

450 x 520 mm

HIGHLIGHTS OF PRESCRIBING INFORMATION

GABAPENTIN capsules, for oral use

Gabapentin capsules, USP are indicated for

Postherpetic neuralgia in adults (1)

Initial U.S Approval: 1993

with epilepsy (1)

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

100 mg: Hard gelatin capsules with white opaque body with white

. 300 mg: Hard gelatin capsules with yellow opaque body with carame

Gabapentin is contraindicated in patients who have demonstrated hypersensitivity

aque cap, imprinted with "AHD" on cap and "300" on body in black

400 mg: Hard gelatin capsules with orange opaque body with caramel opaque cap, imprinted with "AHD" on cap and "400" on body in black

ink and filled with white to off-white powder.

ink and filled with white to off-white powder.

Postherpetic Neuralgia (2.1)

These highlights do not include all the information needed to use GABAPENTIN

Adjunctive therapy in the treatment of partial onset seizures, with and without secondary generalization, in adults and pediatric patients 3 years and older

Dose can be titrated up as needed to a dose of 1800 mg/day

-----DOSAGE AND ADMINISTRATION-

o Dose can be titrated up as needed to a dose of 1800 mg/day	piacedo) were:	these can be classified into the follo	owing categories: 1) em	ntional lability (primarily	Depression	2	1 1	1. 00 .
o Day 1: Single 300 mg dose	 Postherpetic neuralgia: Dizziness, somnolence, and peripheral edema (6.1) Epilepsy in patients >12 years of age: Somnolence, dizziness, ataxia, 	behavioral problems), 2) hostility	, including aggressive	behaviors, 3) thought	Abnormal thinking	2	1	Gabapentin ca
o Day 2: 600 mg/day (i.e., 300 mg two times a day) o Day 3: 900 mg/day (i.e., 300 mg three times a day)	fatigue, and nystagmus (6.1)	disorder, including concentration pro 4) hyperkinesia (primarily restlessn			Abnormal coordination	1	0	1. Suicidal Th
 Epilepsy with Partial Onset Seizures (2.2) 	 Epilepsy in patients 3 to 12 years of age: Viral infection, fever, nausea and/or vomiting, somnolence, and hostility (6.1) 	treated patients, most of the reaction			Respiratory System			
 Patients 12 years of age and older: starting dose is 300 mg three times daily; may be titrated up to 600 mg three times daily 	To report SUSPECTED ADVERSE REACTIONS, contact Strides Pharma Inc. at	In controlled clinical epilepsy trials	in pediatric patients 3	to 12 years of age, the	Pharyngitis	3	2	capsules m
o Patients 3 to 11 years of age: starting dose range is 10 to 15 mg/kg/	1-877-244-9825 or go to www.strides.com or FDA at 1-800-FDA-1088 or www.	incidence of these adverse reactions	s was: emotional lability	6% (gabapentin-treated	Coughing	2	1	number of
day, given in three divided doses; recommended dose in patients 3 to 4 years of age is 40 mg/kg/day, given in three divided doses; the	fda.gov/medwatchDRUG INTERACTIONS	patients) versus 1.3% (placebo-ti hyperkinesia 4.7% versus 2.9%; a			Skin and Appendages			Call a healtho
recommended dose in patients 5 to 11 years of age is 25 to 35 mg/kg/	Concentrations increased by morphine; may need dose adjustment (5.4, 7.1)	these reactions, a report of hostili	ty, was considered seri	ous. Discontinuation of	Abrasion	1	0	1
day, given in three divided doses. The recommended dose is reached by upward titration over a period of approximately 3 days	USE IN SPECIFIC POPULATIONS	gabapentin treatment occurred in 1 hyperkinesia and 0.9% of gabapenti			Urogenital System			symptoms, esp
Dose should be adjusted in patients with reduced renal function (2.3, 2.4)	Pregnancy: Based on animal data, may cause fetal harm (8.1)	disorder. One placebo-treated patier				0		 thoughts ab
DOSAGE FORMS AND STRENGTHS	See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.	5.9 Tumorigenic Potential			Impotence	2	1	 attempts to
Capsules: 100 mg, 300 mg, and 400 mg (3)	Revised: 01/2025	In an oral carcinogenicity study, ga	abapentin increased the	incidence of pancreatic	Special Senses			
Known hypersensitivity to gabapentin or its ingredients (4)		acinar cell tumors in rats [see	Nonclinical Toxicology	(13.1)]. The clinical	Diplopia	6	2	new or work
WARNINGS AND PRECAUTIONS		significance of this finding is unkling premarketing development provide			Amblyopia ^b	4	1	new or wor
Drug Reaction with Eosinophilia and Systemic Symptoms (Multiorgan		inducing tumors in humans.	s no direct means to	assess its potential for	 Plus background antiepileptic drug Amblyopia was often described as 			 feeling agita
hypersensitivity): Discontinue if alternative etiology is not established (5.1)		In clinical studies in adjunctive th	herapy in epilepsy con	norising 2.085 patient-	Among the adverse reactions oc		nce of at least 10% in	 panic attacl
FULL PRESCRIBING INFORMATION: CONTENTS*	7.2 Other Antiepileptic Drugs	years of exposure in patients >12	2 years of age, new tu	mors were reported in	gabapentin-treated patients, somno			trouble slee
1 INDICATIONS AND USAGE	7.3 Maalox® (aluminum hydroxide, magnesium hydroxide)	10 patients (2 breast, 3 brain, 2 lu endometrial carcinoma <i>in situ</i>), an			dose-response relationship.			i
2 DOSAGE AND ADMINISTRATION	7.4 Drug/Laboratory Test Interactions	(9 brain, 1 breast, 1 prostate) durir	ng or up to 2 years follo	wing discontinuation of	The overall incidence of adverse rea were similar among men and won			new or wor
2.1 Dosage for Postherpetic Neuralgia2.2 Dosage for Epilepsy with Partial Onset Seizures	8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy	gabapentin. Without knowledge of similar population not treated with g			adverse reactions increased slightly		penun. The incluence of	 acting aggregation
2.3 Dosage Adjustment in Patients with Renal Impairment	8.2 Lactation	incidence seen in this cohort is or i			increasing age in patients treated w	vith either gabapentin o	or placebo. Because only	 acting on da
2.4 Dosage in Elderly 2.5 Administration Information	8.4 Pediatric Use 8.5 Geriatric Use	5.10 Sudden and Unexplained De	ath in Dationte with En	ilanev	3% of patients (28/921) in placebo			 an extreme
3 DOSAGE FORMS AND STRENGTHS	8.6 Renal Impairment	During the course of premarketin		. ,	(black or other), there are insuffici distribution of adverse reactions by		statement regarding the	other unusu
4 CONTRAINDICATIONS	9 DRUG ABUSE AND DEPENDENCE 9.1 Controlled Substance	unexplained deaths were recorded			Table 5 lists adverse reactions that	t occurred in at least 2	2% of gabapentin-treated	i other anasc
5 WARNINGS AND PRECAUTIONS	9.2 Abuse	treated (2103 patient-years of exposure) with gabapentin.			patients, age 3 to 12 years of age with epilepsy participating in placebo-controlled			How can I wate
5.1 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multiorgan Hypersensitivity	9.3 Dependence	Some of these could represent seizure-related deaths in which the seizure was not observed, e.g., at night. This represents an incidence of 0.0038 deaths per patient-						 Pay attentio
5.2 Anaphylaxis and Angioedema	10 OVERDOSAGE 11 DESCRIPTION	year. Although this rate exceeds the			TABLE 5. Adverse Reactions in a Placebo-Controlled Add-On Trial in Pediatric Epilepsy Patients Age 3 to 12 Years			,
5.3 Effects on Driving and Operating Heavy Machinery5.4 Somnolence/Sedation and Dizziness	12 CLINICAL PHARMACOLOGY	for age and sex, it is within the ra				Gabapentina	Placebo ^a	behaviors, t
5.5 Withdrawal Precipitated Seizure, Status Epilepticus5.6 Suicidal Behavior and Ideation	12.1 Mechanism of Action	unexplained deaths in patients wi from 0.0005 for the general popu				N = 119	N = 128	 Keep all foll
5.7 Respiratory Depression	12.3 Pharmacokinetics	population similar to that in the ga	abapentin program, to	0.005 for patients with		%	%	Coll your boolth
 Neuropsychiatric Adverse Reactions (Pediatric Patients 3 to 12 Years of Age) 	13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility	refractory epilepsy). Consequently, further concern depends on compa			Body as a Whole			Call your health
5.9 Tumorigenic Potential	14 CLINICAL STUDIES	gabapentin cohort and the accuracy			Viral infection	11	3	are worried abo
5.10 Sudden and Unexplained Death in Patients with Epilepsy 6 ADVERSE REACTIONS	14.1 Postherpetic Neuralgia 14.2 Epilepsy for Partial Onset Seizures (Adjunctive Therapy)	6 ADVERSE REACTIONS	-		Fever	10	3	Do not stop to
6.1 Clinical Trials Experience	16 HOW SUPPLIED/STORAGE AND HANDLING	The following serious adverse rea	ctions are discussed in	oreater detail in other	Increased weight	3	1	:
6.2 Postmarketing Experience	17 PATIENT COUNSELING INFORMATION	sections:		ŭ	Fatigue	3	2	healthcare pro
7 DRUG INTERACTIONS 7.1 Opioids	$\hbox{*Sections or subsections omitted from the full prescribing information are not listed.}$	Drug Reaction with Eosin Multiograp Hypersensitivity (s				-		 Stopping ga
		 Multiorgan Hypersensitivity [s Anaphylaxis and Angioedema 			<u>Digestive System</u>	_		Stopping a
FULL PRESCRIBING INFORMATION	5.2 Anaphylaxis and Angioedema	 Somnolence/Sedation and Di 	zziness [see Warnings a	and Precautions (5.4)]	Nausea and/or vomiting	8	7	can cause s
1 INDICATIONS AND USAGE	Gabapentin can cause anaphylaxis and angioedema after the first dose or at any	 Withdrawal Precipitated Sei Precautions (5.5)] 	zure, Status Epilepticu	s [see Warnings and	Nervous System			Suicidal the
Gabapentin capsules, USP are indicated for:	time during treatment. Signs and symptoms in reported cases have included difficulty breathing, swelling of the lips, throat, and tongue, and hypotension	 Suicidal Behavior and Ideation 			Somnolence	8	5	1
Management of postherpetic neuralgia in adults	requiring emergency treatment. Patients should be instructed to discontinue	 Respiratory Depression [see Neuropsychiatric Adverse Re 			Hostility	8	2	medicines.
 Adjunctive therapy in the treatment of partial onset seizures, with and without secondary generalization, in adults and pediatric patients 3 years and older 	gabapentin and seek immediate medical care should they experience signs or			is 5 to 12 fears of Age)	Emotional lability	4	2	provider ma
with epilepsy	symptoms of anaphylaxis or angioedema.	Sudden and Unexplained Dea	ath in Patients with Epile	psy [see Warnings and	Dizziness	3	2	O Champas is
2 DOSAGE AND ADMINISTRATION	5.3 Effects on Driving and Operating Heavy Machinery	Precautions (5.10)]			Hyperkinesia	3	1	2. Changes in
2.1 Dosage for Postherpetic Neuralgia	Patients taking gabapentin should not drive until they have gained sufficient	6.1 Clinical Trials Experience			Respiratory System			in children
In adults with postherpetic neuralgia, gabapentin may be initiated on Day 1 as a	experience to assess whether gabapentin impairs their ability to drive. Driving performance studies conducted with a prodrug of gabapentin (gabapentin	Because clinical trials are conduct reaction rates observed in the clinic				2	1	aggressive
single 300 mg dose, on Day 2 as 600 mg/day (300 mg two times a day), and on	enacarbil tablet, extended-release) indicate that gabapentin may cause significant	to rates in the clinical trials of anoth			Bronchitis	3	1	school perf
Day 3 as 900 mg/day (300 mg three times a day). The dose can subsequently be titrated up as needed for pain relief to a dose of 1800 mg/day (600 mg three times	driving impairment. Prescribers and patients should be aware that patients' ability to assess their own driving competence, as well as their ability to assess the	in practice.	,		Respiratory infection			i
a day). In clinical studies, efficacy was demonstrated over a range of doses from	degree of somnolence caused by Gabapentin, can be imperfect. The duration of	Postherpetic Neuralgia			^a Plus background antiepileptic drug			; 3. Gabapentin
1800 mg/day to 3600 mg/day with comparable effects across the dose range; however, in these clinical studies, the additional benefit of using doses greater than	driving impairment after starting therapy with gabapentin is unknown. Whether the	The most common adverse reacti adults, not seen at an equivalent fr			Other reactions in more than 2% of equally or more frequent in the			allergic rea
1800 mg/day was not demonstrated.	impairment is related to somnolence [see Warnings and Precautions (5.4)] or other effects of gabapentin is unknown.	dizziness, somnolence, and periphe		o dodica padente, nere	respiratory infection, headache, rhir			body such
2.2 Dosage for Epilepsy with Partial Onset Seizures	Moreover, because gabapentin causes somnolence and dizziness (see Warnings	In the 2 controlled trials in post			and otitis media.			
Patients 12 years of age and above	and Precautions (5.4)], patients should be advised not to operate complex	who received gabapentin and 9% discontinued treatment because of			6.2 Postmarketing Experience			hospitalized
The starting dose is 300 mg three times a day. The recommended maintenance	machinery until they have gained sufficient experience on gabapentin to assess whether gabapentin impairs their ability to perform such tasks.	most frequently led to withdrawal			the following database reactions have been facilities dailing postulationing does of			have a rash
dose of gabapentin is 300 mg to 600 mg three times a day. Dosages up to 2400	whether gapapentin impairs their ability to perform such tasks.	somnolence, and nausea. Table 3 lists adverse reactions that occurred in at least 1% of Gabapentin-treated patients with postherpetic neuraloia participating in placebo-controlled trials and			of uncertain size, it is not always possible to reliably estimate their frequency of			Call a health
mg/day have been administered in long-term clinical studies. Doses of 3600 mg/ day have also been administered to a small number of patients for a relatively	5.4 Somnolence/Sedation and Dizziness							symptoms:
short duration. Administer gabapentin three times a day using 300 mg or 400 mg	During the controlled epilepsy trials in patients older than 12 years of age receiving	patients with postherpetic neuralgi that were numerically more freque			Hepatobiliary Disorders: jaundice Investigations: elevated creatine kinase, elevated liver function tests • Skin ras			
capsules. The maximum time between doses should not exceed 12 hours.	doses of gabapentin up to 1800 mg daily, somnolence, dizziness, and ataxia were reported at a greater rate in patients receiving gabapentin compared to placebo:	group.	ni in ano gapaponiin gri	ap than in the placebo				
Pediatric Patients Age 3 to 11 years	i.e., 19% in drug versus 9% in placebo for somnolence, 17% in drug versus 7%	TABLE 3. Adverse Reactions		ntrolled Trials in	Metabolism and Nutrition Disorders			hives
The starting dose range is 10 mg/kg/day to 15 mg/kg/day, given in three divided doses, and the recommended maintenance dose reached by upward titration	in placebo for dizziness, and 13% in drug versus 6% in placebo for ataxia. In these trials somnolence, ataxia and fatigue were common adverse reactions leading to	Posth	erpetic Neuralgia		Musculoskeletal and Connective Tis Nervous System Disorders: movem		nyolysis	 difficulty breather
over a period of approximately 3 days. The recommended maintenance dose of	discontinuation of gabapentin in patients older than 12 years of age, with 1.2%, 0.8%		Gabapentin N = 336	Placebo N = 227	Psychiatric Disorders: agitation	ient disorder		fever
gabapentin in patients 3 to 4 years of age is 40 mg/kg/day, given in three divided	and 0.6% discontinuing for these events, respectively.		W = 330 %	W = 221 %	Reproductive System and Breast Di	isorders: breast enlarge	ement, changes in libido,	 swollen glar
doses. The recommended maintenance dose of gabapentin in patients 5 to 11 years of age is 25 mg/kg/day to 35 mg/kg/day, given in three divided doses.	During the controlled trials in patients with post-herpetic neuralgia, somnolence,	Body as a Whole			ejaculation disorders and anorgasm			
Gabapentin may be administered as the capsules formulations. Dosages up to 50	and dizziness were reported at a greater rate compared to placebo in patients receiving Gabapentin, in dosages up to 3600 mg per day: i.e., 21% in Gabapentin-	Asthenia	6	5	Skin and Subcutaneous Tissue Precautions (5.2)], bullous pemph			 swelling of y
mg/kg/day have been administered in a long-term clinical study. The maximum time interval between doses should not exceed 12 hours.	treated patients versus 5% in placebo-treated patients for somnolence and 28% in	Infection	5	4	syndrome.	ngolu, crythorna mula	TOTTIC, OTCVCIIS-DOTIIISOTI	 yellowing of
	Gabapentin-treated patients versus 8% in placebo-treated patients for dizziness. Dizziness and somnolence were among the most common adverse reactions leading	Accidental injury	3	1	There are postmarketing reports of I			 unusual bru
2.3 Dosage Adjustment in Patients with Renal Impairment	to discontinuation of Gabapentin.	Digestive System			patients taking gabapentin with opic of underlying respiratory impairmen			severe fatigit
Dosage adjustment in patients 12 years of age and older with renal impairment or undergoing hemodialysis is recommended, as follows (see dosing recommendations	Patients should be carefully observed for signs of central nervous system (CNS)	Diarrhea	6	3	Adverse reactions following the at		, ,-	unexpected
above for effective doses in each indication):	depression, such as somnolence and sedation, when gabapentin is used with other	Dry mouth	5	1	been reported. The most frequent			
TABLE 1. Gabapentin Dosage Based on Renal Function	drugs with sedative properties because of potential synergy. In addition, patients who require concomitant treatment with morphine may experience increases in	Constipation	4	2	nausea, pain, and sweating.			 frequent infe
Renal	gabapentin concentrations and may require dose adjustment [see Drug Interactions	Nausea	4	3	7 DRUG INTERACTIONS			These symptom
Function Total Daily Creatinine Dose Range Dose Regimen (mg)	(7.1)].	Vomiting	3	. 7				ווובסב פאוווחונטווו
Clearance (mg/day)	5.5 Withdrawal Precipitated Seizure, Status Epilepticus		<u> </u>	2	7.1 Opioids			
(mL/min)		Metabolic and Nutritional Disorders		2	Respiratory depression and sedati			provider should
	Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency.	Metabolic and Nutritional Disorders Peripheral edema	8	2	•	n of gabapentin with	opioids (e.g., morphine,	provider should gabapentin caps
≥ 60 900 to 3600 300 TID 400 TID 600 TID 800 TID 1200 TID	Antiepileptic drugs should not be abruptly discontinued because of the possibility	Disorders	8 2	2 0	Respiratory depression and sedati reported following coadministration	n of gabapentin with	opioids (e.g., morphine,	provider should gabapentin caps
≥ 60 900 to 3600 300 TID 400 TID 600 TID 800 TID 1200 TID > 30 to 59 400 to 1400 200 BID 300 BID 400 BID 500 BID 700 BID	Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency. In the placebo-controlled epilepsy studies in patients >12 years of age, the incidence of status epilepticus in patients receiving gabapentin was 0.6% (3 of 543)	<u>Disorders</u> Peripheral edema		2	Respiratory depression and sedati reported following coadministration hydrocodone, oxycodone, buprenor Hydrocodone Coadministration of gabapentin	n of gabapentin with rphine) [see Warnings with hydrocodone of	opioids (e.g., morphine, and Precautions (5.7)]. decreases hydrocodone	provider should gabapentin caps 4. Serious bro
≥ 60 900 to 3600 300 TID 400 TID 600 TID 800 TID 1200 TID	Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency. In the placebo-controlled epilepsy studies in patients >12 years of age, the incidence of status epilepticus in patients receiving gabapentin was 0.6% (3 of 543) versus 0.5% in patients receiving placebo (2 of 378). Among the 2074 patients	Disorders Peripheral edema Weight gain	2	2 0	Respiratory depression and sedati reported following coadministration hydrocodone, oxycodone, buprenor Hydrocodone Coadministration of gabapentin exposure [see Clinical Pharmaco	n of gabapentin with rphine) [see Warnings with hydrocodone ology (12.3)]. The po	opioids (e.g., morphine, and Precautions (5.7)]. decreases hydrocodone otential for alteration in	provider should gabapentin caps 4. Serious br happen who
≥ 60 900 to 3600 300 TID 400 TID 600 TID 800 TID 1200 TID > 30 to 59 400 to 1400 200 BID 300 BID 400 BID 500 BID 700 BID	Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency. In the placebo-controlled epilepsy studies in patients >12 years of age, the incidence of status epilepticus in patients receiving gabapentin was 0.6% (3 of 543) versus 0.5% in patients receiving placebo (2 of 378). Among the 2074 patients >12 years of age treated with gabapentin across all epilepsy studies (controlled and uncontrolled), 31 (1.5%) had status epilepticus. Of these, 14 patients had	Disorders Peripheral edema Weight gain Hyperglycemia	2	2 0	Respiratory depression and sedati reported following coadministration hydrocodone, oxycodone, buprenor Hydrocodone Coadministration of gabapentin	n of gabapentin with rphine) [see Warnings with hydrocodone ology (12.3)]. The pohould be considered with the pology with the pology (12.3) of the pology (12.3).	opioids (e.g., morphine, and Precautions (5.7)]. decreases hydrocodone otential for alteration in	provider should gabapentin caps 4. Serious bro happen who (such as op
≥ 60 900 to 3600 300 TID 400 TID 600 TID 800 TID 1200 TID > 30 to 59 400 to 1400 200 BID 300 BID 400 BID 500 BID 700 BID > 15 to 29 200 to 700 200 QD 300 QD 400 QD 500 QD 700 QD	Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency. In the placebo-controlled epilepsy studies in patients >12 years of age, the incidence of status epilepticus in patients receiving gabapentin was 0.6% (3 of 543) versus 0.5% in patients receiving placebo (2 of 378). Among the 2074 patients >12 years of age treated with gabapentin across all epilepsy studies (controlled and uncontrolled), 31 (1.5%) had status epilepticus. Of these, 14 patients had no prior history of status epilepticus either before treatment or while on other	Disorders Peripheral edema Weight gain Hyperglycemia Nervous System	2 1 28 21	2 0 0	Respiratory depression and sedati reported following coadministration hydrocodone, oxycodone, buprenor Hydrocodone Coadministration of gabapentin exposure [see Clinical Pharmaco hydrocodone exposure and effect st	n of gabapentin with rphine) [see Warnings with hydrocodone ology (12.3)]. The pohould be considered with the pology with the pology (12.3) of the pology (12.3).	opioids (e.g., morphine, and Precautions (5.7)]. decreases hydrocodone otential for alteration in	provider should gabapentin caps 4. Serious brown happen who (such as op decreased as
≥ 60 900 to 3600 300 TID 400 TID 600 TID 800 TID 1200 TID > 30 to 59 400 to 1400 200 BID 300 BID 400 BID 500 BID 700 BID > 15 to 29 200 to 700 200 QD 300 QD 400 QD 500 QD 700 QD 15 ^a 100 to 300 100 QD 125 QD 150 QD 200 QD 300 QD	Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency. In the placebo-controlled epilepsy studies in patients >12 years of age, the incidence of status epilepticus in patients receiving gabapentin was 0.6% (3 of 543) versus 0.5% in patients receiving placebo (2 of 378). Among the 2074 patients >12 years of age treated with gabapentin across all epilepsy studies (controlled and uncontrolled), 31 (1.5%) had status epilepticus. Of these, 14 patients had no prior history of status epilepticus either before treatment or while on other medications. Because adequate historical data are not available, it is impossible to say whether or not treatment with gabapentin is associated with a higher or lower	Disorders Peripheral edema Weight gain Hyperglycemia Nervous System Dizziness Somnolence Ataxia	2 1 2 28 21 3	2 0 0 0	Respiratory depression and sedati reported following coadministration hydrocodone, oxycodone, buprenor Hydrocodone Coadministration of gabapentin exposure [see Clinical Pharmaco hydrocodone exposure and effect st or discontinued in a patient taking hydrophine When gabapentin is administered	n of gabapentin with rphine) [see Warnings with hydrocodone of blogy (12.3)]. The pohould be considered wlydrocodone. with morphine, patiei	opioids (e.g., morphine, and Precautions (5.7)]. decreases hydrocodone otential for alteration in rhen gabapentin is started	provider should gabapentin caps 4. Serious bro happen who (such as op
≥ 60 900 to 3600 300 TID 400 TID 600 TID 800 TID 1200 TID > 30 to 59 400 to 1400 200 BID 300 BID 400 BID 500 BID 700 BID > 15 to 29 200 to 700 200 QD 300 QD 400 QD 500 QD 700 QD 15a 100 to 300 100 QD 125 QD 150 QD 200 QD 300 QD Post-Hemodialysis Supplemental Dose (mg) ^b Hemodialysis 125a 150a 200 200 250a 350a	Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency. In the placebo-controlled epilepsy studies in patients >12 years of age, the incidence of status epilepticus in patients receiving gabapentin was 0.6% (3 of 543) versus 0.5% in patients receiving placebo (2 of 378). Among the 2074 patients >12 years of age treated with gabapentin across all epilepsy studies (controlled and uncontrolled), 31 (1.5%) had status epilepticus. Of these, 14 patients had no prior history of status epilepticus either before treatment or while on other medications. Because adequate historical data are not available, it is impossible to say whether or not treatment with gabapentin is associated with a higher or lower rate of status epilepticus than would be expected to occur in a similar population	Disorders Peripheral edema Weight gain Hyperglycemia Nervous System Dizziness Somnolence Ataxia Abnormal thinking	2 1 28 21 3 3 3	2 0 0 0 8 5 0	Respiratory depression and sedati reported following coadministration hydrocodone, oxycodone, buprenor Hydrocodone Coadministration of gabapentin exposure Isee Clinical Pharmaco hydrocodone exposure and effect st or discontinued in a patient taking hydromacome Morphine When gabapentin is administered for signs of CNS depression, sur	n of gabapentin with phine) [see Warnings with hydrocodone of logy (12.3)]. The pchould be considered wlydrocodone. with morphine, patiech as somnolence, s	opioids (e.g., morphine, and Precautions (5.7)]. decreases hydrocodone otential for alteration in rhen gabapentin is started	provider should gabapentin caps 4. Serious bro happen who (such as op decreased a has breathir
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency. In the placebo-controlled epilepsy studies in patients >12 years of age, the incidence of status epilepticus in patients receiving gabapentin was 0.6% (3 of 543) versus 0.5% in patients receiving placebo (2 of 378). Among the 2074 patients >12 years of age treated with gabapentin across all epilepsy studies (controlled and uncontrolled), 31 (1.5%) had status epilepticus. Of these, 14 patients had no prior history of status epilepticus either before treatment or while on other medications. Because adequate historical data are not available, it is impossible to say whether or not treatment with gabapentin is associated with a higher or lower rate of status epilepticus than would be expected to occur in a similar population not treated with gabapentin.	Disorders Peripheral edema Weight gain Hyperglycemia Nervous System Dizziness Somnolence Ataxia Abnormal thinking Abnormal gait	2 1 28 21 3 3 2	2 0 0 0 8 5 0 0	Respiratory depression and sedati reported following coadministration hydrocodone, oxycodone, buprenor Hydrocodone Coadministration of gabapentin exposure [see Clinical Pharmaco hydrocodone exposure and effects or discontinued in a patient taking hydrocodone exposure and effects or discontinued in a patient taking hydrophine When gabapentin is administered for signs of CNS depression, sur depression [see Clinical Pharmacol	n of gabapentin with phine) [see Warnings with hydrocodone of logy (12.3)]. The pchould be considered wlydrocodone. with morphine, patiech as somnolence, s	opioids (e.g., morphine, and Precautions (5.7)]. decreases hydrocodone otential for alteration in rhen gabapentin is started	provider should gabapentin caps 4. Serious brown happen who (such as op decreased a has breathir help right av
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Anaphylaxis and Angioedema: Discontinue and evaluate patient immediately 5.7 Respiratory Depression

Neuropsychiatric Adverse Reactions in Children 3 to 12 Years of Age: Monitor for such years (5-6).

Driving Impairment; Somnolence/Sedation and Dizziness: Warn patients not to drive until they have gained sufficient experience to assess whether their ability to drive or operate heavy machinery will be impaired (5.3, 5.4) Increased seizure frequency may occur in patients with seizure disorders if gabapentin is abruptly discontinued (5.5)

Suicidal Behavior and Ideation: Monitor for suicidal thoughts / behavior (5.6) gabapentin to patients with underlying respiratory impairment, monitor patients

Respiratory depression: May occur with gabapentin when used with concomitant central nervous system (CNS) depressants, including opioids, or in the setting of underlying respiratory impairment. Monitor patients and adjust dosage as appropriate (5.7)

Most common adverse reactions (incidence ≥8% and at least twice that for with the occurrence of CNS related adverse reactions. The most significant of with the occurrence of CNS related adverse reactions. The most significant of with the occurrence of CNS related adverse reactions. The most significant of with the occurrence of CNS related adverse reactions.

Oriving Impairment; Somnolence/Sedation and Dizziness: Warn patients not

for such events (5.8)

There is evidence from case reports, human studies, and animal studies

5.8 Neuropsychiatric Adverse Reactions (Pediatric Patients 3 to 12 Years of Age)

Nervous System

Nystagmus

MEDICATION GUIDE

GABAPENTIN (GAB-a-PEN-tin) Capsules, USP 100 mg, 300 mg and 400 mg Rx Only

What is the most important information I should know about gabapentin capsules?

Do not stop taking gabapentin capsules without first talking to your

healthcare provider. Stopping gabapentin capsules suddenly can cause serious problems.

Gabapentin capsules can cause serious side effects including: 1. Suicidal Thoughts. Like other antiepileptic drugs, gabapentin capsules may cause suicidal thoughts or actions in a very small er of people, about 1 in 500.

ealthcare provider right away if you have any of these , especially if they are new, worse, or worry you:

- nts about suicide or dying
- ots to commit suicide
- r worse depression
- r worse anxiety
- gagitated or restless attacks
- e sleeping (insomnia)
- r worse irritability
- aggressive, being angry, or violent
- on dangerous impulses
- reme increase in activity and talking (mania) unusual changes in behavior or mood

watch for early symptoms of suicidal thoughts and actions? tention to any changes, especially sudden changes, in mood, iors, thoughts, or feelings.

- all follow-up visits with your healthcare provider as scheduled.
- nealthcare provider between visits as needed, especially if you l about symptoms.

top taking gabapentin capsules without first talking to a e provider.

- ing gabapentin capsules suddenly can cause serious problems. ing a seizure medicine suddenly in a person who has epilepsy
- ause seizures that will not stop (status epilepticus). al thoughts or actions can be caused by things other than ines. If you have suicidal thoughts or actions, your healthcare
- er may check for other causes. jes in behavior and thinking. Using gabapentin capsules
- dren 3 to 12 years of age can cause emotional changes, ssive behavior, problems with concentration, changes in I performance, restlessness, and hyperactivity.
- pentin capsules may cause serious or life-threatening **ic reactions** that may affect your skin or other parts of your such as your liver or blood cells. This may cause you to be alized or to stop gabapentin capsules. You may or may not rash with an allergic reaction caused by gabapentin capsules. healthcare provider right away if you have any of the following
- ash
- Ity breathing
- glands that do not go away
- ng of your face, lips, throat, or tongue ring of your skin or of the whites of the eyes
- al bruising or bleeding fatigue or weakness
- ected muscle pain
- nt infections
- nptoms may be the first signs of a serious reaction. A healthcare should examine you to decide if you should continue taking
- **breathing problems**. Serious breathing problems can when gabapentin capsules is taken with other medicines as opioid pain medicines) that can cause severe sleepiness or ased awareness, or when it is taken by someone who already eathing problems. Call your healthcare provider or get medical ght away if you have any of the following symptoms:
- feel very tired
 dizziness ort of breath ing slower than normal • confusion • headache
- nat your caregiver or family members know which symptoms erious so they can call your healthcare provider or get medical are unable to seek treatment on your own. hcare provider may lower your dose or stop your treatment

pentin capsules if you have serious breathing problems.

abapentin? n is a prescription medicine used to treat:

- rom damaged nerves (postherpetic pain) that follows healing ngles (a painful rash that comes after a herpes zoster infection)
- seizures when taken together with other medicines in adults nildren 3 years of age and older with seizures.
- nown if Gabapentin is safe and effective to treat:
- en with pain from damaged nerves from a painful rash caused
- chicken pox virus.
- partial seizures in children under 3 years of age.
- Do not take Gabapentin capsules if you:
- are allergic to gabapentin or any of the other ingredients in gabapentin capsules. See the end of this Medication Guide for a complete list of ingredients in gabapentin capsules.

Before taking gabapentin capsules, tell your healthcare provider about all of your medical conditions including if you:

- have or have had kidney problems or are on hemodialysis.
- have or have had depression, mood problems, or suicidal thoughts

your healthcare provider will decide if you should take gabapentin

Front Side

- or behavior. have a history of drug abuse.
- have diabetes.
- have breathing problems. • are pregnant or plan to become pregnant. It is not known if gabapentin can harm your unborn baby. Tell your healthcare provider right away if you become pregnant while taking gabapentin capsules. You and

Perforation not required **Dotted Line to be printed**

capsules while you are pregnant.

5.1 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/ differences were similar for the epilepsy and psychiatric indications.

as multiorgan hypersensitivity, has occurred with Gabapentin. Some of these reactions have been fatal or life-threatening. DRESS typically, although not

exclusively, presents with fever, rash, and/or lymphadenopathy, in association Should suicidal thoughts and behavior emerge during treatment, the prescriber

exclusively, presents with Tevel, rash, and/or symphrace including in association with other organ system involvement, such as hepatitis, nephritis, hematological abnormalities, myocarditis, or myositis sometimes resembling an acute viral may be related to the illness being treated.

abnormalities, myocardius, or myocardius sometimes recommended in its expression, infection. Eosinophilia is often present. This disorder is variable in its expression, Patients, their caregivers, and families should be informed that AEDs increase the

is important to note that early manifestations of hypersensitivity, such as fever or lymphadenopathy, may be present even though rash is not evident. If such signs or symptoms are present, the patient should be evaluated immediately. Gabapentin should be discontinued if an alternative etiology for the signs or symptoms cannot be according to the signs and symptoms of depression, or symptoms are present, the patient should be evaluated immediately. Gabapentin should be discontinued if an alternative etiology for the signs or symptoms cannot be according to the signs and symptoms of depression, or symptoms are present, the patient should be evaluated immediately. Gabapentin should be discontinued if an alternative etiology for the signs or symptoms cannot be according to the signs and symptoms of depression, or symptoms or behavior, or the emergence or worsening of the signs and symptoms of depression, or symptoms are present, the patient should be evaluated immediately. Gabapentin should be discontinued if an alternative etiology for the signs or symptoms cannot be according to the signs and symptoms of depression, or symptoms are present, the patient should be evaluated immediately. Gabapentin should be discontinued if an alternative etiology for the signs or symptoms cannot be according to the signs and symptoms of depression, and symptoms of depression and symptoms of depression, and symptoms of depression and symptoms of depression and symptoms of depression, and symptoms of depression and symptoms of depression and symptoms of depression, and symptoms of depression and symptoms of depression, and symptoms of depression and symptoms of depression and symptoms of depression and s

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS), also known risk of suicidal thoughts or behavior with the risk of untreated illness. Epilepsy and Body as a Whole

Events Per 1,000 Patients

The relative risk for suicidal thoughts or behavior was higher in clinical trials for

Anyone considering prescribing gabapentin or any other AED must balance the

with Incidence of Additional Drug

in Placebo

1.0 3.4 3.5 2.4

Events Per

NON PRINTING COLOUR ARTWORK DETAIL LABEL Gabapentin Capsules USP 100, 300 & 400 mg **Product** Buyer/Country STRIDES PHARMA INC - US Outsert with medication guide Component Dimension 450 x 520 mm Pack New Item Code 1051606 Old Item Code | 1051180 BLACK Colour Shades No. of Colours 1 Artwork Version | 2.0 Change Control No. PC-SPL/2025/014 - Record No.: 447601 Front & Back Printing. To be supplied in FOLDED BOOKLET form with pasting & folded size: 33 x 34 mm. | Design/Style Substrate 28 GSM Paper. Special Instructions | PRINTING CLARITY TO BE CLEAR AND SHARF Autocartonator Requirements Caution to the printer: Before processing, please ensure that the ARTWORK received for printing is exactly in line with APPROVED ARTWORK provided to you. In case of any FONTS/DESIGN are Mis-matching with the APPROVED ARTWORK, please inform PDC for further action. DO NOT MAKE ANY CHANGE TO THE ARTWORK WITHOUT WRITTEN INSTRUCTIONS FROM PDC.

of the 449 pediatric patients 3 to 12 years of age who received gabapentin in methodological limitations hindering interpretation of these studies [see Data]. In premarketing clinical trials discontinued treatment because of an adverse reaction.
The adverse reactions most commonly associated with withdrawal in patients >12

inonclinical studies in mice, rats, and rabbits, gabapentin was developmentally toxic. (increased fetal skeletal and visceral abnormalities, and increased embryofetal

years of age were somnolence (1.2%), ataxia (0.8%), fatigue (0.6%), nausea and/ mortality) when administered to pregnant animals at doses similar to or lower than

Table 4 lists adverse reactions that occurred in at least 1% of Gabapentin-treated patients >12 years of age with epilepsy participating in placebo-controlled trials and were numerically more common in the gabapentin group. In these studies, either gabapentin or placebo was added to the patient's current antiepileptic drug therapy

N = 378 %

The background risk of major birth defects and miscarriage for the indicated

An observational study based on routinely collected data from administrative and medical registers in Denmark, Finland, Norway, and Sweden, compared the

prevalence of major congenital malformations in approximately 1,500 pregnancies exposed to gabapentin monotherapy in the first trimester to pregnancies unexposed

o antiepileptics (n=2.995.816) and pregnancies exposed to lamotrigine

in a pooled analysis were 1.00 (95% CI: 0.80-1.24) compared to pregnancies

Data from another observational study in the US based on Medicaid data, which

pregnancies exposed to gabapentin during the first trimester to unexposed pregnancies (n=1,753,865), estimated an adjusted relative risk of 1.07 (95% CI:

compared the risk for major congenital malformations in more than 4,600

The data from these observational studies should be interpreted with caution due

to the potential for exposure misclassification, outcome misclassification, and

exposed to lamotrigine monotherapy in the first trimester.

residual confounding, including by underlying disease.

or vomiting (0.6%), and dizziness (0.6%). The adverse reactions most commonly those used clinically [see Data].

associated with withdrawal in pediatric patients were emotional lability (1.6%),

N = 543

hostility (1.3%), and hyperkinesia (1.1%).

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

Total 2.4 4.3 1.8 1.9

Data Human Data Epilepsy Patients >12 years of age

Digestive System

- Pregnancy Registry: If you become pregnant while taking gabapentin capsules, talk to your healthcare provider about registering with the North American Antiepileptic Drug (NAAED) Pregnancy Registry. The purpose of this registry is to collect information about the safety of antiepileptic drugs during pregnancy. You can enroll in this registry by calling 1-888-233-2334 or visiting http://www.aedpregnancyregistry.org/.
- are breastfeeding or plan to breastfeed. Gabapentin can pass into breast milk. You and your healthcare provider should decide how you will feed your baby while you take gabapentin.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Especially tell your healthcare provider if you take:

• any opioid pain medicine such as morphine, hydrocodone, oxycodone, or buprenorphine.

• any medicines for anxiety (such as lorazepam) or insomnia (such as zolpidem), or any medicines that make you sleepy. You may have a higher chance for dizziness, sleepiness, or breathing problems if these medicines are taken with Gabapentin capsules.

Taking gabapentin capsules with certain other medicines can cause side effects or affect how well they 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 gabapentin capsules?

- Take gabapentin capsules exactly as prescribed. Your healthcare provider will tell you how much gabapentin capsules to take.
- **Do not** change your dose of gabapentin capsules without talking to
- your healthcare provider.
- Gabapentin capsules can be taken with or without food.
- Swallow gabapentin capsules whole with water. • If you take an antacid containing aluminum and magnesium, such
- as Maalox, Mylanta, Gelusil, Gaviscon, or Di-Gel, you should wait at least 2 hours before taking your next dose of gabapentin. • In case of overdose, get medical help or contact a live Poison Center
- expert right away at 1-800-222-1222. Advice is also available online at poisonhelp.org.

What should I avoid while taking gabapentin capsules? • **Do not** drink alcohol or take other medicines that make you sleepy

- or dizzy while taking gabapentin capsules without first talking with your healthcare provider. Taking gabapentin capsules with alcohol or drugs that cause sleepiness or dizziness may make your sleepiness or dizziness worse.
- **Do not** drive, operate heavy machinery, or do other dangerous activities until you know how gabapentin capsules affects you. Gabapentin capsules can slow your thinking and motor skills.

What are the possible side effects of gabapentin capsules?

Gabapentin capsules may cause serious side effects, including: • See "What is the most important information I should know about

- gabapentin capsules?" problems driving while using gabapentin capsules. See "What
- should I avoid while taking gabapentin capsules?"
- sleepiness and dizziness, which could increase your chance of having an accidental injury, including falls.
- The most common side effects of gabapentin capsules include:
- lack of coordination feeling tired
- viral infection jerky movements feeling drowsy
- difficulty with coordination nausea and vomiting double vision difficulty with speaking
- swelling, usually of legs and feet

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of gabapentin capsules. For more information, ask your healthcare provider or pharmacist.

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 gabapentin capsules?

• Store gabapentin capsules between 68°F to 77°F (20°C to 25°C). Keep gabapentin capsules and all medicines out of the reach of

General information about the safe and effective use of gabapentin

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

What are the ingredients in gabapentin capsules?

Active ingredient: gabapentin.

Inactive ingredients in the capsules: Pregelatinized maize starch, talc and Ingredients of Imprinting Ink(Black SW-9049) are Black Iron Oxide NF (E 172), Butyl Alcohol NF, Dehydrated Alcohol USP, Isopropyl Alcohol USP, Potassium Hydroxide NF, Propylene Glycol USP, Shellac NF, and Strong Ammonia Solution NF.

The 100-mg capsule shell also contains: gelatin and titanium dioxide. The 300-mg capsule shell also contains: gelatin, titanium dioxide, black iron oxide, red iron oxide and yellow iron oxide.

The 400-mg capsule shell also contains: gelatin, titanium dioxide, black iron oxide, red iron oxide and yellow iron oxide.

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

Distributed by: Strides Pharma Inc.

East Brunswick, NJ 08816

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Medication Guide available at: www.strides.com/gaba-caps2/

day) during the period of organogenesis, embryofetal toxicity (increased incidences is primarily renally excreted and there are no important racial differences in creatinine of skeletal variations) was observed at the two highest doses. The no-effect dose clearance pharmacokinetic differences due to race are not expected. for embryofetal developmental toxicity in mice (500 mg/kg/day) is less than the

nesis, an increase in embryofetal mortality was observed at all doses to creatinine clearance. Gabapentin elimination half-life averaged 4.7 hours and was tested (60, 300, or 1500 mg/kg). The lowest dose tested is less than the MRHD similar across the age groups studied. In a published study, gabapentin (400 mg/kg/day) was administered by

humans). Gabapentin caused a marked decrease in neuronal synapse formation in

Higher oral clearance values were observed in children <5 years of age compared hulmans). Galdaperium caused a marked decrease in medicina dynapse formation in a mouse model brains of intact mice and abnormal neuronal synapse formation in a mouse model to those observed in children 5 years of age and older, when normalized per body to those observed in children 5 years of age and older, when normalized per body to those observed in children 5 years of age and older, when normalized per body of synaptic repair. Gauaperium has been shown in the control of the \$\alpha 2\delta\$ subunit of voltage-activated calcium channels, a receptor involved in CL/F values observed in pediatric patients 5 years of age and older were co neuronal synaptogenesis. The clinical significance of these findings is unknown. 8.2 Lactation

Risk Summary Gabapentin is secreted in human milk following oral administration. The effects on with epilepsy ages 3 and 4 years should be 40 mg/kg/day to achieve average plasma the breastfed infant and on milk production are unknown. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical gabapentin at 30 mg/kg/day [see Dosage and Administration (2.2)]. need for gabapentin and any potential adverse effects on the breastfed infant from gabapentin or from the underlying maternal condition.

Safety and effectiveness of gabapentin in the management of postherpetic neuralgia in pediatric patients have not been established.

Safety and effectiveness as adjunctive therapy in the treatment of partial seizures in pediatric patients below the age of 3 years has not been established [see Clinical to 20 mL/min [see Dosage and Administration (2.3) and Use in Specific Populations

treatment effect in patients 75 years of age and older compared to younger patients ### Hall-lile Ul gavapenini was reduced to 3.6 hours. Heriotolarysis in a line in gabapentin elimination in anuric subjects [see Dosage and Administration] who received the same dosage. Since gabapentin is almost exclusively eliminated by renal excretion, the larger treatment effect observed in patients ≥75 years may be a (2.3) and Use in Specific Populations (8.6). consequence of increased gabapentin exposure for a given dose that results from an Henatic Disease The types and incidence of adverse reactions were similar across age groups except hepatic impairment. for peripheral edema and ataxia, which tended to increase in incidence with age. Clinical studies of gabapentin in epilepsy did not include sufficient numbers of Drug Interactions

subjects aged 65 and over to determine whether they responded differently from • In Vitro Studies younger subjects. Other reported clinical experience has not identified differences in In vitro studies were conducted to investigate the potential of gabapentin to inhibit responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and isoform selective marker substrates and human liver microsomal preparations. Only

in dose selection, and dose should be adjusted based on creatinine clearance value in these patients [see Dosage and Administration (2.4), Adverse Reactions (6), and Clinical Pharmacology (12.2)] Clinical Pharmacology (12.3)].

Dosage adjustment in adult patients with compromised renal function is necessary *Phenytoin*

9 DRUG ABUSE AND DEPENDENCE 9.1 Controlled Substance Gabapentin is not a scheduled drug.

Abuse is the intentional, non-therapeutic use of a drug, even once, for its desirable psychological or physiological effects. Misuse is the intentional use, for therapeutic purposes of a drug by an individual or new officers. provider or for whom it was not prescribed.

Gabapentin does not exhibit affinity for benzodiazepine, opioid (mu, delta or kappa), or affected by valproic acid. cannabinoid 1 receptor sites. Gabapentin misuse and abuse have been reported in the postmarketing setting and published literature. Most of the individuals described in these reports had a history of polysubstance abuse. Some of these individuals were taking higher than recommended doses of gabapentin for unapproved uses. When prescribing gabapentin, carefully evaluate patients for a history of drug abuse and observe them for signs and symptoms of gabapentin misuse or abuse (e.g., self-dose escalation and <u>Naproxen</u> drug-seeking behavior). The abuse potential of gabapentiin has not been evaluated in Coadministration (N=18) of naproxen sodium capsules (250 mg) with Gabapentin

in response to repeated drug use, manifested by withdrawal signs and symptoms

Hydrocodone after abrupt discontinuation or a significant dose reduction of a drug. There are rare postmarketing reports of individuals experiencing withdrawal symptoms shortly after discontinuing higher than recommended doses of gabapentin used to treat illnesses for which the drug is not approved. Such symptoms included aditation discontinuing higher than recommended doses of gabapentin used to treat illnesses for which the drug is not approved. Such symptoms included aditation discontinuing higher than recommended doses of gabapentin used to treat illnesses for which the drug is not approved. Such symptoms included aditation discontinuing higher than recommended doses of gabapentin used to treat illnesses for which the drug is not approved. Such symptoms included aditation discontinuing higher than recommended doses of gabapentin used to treat illnesses for which the drug is not approved. Such symptoms included aditation discontinuing higher than recommended doses of gabapentin used to treat illnesses for which the drug is not approved. Such symptoms included aditation discontinuing higher than recommended doses of gabapentin used to treat illnesses for which the drug is not approved. Such symptoms included aditation discontinuing higher than recommended doses of gabapentin used to treat illnesses for which the drug is not approved. Such symptoms included aditation discontinuing higher than recommended doses of gabapentin used to treat illnesses for which the drug is not approved. Such symptoms are provided and the provided aditation of the pro for which the drug is not approved. Such symptoms included agitation, disorientation and confusion after suddenly discontinuing gabapentin that resolved after restarting gabapentin. The dependence potential of gabapentin has not been evaluated in human

lethargy, and diarrhea. Fatal respiratory depression has been reported with gabapentin Gahapentin can be removed by hemodialysis.

If overexposure occurs, call your poison control center at 1-800-222-1222.

The active ingredient in gabapentin capsules USP is gabapentin, which has the The molecular formula of gabapentin is C9H17NO2 and the molecular weight is 171.24. The structural formula of gabapentin is:

Gabapentin is a white to off-white crystalline solid with a pKa1 of 3.7 and a pKa2 of 10.7. Antacid (Maalox®) containing magnesium and aluminum hydroxides reduced Analysis of responder rate using combined data from all three studies and all doses It is freely soluble in water and both basic and acidic aqueous solutions. The log of the the mean bioavailability of gabapentin (N=16) by about 20%. This decrease in (N=162, Gabapentin; N=89, placebo) also showed a significant advantage for partition coefficient (n-octanol/0.05M phosphate buffer) at pH 7.4 is -1.25. Each Gabapentin capsule contains 100 mg, 300 mg, or 400 mg of gabapentin and the Maalox. Isopropyl Alcohol USP, Potassium Hydroxide NF, Propylene Glycol USP, Shellac NF, and by probenecid.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action The precise mechanisms by which gabapentin produces its analgesic and antiepileptic actions are unknown. Gabapentin is structurally related to the neurotransmitter gamma-aminobutyric acid (GABA) but has no effect on GABA binding, uptake, or egradation. In vitro studies have shown that gabapentin binds with high-affinity to the $\alpha 2\delta$ subunit of voltage-activated calcium channels; however, the relationship of

this binding to the therapeutic effects of gabapentin is unknown. All pharmacological actions following gabapentin administration are due to the activity of the parent compound; gabapentin is not appreciably metabolized in humans.

3 divided doses, respectively. Food has only a slight effect on the rate and extent of Mutagenesis absorption of gabapentin (14% increase in AUC and C_{max}).

Less than 3% of gabapentin circulates bound to plasma protein. The apparent volume (mean ±SD). In patients with epilepsy, steady-state predose (C_{min}) concentrations | Impairment of Fertility of gabapentin in cerebrospinal fluid were approximately 20% of the corresponding

No adverse effects on fertility or reproduction were observed in rats at doses up plasma concentrations.

Gabapentin is eliminated from the systemic circulation by renal excretion as unchanged 14 CLINICAL STUDIES

Gabapentin elimination half-life is 5 to 7 hours and is unaltered by dose or following Gabapentin was evaluated for the management of postherpetic neuralgia (PHN) in population, the responder rate for gabapentin (21%) was not significantly different Gabapentin can be removed from plasma by hemodialysis.

(CL/F) of gabapentin decreased as age increased, from about 225 mL/min in those under 30 years of age to about 125 mL/min in those over 70 years of age. Renal clearance (CLr) and CLr adjusted for body surface area also declined with age; explained by the decline in renal function. [see Dosage and Administration (2.4) and Use in Specific Populations (8.5)].

Although no formal study has been conducted to compare the pharmacokinetics of of 900 mg/day gabapentin over 3 days. Dosages were then to be titrated in 600 gabapentin in men and women, it appears that the pharmacokinetic parameters for to 1200 mg/day increments at 3- to 7-day intervals to the target dose over 3 to 4 males and females are similar and there are no significant gender differences. weeks. Patients recorded their pain in a daily diary using an 11-point numeric pair

When pregnant mice received oral doses of gabapentin (500, 1000, or 3000 mg/kg/ Pharmacokinetic differences due to race have not been studied. Because gabapentin score during baseline of at least 4 was required for randomization. Analyses were one dose of study medication).

maximum recommended human dose (MRHD) of 3600 mg on a body surface area Pediatric (mg/m2) basis.

In studies in which rats received oral doses of gabapentin (500 to 2000 mg/kg/day) ages of 1 month and 12 years following a dose of approximately 10 mg/kg. Peak plasma concentrations were similar across the entire age group and occurred 2 to 3 modeling provided confirmatory evidence of efficacy across all doses. Figures 1 during pregnancy, adverse effect on offspring development (increased incluences of hydroureter and/or hydronephrosis) were observed at all doses. The lowest dose hours postdose. In general, pediatric subjects between 1 month and <5 years of age and 2 show pain intensity scores over time for Studies 1 and 2. achieved approximately 30% lower exposure (AUC) than that observed in those 5 years

A nonulation pharmacokinetic analysis was performed in 253 pediatric subjects between 1 month and 13 years of age. Patients received 10 to 65 mg/kg/day given intraperitoneal injection to neonatal mice during the first postnatal week, a period of synaptogenesis in rodents (corresponding to the last trimester of pregnancy in weight. The clearance was highly variable in infants <1 year of age. The normalized values observed in adults after a single dose. The oral volume of distribution normalized per body weight was constant across the age range.

These pharmacokinetic data indicate that the effective daily dose in pediatric patients Figure 2. Weekly Mean Pain Scores (Observed Cases in ITT Population): Study 2 Adult Patients with Renal Impairment

Subjects (N=60) with renal impairment (mean creatinine clearance ranging from 13-114 mL/min) were administered single 400 mg oral doses of gabapentin. The mean $\,$ gabapentin half-life ranged from about 6.5 hours (patients with creatinine clearance >60 mL/min) to 52 hours (creatinine clearance <30 mL/min) and gabapentin renal clearance from about 90 mL/min (>60 mL/min group) to about 10 mL/min (<30 mL/min). Mean plasma clearance (CL/F) decreased from approximately 190 mL/min Mean Pain Score

(8.6)1. Pediatric patients with renal insufficiency have not been studied.

The total number of patients treated with gabapentin in controlled clinical trials in In a study in anuric adult subjects (N=11), the apparent elimination half-life of The total number of patients treated with galaxientin in continued clinical basis in patients with postherpetic neuralgia was 336, of which 102 (30%) were 65 to 74 years of age, and 168 (50%) were 75 years of age and older. There was a larger half-life of gabapentin was reduced to 3.8 hours. Hemodialysis thus has a significant

The proportion of responders (those patients reporting at least 50% improvement in

at the highest concentration tested (171 mcg/mL: 1 mM) was a slight degree of This drug is known to be substantially excreted by the kidney, and the risk of toxic inhibition (14% to 30%) of isoform CYP2A6 observed. No inhibition of any of the reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken with the control of the c

The drug interaction data described in this section were obtained from studies involving healthy adults and adult patients with epilepsy.

[see Dosage and Administration (2.3) and Clinical Pharmacology (12.3)]. Pediatric In a single (400 mg) and multiple dose (400 mg three times a day) study of In a single (400 mg) and multiple dose (400 mg three times a day) study of In a single (400 mg) and multiple dose (400 mg three times a day) study of In a single (400 mg) and multiple dose (400 mg three times a day) study of In a single (400 mg) and multiple dose (400 mg three times a day) study of In a single (400 mg) and multiple dose (400 mg) an patients with renal insufficiency have not been studied.

Gabapentin in epileptic patients (N=8) maintained on phenytoin monotherapy

Dosage adjustment in patients undergoing hemodialysis is necessary [see Dosage for at least 2 months, gabapentin had no effect on the steady-state trough

14.2 Epilepsy for Partial Onset Seizures (Adjunctive Therapy)

The effectiveness of gabapentin as adjunctive therapy (added to other antiepileptic plasma concentrations of phenytoin and phenytoin had no effect on gabapentin drugs) was established in multicenter placebo-controlled, double-blind, parallel pharmacokinetics.

purposes, of a drug by an individual in a way other than prescribed by a health care

The mean steady-state trough serum valproic acid concentrations prior to and continuing to have at least 2 (or 4 in some studies) seizures per month, gabapentin during concomitant gabapentin administration (400 mg three times a day; N=17) were not different and neither were gabapentin pharmacokinetic parameters or placebo was then added on to the existing therapy during a 12-week treatment period. Effectiveness was assessed primarily on the basis of the percent of patients

> Estimates of steady-state pharmacokinetic parameters for phenobarbital or Estimates of steady-state pharmacokinetic parameters for phenobarbital or gabapentin (300 mg three times a day; N=12) are identical whether the drugs are denicative delengence and T is the patient's seizure frequency during treatment. Response ratio is distributed within the range -1 to +1. A zero value indicates no change

are lower than the therapeutic doses for both drugs. The magnitude of interaction

One study compared gabapentin 1200 mg/day, in three divided doses, with Physical dependence is a state that develops as a result of physiological adaptation within the recommended dose ranges of either drug is not known. Coadministration of gabapentin (125 to 500 mg; N=48) decreases hydrocodone

interaction is unknown. Hydrocodone increases gabapentin AUC values by 14%. information regarding dose response. Responder rate was higher in the gabapentin The magnitude of interaction at other doses is not known. Signs of acute toxicity in animals included ataxia, labored breathing, ptosis, sedation, by pactivity or excitation

Nonactivity or excitation

Was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours prior to a 600 mg gabagentin capsule (N=12), mean was administered 2 hours pr

> gabapentin AUC increased by 44% compared to gabapentin administered without administration of gabapentin 2 hours after morphine. The magnitude of interaction mg/day group (-0.222) than in the 1200 mg/day group, with the 1800 mg/day

> gabapentin on cimetidine was not evaluated. The defect of gabapentin on cimetidine was not evaluated.
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> The effect of gabapentin on cimetidine was not evaluated.
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> The effect of gabapentin on cimetidine was not evaluated.
>
> The effect of gabapentin on cimetidine was not evaluated. Based on AUC and half-life, multiple-dose pharmacokinetic profiles of norethindrone Analyses were also performed in each study to examine the effect of gabapentii

> and ethinyl estradiol following administration of tablets containing 2.5 mg of norethindrone acetate and 50 mcg of ethinyl estradiol were similar with and without coadministration of gabapentin (400 mg three times a day; N=13). The Cmax of norethindrone was 13% higher when it was coadministered with gabapentin; this in these analyses. There were several response ratio comparisons that showe interaction is not expected to be of clinical importance. Antacid (Maalox®) (aluminum hydroxide, magnesium hydroxide)

clonic seizures. yellow iron oxide (300 mg and 400 mg only), and red iron oxide (300 mg and 400 mg only), and red iron oxide (300 mg and 400 mg only), and red iron oxide (300 mg and 400 mg only), and red iron oxide (300 mg and 400 mg only). The results did not show a consistently increased response to only), black iron oxide (300 mg and 400 mg only). Ingredients of Imprinting Ink (Black SW-9049) are Black Iron Oxide NF (E 172), Butyl Alcohol NF, Dehydrated Alcohol USP, adapting the surface of the parameters without and with probenecid were comparable. This indicates that gabanentin does not undergo renal tubular secretion by the pathway that is blocked. gabapentin does not undergo renal tubular secretion by the pathway that is blocked increasing dose is evident (see Figure 4).

bioavailability was about 10% when gabapentin was administered 2 hours after gabapentin over placebo in reducing the frequency of secondarily generalized tonic

13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Gabapentin was administered orally to mice and rats in 2-year carcinogenicity studies. No evidence of drug-related carcinogenicity was observed in mice treated at doses up to 2000 mg/kg/day. At 2000 mg/kg, the plasma gabapentin exposure (AUC) in mice was approximately 2 times that in humans at the MRHD of 3600 mg/day. In rats, increases in the incidence of pancreatic acinar cell adenoma and not at doses of 250 or 1000 mg/kg/day. At 1000 mg/kg, the plasma gabapenting Studies designed to investigate the mechanism of gabapentin-induced pancreatic

carcinogenesis in rats indicate that gabapentin stimulates DNA synthesis in rat pancreatic acinar cells in vitro and, thus, may be acting as a tumor promoter by Gabapentin bioavailability is not dose proportional; i.e., as dose is increased, enhancing mitogenic activity. It is not known whether gabapentin has the ability to bioavailability decreases. Bioavailability of gabapentin is approximately 60%, 47%, 34%, 33%, and 27% following 900, 1200, 2400, 3600, and 4800 mg/day given in

Gabapentin did not demonstrate mutagenic or genotoxic potential in in vitro (Ames daily dose of gabapentin administered (X axis). test, HGPRT forward mutation assay in Chinese hamster lung cells) and in vivo osomal aberration and micronucleus test in Chinese hamster bone marrow, mouse micronucleus, unscheduled DNA synthesis in rat hepatocytes) assays.

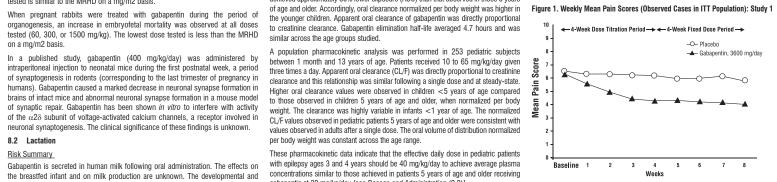
approximately 8 times that in humans at the MRHD.

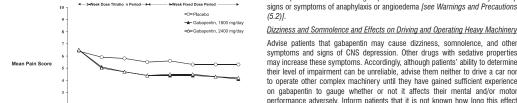
multiple dosing. Gabapentin elimination rate constant, plasma clearance, and renal two randomized, double-blind, placebo-controlled, multicenter studies. The intentclearance are directly proportional to creatinine clearance. In elderly patients, and to-treat (ITT) population consisted of a total of 563 patients with pain for more than in patients with impaired renal function, gabapentin plasma clearance is reduced. 3 months after healing of the herpes zoster skin rash (Table 6). TABLE 6. Controlled PHN Studies: Duration, Dosages, and Number of Patients Study Gabapentin Patients Patients

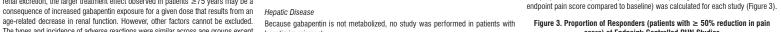
Duration (mg/day)^a Receiving Receiving Target Dose Gabapentin Placebo 8 weeks 3600 113 116 2 7 weeks 1800, 2400 223 ^a Given in 3 divided doses (TID) Each study included a 7- or 8-week double-blind phase (3 or 4 weeks of titration and 4 weeks of fixed dose). Patients initiated treatment with titration to a maximum

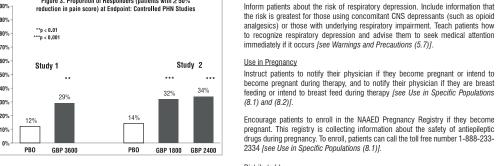
ating scale ranging from 0 (no pain) to 10 (worst possible pain). A mean pain 300 mg capsules conducted using the ITT population (all randomized patients who received at least

Both studies demonstrated efficacy compared to placebo at all doses tested. The reduction in weekly mean pain scores was seen by Week 1 in both studies,









group clinical trials in adult and pediatric patients (3 years and older) with refractory Revised: 01/2025

partial seizures. Steady-state trough plasma carbamazepine and carbamazepine 10, 11 epoxide Evidence of effectiveness was obtained in three trials conducted in 705 patients Steady-state trough plasma carbamazepine and carbamazepine 10, 11 epoxide concentrations were not affected by concomitant gabapentin (400 mg three times a day; N=12) administration. Likewise, gabapentin pharmacokinetics were unaltered by carbamazepine administration. levels and were observed on their established antiepileptic drug regimen during a 12-week baseline period (6 weeks in the study of pediatric patients). In patients with a 50% or greater reduction in seizure frequency from baseline to treatment (the "responder rate") and a derived measure called response ratio, a measure of change defined as (T - B)/ (T + B), in which B is the patient's baseline seizure

(125 mg) appears to increase the amount of gabapentin absorbed by 12% to 15%.

Gabapentin had no effect on naproxen pharmacokinetic parameters. These doses placebo. Responder rate was 23% (14/61) in the gabapentin group and 9% (6/66) in the placebo group; the difference between groups was statistically significant. Response ratio was also better in the gabapentin group (-0.199) than in the placebo

while complete elimination of seizures would give a value of -1; increased seizur

rates would give positive values. A response ratio of -0.33 corresponds to a 50%

respectively, after administration of 125 mg gabapentin and 21% to 22% lower, respectively, after administration of 500 mg Gabapentin. The mechanism for this groups (600 mg/day, N=53; 1800 mg/day, N=54) were also studied for 1200 mg/day group (16%) than in the placebo group (8%), but the difference was not statistically significant. The responder rate at 600 mg (17%) was also not ratio was better in the gabapentin 1200 mg/day group (-0.103) than in the placebo Acute oral overdoses of gabapentin have been reported. Symptoms have included double vision, tremor, slurred speech, drowsiness, altered mental status, dizziness, altered mental status, dizziness, of gabapentin AUC increased by 44% compared to gabapentin administered without morphine. Morphine pharmacokinetic parameter values were not affected by determine the majority of gabapentin AUC increased by 44% compared to gabapentin administered without morphine. Morphine pharmacokinetic parameter values were not affected by determine the majority of gabapentin for gabapentin for gabapentin administered without group (-0.022); but this difference was also not statistically significant (p = 0.224). A better response was seen in the gabapentin 600 mg/day group (-0.105) and 1800 mg/day group (-0.105) and 1800 mg/day group (-0.105). group achieving statistical significance compared to the placebo group.

A third study compared gabapentin 900 mg/day, ill urree unview uses (N=11), the mean apparent oral clearance of gabapentin fell by 14% and creatinine clearance fell by 10%. Thus, cimetidine appeared to alter the renal excretion of both gabapentin and creatinine, an endogenous marker of renal function. This decrease in excretion of the finite of the compared to the compared to the finite of the compared to the finite of the compared to the compared to the finite of the compared to the compa (-0.184) compared to placebo.

a statistically significant advantage for gabapentin compared to placebo and

In two of the three controlled studies, more than one dose of gabapentin was used Figure 4. Responder Rate in Patients Receiving Gabapentin Expressed as a

Difference from Placebo by Dose and Study: Adjunctive Therapy Studies in



Although no formal analysis by gender has been performed, estimates of response important gender differences exist. There was no consistent pattern indicating that age had any effect on the response to Gabapentin. There were insufficient numbers of patients of races other than Caucasian to permit a comparison of efficacy among to 2000 mg/kg. At 2000 mg/kg, the plasma gabapentin exposure (AUC) in rats is racial groups. A fourth study in pediatric patients age 3 to 12 years compared 25 - 35 mg/kg/

day gabapentin (N=118) with placebo (N=127). For all partial seizures in the

intent-to-treat population, the response ratio was statistically significantly better for

the gabapentin group (- 0.146) than for the placebo group (-0.079). For the sam

A study in pediatric patients age 1 month to 3 years compared 40 mg/kg/day gabapentin (N=38) with placebo (N=38) in patients who were receiving at least one marketed antiepileptic drug and had at least one partial seizure during the screening period (within 2 weeks prior to baseline). Patients had up to 48 hours of baseline and up to 72 hours of double-blind video EEG monitoring to record and count the occurrence of seizures. There were no statistically significant differences between treatments in either the response ratio or responder rate.

16 HOW SUPPLIED/STORAGE AND HANDLING Gabapentin capsules USP are supplied as follows:

Hard gelatin capsules with white opaque body with white opaque cap imprinted with "AHD" on cap and "100" on body In black ink and filled with Bottles of 100: NDC 64380-753-01

Hard gelatin capsules with yellow opaque body with caramel opaque cap. mprinted with "AHD" on cap and "300" on body in black ink and filled with white to off- white powder; available in: Bottles of 100: NDC 64380-754-01

Bottles of 500: NDC 64380-754-02 Hard gelatin capsules with orange opaque body with caramel opaque cap imprinted with "AHD" on cap and "400" on body in black ink and filled with white to off-white powder; available in:

Bottles of 100: NDC 64380-731-01 Store at 20° to 25° C (68° to 77° F): excursions permitted to 15° to 30°C (59° to

17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Medication Guide). Administration Information Inform patients that gabapentin is taken orally with or without food. Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)/Multiorgan

may herald a serious medical event and that the patient should report any such ccurrence to a physician immediately [see Warnings and Precautions (5.1)]. Anaphylaxis and Angioedema Advise patients to discontinue gabapentin and seek medical care if they develop

Prior to initiation of treatment with Gabapentin, instruct patients that a rash or

other signs or symptoms of hypersensitivity (such as fever or lymphadenopathy)

Dizziness and Somnolence and Effects on Driving and Operating Heavy Machinery Advise patients that gabapentin may cause dizziness, somnolence, and other may increase these symptoms. Accordingly, although patients' ability to determine their level of impairment can be unreliable, advise them neither to drive a car nor to operate other complex machinery until they have gained sufficient experience on gabapentin to gauge whether or not it affects their mental and/or motor performance adversely. Inform patients that it is not known how long this effect lasts [see Warnings and Precautions (5.3) and Warnings and Precautions (5.4)].

Suicidal Thinking and Behavior Counsel the patient, their caregivers, and families that AEDs, including Gabapentin, may increase the risk of suicidal thoughts and behavior. Advise patients 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 about self-harm. Instruct patients to report behaviors of concern immediately to healthcare providers [see Warnings and Precautions (5.6)].

Inform patients about the risk of respiratory depression. Include information that the risk is greatest for those using concomitant CNS depressants (such as opioid analgesics) or those with underlying respiratory impairment. Teach patients how to recognize respiratory depression and advise them to seek medical attention immediately if it occurs [see Warnings and Precautions (5.7)].

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

drugs during pregnancy. To enroll, patients can call the toll free number 1-888-233-Strides Pharma Inc

Medication Guide available at: www.strides.com/gaba-caps2/

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Product

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