%.

5.8 Somnolence and Fatigue
VIGADROME causes somnolence and fatigue. Patients should be advised not to drive a car or operate other complex machinery until they are familiar with the effects of VIGADROME on their ability to perform such activities.

Pooled data from two vigabatrin controlled trials in adults demonstrated that 24% (54/222) of vigabatrin patients experienced somnolence compared to 10% (14/135) of placebo patients. In those same studies, 26% of vigabatrin patients experienced fatigue compared to 15% (20/135) of placebo patients. In other studies, the prevalence of somnolence and fatigue was 22% in vigabatrin treated patients versus 4% in placebo treated patients.

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Pooled data from three vigabatrin controlled trials in pediatric patients demonstrated that 6% (10/165) of vigabatrin patients experienced somnolence compared to 5% (5/104) of placebo patients. In those same studies, 10% (17/165) of vigabatrin patients experienced fatigue compared to 7% (7/104) of placebo patients. No vigabatrin patients discontinued from clinical trials due to somnolence or fatigue.

5.9 Peripheral Neuropathy

Vigabatrin causes symptoms of peripheral neuropathy in adults. Pediatric clinical trials were not designed to assess symptoms of peripheral neuropathy, but observed incidence of symptoms based on pooled data from controlled pediatric studies appeared similar for pediatric patients on vigabatrin and placebo. In a pool of North American controlled and uncontrolled epilepsy studies, 4.2% (19/457) of vigabatrin patients discontinued due to symptoms of peripheral neuropathy. In a subset of North American placebo-controlled epilepsy trials, 1.4% (4/280) of vigabatrin treated patients and no (0/188) placebo patients developed signs and/or symptoms of peripheral neuropathy. Initial symptoms of peripheral neuropathy were numbness in these trials included, in some combination, symptoms of numbness or tingling in the toes or feet, signs of reduced distal lower limb vibration or position sensation, or progressive loss of reflexes, starting at the ankles. Clinical studies in the development program were not designed to investigate peripheral neuropathy systematically and did not include nerve conduction studies, quantitative sensory testing, or skin or nerve biopsy. There is insufficient evidence to determine if development of these signs and symptoms was related to duration of vigabatrin treatment, cumulative dose, or if the findings of peripheral neuropathy were completely reversible upon discontinuation of vigabatrin.

5.10 Weight Gain

VIGADROME causes weight gain in adult and pediatric patients.

Data pooled from randomized controlled trials in adults found that 17% (77/443) of vigabatrin patients were obese (≥27.2%) of placebo patients gained >7% of baseline body weight. In these same trials, the mean weight change upon vigabatrin patients was 3.5 kg compared to 1.6 kg for placebo patients.

Data pooled from randomized controlled trials in pediatric patients with refractory complex partial seizures found that 47% (777/165) of vigabatrin patients versus 19% (191/92) of placebo patients gained >7% of baseline body weight.

In all epilepsy trials, 0.6% (314/855) of vigabatrin patients discontinued for weight gain. The long term effects of vigabatrin related weight gain are not known. Weight gain was not related to the occurrence of edema. *See Warnings and Precautions (5.4).*

5.11 Edema

VIGADROME causes edema in adults. Pediatric clinical trials were not designed to assess edema, but observed incidence of edema based pooled data from controlled pediatric studies appeared similar for patients on vigabatrin and placebo.

Pooled data from controlled trials demonstrated increased risk among vigabatrin patients compared to placebo patients for peripheral edema (vigabatrin 2%, placebo 0%) and edema (vigabatrin 1%, placebo 0%). In these studies, one vigabatrin and one placebo patient discontinued for an edema related AEs. In adults, there was no apparent association between edema and cardiovascular adverse events such as hypertension or congestive heart failure. Edema was not associated with laboratory changes suggestive of dehydration in renal or hepatic function.

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)*

• Societal 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)*

• Edema. *See Warnings and Precautions (5.11)*

6.1 Clinical Trial Experience
Blinded clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug

Pediatric patients 10 to 16 years of age
Vigabatrin was studied in three double-blind, placebo-controlled, parallel-group studies in 269 patients who received vigabatrin and 104 patients who received placebo. No individual study was considered adequately powered to determine efficacy in pediatric patients age 10 years and above. The data from all three pediatric studies were pooled and used in a pharmacometric bridging analysis using weight-normalized doses to establish efficacy and determine appropriate dosing. All three studies were randomized, double-blind, placebo-controlled, parallel-group, adjunctive-treatment studies in patients aged 7 to 16 years with uncontrolled complex partial seizures with or without secondary generalization. The study period included a 6 to 10 week baseline phase and a 14 to 17 week treatment phase (composed of a titration and maintenance period).

The pharmacometric bridging approach consisted of defining a weight-normalized dose-response, and showing that a similar dose-response relationship exists between pediatric patients and adult patients when vigabatrin was given as adjunctive therapy for complex partial seizures. Dosing recommendations in pediatric patients 10 to 16 years of age were derived from simulations utilizing these pharmacometric dose-response analyses [see *Dosage and Administration* (2.2)].

14.2 Infantile Spasms
The effectiveness of vigabatrin as monotherapy was established for infantile spasms in two multicenter controlled studies. Both studies were similar in terms of disease characteristics and prior treatments of patients and all enrolled infants had a confirmed diagnosis of infantile spasms.

Study 1
Study 1 (N=221) was a multicenter, randomized, low-dose high-dose, parallel-group, partially-blind (caregivers knew the actual dose but not whether their child was classified as low or high dose, EEG reader was blinded but investigators were not blinded) study to evaluate the safety and efficacy of vigabatrin in patients <2 years of age with new-onset infantile spasms. Patients with both symptomatic and cryptogenic etiologies were studied. The study was composed of two phases. The first phase was a 14 to 21 day partially-blind phase in which patients were randomized to receive either low-dose (18 to 36 mg/kg/day) or high-dose (100 to 148 mg/kg/day) vigabatrin. Study drug was titrated over 7 days, followed by a constant dose for 7 days. If the patient became spasm-free on or before day 14, another 7 days of constant dose was administered. The primary efficacy endpoint of this study was the proportion of patients who were spasm-free for 7 consecutive days beginning within the first 14 days of vigabatrin therapy. Patients considered spasm-free were defined as those patients who remained free of spasms (evaluated according to caregiver response to direct questioning regarding spasm frequency) and who had no indication of spasms or hypersyrrhythmia during 8 hours of CCTV EEG recording (including at least one sleep-wake-sleep cycle) performed within 3 days of the seventh day of spasm freedom and interpreted by a blinded EEG reader. Seventeen patients in the high-dose group achieved spasm freedom compared with 8 patients in the low dose group. This difference was statistically significant (p=0.0375). Primary efficacy results are shown in Table 10.

Table 10. Spasm Freedom by Primary Criteria (Study 1)		
Vigabatrin Treatment Group		
	18 to 36 mg/kg/day [N=114] n (%)	100 to 148 mg/kg/day [N=107] n (%)
Patients who Achieved Spasm Freedom	8 (7.0)	17 (15.9)
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.		

Study 2 (N=41) 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 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 (88.9%) 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 38/68 infants in the study who had responded to vigabatrin therapy (complete cessation of spasms and hypersyrrhythmia) 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™ 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).

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 caregivers understand how to mix VIGADRONE for Oral Solution and that they understand the correct dose to their infants. [see *Dosage and Administration* (2.2)].

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 every 3 to 6 months after discontinuation of therapy. In patients for whom vision testing is not possible, treatment may continue 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.

New Abnormalities in Infants

Inform caregivers 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 caregivers, and families that AEDs, 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)].

Use in Pregnancy

Instruct patients to notify their physician if they become pregnant or intend to become pregnant during therapy, and to notify their physician if they are breast feeding or intend to breast feed during therapy [see *Use in Specific Populations* (8.1, 8.3)].

Encourage patients to enroll in the NAEAD Pregnancy Registry if they become pregnant. This registry is collecting information about the safety of antiepileptic drugs during pregnancy. To enroll, patients can call the toll free number 1-888-233-2334. Information on the registry can also be found at the website <http://www.aedpregnancyregistry.org/> [see *Use in Specific Populations* (8.1)].

Withdrawal of VIGADRONE Therapy
Instruct patients and caregivers not to suddenly discontinue VIGADRONE therapy without consulting with their healthcare provider. As with all AEDs, 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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Made in Germany

PN0040 Revised 1018

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:

- 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. People who take VIGADRONE do not lose all of their vision, but 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.

- Vision loss and use of VIGADRONE in adults and children 10 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):

- 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.

- 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 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 vision has gotten worse, which usually will lessen further damage.

- 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 serious and permanent.

All people who take VIGADRONE:

- 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.

- 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 10 years and older with complex partial seizures (CPS) if:

- The CPS does 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 if you or your child have or had:

- depression, mood problems or suicidal thoughts or behavior
- an allergic reaction to VIGADRONE, such as hives, itching, or trouble breathing
- any vision problems
- low red blood cell counts (anemia)
- any nervous or mental illnesses, such as depression, thoughts of suicide, or attempts at suicide
- any other medical conditions
- 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. It is not known if VIGADRONE will harm 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. 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 baby 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 your (or your child’s) seizures get worse.

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

- problems walking or feeling uncoordinated
- feeling dizzy
- shaking (tremor)
- joint pain
- memory problems and not thinking clearly
- eye problems: blurry vision, double vision and eye movements that you cannot control

The most common side effects of VIGADRONE in **children 10 to 16 years of age** include:

- weight gain
- upper respiratory tract infection
- tiredness
- aggression
- 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 powder in the container they come in.

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

VIGADRONE is a trademark of Upsher-Smith Laboratories, LLC
Made in Germany

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

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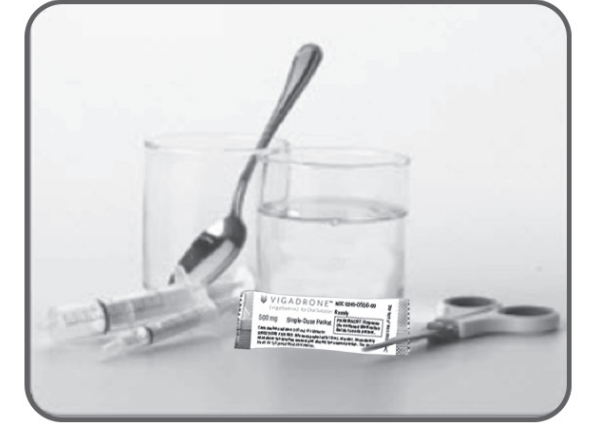
INSTRUCTIONS FOR USE VIGADRONE™ (vi-ga-drōne) (vigabatrin) Powder for oral solution

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:

- 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:
 - 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

Supplies you will need to mix 1 dose of VIGADRONE:



Step 5: Take the **second** cup and fill it half way with water (see Figure B).

Do not mix VIGADRONE with anything other than water.

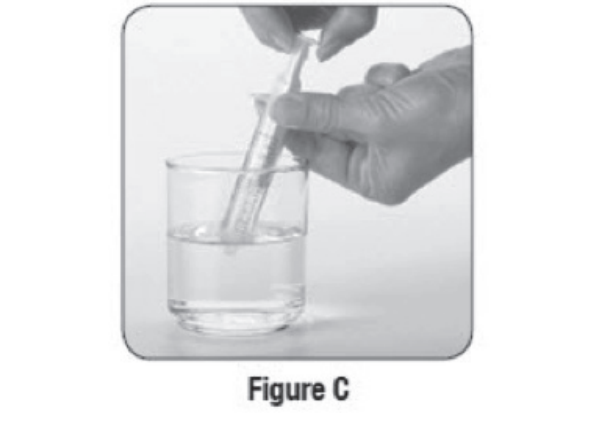


- You will use the **larger** oral syringe (10 mL) to draw up the water needed to mix with the powder from the packets. **You will need 10 mL of water for each packet of VIGADRONE.**

For example:

- If you are using 1 packet of VIGADRONE, you will need to use 10 mL of water (fill the 10 mL oral syringe 1 time)
- If you are using 2 packets of VIGADRONE, you will need to use 20 mL of water (fill the 10 mL oral syringe 2 times)
- If you are using 3 packets of VIGADRONE, you will need to use 30 mL of water (fill the 10 mL oral syringe 3 times)

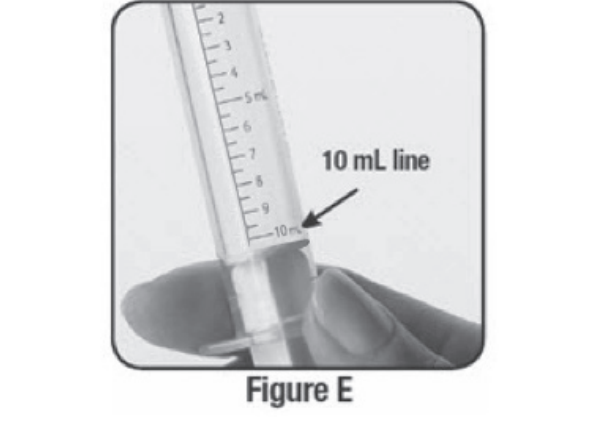
Step 6: Use the 10 mL oral syringe to draw up 10 mL of water. To do this, put the **tip** of the oral syringe all the way into the water in your cup. Then pull the plunger up towards you until the white plunger is at the 10 mL line on the barrel of the oral syringe (see Figure C).



- 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.



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.