HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ONFI safely and effectively. See full prescribing information for ONFI.

ONFI® (clobazam) tablets, for oral use, CIV ONFI® (clobazam) oral suspension, CIV Initial U.S. Approval: 2011

----RECENT MAJOR CHANGES-----

Dosage and Administration:

Important Administration Instructions (2.3) 12/2012

----INDICATIONS AND USAGE----

ONFI is a benzodiazepine indicated for adjunctive treatment of seizures associated with Lennox-Gastaut syndrome (LGS) in patients 2 years of age or older (1)

----DOSAGE AND ADMINISTRATION------

- Patients ≤ 30 kg body weight: Initiate at 5 mg daily and titrate as tolerated up to 20 mg daily (2.1)
- Patients > 30 kg body weight: Initiate at 10 mg daily and titrate as tolerated up to 40 mg daily (2.1)
- For doses above 5 mg/day administer in two divided doses (2.1)
- o Dosage adjustment needed in following groups: Geriatric patients (2.4, 8.5)
- Known CYP2C19 poor metabolizers (2.5)
- o Mild or moderate hepatic impairment; no information for severe hepatic impairment (2.7, 8.8)
- Reduce dose, or discontinue drug gradually (2.2)
- Tablets: Administer whole, broken in half along the score, or crush and mix in applesauce. (2.3)
- Measure prescribed amount of oral suspension using provided adapter and dosing syringe (2.3)
- Tablets and Oral suspension: Can be taken with or without food. (2.3)

----DOSAGE FORMS AND STRENGTHS-----

• Tablet: 10 mg and 20 mg with a functional score (3)

Oral Suspension: 2.5 mg/mL in 120 mL bottles (3)

-----CONTRAINDICATIONS-----None (4)

------WARNINGS AND PRECAUTIONS------

- Somnolence or Sedation: Monitor for central nervous system (CNS) depression. Risk may be increased with concomitant use of other CNS depressants. (5.1, 5.2)
- Withdrawal: Symptoms may occur with rapid dose reduction or discontinuation. Discontinue ONFI gradually. (5.3)
- Physical and Psychological Dependence: Monitor patients with a history of substance abuse for signs of habituation and dependence
- · Suicidal Behavior and Ideation: Monitor for suicidal thoughts or behaviors (5.5)

-----ADVERSE REACTIONS-----

Adverse reactions that occurred at least 10% more frequently than placebo in any ONFI dose included constipation, somnolence or sedation, pyrexia, lethargy, and drooling (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Lundbeck at 1-800-455-1141 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----DRUG INTERACTIONS-----

- Drugs metabolized by CYP2D6: Lower doses of these drugs may be required when used concomitantly with ONFI (7.1)
- Strong or Moderate CYP2C19 Inhibitors: Dosage adjustment of ONFI may be necessary (7.2)
- Alcohol: Increases blood levels of clobazam by about 50% (7.3)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 12/2012

1	INDICATIONS AND USAGE		
2	DOSA	GE AND ADMINISTRATION	
	2.1	Dosing Information	
	2.2	Gradual Withdrawal	
	23	Important Administration Instructions	

FULL PRESCRIBING INFORMATION: CONTENTS*

- 2.4 Dosage Adjustments in Geriatric Patients
- 2.5 Dosage Adjustments in CYP2C19 Poor
- Metabolizers
- 2.6 Patients with Renal Impairment 2.7 Dosage Adjustments in Patients with Hepatic
 - Impairment
- 3 **DOSAGE FORMS AND STRENGTHS CONTRAINDICATIONS** 4
 - WARNINGS AND PRECAUTIONS
 - 5.1 Somnolence or Sedation 5.2 Potentiation of Sedation from Concomitant Use with Central Nervous System Depressants
 - 5.3 Withdrawal Symptoms Physical and Psychological 5.4
 - Dependence Suicidal Behavior and Ideation 5.5
 - **ADVERSE REACTIONS**
 - 6 1 Clinical Trials Experience
 - 6.2 Post Marketing Experience
 - **DRUG INTERACTIONS**
 - Effect of ONFI on Other Drugs 7.1 7.2 Effect of Other Drugs on ONFI
- **CNS Depressants and Alcohol** 7.3
- * Sections or subsections omitted from the full prescribing information are not listed

USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

8

12

13

16

17

- 8.3 **Nursing Mothers**
- 8.4 Pediatric Use
- 8.5 Geriatric Use
- 8.6 CYP2C19 Poor Metabolizers
- Renal Impairment 87
- 8.8 Hepatic Impairment
- **DRUG ABUSE AND DEPENDENCE**
 - Controlled Substance 9.1
 - 92 Abuse
 - 9.3 Dependence
- 10 **OVERDOSAGE**
 - - 10.1 Signs and Symptoms of Overdosage
 - Management of Overdosage 102
- **DESCRIPTION** 11

CLINICAL PHARMACOLOGY

- Mechanism of Action 12.1 12.2 **Pharmacodynamics**
- Pharmacokinetics 12.3
- 12.5 **Pharmacogenomics** NONCLINICAL TOXICOLOGY
- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
- **CLINICAL STUDIES** 14
 - **HOW SUPPLIED/STORAGE AND HANDLING**
 - PATIENT COUNSELING INFORMATION

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

ONFI® (clobazam) is indicated for the adjunctive treatment of seizures associated with Lennox-Gastaut syndrome (LGS) in patients 2 years of age or older.

2 DOSAGE AND ADMINISTRATION

2.1 Dosing Information

A daily dose of ONFI greater than 5 mg should be administered in divided doses twice daily; a 5 mg daily dose can be administered as a single dose. Dose patients according to body weight. Individualize dosing within each body weight group, based on clinical efficacy and tolerability. Each dose in Table 1 (e.g. 5 to 20 mg in ≤ 30 kg weight group) has been shown to be effective, although effectiveness increases with increasing dose [see Clinical Studies (14)]. Do not proceed with dose escalation more rapidly than weekly, because serum concentrations of clobazam and its active metabolite require 5 and 9 days, respectively, to reach steady-state.

Table 1. Recommended Total Daily Dosing by Weight Group

	≤30 kg Body Weight	>30 kg Body Weight
Starting Dose	5 mg	10 mg
Starting Day 7	10 mg	20 mg
Starting Day 14	20 mg	40 mg

2.2 Gradual Withdrawal

As with all antiepileptic drugs and benzodiazepines, withdraw ONFI gradually. Taper by decreasing the total daily dose by 5-10 mg/day on a weekly basis until discontinued [see Warnings and Precautions (5.3)].

2.3 Important Administration Instructions

Instruct patients to read the "Instructions for Use" carefully for complete directions on how to properly dose and administer ONFI oral suspension.

ONFI Tablet Oral Administration

- ONFI tablets can be taken with or without food.
- ONFI tablets can be administered whole, broken in half along the score, or crushed and mixed in applesauce.

ONFI Oral Suspension Oral Administration

ONFI oral suspension can be taken with or without food [see Clinical Pharmacology (12.3)].

Shake ONFI Oral Suspension well before every administration. When administering the oral suspension, use only the oral dosing syringe provided with the product. Each carton includes two syringes, but only one syringe should be used for dosing. The second oral syringe is reserved as a replacement in case the first syringe is damaged or lost. Insert the provided adapter firmly into the neck of the bottle before first use and keep the adapter in place for the duration of the usage of the bottle. To withdraw the dose, insert the dosing syringe into the adapter and invert the bottle then slowly pull back the plunger to prescribed dose. After removing the syringe from the bottle adapter, slowly squirt ONFI Oral Suspension into the corner of the patient's mouth. Replace the cap after each use. The cap fits over the adapter when the adapter is properly placed. See ONFI Oral Suspension "Instructions for Use" for complete instruction on how to properly dose and administer the ONFI Oral Suspension.

2.4 Dosage Adjustments in Geriatric Patients

Plasma concentrations at any given dose are generally higher in the elderly: proceed slowly with dose escalation. The starting dose should be 5 mg/day for all elderly patients. Then titrate elderly patients according to weight, but to half the dose presented in Table 1, as tolerated. If necessary and based upon clinical response, an additional titration to the maximum dose (20 mg/day or 40 mg/day, depending on weight) may be started on day 21 [see Use in Specific Populations (8.5)].

2.5 Dosage Adjustments in CYP2C19 Poor Metabolizers

In CYP2C19 poor metabolizers, levels of N-desmethylclobazam, clobazam's active metabolite, will be increased. Therefore, in patients known to be CYP2C19 poor metabolizers, the starting dose should be 5 mg/day and dose titration should proceed slowly according to weight, but to half the dose presented in Table 1, as tolerated. If necessary and based upon clinical response, an additional titration to the maximum dose (20 mg/day or 40 mg/day, depending on the weight group) may be started on day 21 [see Use in Specific Populations (8.6), Clinical Pharmacology (12.5)].

2.6 Patients with Renal Impairment

No dose adjustment is required for patients with mild and moderate renal impairment. There is no experience with ONFI in patients with severe renal impairment or end stage renal disease (ESRD). It is not known if clobazam or its active metabolite, N-desmethylclobazam, is dialyzable [see Use in Specific Populations (8.7), Clinical Pharmacology (12.3)].

2.7 Dosage Adjustments in Patients with Hepatic Impairment

- 84 ONFI is hepatically metabolized; however, there are limited data to characterize
- 85 the effect of hepatic impairment on the pharmacokinetics of ONFI. For this
- 86 reason, proceed slowly with dosing escalations. For patients with mild to
- 87 moderate hepatic impairment (Child-Pugh score 5-9), the starting dose should be
- 5 mg/day in both weight groups. Then titrate patients according to weight, but to 88
- 89 half the dose presented in Table 1, as tolerated. If necessary and based upon
- 90 clinical response, start an additional titration on day 21 to the maximum dose (20
- 91 mg/day or 40 mg/day, depending on the weight group). There is inadequate
- 92 information about metabolism of ONFI in patients with severe hepatic
- 93 impairment. Therefore no dosing recommendation in those patients can be given
- 94 [see Use in Specific Populations (8.8), Clinical Pharmacology (12.3)].

3 DOSAGE FORMS AND STRENGTHS

- 97 Tablets: 10 mg and 20 mg with a functional score for oral administration.
- 98 Each ONFI tablet is a white to off-white, oval tablet with a functional score on one
- 99 side and either a "1" and "0" or a "2" and "0" debossed on the other side.

100

101 Oral Suspension: 2.5 mg/mL for oral administration. Each bottle contains 120 mL 102 of an off-white suspension.

103 104

4 CONTRAINDICATIONS

105 None.

106 107

108

5 WARNINGS AND PRECAUTIONS

5.1 Somnolence or Sedation

- 109 ONFI causes somnolence and sedation. In clinical trials, somnolence or sedation 110 were reported at all effective doses and were dose-related.

111

- 112 In general, somnolence and sedation begin within the first month of treatment
- 113 and may diminish with continued treatment. Prescribers should monitor patients
- 114 for somnolence and sedation, particularly with concomitant use of other central
- 115 nervous system depressants. Prescribers should caution patients against
- 116 engaging in hazardous activities requiring mental alertness, such as operating
- 117 dangerous machinery or motor vehicles, until the effect of ONFI is known.

118 119

5.2 Potentiation of Sedation from Concomitant Use with Central Nervous

120 System Depressants

- 121 Since ONFI has a central nervous system (CNS) depressant effect, patients or
- their caregivers should be cautioned against simultaneous use with other CNS 122
- 123 depressant drugs or alcohol, and cautioned that the effects of other CNS
- 124 depressant drugs or alcohol may be potentiated.

125 126

5.3 Withdrawal Symptoms

Abrupt discontinuation of ONFI should be avoided. ONFI should be tapered by 127 128 decreasing the dose every week by 5-10 mg/day until discontinuation [see 129 Dosage and Administration (2.2)]. 130 131 Withdrawal symptoms occurred following abrupt discontinuation of ONFI; the risk 132 of withdrawal symptoms is greater with higher doses. 133 134 As with all antiepileptic drugs, ONFI should be withdrawn gradually to minimize 135 the risk of precipitating seizures, seizure exacerbation, or status epilepticus. 136 137 Withdrawal symptoms (e.g., convulsions, psychosis, hallucinations, behavioral 138 disorder, tremor, and anxiety) have been reported following abrupt 139 discontinuance of benzodiazepines. The more severe withdrawal symptoms 140 have usually been limited to patients who received excessive doses over an 141 extended period of time, followed by an abrupt discontinuation. Generally milder 142 withdrawal symptoms (e.g., dysphoria, anxiety, and insomnia) have been reported following abrupt discontinuance of benzodiazepines taken continuously 143 144 at therapeutic doses for several months. 145 146 5.4 Physical and Psychological Dependence 147 Patients with a history of substance abuse should be under careful surveillance 148 when receiving ONFI or other psychotropic agents because of the predisposition 149 of such patients to habituation and dependence [see Drug Abuse and 150 Dependence (9)1. 151 152 5.5 Suicidal Behavior and Ideation 153 Antiepileptic drugs (AEDs), including ONFI, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated 154 with any AED for any indication should be monitored for the emergence or 155 worsening of depression, suicidal thoughts or behavior, and/or any unusual 156 157 changes in mood or behavior.

158

159 Pooled analyses of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 11 different AEDs showed that patients randomized to one of the 160 161 AEDs had approximately twice the risk (adjusted relative risk 1.8, 95%) 162 confidence interval [CI]: 1.2, 2.7) of suicidal thinking or behavior compared to 163 patients randomized to placebo. In these trials, which had a median treatment duration of 12 weeks, the estimated incidence rate of suicidal behavior or 164 165 ideation among 27,863 AED treated patients was 0.43%, compared to 0.24% 166 among 16,029 placebo treated patients, representing an increase of 167 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 168 in placebo treated patients, but the number is too small to allow any conclusion 169 170 about drug effect on suicide.

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 among drugs 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 (5-100 years) in the clinical trials analyzed. Table 2 shows absolute and relative risk by indication for all evaluated AEDs.

Table 2. Risk by Indication for Antiepileptic Drugs in the Pooled Analysis

Indication	Placebo Patients with Events per 1000 Patients	Drug Patients with Events per 1000 Patients	Relative Risk: Incidence of Drug Events in Drug Patients/Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events per 1000 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 ONFI 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 be alert for the emergence or worsening of the signs and symptoms of depression, any unusual changes in mood or behavior, or the emergence of suicidal thoughts, behavior, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare providers.

205	6 ADVERSE REACTIONS			
206	Clinically significant adverse reactions that appear in other sections of the			
207	labeling include the following:			
208				
209	 Somnolence or Sedation [see Warnings and Precautions (5.1)] 			
210 211	 Potentiation of Sedation from Concomitant Use with Central Nervous System Depressants [see Warnings and Precautions (5.2)] 			
212	 Withdrawal Symptoms [see Warnings and Precautions (5.3)] 			
213 214	 Physical and Psychological Dependence [see Warnings and Precautions (5.4)] 			
215	 Suicidal Behavior and Ideation [see Warnings and Precautions (5.5)] 			
216				
217	6.1 Clinical Trials Experience			
218	Because clinical trials are conducted under widely varying conditions, adverse			
219 220	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			
221	observed in practice.			
222	observed in practice.			
223 224 225 226 227 228 229 230	During its development for the adjunctive treatment of seizures associated with LGS, ONFI was administered to 333 healthy volunteers and 300 patients with a current or prior diagnosis of LGS, including 197 patients treated for 12 months or more. The conditions and duration of exposure varied greatly and included single- and multiple-dose clinical pharmacology studies in healthy volunteers and two double-blind studies in patients with LGS (Study 1 and 2) [see Clinical Studies (14)]. Only Study 1 included a placebo group, allowing comparison of adverse reaction rates on ONFI at several doses to placebo.			
231				
232233	Adverse Reactions Leading to Discontinuation in an LGS Placebo Controlled Clinical Trial (Study 1)			
234 235 236 237	The adverse reactions associated with ONFI treatment discontinuation in ≥1% patients in decreasing order of frequency included lethargy, somnolence, ataxia, aggression, fatigue, and insomnia.			
238 239	Most Common Adverse Reactions in an LGS Placebo Controlled Clinical Trial (Study 1)			
240 241 242 243	Table 3 lists the adverse reactions that occurred in ≥5% of ONFI treated patients (at any dose), and at a rate greater than placebo treated patients, in the randomized, double-blind, placebo-controlled, parallel group clinical study of adjunctive AED therapy for 15 weeks (Study 1).			

Table 3. Adverse Reactions Reported for ≥5% of Patients and More Frequently than Placebo in Any Treatment Group

		ONFI Dose Level			
	Placebo N=59 %	Low ^a N=58 %	Medium ^b N=62 %	High ^c N=59 %	All ONFI N=179 %
Gastrointestinal Disorders					
Vomiting	5	9	5	7	7
Constipation	0	2	2	10	5
Dysphagia	0	0	0	5	2
General Disorders and Adm	ninistration	Site Con	ditions		
Pyrexia	3	17	10	12	13
Irritability	5	3	11	5	7
Fatigue	2	5	5	3	5
Infections and Infestations		ı			
Upper respiratory tract infection	10	10	13	14	12
Pneumonia	2	3	3	7	4
Urinary tract infection	0	2	5	5	4
Bronchitis	0	2	0	5	2
Metabolism and Nutrition D	isorders				
Decreased appetite	3	3	0	7	3
Increased appetite	0	2	3	5	3
Nervous System Disorders					
Somnolence or Sedation	15	17	27	32	26
Somnolence	12	16	24	25	22
Sedation	3	2	3	9	5
Lethargy	5	10	5	15	10
Drooling	3	0	13	14	9
Ataxia	3	3	2	10	5
Psychomotor hyperactivity	3	3	3	5	4
Dysarthria	0	2	2	5	3
Psychiatric Disorders	ı				
Aggression	5	3	8	14	8
Insomnia	2	2	5	7	5
Respiratory Disorders	ı				
Cough	0	3	5	7	5

^a Maximum daily dose of 5 mg for ≤30 kg body weight; 10 mg for >30 kg body weight

245

^b Maximum daily dose of 10 mg for ≤30 kg body weight; 20 mg for >30 kg body weight

^c Maximum daily dose of 20 mg for ≤30 kg body weight; 40 mg for >30 kg body weight

249 **6.2 Post Marketing Experience** These reactions are reported voluntarily from 250 a population of uncertain size; therefore, it is not possible to estimate their 251 frequency or establish a causal relationship to drug exposure. Adverse reactions 252 are categorized by system organ class. 253 254 Blood Disorders: Anemia, eosinophilia, leukopenia, thrombocytopenia 255 Eye Disorders: Diplopia, vision blurred 256 Gastrointestinal Disorders: Abdominal distention 257 **Investigations:** Hepatic enzyme increased 258 Musculoskeletal: Muscle spasms 259 **Psychiatric Disorders:** Agitation, anxiety, apathy, confusional state, depression, delirium, delusion, hallucination 260 261 **Respiratory Disorders:** Aspiration, respiratory depression 262 Skin and Subcutaneous Tissue Disorders: Rash, Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), urticaria 263 264 265 7 DRUG INTERACTIONS 266 267 7.1 Effect of ONFI on Other Drugs 268 Hormonal Contraceptives ONFI is a weak CYP3A4 inducer. As some hormonal contraceptives are 269 270 metabolized by CYP3A4, their effectiveness may be diminished when given with 271 ONFI. Additional non-hormonal forms of contraception are recommended when 272 using ONFI /see Clinical Pharmacology (12.3), Patient Counseling Information 273 (17)]. 274 275 Drugs Metabolized by CYP2D6 276 ONFI inhibits CYP2D6. Dose adjustment of drugs metabolized by CYP2D6 may 277 be necessary [see Clinical Pharmacology (12.3)]. 278 279 7.2 Effect of Other Drugs on ONFI Strong and moderate inhibitors of CYP2C19 280 Strong and moderate inhibitors of CYP2C19 may result in increased exposure to 281 N-desmethylclobazam, the active metabolite of clobazam. This may increase the 282 283 risk of dose-related adverse reactions. Dosage adjustment of ONFI may be 284 necessary when co-administered with strong CYP2C19 inhibitors (e.g., 285 fluconazole, fluvoxamine, ticlopidine) or moderate CYP2C19 inhibitors (e.g., 286 omeprazole) [see Clinical Pharmacology (12.3)]. 287 288

7.3 CNS Depressants and Alcohol

Concomitant use of ONFI with other CNS depressants may increase the risk of 289 290 sedation and somnolence [see Warnings and Precautions (5.2)].

291	
292 293 294 295 296 297 298	Alcohol, as a CNS depressant, will interact with ONFI in a similar way and also increases clobazam's maximum plasma exposure by approximately 50%. Therefore, caution patients or their caregivers against simultaneous use with other CNS depressant drugs or alcohol, and cautioned that the effects of other CNS depressant drugs or alcohol may be potentiated [see Warnings and Precautions (5.2)].
299	8 USE IN SPECIFIC POPULATIONS
300	8.1 Pregnancy
301 302 303 304 305 306 307	Pregnancy Registry: To provide information regarding the effects of <i>in utero</i> exposure to ONFI, physicians are advised to recommend that pregnant patients taking ONFI enroll in the North American Antiepileptic Drug (NAAED) Pregnancy Registry. This can be done by calling the toll free number 1-888-233-2334, and must be done by patients themselves or their caregiver. Information on the registry can also be found at the website http://www.aedpregnancyregistry.org/ .
308	Pregnancy Category C.
309	
310 311 312	There are no adequate and well-controlled studies of ONFI in pregnant women and no adequate developmental toxicity studies of clobazam in animals.
313 314 315 316 317	Although limited, the available animal data suggest developmental toxicity, including an increased incidence of fetal abnormalities following oral administration of clobazam to pregnant animals at doses similar to those used clinically.
318 319 320 321 322 323 324	Data for other benzodiazepines suggest the possibility of adverse effects in animals and humans. Long-term effects on neurobehavioral and immunological function have been reported in rodents following prenatal exposure to benzodiazepines. Neonatal flaccidity, respiratory and feeding difficulties, hypothermia, and withdrawal symptoms have been reported in infants born to mothers who received benzodiazepines, including clobazam, late in pregnancy.
325 326 327	Therefore, ONFI should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.
328	8.3 Nursing Mothers
329 330 331	ONFI is excreted in human milk. The effects of this exposure on infants are unknown.
332	8.4 Pediatric Use

The safety and effectiveness in patients less than 2 years of age have not been established.

In a study in which clobazam (4, 36, or 120 mg/kg/day) was orally administered to rats during the juvenile period of development (postnatal days 14 to 48), adverse effects on growth (decreased bone density and bone length) and behavior (altered motor activity and auditory startle response; learning deficit) were observed at the high dose. The effect on bone density, but not on behavior, was reversible when drug was discontinued. The no-effect level for juvenile toxicity (36 mg/kg/day) was associated with plasma exposures (AUC) to clobazam and its major active metabolite, N-desmethylclobazam, less than those expected at therapeutic doses in pediatric patients.

8.5 Geriatric Use

Clinical studies of ONFI did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. However, elderly subjects appear to eliminate clobazam more slowly than younger subjects based on population pharmacokinetic analysis. For these reasons, the initial dose in elderly patients should be 5 mg/day. Patients should be titrated initially to 10-20 mg/day. Patients may be titrated further to a maximum daily dose of 40 mg if tolerated [see Dosage and Administration (2.4), Clinical Pharmacology (12.3)].

8.6 CYP2C19 Poor Metabolizers

Concentrations of clobazam's active metabolite, N-desmethylclobazam, are higher in CYP2C19 poor metabolizers than in extensive metabolizers. For this reason, dosage modification is recommended [see Dosage and Administration (2.5), Clinical Pharmacology (12.3)].

8.7 Renal Impairment

The pharmacokinetics of ONFI were evaluated in patients with mild and moderate renal impairment. There were no significant differences in systemic exposure (AUC and C_{max}) between patients with mild or moderate renal impairment and healthy subjects. No dose adjustment is required for patients with mild and moderate renal impairment. There is essentially no experience with ONFI in patients with severe renal impairment or ESRD. It is not known if clobazam or its active metabolite, N-desmethylclobazam, is dialyzable [see Dosage and Administration (2.6), Clinical Pharmacology (12.3)].

8.8 Hepatic Impairment

ONFI is hepatically metabolized; however, there are limited data to characterize the effect of hepatic impairment on the pharmacokinetics of ONFI. For this reason, dosage adjustment is recommended in patients with mild to moderate hepatic impairment (Child-Pugh score 5-9). There is inadequate information

377378379	about metabolism of ONFI in patients with severe hepatic impairment [see Dosage and Administration (2.7), Clinical Pharmacology (12.3)].
380	9 DRUG ABUSE AND DEPENDENCE
381	9.1 Controlled Substance
382	ONFI contains clobazam which is a Schedule IV controlled substance.
383	
384	9.2 Abuse
385	
386 387 388	ONFI can be abused in a similar manner as other benzodiazepines, such as diazepam.
389 390 391 392 393	The pharmacological profile of ONFI is similar to that of other benzodiazepines listed in Schedule IV of the Controlled Substance Act, particularly in its potentiation of GABAergic transmission through its action on $GABA_A$ receptors, which leads to sedation and somnolence.
394 395	The World Health Organization epidemiology database contains reports of drug abuse, misuse, and overdoses associated with clobazam.
396 397 398	Drug abuse is the intentional non-therapeutic use of a drug, repeatedly or even sporadically, for its rewarding psychological or physiological effects.
399	9.3 Dependence
400	Dependence Dependence
401 402 403 404 405 406	Physical dependence is a state of adaptation that is manifested by a specific withdrawal syndrome that can be produced by abrupt cessation, rapid dose reduction, decreasing blood levels of the drug, and/or administration of an antagonist. In clinical trials, cases of dependency were reported following abrupt discontinuation of ONFI.
407	The risk of dependence is present even with use of ONFI at the recommended
408	dose range over periods of only a few weeks. The risk of dependence
409	increases with increasing dose and duration of treatment. The risk of
410 411	dependence is increased in patients with a history of alcohol or drug abuse.
412	Withdrawal
412	Abrupt discontinuation of ONFI causes withdrawal symptoms. As with other
414	benzodiazepines, ONFI should be withdrawn gradually [see Dosage and
415	Administration (2.2), Warnings and Precautions (5.3)].
416	In ONE divised above seels we trials in headly and a factor of the seed
417 418	In ONFI clinical pharmacology trials in healthy volunteers, the most common withdrawal symptoms after abrupt discontinuation were headache, tremor,
418 419 420	insomnia, anxiety, irritability, drug withdrawal syndrome, palpitations, and diarrhea [see Warnings and Precautions (5.3)].

Other withdrawal reactions to clobazam reported in the literature include restlessness, panic attacks, profuse sweating, difficulty in concentrating, nausea and dry retching, weight loss, blurred vision, photophobia, and muscle pain and stiffness. In general, benzodiazepine withdrawal may cause seizures, psychosis, and hallucinations [see Warnings and Precautions (5.3)].

10 OVERDOSAGE

10.1 Signs and Symptoms of Overdosage

Overdose and intoxication with benzodiazepines, including ONFI, may lead to CNS depression, associated with drowsiness, confusion and lethargy, possibly progressing to ataxia, respiratory depression, hypotension, and, rarely, coma or death. The risk of a fatal outcome is increased in cases of combined poisoning with other CNS depressants, including alcohol.

10.2 Management of Overdosage

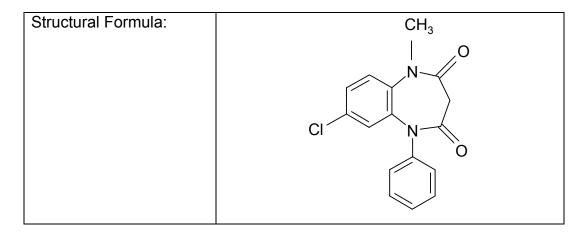
The management of ONFI overdose may include gastric lavage and/or administration of activated charcoal, intravenous fluid replenishment, early control of airway and general supportive measures, in addition to monitoring level of consciousness and vital signs. Hypotension can be treated by replenishment with plasma substitutes and, if necessary, with sympathomimetic agents.

The efficacy of supplementary administration of physostigmine (a cholinergic agent) or of flumazenil (a benzodiazepine antagonist) in ONFI overdose has not been assessed. The administration of flumazenil in cases of benzodiazepine overdose can lead to withdrawal and adverse reactions. Its use in patients with epilepsy is typically not recommended.

11 DESCRIPTION

Table 4. Description

•	
Proprietary Name:	ONFI®
Established Name:	Clobazam
Dosage Forms:	Tablet and Oral Suspension
Route of Administration:	Oral
Established Pharmacologic Class of Drug:	Benzodiazepine
Chemical Name:	7-Chloro-1-methyl-5-phenyl-1H-1,5 benzodiazepine-2,4(3 <i>H</i> ,5 <i>H</i>)-dione



Clobazam is a white or almost white, crystalline powder with a slightly bitter taste; is slightly soluble in water, sparingly soluble in ethanol, and freely soluble in methylene chloride. The melting range of clobazam is from 182-185 $^{\circ}$ C. The molecular formula is $C_{16}H_{13}O_2N_2Cl$ and the molecular weight is 300.7.

Each ONFI tablet contains 10 mg or 20 mg of clobazam. Tablets also contain as inactive ingredients: corn starch, lactose monohydrate, magnesium stearate, silicon dioxide, and talc.

 ONFI is also available for oral administration as an off-white suspension containing clobazam at a concentration of 2.5 mg/mL. Inactive ingredients include magnesium aluminum silicate, xanthan gum, citric acid monohydrate, disodium hydrogen phosphate dihydrate, simethicone emulsion, polysorbate 80, methylparaben, propylparaben, propylene glycol, sucralose, maltitol solution, berry flavor, purified water.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The exact mechanism of action for clobazam, a 1,5-benzodiazepine, is not fully understood but is thought to involve potentiation of GABAergic neurotransmission resulting from binding at the benzodiazepine site of the GABA_A receptor.

12.2 Pharmacodynamics

477 Effects on Electrocardiogram

The effect of ONFI 20 mg and 80 mg administered twice daily on QTc interval was evaluated in a randomized, evaluator blinded, placebo-, and active-controlled (moxifloxacin 400 mg) parallel thorough QT study in 280 healthy subjects. In a study with demonstrated ability to detect small effects, the upper bound of the one-sided 95% confidence interval for the largest placebo adjusted, baseline-corrected QTc based on Fridericia correction method was below 10 ms, the threshold for regulatory concern. Thus, at a dose two times the maximum

485 recommended dose, ONFI did not prolong the QTc interval to any clinically 486 relevant extent.

487 488

489

490

491

492

493

494

12.3 Pharmacokinetics

The peak plasma levels (C_{max}) and the area under the curve (AUC) of clobazam are dose-proportional over the dose range of 10-80 mg following single- or multiple-dose administration of ONFI. Based on a population pharmacokinetic analysis, the pharmacokinetics of clobazam are linear from 5-160 mg/day. Clobazam is converted to N-desmethylclobazam which has about 1/5 the activity of clobazam. The estimated mean elimination half-lives (t_{1/2}) of clobazam and Ndesmethylclobazam were 36-42 hours and 71-82 hours, respectively.

495 496 497

498

501

502

503

504

505

506

507

Absorption

Clobazam is rapidly and extensively absorbed following oral administration. The 499 time to peak concentrations (T_{max}) of clobazam tablets under fasted conditions ranged from 0.5 to 4 hours after single- or multiple-dose administrations. The 500 relative bioavailability of clobazam tablets compared to an oral solution is approximately 100%. After single dose administration of the oral suspension under fasted conditions, the T_{max} ranged from 0.5 to 2 hours. Based on exposure (C_{max} and AUC) of clobazam, ONFI tablets and suspension were shown to have similar bioavailability under fasted condition. The administration of ONFI tablets with food or when crushed in applesauce does not affect absorption. Although not studied, the oral bioavailability of the oral suspension is unlikely to be affected under fed conditions.

508 509 510

Distribution

511 Clobazam is lipophilic and distributes rapidly throughout the body. The apparent 512 volume of distribution at steady state was approximately 100 L. The in vitro 513 plasma protein binding of clobazam and N-desmethylclobazam is approximately 514 80-90% and 70%, respectively.

515 516

Metabolism and Excretion

- 517 Clobazam is extensively metabolized in the liver, with approximately 2% of the 518 dose recovered in urine and 1% in feces as unchanged drug. The major 519 metabolic pathway of clobazam involves N-demethylation, primarily by CYP3A4 520 and to a lesser extent by CYP2C19 and CYP2B6. N-desmethylclobazam, an 521 active metabolite, is the major circulating metabolite in humans, and at 522 therapeutic doses, plasma concentrations are 3-5 times higher than those of the 523 parent compound. Based on animal and in vitro receptor binding data, estimates
- 524 of the relative potency of N-desmethylclobazam compared to parent compound
- 525 range from 1/5 to equal potency. N-desmethylclobazam is extensively
- 526 metabolized, mainly by CYP2C19. N-desmethylclobazam and its metabolites
- 527 comprise ~94% of the total drug-related components in urine. Following a single

528 529	oral dose of radiolabeled drug, approximately 11% of the dose was excreted in the feces and approximately 82% was excreted in the urine.
530	
531 532 533 534 535	The polymorphic CYP2C19 is the major contributor to the metabolism of the pharmacologically active N-desmethylclobazam [see Clinical Pharmacology (12.5)]. In CYP2C19 poor metabolizers, levels of N-desmethylclobazam were 5-fold higher in plasma and 2- to 3-fold higher in the urine than in CYP2C19 extensive metabolizers.
536	
537	Pharmacokinetics in Specific Populations
538	Age
539 540 541 542	Population pharmacokinetic analyses showed that the clearance of clobazam is lower in elderly subjects compared to other age groups (ages 2 to 64). Dosing should be adjusted in the elderly [see Dosage and Administration (2.4)].
543	Sex
544 545	Population pharmacokinetic analyses showed no difference in the clearance of clobazam between women and men.
546	
547	Race
548 549 550	Population pharmacokinetic analyses including Caucasian (75%), African American (15%), and Asian (9%) subjects showed that there is no evidence of clinically significant effect of race on the clearance of clobazam.
551	
552	Renal Impairment
553 554 555 556 557 558 559 560 561	The effect of renal impairment on the pharmacokinetics of clobazam was evaluated in patients with mild (creatinine clearance [CL _{CR}] > 50 to 80 mL/min; N=6) and moderate (CL _{CR} =30 to 50 mL/min; N=6) renal dysfunction, with matching healthy controls (N=6), following administration of multiple doses of ONFI 20 mg/day. There were insignificant changes in C_{max} (3-24%) and AUC (≤13%) for clobazam or N-desmethylclobazam in patients with mild or moderate renal impairment compared to patients with normal renal function. Patients with severe renal impairment or ESRD were not included in this study.
562	Hepatic Impairment
563 564 565 566 567 568 569 570	There are limited data to characterize the effect of hepatic impairment on the pharmacokinetics of clobazam. In a small study, the pharmacokinetics of a 20 mg single oral dose of ONFI in 9 patients with liver impairment were compared to healthy controls (N=6). The C_{max} and the mean plasma clearance of clobazam, as well as the C_{max} of N-desmethylclobazam, showed no significant change compared to the healthy controls. The AUC values of N-desmethylclobazam in these patients were not available. Adjust dosage in patients with hepatic impairment [see Dosage and Administration (2.7)].

571	
572	<u>Drug Interaction Studies</u>
573	
574	In vitro studies:
575	Clobazam did not inhibit CYP1A2, CYP2C8, CYP2C9, CYP2C19, CYP2D6,
576	CYP3A4, UGT1A1, UGT1A4, UGT1A6, or UGT2B4 in vitro. N-
577	desmethylclobazam showed weak inhibition of CYP2C9, UGT1A4, UGT1A6 and
578	UGT2B4.
579	
580	Clobazam and N-desmethylclobazam did not significantly increase CYP1A2 or
581 582	CYP2C19 activities, but did induce CYP3A4 activity in a concentration- dependent manner. Clobazam and N-desmethylclobazam also increased
583	UGT1A1 mRNA but at concentrations much higher than therapeutic levels. The
584	potential for clobazam or N-desmethylclobazam to induce CYP2B6 and CYP2C8
585	has not been evaluated.
586	
587	Clobazam and N-desmethylclobazam do not inhibit P-glycoprotein (P-gp), but are
588	P-gp substrates.
589	
590	<u>In vivo studies</u> :
591	
592	Potential for ONFI to Affect Other Drugs
593	The effect of repeated 40 mg once-daily doses of ONFI on the pharmacokinetic
594	profiles of single-dose dextromethorphan (CYP2D6 substrate), midazolam
595 596	(CYP3A4 substrate), caffeine (CYP1A2 substrate), and tolbutamide (CYP2C9 substrate), was studied when these probe substrates were given as a drug
597	cocktail (N=18).
598	
599	Clobazam increased AUC and C_{max} of dextromethorphan by 90% and 59%,
600	respectively, reflecting its inhibition of CYP2D6 <i>in vivo</i> . Drugs metabolized
601	by CYP2D6 may require dose adjustment when used with ONFI.
602	
603	Clobazam decreased the AUC and C_{max} of midazolam by 27% and 24%,
604	respectively, and increased the AUC and C _{max} of the metabolite 1-
605	hydroxymidazolam by 4-fold and 2-fold, respectively. This level of induction does
606 607	not call for dosage adjustment of drugs that are primarily metabolized by CYP3A4 when used concomitantly with ONFI. Some hormonal contraceptives
608	are metabolized by CYP3A4 and their effectiveness may be diminished when
609	given with ONFI [see Drug Interactions (7.1)]. Repeated ONFI doses had no
610	effect on caffeine and tolbutamide.
611	

612 A population pharmacokinetic analysis indicated clobazam did not affect the 613 exposure of valproic acid (a CYP2C9/2C19 substrate) or lamotrigine (a UGT 614 substrate). 615 616 Potential for Other Drugs to Affect ONFI 617 Co-administration of ketoconazole (a strong CYP3A4 inhibitor) 400 mg once-618 daily for 5 days increased clobazam AUC by 54%, with an insignificant effect on 619 clobazam C_{max}. There was no significant change in AUC and C_{max} of N-620 desmethylclobazam (N=18). 621 622 Strong (e.g., fluconazole, fluvoxamine, ticlopidine) and moderate (e.g., 623 omeprazole) inhibitors of CYP2C19 may result in up to a 5-fold increase in 624 exposure to N-desmethylclobazam, the active metabolite of clobazam, based on 625 extrapolation from pharmacogenomic data [see Clinical Pharmacology (12.5)]. 626 Dosage adjustment of ONFI may be necessary when co-administered with strong 627 or moderate CYP2C19 inhibitors [see Drug Interactions (7.2)]. 628 629 The effects of concomitant antiepileptic drugs that are CYP3A4 inducers (phenobarbital, phenytoin, and carbamazepine), CYP2C9 inducers (valproic acid, 630 631 phenobarbital, phenytoin, and carbamazepine), and CYP2C9 inhibitors (felbamate and oxcarbazepine) were evaluated using data from clinical trials. 632 633 Results of population pharmacokinetic analysis show that these concomitant 634 antiepileptic drugs did not significantly alter the pharmacokinetics of clobazam or 635 N-desmethylclobazam at steady-state. 636 637 Alcohol has been reported to increase the maximum plasma exposure of clobazam by approximately 50%. Alcohol may have additive CNS depressant 638 639 effects when taken with ONFI [see Warnings and Precautions (5.2), Drug 640 Interactions (7.3)]. 641 642 12.5 Pharmacogenomics 643 The polymorphic CYP2C19 is the main enzyme that metabolizes the 644 pharmacologically active N-desmethylclobazam. Compared to CYP2C19 645 extensive metabolizers, N-desmethylclobazam AUC and C_{max} are approximately 646 3-5 times higher in poor metabolizers (e.g., subjects with *2/*2 genotype) and 2 times higher in intermediate metabolizers (e.g., subjects with *1/*2 genotype). 647 648 The prevalence of CYP2C19 poor metabolism differs depending on racial/ethnic 649 background. Dosage in patients who are known CYP2C19 poor metabolizers may need to be adjusted [see Dosage and Administration (2.5)]. 650 651 652 The systemic exposure of clobazam is similar for both CYP2C19 poor and 653 extensive metabolizers.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

657 Carcinogenesis

The carcinogenic potential of clobazam has not been adequately assessed.

659660

661

662

655

656

In a limited study in rats, oral administration of clobazam (4, 20, and 100 mg/kg/day) for 2 years resulted in an increased incidence of thyroid follicular cell adenomas in males at the high dose.

663664

Mutagenesis

Clobazam and the major active metabolite, N-desmethylclobazam, were negative for genotoxicity, based on data from a battery of *in vitro* (bacteria reverse mutation, mammalian clastogenicity) and *in vivo* (mouse micronucleus) assays.

668669

Impairment of Fertility

There are no adequate studies of the effects of clobazam on fertility.

671672

673

674

675

676 677

670

14 CLINICAL STUDIES

The effectiveness of ONFI for the adjunctive treatment of seizures associated with Lennox-Gastaut syndrome was established in two multicenter controlled studies (Study 1 and Study 2). Both studies were similar in terms of disease characteristics and concomitant AED treatments. The most common concomitant AED treatments at baseline included: valproate, lamotrigine, levetiracetam, and topiramate.

678679680

681

682 683

684 685

Study 1

Study 1 (N=238) was a randomized, double-blind, placebo-controlled study consisting of a 4-week baseline period followed by a 3-week titration period and 12-week maintenance period. Patients age 2-54 years with a current or prior diagnosis of LGS were stratified into 2 weight groups (12.5 kg to ≤30 kg or >30 kg) and then randomized to placebo or one of three target maintenance doses of ONFI according to Table 5.

686 687 688

 Table 5. Study 1 Total Daily Dose

	≤30 kg Body Weight	>30 kg Body Weight
Low Dose	5 mg daily	10 mg daily
Medium Dose	10 mg daily	20 mg daily
High Dose	20 mg daily	40 mg daily

689

690 Doses above 5 mg/day were administered in two divided doses.

The primary efficacy measure was the percent reduction in the weekly frequency of drop seizures (atonic, tonic, or myoclonic), also known as drop attacks, from the 4-week baseline period to 12-week maintenance period.

The pre-dosing baseline mean weekly drop seizure frequency was 98, 100, 61, and 105 for the placebo, low-, medium-, and high-dose groups, respectively. Figure 1 presents the mean percent reduction in weekly drop seizures from this baseline. All dose groups of ONFI were statistically superior (p≤0.05) to the placebo group. This effect appeared to be dose dependent.

Figure 1. Mean Percent Reduction from Baseline in Weekly Drop Seizure Frequency (Study 1)

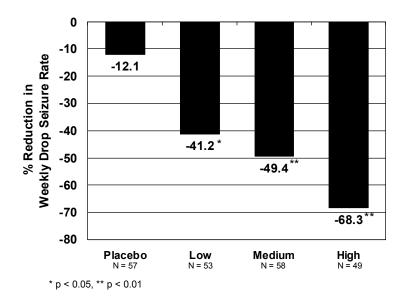
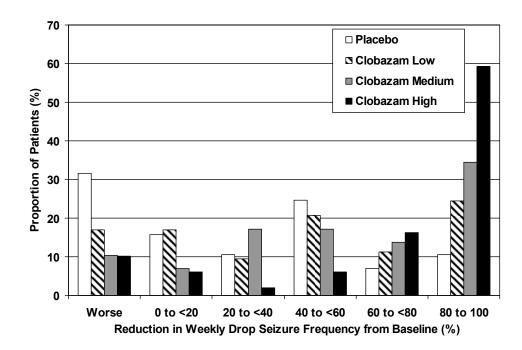


Figure 2 shows changes from baseline in weekly drop seizure frequency by category for patients treated with ONFI and placebo in Study 1. Patients in whom the seizure frequency increased are shown at left as "worse." Patients in whom the seizure frequency decreased are shown in five categories.

Figure 2. Drop Seizure Response by Category for ONFI and Placebo (Study 1)



718 719

There was no evidence that tolerance to the therapeutic effect of ONFI developed during the 3-month maintenance period.

720 721 722

Study 2

Study 2 (N=68) was a randomized, double-blind comparison study of high- and low-dose ONFI, consisting of a 4-week baseline period followed by a 3-week titration period and 4-week maintenance period. Patients age 2-25 years with a current or prior diagnosis of LGS were stratified by weight, then randomized to either a low or high dose of ONFI, and then entered a 3-week titration period.

728 729

730

731

The primary efficacy measure was the percent reduction in the weekly frequency of drop seizures (atonic, tonic, or myoclonic), also known as drop attacks, from the 4-week baseline period to the 4-week maintenance period.

732 733

A statistically significantly greater reduction in seizure frequency was observed in the high-dose group compared to the low-dose group (median percent reduction of 93% vs 29%; p<0.05).

737

736

734

735

16 HOW SUPPLIED/STORAGE AND HANDLING

738 739 740 Each ONFI tablet contains 10 mg or 20 mg of clobazam and is a white to offwhite, oval tablet with a functional score on one side and either a "1" and "0" or a "2" and "0" debossed on the other side.

- 742 NDC 67386-311-01:10 mg scored tablet, Bottles of 100
- 743 NDC 67386-312-01: 20 mg scored tablet, Bottles of 100

ONFI oral suspension is a berry flavored off-white liquid supplied in a bottle with child-resistant closure. The oral suspension is packaged with a dispenser set which contains two calibrated oral dosing syringes and bottle adapter. Store the oral suspension in an upright position. Use within 90 days of first opening the bottle, then discard any remainder.

750

NDC 67386-313-21: Bottle containing 120 mL of suspension

752 753

Store tablets and oral suspension at 20°C to 25°C (68°F to 77°F). See USP controlled room temperature.

754 755 756

17 PATIENT COUNSELING INFORMATION

- 757 See FDA-approved patient labeling (Medication Guide and Instructions for Use).
- Inform patients or caregivers of the availability of a Medication Guide and instruct them to read the Medication Guide prior to initiating treatment with ONFI and with each prescription refill. Review the ONFI Medication Guide with every patient or caregiver prior to initiation of treatment. Instruct patients or caregivers that ONFI should be taken only as prescribed.

763 764

Somnolence or Sedation

765 766

767

768

769

Advise patients or caregivers to check with their healthcare provider before ONFI is taken with other CNS depressants such as other benzodiazepines, opioids, tricyclic antidepressants, sedating antihistamines, or alcohol [see Warnings and Precautions (5.1)].

770771

If applicable, caution patients about operating hazardous machinery, including automobiles, until they are reasonably certain that ONFI does not affect them adversely (e.g., impair judgment, thinking or motor skills).

773774

772

- 775 <u>Increasing or Decreasing the ONFI Dose</u>
- Inform patients or caregivers to consult their healthcare provider before
- increasing the ONFI dose or abruptly discontinuing ONFI. Advise patients or
- caregivers that abrupt withdrawal of AEDs may increase their risk of seizure [see
- 779 Dosage and Administration (2.2), Warnings and Precautions (5.3)].

- 781 Interactions with Hormonal Contraceptives
- 782 Counsel women to also use non-hormonal methods of contraception when ONFI
- is used with hormonal contraceptives and to continue these alternative methods
- for 28 days after discontinuing ONFI to ensure contraceptive reliability [see Drug
- 785 Interactions (7.1), Clinical Pharmacology (12.3)].

786	
787	Suicidal Thinking and Behavior
788	Counsel patients, their caregivers, and their families that AEDs, including ONFI,
789	may increase the risk of suicidal thoughts and behavior and advise them of the
790	need to be alert for the emergence or worsening of symptoms of depression, any
791	unusual changes in mood or behavior, or the emergence of suicidal thoughts,
792	behavior, or thoughts of self-harm. Patients should report behaviors of concern
793	immediately to healthcare providers [see Warnings and Precautions (5.5)].
794	
795	<u>Use in Pregnancy</u>
796	Instruct patients to notify their healthcare provider if they become pregnant or
797	intend to become pregnant during therapy.
798	
799	Encourage patients to enroll in the NAAED Pregnancy Registry if they become
800	pregnant. This registry is collecting information about the safety of antiepileptic
801	drugs during pregnancy. To enroll, patients can call the toll free number 1-888-
802	233-2334. Information on the registry can also be found at the website
803	http://www.aedpregnancyregistry.org [see Use in Specific Populations (8.1)].
804	
805	<u>Use in Nursing</u>
806	Instruct patients to notify their physician if they are breast feeding or intend to
807	breast feed during therapy [see Use in Specific Populations (8.3)].
808 809	Tablete manufactured by: Catalant Pharma Salutions, LLC
810	Tablets manufactured by: Catalent Pharma Solutions, LLC Winchester, KY 40391, U.S.A.
811	Willonester, ICT 40391, O.O.A.
812	Oral suspension manufactured by: Rosemont Pharmaceuticals, Ltd.
813	Leeds, West Yorkshire LS118 EX, U.K.
814	
815	For: Lundbeck
816	Deerfield, IL 60015, U.S.A.
	Lundbeck
017	
817 818	
819	ONFI is a registered trademark of Lundbeck
820	

Page 23 of 35

822	MEDICATION GUIDE
823	ONFI® (ON-fee)
824	(clobazam)
825	Tablets and Oral Suspension
826 827 828 829 830 831	Read this Medication Guide before you start taking ONFI and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or treatment.
832	What is the most important information I should know about ONFI?
833 834 835 836	Do not stop taking ONFI without first talking to your healthcare provider. Stopping ONFI suddenly can cause serious problems.
837	ONFI can cause serious side effects, including:
838 839 840 841	 ONFI can make you sleepy or dizzy, slow your thinking, and make you clumsy which may get better over time.
842 843 844 845 846 847	 Do not drive, operate heavy machinery, or do other dangerous activities until you know how ONFI affects you. Do not drink alcohol or take other drugs that may make you sleepy or dizzy while taking ONFI until you talk to your healthcare provider. When taken with alcohol or drugs that cause sleepiness or dizziness, ONFI may make your sleepiness or dizziness much worse.
848 849 850	2. ONFI can cause withdrawal symptoms.
851 852 853 854 855 856	 Do not stop taking ONFI all of a sudden without first talking to a healthcare provider. Stopping ONFI suddenly can cause seizures that will not stop (status epilepticus), hearing or seeing things that are not there (hallucinations), shaking, nervousness, and stomach and muscle cramps.
857 858 859 860	 Talk to your healthcare provider about slowly stopping ONFI to avoid withdrawal symptoms.
861 862	3. ONFI can be abused and cause dependence.
862 863 864 865 866	 Physical dependence is not the same as drug addiction. Your healthcare provider can tell you more about the differences between physical dependence and drug addiction.

ONFI is a federally controlled substance (C-IV) because it can be abused or lead to dependence. Keep ONFI in a safe place to prevent misuse and abuse. Selling or giving away ONFI may harm others, and is against the law. Tell your healthcare provider if you have ever abused or been dependent on alcohol, prescription medicines or street drugs.

4. Like other antiepileptic drugs, ONFI may cause suicidal thoughts or actions in a very small number of people, about 1 in 500.

Call your healthcare provider right away if you 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

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

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

What is ONFI?

worried about symptoms.

ONFI is a prescription medicine used along with other medicines to treat seizures associated with Lennox-Gastaut syndrome in people 2 years of age or older.

It is not known if ONFI is safe and effective in children less than 2 years old.

What should I tell my healthcare provider before taking ONFI?

915 916

Before you take ONFI, tell your healthcare provider if you:

917 918

- 919 have liver or kidney problems 920

921 922

923

924

925

926 927

928 929

930 931 932

933 934

939 940

946

941

951 952 953

954

955

956 957 958

959 960

961

962

- have lung problems (respiratory disease)
- have or have had depression, mood problems, or suicidal thoughts or behavior
- have any other medical conditions
- use birth control medicine. ONFI may cause your birth control medicine to be less effective. Talk to your healthcare provider about the best birth control method to use.
- are pregnant or plan to become pregnant. ONFI may harm your unborn baby.
 - Tell your healthcare provider right away if you become pregnant while taking ONFI. You and your healthcare provider will decide if you should take ONFI while you are pregnant.
 - Children born to mothers receiving benzodiazepine medications (including ONFI) late in pregnancy may be at some risk of experiencing breathing problems, feeding problems, dangerously low body temperature, and withdrawal symptoms.
- If you become pregnant while taking ONFI, talk to your healthcare provider about registering with the North American Antiepileptic Drug Pregnancy Registry. You can register by calling 1-888-233-2334. For more information about the registry go to http://www.aedpregnancyregistry.org. The purpose of this registry is to collect information about the safety of antiepileptic drugs during pregnancy.
- ONFI can pass into breast milk. Talk to your healthcare provider about the best way to feed your baby if you take ONFI. You and your healthcare provider should decide if you will take ONFI or breast feed. You should not do both.

Tell your healthcare provider about all the medicines you take, including prescription and nonprescription medicines, vitamins, and herbal supplements. Taking ONFI with certain other medicines can cause side effects or affect how well ONFI or the other medications work. Do not start or stop other medicines without talking to your healthcare provider.

Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist when you get a new medicine.

How should I take ONFI?

963 Take ONFI exactly as your healthcare provider tells you to take it. 964 Your healthcare provider will tell you how much ONFI to take and 965 when to take it. 966 ONFI tablets can be taken whole, broken in half along the score, or 967 crushed and mixed in applesauce. 968 ONFI tablets and oral suspension can be taken with or without food. 969 Shake the bottle of ONFI oral suspension well right before you 970 take each dose. 971 Measure your dose of ONFI oral suspension using the bottle adapter 972 and dosing syringes that come with your ONFI oral suspension. 973 Read the Instructions for Use at the end of this Medication Guide for 974 information on the right way to use ONFI oral suspension. 975 • Your healthcare provider may change your dose if needed. Do not change your dose of ONFI without talking to your healthcare provider. 976 977 Do not stop taking ONFI without first talking to your healthcare 978 provider. 979 Stopping ONFI suddenly can cause serious problems. 980 • If you take too much ONFI, call your healthcare provider or go to the 981 nearest hospital emergency room right away. 982 983 What should I avoid while taking ONFI? 984 • Do not drive, operate heavy machinery, or do other dangerous 985 activities until you know how ONFI affects you. 986 Do not drink alcohol or take other medicines that may make you 987 sleepy or dizzy while taking ONFI until you talk to your healthcare 988 provider. When taken with alcohol or medicines that cause sleepiness 989 or dizziness, ONFI may make your sleepiness or dizziness much worse. 990 991 What are the possible side effects of ONFI? 992 993 ONFI may cause serious side effects, including: 994 995 See "What is the most important information I should know about 996 ONFI?" 997 998 The most common side effects of ONFI include: 999 1000 sleepiness 1001 drooling 1002 constipation 1003 cough 1004 pain with urination 1005 fever

acting aggressive, being angry, or violent

difficulty sleeping slurred speech

problems with breathing

tiredness

1006

1007

1008 1009

1011	
1012	These are not all the possible side effects of ONFI. For more information, ask
1013	your healthcare provider or pharmacist.
1014	
1015	Tell your healthcare provider if you have any side effect that bothers you or
1016	that does not go away.
1017	
1018	Call your doctor for medical advice about side effects. You may report side
1019	effects to FDA at 1-800-FDA-1088.
1020	
1021	How should I store ONFI?
1022	
1023	 Store ONFI tablets and oral suspension between 68°F to 77°F (20°C to
1024	25°C).
1025	
1026	<u>Tablets</u>
1027	 Keep ONFI tablets in a dry place
1028	
1029	Oral Suspension
1030	 Replace the cap securely after opening.
1031	 Keep ONFI oral suspension in an upright position.
1032	 Use ONFI oral suspension within 90 days of first opening the bottle.
1033	 After 90 days safely throw away any ONFI oral suspension that has not
1034	been used.
1035	
1036	Keep ONFI and all medicines out of the reach of children.
1037	
1038	General Information about the safe and effective use of ONFI.
1039	Medicines are sometimes prescribed for purposes other than those listed in a
1040	Medication Guide. Do not use ONFI for a condition for which it was not
1041	prescribed. Do not give ONFI to other people, even if they have the same
1042	symptoms that you have. It may harm them.
1043	
1044	This Medication Guide summarizes the most important information about
1045	ONFI. If you would like more information, talk with your healthcare provider.
1046	You can ask your pharmacist or healthcare provider for information about
1047	ONFI that is written for health professionals.
1048	
1049	For more information about ONFI, go to www.lundbeckus.com or call
1050	Lundbeck at 1-888-514-5204.
1051	
1052	What are the ingredients in ONFI?
1053	
1054	<u>Tablets</u>
1055	Active ingredient: clobazam
1056	Inactive ingredients: corn starch, lactose monohydrate, magnesium stearate,
1057	silicon dioxide, and talc.
1058	

1059	Oral Suspension
1060	Active ingredient: clobazam
1061	Inactive ingredients: magnesium aluminum silicate, xanthan gum, citric acid
1062	monohydrate, disodium hydrogen phosphate dihydrate, simethicone emulsion
1063	polysorbate 80, methylparaben, propylparaben, propylene glycol, sucralose,
1064	maltitol solution, berry flavor, purified water.
1065	
1066	This Medication Guide has been approved by the U.S. Food and Drug
1067	Administration.
1068	
1069	Marketed by: Lundbeck, Deerfield, IL 60015, U.S.A.
1070	
	Lundbeck
1071	
1072	
1073	ONFI is a registered trademark of Lundbeck
1074	MONTH 2012
1075	MONTH 2013
1076	

Instructions for Use ONFI® (ON-fee) (clobazam) **Oral Suspension**

1082 1083

1084

1085

1086

1081

Read this Instructions for Use before using ONFI oral suspension and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your healthcare provider about your medical condition or treatment.

1087 1088 1089

Prepare ONFI Oral Suspension Dose

You will need the following supplies: See Figure A

1091 1092 1093

1094

1095

1096

1097

1090

- ONFI oral suspension bottle
- Bottle adapter
- Oral dosing syringe (2 dosing syringes are included in the ONFI oral suspension box).
- Use only 1 syringe to take your dose of ONFI oral suspension. If you lose or damage the syringe, or cannot read the markings, use the other syringe.

1098 1099 1100

Figure A



1101 1102

> **Step 1.** Remove the ONFI oral suspension bottle, bottle adapter, and 1 syringe from the box.

1103 1104 1105

1106

Step 2. Shake the bottle well before each use. See Figure B

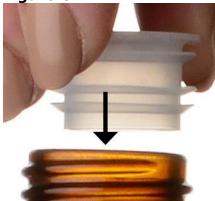
1107

1108 Figure B



Step 3. Uncap the bottle and firmly insert the bottle adapter into the bottle until the adapter top is even with the bottle top. **See Figure C**

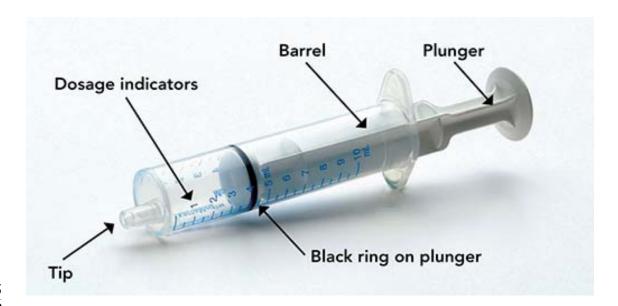
Figure C



Once the bottle adapter is in place, it should not be removed.

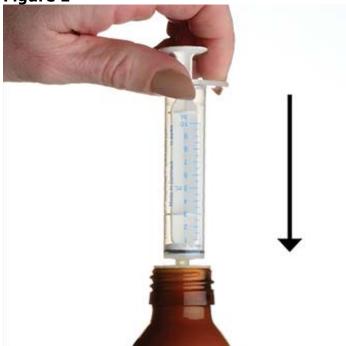
Step 4. Check your dose in milliliters (mL) as prescribed by your healthcare provider. Find this number on the syringe. Do not take more than the prescribed total dose in 1 day. **See Figure D**

1124 Figure D



Step 5. Push the plunger all the way down and then insert the syringe into the upright bottle through the opening in the bottle adapter. **See Figure E**

Figure E



Step 6. With the syringe in place, turn the bottle upside down. Pull the plunger to the number of mLs needed (the amount of liquid medicine in Step 4). **See Figure F**

Figure F



1141

1142

1143 Measure the mLs of medicine using the black ring on the white plunger. See 1144 Figure ${\bf G}$

1145

1146 Figure G



1147

1150 1151

1152 1153

1154

Step 7. Remove the syringe from the bottle adapter. Slowly squirt ONFI oral suspension directly into the corner of your mouth or your child's mouth until all of the liquid medicine in the syringe is given. See Figure H

Figure H



1155

1156 1157

1158 1159 1160

1161 1162

Step 8. Cap the bottle tightly with the adaptor in place. If the cap does not fit securely, check to see if the adapter is fully inserted. See Figure I

Store the bottle upright at 68°F to 77°F (20°C to 25°C).

- Use ONFI oral suspension within 90 days of first opening bottle.
- After 90 days safely throw away any ONFI oral suspension that has not been used.

Figure I



Step 9. Wash the oral syringe after each use.

Marketed by: Lundbeck, Deerfield, IL 60015, U.S.A.

and allowed to dry.



ONFI is a registered trademark of Lundbeck

MONTH 2013

To clean the oral syringe, take apart by removing the plunger

The barrel and plunger can be washed with soap and water, rinsed,

completely. Pull plunger straight out of the barrel.

Do not wash the oral syringe in the dishwasher.