



GABAPENTIN TABLETS, USP

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

GABAPENTIN tablets, for oral use

Initial U.S. Approval: 1993

Warnings and Precautions: Anaphylaxis and Angioedema: discontinue gabapentin and evaluate patient immediately (5.2)

Indications and Usage: Gabapentin is indicated for: Adjunctive therapy in the treatment of partial onset seizures, with and without secondary generalization, in adults and pediatric patients 3 years and older with epilepsy (1)

Adverse Reactions: Most common adverse reactions (incidence >=8% and at least twice that for placebo) were: • Epilepsy in patients 3 to 12 years of age: somnolence, dizziness, ataxia, fatigue, and nystagmus (6.1)

Drug Interactions: • Morphine increases gabapentin concentrations; dose adjustment may be needed (5.4, 7.2)

CONTRAINDICATIONS

Known hypersensitivity to gabapentin or its ingredients (4)

Warnings and Precautions: Drug Reaction with Eosinophilia and Systemic Symptoms (Multorgan hypersensitivity): discontinue gabapentin if an alternative etiology cannot be established (5.1)

Adverse Reactions: • Pregnancy: based on animal data, may cause fetal harm (8.1)

Use in Specific Populations: • Pediatric Use: effectiveness as adjunctive therapy in treatment of partial seizures in pediatric patients below the age of 3 years has not been established (8.4)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

Revised: 12/16

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE: Gabapentin is indicated for: Adjunctive therapy in the treatment of partial onset seizures, with and without secondary generalization, in adults and pediatric patients 3 years and older with epilepsy

2.2 Dosage for Epilepsy with Partial Onset Seizures: Patients 12 years of age and above: The starting dose is 300 mg three times a day.

Pediatric Patients Age 3 to 11 years: 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 over a period of approximately 3 days.

2.3 Dosage Adjustment in Patients with Renal Impairment: Dosage adjustment in patients 12 years of age and older with renal impairment or undergoing hemodialysis is recommended, as follows (see dosing recommendations above for effective doses in each indication):

TABLE 1. Gabapentin Dosage Based on Renal Function

Renal Function	Total Daily Dose Range (mg/day)	Dose Regimen (mg)
≥ 60	900 to 3,600	300 TID, 400 TID, 600 TID, 800 TID, 1,200 TID
>30 to 59	400 to 1,400	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
Hemodialysis	125 ^b , 150 ^b , 200 ^b	250 ^b , 350 ^b

3.5 Withdrawal Precipitated Seizure, Status Epilepticus: Antiepileptic drugs should not be abruptly discontinued because of the possibility of increasing seizure frequency.

Among the 2,074 patients >12 years of age treated with gabapentin across all epilepsy studies (controlled and uncontrolled), 31 (1.5%) had status epilepticus.

5.6 Suicidal Behavior and Ideation: Antiepileptic drugs (AEDs), including gabapentin, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication.

6.1 Clinical Trials Experience: 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.

7.1 Other Antiepileptic Drugs: The risk of increased risk of suicidal thoughts or behavior was generally consistent among drugs in the data analyzed.

8.1 Pregnancy: The relative risk for suicidal thoughts or behavior was higher in clinical trials for epilepsy than in clinical trials for psychiatric or other conditions.

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

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

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.

TABLE 4. Adverse Reactions in Pooled Placebo-Controlled Add-On Trials in Epilepsy Patients >12 years of age

	Gabapentin ^a N = 543 %	Placebo ^b N = 378 %
Body As A Whole		
Fatigue	11	5
Weight Increase	3	2
Back Pain	2	1
Peripheral Edema	2	1
Cardiovascular		
Vasodilatation	1	0
Digestive System		
Dyspepsia	2	1
Mouth or Throat Dry	2	1
Constipation	2	1
Dental Abnormalities	2	0
Nervous System		
Somnolence	19	9
Dizziness	17	7
Ataxia	13	6
Nystagmus	8	4
Tremor	7	3
Dysarthria	2	1
Amnesia	2	0
Depression	2	1
Thinking Abnormal	2	1
Coordination Abnormal	1	0
Respiratory System		
Pharyngitis	3	2
Coughing	2	1
Skin and Appendages		
Abrasion	1	0
Urogenital System		
Impotence	2	1
Special Senses		
Diplopia	6	2
Amblyopia ^a	4	1

^a Plus background antiepileptic drug therapy
^b Amblyopia was often described as blurred vision.

Among the treatment-emergent adverse reactions occurring at an incidence of at least 10% in gabapentin-treated patients, somnolence and ataxia appeared to exhibit a positive dose-response relationship.

The overall incidence of adverse reactions and the types of adverse reactions seen were similar among men and women treated with gabapentin. The incidence of adverse reactions increased slightly with increasing age in patients treated with either gabapentin or placebo.

Table 5 lists adverse reactions that occurred in at least 2% of gabapentin-treated patients, age 3 to 12 years of age with epilepsy participating in placebo-controlled trials, and which were numerically more common in the gabapentin group.

TABLE 5. Adverse Reactions in a Placebo-Controlled Add-On Trial in Pediatric Epilepsy Patients Age 3 to 12 Years

Body System/ Adverse Reaction	Gabapentin ^a N=119%	Placebo ^b N=120%
Body As A Whole		
Viral Infection	11	3
Fever	10	3
Weight Increase	3	1
Fatigue	3	2
Digestive System		
Nausea and/or Vomiting		7
Nervous System		
Somnolence	8	5
Hostility	8	2
Emotional Lability	4	2
Dizziness	3	2
Hyperkinesia	3	1
Respiratory System		
Bronchitis	3	1
Respiratory Infection	3	1

^a Plus background antiepileptic drug therapy

Other reactions in more than 2% of pediatric patients 3 to 12 years of age but equally or more frequent in the placebo group included: pharyngitis, upper respiratory infection, headache, rhinitis, convulsions, diarrhea, anorexia, coughing, and otitis media.

6.2 Postmarketing Experience: The following adverse reactions have been identified during postmarketing use of gabapentin. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Investigations: elevated creatine kinase, elevated liver function tests
Metabolism and nutrition disorders: hypонатемия
Nervous system disorders: movement disorder
Musculoskeletal and connective tissue disorders: rhabdomyolysis
Reproductive system and breast disorders: breast engorgement, changes in libido, ejaculation disorders and anorgasmia
Skin and subcutaneous tissue disorders: angioedema

Adverse reactions following the abrupt discontinuation of gabapentin have also been reported. The most frequently reported reactions were anxiety, insomnia, nausea, pain, and sweating.

7 DRUG INTERACTIONS

7.1 Other Antiepileptic Drugs: Gabapentin is not appreciably metabolized nor does it interfere with the metabolism of commonly coadministered antiepileptic drugs.

7.2 Opioids

Hydrocodone: Coadministration of gabapentin with hydrocodone decreases hydrocodone exposure.

Morphine: When gabapentin is administered with morphine, patients should be observed for signs of central nervous system (CNS) depression, such as somnolence, sedation and respiratory depression.

7.3 Maalox[®] (aluminum hydroxide, magnesium hydroxide): The mean bioavailability of gabapentin was reduced by about 20% with concomitant use of an antacid.

7.4 Drug/Laboratory Test Interactions: Because false positive readings were reported with the Ames N-Multitest SG[®] dipstick test for urinary protein when gabapentin was added to other antiepileptic drugs, the more specific sulfosalicylic acid precipitation procedure is recommended to determine the presence of urine protein.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C: There are no adequate and well-controlled studies in pregnant women. In nonclinical studies in mice, rats, and rabbits, gabapentin was developmentally toxic when administered to pregnant animals at doses similar to or lower than those used clinically.

When pregnant mice received oral doses of gabapentin (500 mg/kg/day, 1,000 mg/kg/day, or 3,000 mg/kg/day) during the period of organogenesis, embryo-fetal toxicity (increased incidences of skeletal variations) was observed at the two highest doses.

In studies in which rats received oral doses of gabapentin (500 mg/kg/day to 2,000 mg/kg/day), during pregnancy, adverse effect on offspring development (increased incidences of hydronephrosis and/or hydropnephrosis) were observed at all doses.

When pregnant rabbits were treated with gabapentin during the period of organogenesis, an increase in embryo-fetal mortality was observed at all doses tested (60 mg/kg, 300 mg/kg, or 1,500 mg/kg).

In a published study, gabapentin (400 mg/kg/day) was administered by intraperitoneal injection to neonatal mice during the first postnatal week, a period of synaptogenesis in rodents corresponding to the last trimester of pregnancy in humans.

To provide information regarding the effects of in vitro exposure to gabapentin, physicians are advised to recommend that pregnant patients taking gabapentin enroll in the North American Antiepileptic Drug (NAED) Pregnancy Registry. This can be done by calling the toll free number 1-888-233-2334, and must be done by patients themselves.



